
Puget Sound Gateway Project

SR 509, I-5 and SR 167 Funding and Phasing Study: Strategic Corridor Design Review



Appendix H: Cost Estimate Narrative

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Contents

1. STRATEGIC CORRIDOR DESIGN REVIEW	H-1
2. GENERAL APPROACH	H-1
2.1 Historic Bid-based Estimates	H-2
2.2 Production-based Estimates.....	H-2
3. BASIS OF ESTIMATES.....	H-3
4. FINAL ESTIMATES	H-4
4.1 Puget Sound Gateway Phase 1	H-4
4.2 Puget Sound Gateway Future Phase.....	H-5
5. BASE ESTIMATE EVALUATION	H-6
5.1 Preliminary Estimates.....	H-6
5.2 Historic Bid-based Estimate Review	H-6
5.2.1 Bridge costs	H-7
5.2.2 Common Mark-ups.....	H-8
6. ESTIMATE COMPARISON	H-8
6.1 Summary Cost	H-8
6.2 Factors Affecting Cost Ranges	H-9
6.2.1 Grading Items	H-10
6.2.2 Structures.....	H-11
6.2.3 Surfacing and Asphalt Paving	H-11
6.2.4 Maintenance of Traffic and Construction Staging.....	H-12
6.2.5 Other Items	H-12
6.3 Quantities and Unit Costs.....	H-12
6.4 Cost Estimate Validation Process (CEVP) Factors	H-12
6.5 Market Inflation.....	H-13
APPENDIX H.1 – HISTORIC BID-BASED ESTIMATES	H.1-1
APPENDIX H.2 – PRODUCTION-BASED ESTIMATES.....	H.2-1

Tables

Table H- 1 Gateway Phase 1 Historic Bid-based and Production-based Cost Comparisons (\$ millions).....	9
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1. STRATEGIC CORRIDOR DESIGN REVIEW

In October of 2012, following two decades of project development, the Washington State Department of Transportation (WSDOT) initiated a strategic corridor design review for the Puget Sound Gateway (Gateway) Project. The Gateway Project integrates three corridor projects that had previously been studied independently: the SR 167 Completion Project, I-5 Express Toll Lanes (ETL), and the I-5/SR 509 Corridor Completion and Freight Improvement Projects. WSDOT initiated the study to identify integrated, sustainable approaches to completing the critical SR 167 and SR 509 connections to I-5 while relieving congestion and improving mobility between Tacoma and Seattle. Specifically, the Puget Sound Gateway Project study:

- Developed a project that integrates the SR 167 and SR 509 completion projects, and I-5 express toll lanes
- Built stakeholder support by identifying a phased approach that met regional priorities and needs
- Included national and local experts who developed phasing concepts, cost estimates, project delivery and financing strategies
- Created an implementation plan to move the Gateway Project forward

2. GENERAL APPROACH

To conduct the strategic corridor design review, WSDOT implemented a team approach that leveraged its own expertise and project history with strategic consultant resources to provide consistency across all three corridors—SR 167, I-5 and SR 509. WSDOT invited local and national subject matter experts (SME) to participate in the strategic corridor design review. The SME team included local and national experts in design, finance, delivery, construction and constructability, and included former construction contractors. The SME team worked with WSDOT to review and update the unit costs, estimate approaches and methodologies. The SMEs provided recommendations to better align initial implementation costs between the three corridors.

In the initial phase of the strategic corridor design review, the study team reviewed the estimates and recommended unit price revisions to reflect current market conditions. Following the base estimate review, the team prepared rough order of magnitude (ROM) cost ranges for project scenarios identified during the project workshops. The ROMs were a guide for screening project alternatives and were prepared in an effort to identify project cost reductions that maintained the projects goals.

Once final layouts were determined, a contractor-style, Production-based estimate was prepared using HCSS (Heavy Bid) estimating software. The estimates use real labor, equipment and material costs. The estimates reflect current market conditions, labor rates and equipment costs.

Finally, the contractor-style, Production-based estimate was compared to the WSDOT estimate for the baseline projects and differences were analyzed and summarized.

2.1 Historic Bid-based Estimates

The primary construction cost estimates used in the study are Historic Bid-based cost estimates as defined in the Cost Estimating Manual for WSDOT Projects (WSDOT M 3034.02, July 2009). This type of estimate uses a straightforward count or measure of units of items multiplied by unit costs. These unit costs are developed from historical data from bids on WSDOT construction projects. This is the most common type of estimating in development of design-bid-build projects.

The WSDOT Cost Estimating Manual has identified the following concerns for Historic Bid-based (and Cost-Based Estimates):

- All changes, assumptions, and data origins should be clearly documented.
- Estimators should guard against false precision
- It is important to choose the correct unit costs for major items and then correctly inflate those costs to current dollars.
- Use sound risk identification and quantification practices to ensure that major risks to the project are identified and documented.

2.2 Production-based Estimates

Production-based estimates were developed for the selected alternatives, and used for comparison and evaluation of the Historic Bid-based estimates. Production-based estimate methods do not rely on historical WSDOT bid data, but rather are based on determining, for an item or set of items, the contractor's cost for labor, equipment, materials and subcontractor effort (if appropriate) needed to complete the work. A reasonable amount for contractor overhead and profit is then added. The Production-based estimate is roughly equivalent to a cost-based estimate as defined in the WSDOT Cost Estimate Manual.

The goal of the Production-based estimate is to determine reasonable costs based on current market conditions by estimating costs on all identified quantities and work, and then add allowances for risks and items not yet quantified. Duration-based items such as traffic control, erosion control and contractor indirect and project overhead costs are listed in detail and are not based on percentages applied to the total direct construction cost.

The final cost analysis shows the progression from the Historic Bid-based estimate to the revised the Historic Bid-based estimate, and compares the Historic Bid-based estimate with the Production-based estimate. Unit cost items were identified as well as markups and allowances including design costs. Assumptions and risks have been clearly identified in the comparison summary.

3. BASIS OF ESTIMATES

The Historic Bid-based construction cost estimates for the Puget Sound Gateway Project were developed based on cost estimates created during previous design efforts for SR 167, I-5 ETL, and SR 509.

For SR 167, the cost estimate is based on a 2012 Cost Estimate Validation Process (CEVP) of an initial construction phase, SR 167 Phase 1, of the full build, six-lane alternative¹. The initial construction phase was defined as one-lane northbound and southbound located on the northbound SR 167 alignment, with auxiliary lanes between the I-5 interchange and 54th Avenue E (creating a two-lane section both directions). SR 167 Phase 1 also included:

- Full directional interchange at I-5 (without HOV direct connections)
- Diamond interchange at Valley Avenue E
- Half-single point urban interchange at 54th Avenue E
- Single point urban interchange at SR 161/N Meridian Avenue
- Replace Porter Way bridge and NE 70th Avenue E connection
- Hylebos Creek and Wapato Creek mitigation

For the I-5 Express Toll Lanes, there has been a very preliminary estimate prepared for planning purposes. In 2009, the Federal Highway Administration (FHWA) Value Pricing Pilot Program awarded WSDOT \$1.28 million to study the design and implementation of a regional network of dynamically priced express toll lanes along I-5 in the Puget Sound Region through the I-5 Express Lane System Pre-Design Project. The concepts included both conversion of the existing inside HOV lanes to ETLs and addition of a second ETL through roadway widening. The southern segments of the full system were pulled out and used as the basis of this study.

For I-5/SR 509, the estimates are based on SR 509 Option C, a scaled back phase endorsed by the project I-5/SR 509 Executive Committee in early 2012. The basis of estimate for this study is subsequent work that culminated in the June 2012 Scoping estimate by WSDOT. This scoping study developed approximately a 30 percent design for SR 509 Option C, which included one-lane each direction on SR 509, with auxiliary lanes to the 28th/24th Avenue S interchange, and included:

- HOV/ETL direct connections between the I-5 median HOV lanes and SR 509
- New diamond interchange at S 188th Street and SR 509
- Half-diamond interchange to/from east at 28th/24th Avenues S
- New connection to S 231st Way via new I-5 collector-distributor (C-D) roadways
- Reconstruct I-5 SR 516 interchange to include the new I-5 C-D roadways

¹ The full build alternative is as described in the Final Environmental Impact Statement and Record of Decision.

All of these SR 167, I-5 and SR 509 estimates were prepared in 2011 year of expenditure dollars.

4. FINAL ESTIMATES

Through the design workshops, stakeholder input, and other design refinements, the base estimates were updated to reflect the key alternatives that were included for further evaluation. Through the study, the Puget Sound Gateway Phase 1 Project and the Puget Sound Gateway Future Phase Project were identified, and were the basis of the final estimates for the study.

4.1 Puget Sound Gateway Phase 1

The initial construction phase builds components of the full Puget Sound Gateway Project for SR 167, SR 509 and I-5 Express Toll Lanes. Appendix A, Exhibits A-1, A-5 and A7 show the features of the proposed Phase 1 construction of the Puget Sound Gateway Project.

- Construct one lane in each direction on SR 167 between SR 509 and SR 161 (N Meridian Avenue)
- Add an auxiliary in each direction on SR 167 between Valley Ave E and 54th Avenue E
- Replace Porter Way bridge over I-5
- Construct the new I-5/SR 167 interchange
- New interchange on SR 167, to/from east at 54th Avenue E
- New interchange on SR 167, to/from west at Valley Avenue E
- New interchange on SR 167, to/from east at Freeman Road E
- Complete the SR 167/SR 161 (N Meridian Avenue)
- Replace 70th Avenue E over I-5 from 20th Street E to SR 99
- Construct environmental mitigation in the Hylebos and Wapato Creek Basins

The first phase of the I-5 Express Toll Lanes will convert the existing HOV lane to an express toll lane from Tacoma to Seattle.

This phase completes the SR 509 freeway connection between S 188th Street in the City of SeaTac and I-5, and adds capacity to I-5 between the SR 509 interchange and S 272nd Street in Federal Way to accommodate forecast traffic volumes.

- Construct one lane in each direction on SR 509 between S 188th Street and I-5
- Add an auxiliary in each direction on SR 509 between S 200th Street and I-5
- Add truck climbing lanes on SR 509 to provide freight bypass as needed on steep grades
- Complete the SR 509/S 188th Street interchange
- New interchange on SR 509 to/from east at 28th/24th Avenue S
- Construct the new I-5/SR 509 interchange

- Construct the new connection to S 231st Way and the Green River Valley
- Improve the I-5/SR 516 interchange to include new I-5 collector-distributor lanes
- Build a new southbound general-purpose lane between SR 516 and S 272nd Street on I-5

4.2 Puget Sound Gateway Future Phase

The Puget Sound Gateway will build two lanes in both directions of SR 509 and SR 167 and complete all planned interchanges. On I-5, the express toll lanes would be expanded to a dual-lane system between SR 167 and SR 509, including freeway-to-freeway ramps at both interchanges. Appendix A, Exhibits A-3, A-6 and A-8 show the features of the proposed future phase of construction of the SR 167 portion of the Puget Sound Gateway Project.

The proposed future phase construction of the SR 167 portion of the Puget Sound Gateway Project will:

- Widen SR 167 to two lanes in each direction between SR 161 (N Meridian Avenue) and Valley Avenue E
- Build the freeway-to-freeway ramps at the I-5/SR 167 Interchange
- Add ramps to/from I-5 ETL median at the I-5/SR 167 Interchange
- Complete the Valley Avenue E interchange on SR 167

Future phase of the I-5 Express Toll Lanes will add a second express toll lane system from SR 167 to SR 509, and will add direct connections from I-5 to both SR 167 and SR 509.

The proposed future phase of the SR 509 portion of the Puget Sound Gateway Project will:

- Widen SR 509 to two lanes in each direction between S 188th Street and I-5
- Add ramps to/from I-5 ETL median at the I-5/SR 509 interchange
- Connect to Sea-Tac International Airport South Access project to SR 509
- Construct a new interchange on SR 509 to/from north at S 200th Street
- Add capacity to I-5 as warranted between SR 509 and S 272nd Street

5. BASE ESTIMATE EVALUATION

5.1 Preliminary Estimates

Early work focused on updating existing Historic Bid-based estimates by adding detail for new configurations. Review of the base estimates for the three projects focused on the high dollar value items including: mobilization, bridges, walls, roadway earthwork (embankment, compaction and borrow), and paving.

As part of the cost estimate review, the unit bid prices for the items included in the estimate were qualitatively reviewed to determine if they are comparable to current market values. While some variation was noted in comparison to current market prices, and only the structure unit costs warranted changing.

The Initial Design Workshop and the Second Design Workshop identified a number of alternative project configurations that could reduce costs significantly while retaining the desired functions. The workshops produced 20 cost savings alternatives for the SR 167, I-5, and SR 509 projects. These 20 alternatives were reviewed and screened down to five alternatives for each of the respective projects. Rough order of magnitude (ROM) costs for the alternatives were prepared and compared to the full-build cost estimates. Some of the major findings of the workshops and design reviews as follows:

- Utilize less expensive and similar structure types during construction. A design-builder typically will try to use similar structure types when designing and constructing a project. This helps increase efficiencies through similar structures. For example, using concrete girders that are similar lengths, consistent column and pier types and layout, and consistent foundations of either shafts or driven pile. The WSDOT estimate included a variety of structure types so the use of consistent, less costly structure types such as concrete girder bridges should be maximized in the project.
- Utilize on-site fill material if possible when constructing fills and bridge approaches. There may be on-site locations where good borrow material is available. Some additional investigation should be made to ascertain the quality of suitable borrow materials. On-site material sources will have a significant positive cost impact to the project.
- Utilize on-site waste and/or staging locations for excavation materials. A large cost of excavation items is due to trucking costs. Any reduction of hauling requirements has a large impact to overall excavation costs.

5.2 Historic Bid-based Estimate Review

The base estimates were reviewed to verify and update the unit costs. Significant findings of this review include:

- The bridge costs make up significant portion of the project costs and appear to be above recent market rates in the base estimates. There are many different structure types and overall costs likely to change based on workshop findings and utilizing alternative structure types such as concrete girder instead of steel box bridges.

- The earthwork item costs, excavation, borrow, etc., were close to anticipated pricing based on recent market conditions. However, these costs were reviewed and minor adjustments were made to reflect trucking costs based on proximity to sources or waste sites.
- Toll costs were very preliminary, so additional unit items were added, removing the need for as many percentage based items.
- There are many markup costs in the Historic Bid-based estimate for missing bid items, traffic control, design management, sales tax, mobilization, and others. These markups add significant costs to the construction estimate and are compounding. The initial evaluation indicated these costs were conservative, so they were adjust to align with recent bid observations.

5.2.1 Bridge costs

A review of historic unit bridge costs estimates produced the following comments for the structure pricing:

1. Typical concrete girder structures should be \$150 to \$175 per square foot. Past costs and estimates that show \$150 per square foot for no frills short span structures over canals etc. especially when there are several in a row. The estimates will be revised to use \$175 per square foot for the concrete girder structures.
2. Spliced concrete girder structures should be approximately \$200 per square foot. This cost includes furnishing, placing, and grouting the PT work inside the girders. This is based on several spliced girder structures built in Salt Lake City. The unit cost was increased by 30 percent to \$200 per square foot to cover inflation for older base data. This cost does not apply to post-tensioned box girders.
3. Steel girder structures should be \$225 per square foot. This is based on recent structure over the railroad in tight quarters, which had a unit price of \$197 per square foot. Comparative costs were \$215 to \$220 per square foot range.
4. Steel tub girders should be \$250 per square foot typically due to trucking constraints and larger crane requirements.
5. (SR 167 only) The Puyallup River Bridge should be estimated at \$300 per square foot. By comparison, the SR520 floating bridge work is currently approximately \$276 per square foot, including the work trestle and barges. Previous estimates have utilized \$300 to \$500 per square foot cost, above what has been observed on equally complex projects.

All structure costs will vary depending on the size of the structure. The larger the structure, the better the unit cost will appear due to spreading abutment and foundation costs over larger areas. Smaller structures will have larger unit rates simply because the cost of foundation and abutment work being spread over smaller deck areas.

5.2.2 Common Mark-ups

Both the Historic Bid-based and the Production-based estimates are calculated based on a common set of mark-ups that address unknown items, sales tax and project obligations. The project obligations are based on a standard design-build contract, and would have to be modified if another contract form is selected.

Unknown item allowance

- SR 167 12% of Direct known items
- I-5 ETL and SR 509 20% of Direct known items

The sum of the bid items, incl. Mobilization, TESC, MOT and unknown items is the "Base Direct."

Sales Tax (9.5% of Base Direct)

Project Obligations

- Construction Engineering and Inspection (8% of Base Direct + tax, for WSDOT Team)
- DB Engineering and Quality (8% of Base Direct + tax, for DB'er Team)
- Standard Contingency (4% of Base Direct + tax)
- Washington State Patrol (0.1% of Base Direct + tax)
- Preliminary Eng. & Project Management (5% of Base Direct, for WSDOT Team)

Note, no non-specific mark-ups were included for right of way (ROW) or utilities. All costs for ROW and utilities are included in other items.

There are two elements of the estimates that should be considered for further evaluation and discussion at a higher level. The first element relates to how the sales tax rate is applied. Currently the sales tax rate is included at 9.5 percent across all items in the estimate. Based on how the tax is actually applied it might warrant being reduced to approximately 5.0 percent. The rationale behind this revision is that about 50 percent of the cost for most projects is permanent materials and expendables that are taxed. The labor, equipment and subcontractors typically do not have sales tax applied. This factor could be included as a potential cost savings, reducing the total bid limit, providing additional economy in the proposal process. Alternatively, this could be carried as an opportunity through the cost estimate validation process, which would also acknowledge the savings.

The second item related to the add-on percentages included for missing bid items (TESC, MOT, Mobilization, contingency, etc.). The approach taken in the overall estimate is conservative so there may be opportunity to reduce or eliminate the percentages as the projects are further refined and estimates that are more detailed are developed.

6. ESTIMATE COMPARISON

6.1 Summary Cost

The summary of the cost estimates developed using the Historic Bid-based and Production-based methods are presented in Table H-1. The summary costs are grouped in to Preliminary Engineering (PE), Right of Way (ROW), unadjusted Construction (CN), Inflation escalation

(INFL.), and a mark-up for risk/opportunities (RISK). The total for each project area and method is included in the TOTAL.

Table H- 1 Gateway Phase 1 Historic Bid-based and Production-based Costs (\$ millions)

	SR 167 - Phase 1		SR 167 - FUTURE	
	HISTORIC BID-BASE	PRODUCTION-BASE	HISTORIC BID-BASE	PRODUCTION-BASE
PE	\$ 24	\$ 25	\$ 32	\$ 34
ROW	\$ 155	\$ 155	\$ 155	\$ 155
CN	\$ 544	\$ 568	\$ 757	\$ 778
INFL.	\$ 76	\$ 51	\$ 445	\$ 329
RISK	\$ 25	\$ 26	\$ 35	\$ 35
TOTAL	\$ 824	\$ 825	\$ 1,424	\$ 1,331

	I-5 ETL - Phase 1		I-5 ETL - FUTURE	
	HISTORIC BID-BASE	PRODUCTION-BASE	HISTORIC BID-BASE	PRODUCTION-BASE
PE	\$ 7	\$ 3	\$ 12	\$ 13
ROW	\$ -	\$ -	\$ -	\$ -
CN	\$ 105	\$ 119	\$ 253	\$ 287
INFL.	\$ 15	\$ 8	\$ 72	\$ 50
RISK	\$ 13	\$ 15	\$ 31	\$ 35
TOTAL	\$ 140	\$ 145	\$ 368	\$ 385

	SR 509 - Phase 1		SR 509 - FUTURE	
	HISTORIC BID-BASE	PRODUCTION-BASE	HISTORIC BID-BASE	PRODUCTION-BASE
PE	\$ 22	\$ 22	\$ 23	\$ 22
ROW	\$ 111	\$ 111	\$ 111	\$ 111
CN	\$ 485	\$ 495	\$ 522	\$ 515
INFL.	\$ 81	\$ 43	\$ 327	\$ 215
RISK	\$ 59	\$ 60	\$ 63	\$ 62
TOTAL	\$ 758	\$ 731	\$ 1,046	\$ 925

Notes:

1. Adjusted for risk/opportunity using corridor-specific CEVP adjustment. Add 4.5% of CN for SR 167, and 12% of CN for SR 509 and I-5 ETL.
2. Construction Costs were inflated to middle year of construction at annual inflation rate of 2.4%. Preliminary Engineering (PE) and Right of Way (ROW) were not inflated.
3. Tax based on current rate of 9.5%

6.2 Factors Affecting Cost Ranges

Several factors affect the cost ranges developed during the study, including the level of detail in the quantities and unit costs, newer approaches in the CEVP, Administration and Engineering costs, and market condition variations. The cost estimate summaries and more detailed estimates are included in Appendices H1 and H2. Appendix H1 includes the Historic Bid-based estimate summaries, showing mark-ups to the direct costs, summaries of quantities with unit bid prices item, bid item quantities and total bid items costs. Appendix H2 includes the summaries for the Production-based estimates with quantities, equivalent unit bid costs, and bid item totals.

When comparing the details of the unit items, the larger differences between the adjusted Historic Bid-based estimate and the Production-based estimate are in the grading items, structures, surfacing, asphalt paving, maintenance of traffic and construction staging items. Each of these items is discussed below.

6.2.1 Grading Items

There is substantial earthwork and borrow requirements for both the SR 167 and SR 509 projects. The unit costs in the Historic Bid-based estimate and the Production-based estimate illustrate the large differences in the estimates since the costs are based on significant quantities. The Production-based estimates are based on disposing the majority of excavation materials and importing borrow for fill. The main reason for the cost differences in these items is due to trucking costs and waste fees. The Production-based estimate used a regional average cost to haul and waste excavated material, as well as purchase and haul in borrow material. The borrow cost was reduced based on the premise that a majority of imported borrow material could be obtained at a gravel source located very close to the projects. The estimates are also based on some gravel borrow material being available on the project, rather than from a commercial gravel pit.

The estimated costs for some of the earthwork items as follows:

Excavation

Historic Bid-based	Production-based
\$8.30 to \$10.00 per cubic yard	\$10.00 to \$18.00 per cubic yard/cy

As stated, the Production-based estimate assumes the majority of material will be hauled off site and wasted. Dump fees alone can account for \$5 to \$20 per cubic yard depending on the dumpsite. These estimates carry \$5 to \$6 per cubic yard dump fee. Haul cost for an hour truck time ranges from \$8.50 to \$11.00 per cubic yard depending on the type of truck used. Excavation costs add up quickly if the on-site material is not re-used on the project. This approach to the Production-based estimate covers a reasonable range of risks and opportunities a contractor might encounter during the construction, without being too conservative. Contractors typically find ways to improve the costs at bid time. As the projects progress, the design team has the opportunity to attempt to maximize the uses of excavation on the project and reduce haul off costs as well as minimize import needs.

Borrow

Historic Bid-based	Production-based
\$5.00 to \$10.00 per ton	\$8.50 to \$13.00 per ton

Borrow costs are dependent on available and close gravel sources, and typical borrow material prices range from \$3.50 per ton to over \$10.00 per ton. This estimate carries \$5 to \$6 per ton, reflective of gravel sources being very close to the SR 167 and the SR 509 corridors. The estimates reflect close haul times but the cost may be impacted by market conditions and competition. The borrow quantities in the project are substantial, so minimizing the borrow

quantities needed will positively affect the projects. Note, the unit cost differences between the Historic Bid-based and Production-based estimates do not seem excessive, but applied to substantial quantities yields big differences in the estimates.

Embankment

Historic Bid-based	Production-based
\$2.00 per cubic yard	\$3.50 to \$4.50 per cubic yard

The embankment costs are based on production rates of placing either excavated or imported materials. The Production-based estimate carries a minimum crew to construct an embankment and could be improved based on higher production rates. The estimated production rates are average and attainable and are based on past knowledge of similar, large interchange projects. The Production-based estimate is about double the Historic Bid-based estimate.

6.2.2 Structures

Historic Bid-based	Production-based
\$175 to 300 per square foot	\$142 to over \$350 per square foot

The structure costs between the Historic Bid-based estimate and Production-based estimates are close, but overall the Production-based unit cost equivalents were higher. One of the main reasons for the higher costs is the foundation work required to support the structures. The Historic Bid-based estimate applies a unit cost to the deck area of the respective structure types such as concrete girder, structural steel, etc., while the Production-based estimate gets into the detail of foundations, shoring, forming and pouring the various components (i.e. footings, columns, caps, diaphragms, deck, parapet, etc.). In general, the smaller structures have higher unit costs than the larger ones and this is due to spreading the foundation costs out over a smaller deck area. The Production-based estimate assumes 100-foot drilled shafts that are 4-feet to 5-feet in diameter, which may be more than necessary but provides a lower cost variance and lest cost increase risk. As the design progresses and foundations types are confirmed, the cost may decrease. There are many other items that can influence the structure costs and most are directly related to the bridge deck area. For example, the structures will need parapet walls and long narrow bridges will have a disproportionate cost per square foot than a larger wider bridge.

6.2.3 Surfacing and Asphalt Paving

	Historic Bid-based	Production-based
Surfacing	\$13 to \$20 per ton	\$20 to \$27 per ton
Asphalt Paving	\$58 to \$70 per ton	\$67 to \$69 per ton

The surfacing or base course costs depend on purchase price of materials, proximity to aggregate source and expectation of production rates. Most projects have a purchase and haul component for base rock of \$10 to \$14 per ton, so any cost lower than this range may not cover placement and markup. The main cost differences between the Historic Bid-based and Production-based estimates are related to the SR 167 project and not SR 509.

The asphalt paving cost is largely dependent on market conditions for oil costs. The Production-based estimate was based on rough quotes from asphalt suppliers, which is the main component of cost in this item. The material quote was \$45 per ton to simply purchase asphalt at the plant and then haul, placement, testing and markup is added. Again, the main differences in the estimates are mostly in the SR 167 project.

6.2.4 Maintenance of Traffic and Construction Staging

There are significant differences between the Historic Bid-Based and Production-based estimates for both phases of SR 167. These differences lie in the maintenance of traffic (MOT) item and construction staging. The Production-based estimate calculates MOT based on durations rather than as percentages as in the Historic Bid-based estimates. Construction Staging is the same and covers dewatering, water quality/containment and other related activities. The MOT level of effort included in the SR 167 estimates is based on green-field construction. This level of effort will need to be further evaluated for staging at I-5 and construction under traffic, where more complicated phasing could increase the level of effort required to guide through the work zones.

6.2.5 Other Items

There are other items where the Historic Bid-based and Production-based estimates differ and the focus above was targeted on the items with large differences.

Another factor to keep in mind is the Production-based estimate relies on quotes and past cost history from suppliers and subcontractors and they typically provide very conservative (or inflated) pricing this early in the project life. So some of the unit costs for materials and subcontractor items may be inflated. This was taken into account when the estimate was compiled and some reductions were made based on past history of pricing in the area.

6.3 Quantities and Unit Costs

The level of detail for both the point of departure design and the updated design elements affected the cost estimates. While there is two decades of study available for the SR 167 and SR 509 corridor, the alternatives evaluated are different from the baseline alternatives that were the point of departure. Where more detail was available, it provided greater opportunity to refine costs for particular applicable construction materials, mean and methods.

As designs progress and additional details become available, it is typical in most Production-based estimates that unit costs improve and quantities increase. The costs of unknowns are minimized and contractor innovation is maximized in a design-build project.

6.4 Cost Estimate Validation Process (CEVP) Factors

The CEVP values are significantly different between the SR 167 and SR 509 CEVP analyses. The SR 509 CEVP analysis was completed in 2004, and has not been updated, The SR 167 has CEVPs from 2008 and 2012. The SR 167 CEVPs are also very different due to changes in the approach between the older and newer analysis. For SR 167, the 2012 CEVP was used as the

basis of the project mark-up (CEVP mark-up) for the risks and opportunities. This mark-up is a combined factor applied to the base construction cost to address local risks and opportunities that could impact the project. The CEVP factor for the SR 167 project was approximately 4.5 percent. The CEVP factor for the SR 509 was 12 percent, as determined from the 2004 CEVP.

6.5 Market Inflation

The market conditions over the last few years are more favorable for contracting agencies due to the lack of regional work. This produces more competitive bidding, driving the overall cost down. It also draws in more bidding teams, increasing the competition in the bidding, again driving costs down. As the project draws nearer to construction, the bidding climate, contractor and contact availability, and seasonal timing will have to be re-evaluated to determine the current market conditions and bidding climate.

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APPENDIX H.1 – HISTORIC BID-BASED ESTIMATES

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Puget Sound Gateway Project
 SR 167/ I-5/ SR 509 Strategic Corridor Design Review
 Funding and Phasing Study

I-5/SR 509 Gateway Phase 1
 Summary of Quantities and Cost Estimate

		Non-Tolling		Toll System	
		Construction	Toll Collection	Civil Roadway	Vendor
Base Item Total		\$249,326,805	\$ 2,150,000	\$ 900,000	
Missing Bid Items (25% of Base Item Total)		\$ 49,865,361	\$ 430,000	\$ 180,000	
Water Pollution Control /TESC (5% of Base Item Total)		\$ 12,466,340	\$ 107,500	\$ 36,000	
Maintenance of Traffic (8% of Base Item Total)		\$ 19,946,144	\$ 172,000	\$ 7,200	
Subtotal1		\$ 331,604,651	\$ 2,859,500	\$ 1,123,200	
MOBILIZATION (% of Subtotal1)		\$ 33,160,465	\$ 285,950	\$ 112,320	
Subtotal2		\$ 364,765,116	\$ 3,145,450	\$ 1,235,520	
Sales Tax (% of Subtotal2)	9.5%	\$ 34,652,686	\$ 298,818	\$ 117,374	
Subtotal3		\$ 399,417,802	\$ 3,444,268	\$ 1,352,894	
Construction Engr and Insp (% of Subtotal2)	8.0%	\$ 29,181,209	\$ 251,636	\$ 98,842	
DB Engineering and Quality (% of Subtotal2)	8.0%	\$ 29,181,209	\$ 251,636	\$ 98,842	
Standard Contingency (% of Subtotal2)	4.0%	\$ 14,590,605	\$ 125,818	\$ 49,421	
Washington State Patrol (% of Subtotal2)	0.1%	\$ 364,765	\$ 3,145	\$ 1,236	
Subtotal4		\$ 472,735,590	\$ 4,076,503	\$ 1,601,234	
Right of Way		\$ 110,200,000	\$ -	\$ -	
Preliminary Eng. & Project Mngt (% of Subtotal2)	5.0%	\$ 18,238,256	\$ 157,273	\$ 61,776	
Toll Vender					
Sub-Item	Qty	Unit Price			
Procurement	1 per project	1	\$ 1,500,000		\$ 1,500,000
Investment Level Traffic and Revenue	1 per project	1	\$ 1,500,000		\$ 1,500,000
Toll Vender PE sub-total					\$ 3,000,000
FMAS Equipment	1 per project	0	\$ 100,000		\$ -
Customer Service Center (CSC)	1 per project	1	\$ 1,250,000		\$ 1,250,000
Marketing/Education Campaign	1 per project	1	\$ 2,250,000		\$ 2,250,000
Toll Rate Setting	1 per project	1	\$ 750,000		\$ 750,000
Toll System Implementation	1 per project	1	\$ 1,500,000		\$ 1,500,000
Toll Vender CN sub-total					\$ 5,750,000
Construction SUBTOTAL		\$ 472,735,590	\$ 4,076,503	\$ 1,601,234	\$ 5,750,000
RISK	12.00%	\$ 56,728,271	\$ 489,180	\$ 192,148	\$ 690,000
EXCALATION	16.67%	\$ 78,792,984	\$ 679,449	\$ 266,885	\$ 958,379
Construction TOTAL		\$ 608,256,845	\$ 5,245,133	\$ 2,060,267	\$ 7,398,379

	Project Total					
Preliminary Engineering:	\$ 21,457,304	\$ 18,238,256	\$ 157,273	\$ 61,776	\$ 3,000,000	
Right of Way:	\$ 110,200,000	\$ 110,200,000	\$ -	\$ -		
Construction:	\$ 622,960,623	\$ 608,256,845	\$ 5,245,133	\$ 2,060,267	\$ 7,398,379	
TOTAL FUNDING NEED:	\$ 754,617,927					

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			ROADWAY													ROADWAY										
STD ITEM NO.	UNIT	ITEM	I-5 Median Rebuild 317th to S 272nd	I-5 Median Rebuild S 272nd to SR 516	I-5 SB Off-Conn. To S 272nd St	I-5 SB Aux. S 272nd Off to SR 516	I-5 Northbound Widening SE quadrant SR 516 I/C	I-5 Southbound On-Conn. From SR 516	I-5 Northbound Off-Conn. To SR 516	I-5 Crossroad SR 516	I-5 Crossroad S 231st Way	I-5 Southbound Off-Conn. To SR 516	I-5 Northbound On-Conn. From SR 516	I-5 SB Aux. SR 516 Off to SR 509 On	I-5 SB HOT N of SR 516	I-5 NB HOT SR 516 to S 225th	I-5 NB RT SR 516 to S 225th	I-5 NB Rebuild S 225th to S 208th St	I-5/SR 509 Southbound freeway to freeway	I-5/SR 509 HOV freeway to freeway	I-5/SR 509 Northbound freeway to freeway	I-5/SR 509 Crossroad S 211th St and 33rd Ave S	SR 509 Northbound			
			(MOVED TO ETL DIRECT ACCESS)	(MOVED TO ETL DIRECT ACCESS)						SR 516	K 50+17.55 TO -58+50	KR	KQ1+KQ2	L	(MOVED TO ETL DIRECT ACCESS)	(MOVED TO ETL DIRECT ACCESS)	L	LR LINE	S & T LINES	H LINE (Up to SR 99) (MOVED TO ETL DIRECT ACCESS)	N Prime LINE	W 13+50 TO 39+74	NB 770+00 TO 931+00 (NB LINE)			
PREPARATION																										
0025	ACRE	CLEARING AND GRUBBING			0.6	12.4	0.7	1.1	3.9	2.6	2.2	3.7	5.4	6.7	-	-	2.3	11.4	3.0		3.2			51.3		
0050	L.S.	REMOVAL OF STRUCTURE AND OBSTRUCTION																								
GRADING																										
0310	C.Y.	ROADWAY EXCAVATION INCL. HAUL			1	10,101	472	4,753	25,601	54,580	46,544	112,430	80,180	12,481	-	-	8,734	209,706	214,585		268,139			580,847		
431	TON	GRAVEL BORROW INCL. HAUL			3,868	16,539	3,434	1,347	49,432	851	-	19	168	15,991	-	-	85	38,676	1,854		2,586			873,093		
0470	C.Y.	EMBANKMENT COMPACTION			2,091	8,940	1,856	728	26,720	460	-	10	91	8,644	-	-	46	20,906	1,002		1,398			471,942		
STORM SEWER & DRAINAGE																										
	L.S.	STORM SEWER & DRAINAGE ESTIMATE																								
	L.S.	200TH CULVERT																								
STRUCTURE																										
	S.F.	PRESTRESSED CONCRETE GIRDER																								
	S.F.	PRESTRESSED CONCRETE GIRDER																								
	S.F.	REINFORCED CONCRETE FLAT SLAB																								
	S.F.	PRESTRESSED SLAB W/ SOLDIER/SECANT PILE WALL ABUTMENTS																								
	S.F.	PRESTRESSED SLAB W/ SOLDIER/SECANT PILE WALL ABUTMENTS																								
	S.F.	PRESTRESSED SLAB W/ SOLDIER/SECANT PILE WALL ABUTMENTS																								
	S.F.	POST-TENSIONED CONCRETE BOX GIRDER																								
	S.F.	REINFORCED CONCRETE BOX BRIDGE																								
	S.F.	STEEL BOX BRIDGE																								
	S.F.	SEW (MSE WALL)																								
	S.F.	SOLDIER PILE WITH TIE BACK RETAINING WALL																								
	S.F.	NOISE WALL																								
SURFACING																										
5100	TON	CRUSHED SURFACING BASE COURSE			628	4,559	340	1,116	1,284	4,910	1,449	2,846	2,509	3,618	-	-	1,207	9,475	1,791		2,248	1,879		19,964		
ASPHALT TREATED BASE																										
5334	EST.	ANTI-STRIPPING ADDITIVE			1,500	4,050	310	2,660	3,050	11,660	3,440	6,760	5,960	3,210	-	-	1,070	8,400	4,250		2,000	2,980		12,650		
CEMENT CONCRETE PAVEMENT																										
5625	C.Y.	CEMENT CONC. PAVEMENT			-	8,182	611	-	-	-	-	-	-	6,493	-	-	2,166	17,002	-		4,034	0		25,591		
5685	EACH	COROSION RESISTANT DOWEL BAR				5,314	66,229							4,032					5,067		7,666			35,129		
HOT MIX ASPHALT																										
5767	TON	HMA CL. 1/2 IN. PG			1,491	4,042	302	2,651	3,047	11,657	3,438	6,757	5,956	3,207	-	-	1,070	8,399	4,250		1,993	2,974		12,641		
5830	CALC	JOB MIX COMPLIANCE PRICE ADJUSTMENT			3,131	8,488	634	5,567	6,399	24,480	7,220	14,190	12,508	6,735	-	-	2,247	17,638	8,925		4,185					
5835	CALC	COMPACTION PRICE ADJUSTMENT			2,087	5,659	423	3,711	4,266	16,320	4,813	9,460	8,338	4,490	-	-	1,498	11,759	5,950		2,790					
EROSION CONTROL AND PLANTING																										
	ACRE	WETLAND BUFFER																								
	ACRE	ROADSIDE RESTORATION																								
TRAFFIC																										
6763	L.F.	SINGLE SLOPE CONCRETE BARRIER										456	1,838					2,885	2,844			2,608		17,781		
6776	L.F.	PRECAST CONC. BARRIER TYPE 4																								
6777	L.F.	CAST IN PLACE CONC. BARRIER TYPE 4																								
6757	L.F.	BEAM GUARDRAIL TYPE 31				1,000						314		607			853							2,784		
6807	L.F.	PLASTIC LINE			1,948	19,249		2,305	3,603	8,931	5,346	9,310	6,693	23,527			15,792	41,040	5,732		10,775	2,624		85,253		
6818	L.F.	PLASTIC WIDE LINE			139	4,302		918	164	71				5,929			4,333	12,217	298		797			3,371		
6859	L.F.	PLASTIC STOP LINE										145	41													
6890	L.S.	PERMANENT SIGNING																								
6904	L.S.	ILLUMINATION SYSTEM																								
6912	L.S.	TRAFFIC SIGNAL SYSTEM																								
7083	L.F.	CHAIN LINK FENCE TYPE 3					3,327	1,897		148	569	2,040	2,012	3,019					2,970		1,945	2,360		14,466		
7084	L.F.	CHAIN LINK FENCE TYPE 4																								
6865	EACH	PLASTIC HOV LANE SYMBOL			-	-	-	-	-	-	-	-	-	22	-	-	-	6	-							
	L.S.	TEMPORARY ITS SYSTEM																								
	L.S.	PERMANENT ITS SYSTEM																								
	EST	RAMP METER																								
TRAFFIC MANAGEMENT																										
TOLL COLLECTION SYSTEMS																										
OTHER ITEMS																										
		Column Subtotals																								

			ROADWAY							NOISE WALL			RETAINING WALL												
STD ITEM NO.	UNIT	ITEM	SR 509 Southbound On-Conn. From 28th/24th Ave S	SR 509 Northbound Off-Conn. To 28th/24th Ave S	SR 509 Crossroad 28th/24th Ave S	SR 509 Southbound On-Conn. From S 188th St	SR 509 Northbound Off-Conn. To S 188th St	SR 509 Crossroad S 188th St	SR 509 Southbound Off-Conn. To S 188th St	SR 509 Northbound On-Conn. From S 188th St	I-5	I-5	SR 509	I-5 SB OFF RAMP TO SR 516 (KR LINE) WALL 1	I-5 NB / SR 509 NB(East side) (N LINE) WALL 2	I-5 NB / SR 509 NB(West side) (N LINE) WALL 3	I-5 / SR 509 HOV LANES (East side) (H LINE) WALL 4	SR 509 SB / I-5 SB (West side) (H LINE) WALL 5	I-5 NB MEDIAN WALL 6	I-5 NB MEDIAN WALL 7	I-5 NB MEDIAN WALL 8	I-5 NB MEDIAN WALL 9	I-5 NB MEDIAN WALL 10		
			BS 63+00 TO 75+50 (BS LINE)	BP 38+55 TO 52+00 (BP LINE)	B 35+50 TO 59+50 (B LINE)	FS 65+25 TO 91+00 (FS LINE)	FP 34+00 TO 42+50 (FP LINE)	F 23+65 TO 36+65 (F LINE)	FR 100+50 TO 116+60 (FR LINE)	FQ 50+50 TO 79+13 (FQ LINE)	SECTION 1 NOISE WALLS	SECTION 2 NOISE WALLS	SECTION 4 NOISE WALLS				(MOVED TO ETL DIRECT ACCESS)	(MOVED TO ETL DIRECT ACCESS)							
PREPARATION																									
0025	ACRE	CLEARING AND GRUBBING	3.4	2.2		4.6	1.4		3.7	6.3															
0050	L.S.	REMOVAL OF STRUCTURE AND OBSTRUCTION																							
GRADING																									
0310	C.Y.	ROADWAY EXCAVATION INCL. HAUL	13,256	25,956		26,261	504		5,896	48,588															
431	TON	GRAVEL BORROW INCL. HAUL	107,513	48,087		138,127	65,486		6,171	14,308															
0470	C.Y.	EMBANKMENT COMPACTION	58,115	25,993		74,663	35,398		3,336	7,734															
STORM SEWER & DRAINAGE																									
	L.S.	STORM SEWER & DRAINAGE ESTIMATE																							
	L.S.	200TH CULVERT																							
STRUCTURE																									
	S.F.	PRESTRESSED CONCRETE GIRDER																							
	S.F.	PRESTRESSED CONCRETE GIRDER																							
	S.F.	REINFORCED CONCRETE FLAT SLAB																							
	S.F.	PRESTRESSED SLAB W/ SOLDIER/SECANT PILE WALL ABUTMENTS																							
	S.F.	PRESTRESSED SLAB W/ SOLDIER/SECANT PILE WALL ABUTMENTS																							
	S.F.	PRESTRESSED SLAB W/ SOLDIER/SECANT PILE WALL ABUTMENTS																							
	S.F.	POST-TENSIONED CONCRETE BOX GIRDER																							
	S.F.	REINFORCED CONCRETE BOX BRIDGE																							
	S.F.	STEEL BOX BRIDGE																							
	S.F.	SEW (MSE WALL)																	1,298	23,924	16,879	12,161	30,000		
	S.F.	SOLDIER PILE WITH TIE BACK RETAINING WALL																							
	S.F.	NOISE WALL									146,762	253,712	43,896												
SURFACING																									
5100	TON	CRUSHED SURFACING BASE COURSE	851	1,076		1,318	734		1,303	1,942															
ASPHALT TREATED BASE																									
5334	EST.	ANTI-STRIPPING ADDITIVE	2,030	2,560		3,130	1,750		3,100	4,620															
CEMENT CONCRETE PAVEMENT																									
5625	C.Y.	CEMENT CONC. PAVEMENT																							
5685	EACH	COROSION RESISTANT DOWEL BAR																							
HOT MIX ASPHALT																									
5767	TON	HMA CL. 1/2 IN. PG	2,021	2,555		3,129	1,743		3,095	4,611															
5830	CALC	JOB MIX COMPLIANCE PRICE ADJUSTMENT																							
5835	CALC	COMPACTION PRICE ADJUSTMENT																							
EROSION CONTROL AND PLANTING																									
	ACRE	WETLAND BUFFER																							
	ACRE	ROADSIDE RESTORATION																							
TRAFFIC																									
6763	L.F.	SINGLE SLOPE CONCRETE BARRIER																							
6776	L.F.	PRECAST CONC. BARRIER TYPE 4																							
6777	L.F.	CAST IN PLACE CONC. BARRIER TYPE 4																							
6757	L.F.	BEAM GUARDRAIL TYPE 31				271																			
6807	L.F.	PLASTIC LINE	2,205	2,792		4,859	2,074		3,140	4,941															
6818	L.F.	PLASTIC WIDE LINE	334	460		379	665		766	843															
6859	L.F.	PLASTIC STOP LINE		40		67				54															
6890	L.S.	PERMANENT SIGNING																							
6904	L.S.	ILLUMINATION SYSTEM																							
6912	L.S.	TRAFFIC SIGNAL SYSTEM																							
7083	L.F.	CHAIN LINK FENCE TYPE 3																							
7084	L.F.	CHAIN LINK FENCE TYPE 4																							
6865	EACH	PLASTIC HOV LANE SYMBOL																							
	L.S.	TEMPORARY ITS SYSTEM																							
	L.S.	PERMANENT ITS SYSTEM																							
	EST	RAMP METER																							
TRAFFIC MANAGEMENT																									
TOLL COLLECTION SYSTEMS																									
OTHER ITEMS																									
		Column Subtotals																							

			BRIDGE												BRIDGE											
STD ITEM NO.	UNIT	ITEM	I-5 NB MEDIAN WALL 11	SR 509 NB LINE	SR 509 B LINE	SR 509 FS LINE	I-5 Southbound Military Rd O'Xing	I-5 Northbound Military Rd O'Xing	I-5 Southbound S 288th St O'Xing	I-5 Northbound S 288th St O'Xing	I-5 Southbound Military Rd (Star Lake) O'Xing	I-5 Northbound Military Rd (Star Lake) O'Xing	I-5 Southbound S 272nd St O'Xing	I-5 Northbound S 272nd St O'Xing	I-5 Southbound S 260th St O'Xing	I-5 Northbound S 260th St O'Xing	I-5 Southbound SR 516 O'Xing	I-5 Northbound SR 516 O'Xing	I-5 SB & NB S 231st Wy O'Xing	I-5 SB & NB S 216th St U'Xing	I-5 Southbound SR 509 HOV O'Xing	I-5 SB & NB SR 509 NB O'Xing	I-5 Southbound SR 509 NB O'Xing			
				NB LINE	B LINE	FS LINE	BR 5/506 W WIDENING (MOVED TO ETL DIRECT ACCESS)	BR 5/506 E WIDENING (MOVED TO ETL DIRECT ACCESS)	BR 5/507 W WIDENING (MOVED TO ETL DIRECT ACCESS)	BR 5/507 E WIDENING (MOVED TO ETL DIRECT ACCESS)	BR 5/508 W WIDENING (MOVED TO ETL DIRECT ACCESS)	BR 5/508 E WIDENING (MOVED TO ETL DIRECT ACCESS)	BR 5/509 W WIDENING (MOVED TO ETL DIRECT ACCESS)	BR 5/509 E WIDENING (MOVED TO ETL DIRECT ACCESS)	BR 5/510 W WIDENING (MOVED TO ETL DIRECT ACCESS)	BR 5/510 E WIDENING (MOVED TO ETL DIRECT ACCESS)	BR 5/511 W WIDENING	BR 5/511 E WIDENING								
PREPARATION																										
0025	ACRE	CLEARING AND GRUBBING																								
0050	L.S.	REMOVAL OF STRUCTURE AND OBSTRUCTION																								
GRADING																										
0310	C.Y.	ROADWAY EXCAVATION INCL. HAUL																								
431	TON	GRAVEL BORROW INCL. HAUL																								
0470	C.Y.	EMBANKMENT COMPACTION																								
STORM SEWER & DRAINAGE																										
	L.S.	STORM SEWER & DRAINAGE ESTIMATE																								
	L.S.	200TH CULVERT																								
STRUCTURE																										
	S.F.	PRESTRESSED CONCRETE GIRDER															6,740	2,560								
	S.F.	PRESTRESSED CONCRETE GIRDER																			23,000					
	S.F.	REINFORCED CONCRETE FLAT SLAB																								
	S.F.	PRESTRESSED SLAB W/ SOLDIER/SECANT PILE WALL ABUTMENTS																		15,630						
	S.F.	PRESTRESSED SLAB W/ SOLDIER/SECANT PILE WALL ABUTMENTS																			43,290					
	S.F.	PRESTRESSED SLAB W/ SOLDIER/SECANT PILE WALL ABUTMENTS																				32,425				
	S.F.	POST-TENSIONED CONCRETE BOX GIRDER																								
	S.F.	REINFORCED CONCRETE BOX BRIDGE																								
	S.F.	STEEL BOX BRIDGE																								
	S.F.	SEW (MSE WALL)	35,150	25,499	12,299	12,648																				
	S.F.	SOLDIER PILE WITH TIE BACK RETAINING WALL		17,857																						
	S.F.	NOISE WALL																								
SURFACING																										
5100	TON	CRUSHED SURFACING BASE COURSE																								
ASPHALT TREATED BASE																										
5334	EST.	ANTI-STRIPPING ADDITIVE																								
CEMENT CONCRETE PAVEMENT																										
5625	C.Y.	CEMENT CONC. PAVEMENT																								
5685	EACH	COROSION RESISTANT DOWEL BAR																								
HOT MIX ASPHALT																										
5767	TON	HMA CL. 1/2 IN. PG																								
5830	CALC	JOB MIX COMPLIANCE PRICE ADJUSTMENT																								
5835	CALC	COMPACTION PRICE ADJUSTMENT																								
EROSION CONTROL AND PLANTING																										
	ACRE	WETLAND BUFFER																								
	ACRE	ROADSIDE RESTORATION																								
TRAFFIC																										
6763	L.F.	SINGLE SLOPE CONCRETE BARRIER																								
6776	L.F.	PRECAST CONC. BARRIER TYPE 4																								
6777	L.F.	CAST IN PLACE CONC. BARRIER TYPE 4																								
6757	L.F.	BEAM GUARDRAIL TYPE 31																								
6807	L.F.	PLASTIC LINE																								
6818	L.F.	PLASTIC WIDE LINE																								
6859	L.F.	PLASTIC STOP LINE																								
6890	L.S.	PERMANENT SIGNING																								
6904	L.S.	ILLUMINATION SYSTEM																								
6912	L.S.	TRAFFIC SIGNAL SYSTEM																								
7083	L.F.	CHAIN LINK FENCE TYPE 3																								
7084	L.F.	CHAIN LINK FENCE TYPE 4																								
6865	EACH	PLASTIC HOV LANE SYMBOL																								
	L.S.	TEMPORARY ITS SYSTEM																								
	L.S.	PERMANENT ITS SYSTEM																								
	EST	RAMP METER																								
TRAFFIC MANAGEMENT																										
TOLL COLLECTION SYSTEMS																										
OTHER ITEMS																										
		Column Subtotals																								

			BRIDGE									DRAINAGE									
STD ITEM NO.	UNIT	ITEM	SR 509 - S 211th St U'Xing	SR 509 - SR 99 U'Xing	SR 509 - 28th/24th U'Xing	SR 509 Northbound FL/Wet. A O'Xing	SR 509 Northbound S 200th St O'Xing	SR 509 Northbound DMM Dr S O'Xing	SR 509 - S 192nd St U'Xing	SR 509 Southbound Wetland B O'Xing	SR 509 Northbound Wetland B O'Xing	SR 509 Northbound S 188th Wy O'Xing	SECTION 1 (Seg. A) I-5 SOUTH QUANT.	I-5 SB 320th to 272nd	SECTION 2 (Seg. C) I-5 NORTH QUANT.	SECTION 3 (Seg. D) SR 509S QUANT.	SECTION 4 (Seg. B) SR 509N QUANT.	Total Quantity	Unit Cost	Bid Item Cost	
PREPARATION																					
0025	ACRE	CLEARING AND GRUBBING																132.1	5000	660,500	
0050	L.S.	REMOVAL OF STRUCTURE AND OBSTRUCTION																1	3000000	3,000,000	
GRADING																					
0310	C.Y.	ROADWAY EXCAVATION INCL. HAUL																1,749,615	10	17,496,150	
431	TON	GRAVEL BORROW INCL. HAUL																1,387,635	10	13,876,354	
0470	C.Y.	EMBANKMENT COMPACTION																750,073	2	1,500,146	
STORM SEWER & DRAINAGE																					
	L.S.	STORM SEWER & DRAINAGE ESTIMATE											4,030,055.00		5,323,606	7,439,368	5,474,551	22,267,580	1	22,267,580	
	L.S.	200TH CULVERT																1,123,158	1	1,123,158	
STRUCTURE																					
	S.F.	PRESTRESSED CONCRETE GIRDER	5,890	24,000	23,633				13,484	15,704	18,619	76,769	6,598					193,997	175	33,949,475	
	S.F.	PRESTRESSED CONCRETE GIRDER																23,000	175	4,025,000	
	S.F.	REINFORCED CONCRETE FLAT SLAB																0	200	0	
	S.F.	PRESTRESSED SLAB W/ SOLDIER/SECANT PILE WALL ABUTMENTS																15,630	350	5,470,500	
	S.F.	PRESTRESSED SLAB W/ SOLDIER/SECANT PILE WALL ABUTMENTS																43,290	350	15,151,500	
	S.F.	PRESTRESSED SLAB W/ SOLDIER/SECANT PILE WALL ABUTMENTS																32,425	350	11,348,750	
	S.F.	PRESTRESSED SLAB W/ SOLDIER/SECANT PILE WALL ABUTMENTS																0	350	0	
	S.F.	POST-TENSIONED CONCRETE BOX GIRDER							26,662									26,662	250	6,665,500	
	S.F.	REINFORCED CONCRETE BOX BRIDGE																0	250	0	
	S.F.	STEEL BOX BRIDGE							57,344									57,344	250	14,336,000	
	S.F.	SEW (MSE WALL)																169,858	55	9,342,190	
	S.F.	SOLDIER PILE WITH TIE BACK RETAINING WALL																87,677	184	16,132,568	
	S.F.	NOISE WALL																444,370	45	19,996,650	
SURFACING																					
5100	TON	CRUSHED SURFACING BASE COURSE																67,047	20	1,340,940	
ASPHALT TREATED BASE																					
5334	EST.	ANTI-STRIPPING ADDITIVE																91,140	1	91,140	
CEMENT CONCRETE PAVEMENT																					
5625	C.Y.	CEMENT CONC. PAVEMENT																64,079	200	12,815,800	
5685	EACH	COROSION RESISTANT DOWEL BAR																123,437	16	1,974,992	
HOT MIX ASPHALT																					
5767	TON	HMA CL. 1/2 IN. PG																91,029	70	6,372,030	
5830	CALC	JOB MIX COMPLIANCE PRICE ADJUSTMENT																122,346	0.03	3,670	
5835	CALC	COMPACTION PRICE ADJUSTMENT																81,564	0.02	1,631	
EROSION CONTROL AND PLANTING																					
	ACRE	WETLAND BUFFER																6	113000	678,000	
	ACRE	ROADSIDE RESTORATION																133	80000	10,640,000	
TRAFFIC																					
6763	L.F.	SINGLE SLOPE CONCRETE BARRIER																28,412	80	2,272,960	
6776	L.F.	PRECAST CONC. BARRIER TYPE 4																0	50.40	0	
6777	L.F.	CAST IN PLACE CONC. BARRIER TYPE 4																0	105	0	
6757	L.F.	BEAM GUARDRAIL TYPE 31																5,829	20	116,580	
6807	L.F.	PLASTIC LINE																262,139	1.50	393,209	
6818	L.F.	PLASTIC WIDE LINE																36,223	3	108,669	
6859	L.F.	PLASTIC STOP LINE																347	7	2,429	
6890	L.S.	PERMANENT SIGNING																2,165,000	1.16	2,511,400	
6904	L.S.	ILLUMINATION SYSTEM																7,318,200	1.16	8,489,112	
6912	L.S.	TRAFFIC SIGNAL SYSTEM																2,508,000	1.16	2,909,280	
7083	L.F.	CHAIN LINK FENCE TYPE 3																34,753	10	347,530	
7084	L.F.	CHAIN LINK FENCE TYPE 4																0	16	0	
6865	EACH	PLASTIC HOV LANE SYMBOL																28	120	3,360	
	L.S.	TEMPORARY ITS SYSTEM																801,276	1.16	929,480	
	L.S.	PERMANENT ITS SYSTEM																760,838	1.16	882,572	
	EST	RAMP METER																100,000	1	100,000	
TRAFFIC MANAGEMENT																					
TOLL COLLECTION SYSTEMS																					
OTHER ITEMS																					
Column Subtotals																					
BASE ITEM TOTAL																				\$249,326,805	

Puget Sound Gateway Project
 SR 167/ I-5/ SR 509 Strategic Corridor Design Review
 Funding and Phasing Study

I-5 Express Toll Lanes Gateway Phase 1
 Summary of Quantities and Cost Estimate

		Non-Tolling		Toll System	
		Construction	Toll Collection	Civil Roadway	Vendor
Base Item Total		\$26,167,306			
Missing Bid Items (20% of Base Item Total)	20%	\$ 5,233,461	\$ -	\$ -	
Water Pollution Control /TESC (5% of Base Item Total)	5%	\$ 1,308,365	\$ -	\$ -	
Maintenance of Traffic (8% of Base Item Total)	8%	\$ 2,093,384	\$ -	\$ -	
Subtotal1		\$ 34,802,516	\$ -	\$ -	
MOBILIZATION (% of Subtotal1)	10%	\$ 3,480,252	\$ -	\$ -	
Subtotal2		\$ 38,282,768	\$ -	\$ -	
Sales Tax (% of Subtotal2)	9.5%	\$ 3,636,863	\$ -	\$ -	
Subtotal3		\$ 41,919,631	\$ -	\$ -	
Construction Engr and Insp (% of Subtotal2)	8.0%	\$ 3,062,621	\$ -	\$ -	
DB Engineering and Quality (% of Subtotal2)	8.0%	\$ 3,062,621	\$ -	\$ -	
Standard Contingency (% of Subtotal2)	4.0%	\$ 1,531,311	\$ -	\$ -	
Washington State Patrol (% of Subtotal2)	0.1%	\$ 38,283	\$ -	\$ -	
Subtotal4		\$ 49,614,468	\$ -	\$ -	
Right of Way		\$ -	\$ -	\$ -	
Preliminary Eng. & Project Mngt (% of Subtotal2)	10.0%	\$ 3,828,277	\$ -	\$ -	
Toll Vender					
Sub-Item	Qty	Unit Price			
Procurement	1 per project	1	\$ 1,500,000		\$ 1,500,000
Investment Level Traffic and Revenue	1 per project	1	\$ 1,500,000		\$ 1,500,000
Toll Vender PE sub-total					\$ 3,000,000
Toll Collection Equipment	51	\$ 970,000			\$ 49,470,000
FMAS Equipment	1 per project	1	\$ 100,000		\$ 100,000
Customer Service Center (CSC)	1 per project	1	\$ 1,250,000		\$ 1,250,000
Marketing/Education Campaign	1 per project	1	\$ 2,250,000		\$ 2,250,000
Toll Rate Setting	1 per project	1	\$ 750,000		\$ 750,000
Toll System Implementation	1 per project	1	\$ 1,500,000		\$ 1,500,000
Toll Vender CN sub-total					\$ 55,320,000
Construction SUBTOTAL		\$ 49,614,468	\$ -	\$ -	\$ 55,320,000
RISK	12.00%	\$ 5,953,736	\$ -	\$ -	\$ 6,638,400
EXCALATION	13.93%	\$ 6,912,813	\$ -	\$ -	\$ 7,707,769
Construction TOTAL		\$ 62,481,017	\$ -	\$ -	\$ 69,666,169

Project Total					
Preliminary Engineering:	\$ 6,828,277	\$ 3,828,277	\$ -	\$ -	\$ 3,000,000
Right of Way:	\$ -	\$ -	\$ -	\$ -	
Construction:	\$ 132,147,186	\$ 62,481,017	\$ -	\$ -	\$ 69,666,169
TOTAL FUNDING NEED:	\$ 138,975,463				

I-5 Express Toll Lanes Gateway Phase 1
 Summary of Quantities and Cost Estimate

STD ITEM NO.	UNIT	ITEM	Convert HOV Lane to ETL, SR 16 to SR 167	Convert HOV Lane to ETL, SR 167 to SR 509	Convert HOV Lane to ETL, SR 509 to Tukwila	Convert HOV Lane to ETL, Tukwila to Reversible	Total Quantity	Unit Cost	Bid Item	Cost	
			MP 132.0 to MP 138.5	MP 138.5 to MP 150.0	MP 150.0 to MP 154.4	MP 154.4 to MP 164.2					
PREPARATION											
0025	ACRE	CLEARING AND GRUBBING					0	5,000	\$	-	
0050	Est.	REMOVAL OF STRUCTURE AND OBSTRUCTION		\$ 46,690	\$ 17,864	\$ 39,788	\$ 104,342	\$ 1	\$	104,342	
GRADING											
0310	C.Y.	ROADWAY EXCAVATION INCL. HAUL						10	\$	-	
431	TON	GRAVEL BORROW INCL. HAUL						10	\$	-	
0470	C.Y.	EMBANKMENT COMPACTION						2	\$	-	
STORM SEWER & DRAINAGE											
	Est.	STORM SEWER & DRAINAGE MODFACATIONS					1	\$ 4,636,364	\$	4,636,364	
	L.S.						0	1	\$	-	
	L.S.	200TH CULVERT					0	1	\$	-	
STRUCTURE											
	S.F.	CONCRETE GIRDER BRIDGE					0	165	\$	-	
	S.F.	CONCRETE SLAB BRIDGE					0	200	\$	-	
	S.F.	SPECIAL CONCRETE SLAB BRIDGE					0	350	\$	-	
	S.F.	CONCRETE BOX BRIDGE					0	300	\$	-	
	S.F.	STEEL BOX BRIDGE					0	350	\$	-	
	S.F.	SEW (MSE WALL)					0	55	\$	-	
	S.F.	SOLDIER PILE WITH TIE BACK RETAINING WALL					0	184	\$	-	
	S.F.	NOISE WALL					0	45	\$	-	
SURFACING											
5100	TON	CRUSHED SURFACING BASE COURSE					0	20	\$	-	
ASPHALT TREATED BASE											
5334	EST.	ANTI-STRIPPING ADDITIVE					0	1	\$	-	
CEMENT CONCRETE PAVEMENT											
5625	C.Y.	CEMENT CONC. PAVEMENT					0	200	\$	-	
5685	EACH	COROSION RESISTANT DOWEL BAR					0	16	\$	-	
HOT MIX ASPHALT											
5767	TON	HMA CL. 1/2 IN. PG					0	70	\$	-	
5830	CALC	JOB MIX COMPLIANCE PRICE ADJUSTMENT					0	0.03	\$	-	
5835	CALC	COMPACTION PRICE ADJUSTMENT					0	0.02	\$	-	
5835	CALC	PAVMENT RECONSTRUCTION	12	18	8	13	51	\$ 5,000	\$	255,000	
EROSION CONTROL AND PLANTING											
	ACRE	WETLAND BUFFER					0	113,000	\$	-	
	ACRE	ROADSIDE RESTORATION					0	80,000	\$	-	
TRAFFIC											
6763	L.F.	SINGLE SLOPE CONCRETE BARRIER					0	35	\$	-	
6776	L.F.	PRECAST CONC. BARRIER TYPE 4					0	30	\$	-	
6777	L.F.	CAST IN PLACE CONC. BARRIER TYPE 4					0	105	\$	-	
6757	L.F.	BEAM GUARDRAIL TYPE 31					0	20	\$	-	
6807	L.F.	PLASTIC LINE	34320	60720	23232	51744	170,016	\$ 2	\$	255,024	
6818	L.F.	PLASTIC WIDE LINE	68640	121440	46464	103488	340,032	\$ 3	\$	1,020,096	
6859	L.F.	PLASTIC STOP LINE					0	\$ 7	\$	-	
6890	L.S.	PERMANENT SIGNING					0	\$ 1	\$	-	
6904	L.S.	ILLUMINATION SYSTEM					0	\$ 1	\$	-	
6912	L.S.	TRAFFIC SIGNAL SYSTEM					0	\$ 1	\$	-	
7083	L.F.	CHAIN LINK FENCE TYPE 3					0	\$ 10	\$	-	
7084	L.F.	CHAIN LINK FENCE TYPE 4					0	\$ 16	\$	-	
6865	EACH	PLASTIC HOV LANE SYMBOL	65	115	45	79	304	\$ 120	\$	36,480	
	L.S.	TEMPORARY ITS SYSTEM					0	1.16	\$	-	
	L.S.	PERMANENT ITS SYSTEM					0	1.16	\$	-	
	EST	RAMP METER					0	1	\$	-	
TRAFFIC MANAGEMENT											
	EST	ATM/ITS SYSTEM & GANTRIES					0	\$ 700,000	\$	-	
TOLL COLLECTION SYSTEMS											
	Zone	Civil Roadside Toll Equipment	12	18	8	13	51	\$ 350,000	\$	17,850,000	
	Each	Toll System Advanced Warning Signs					2	\$ 750,000	\$	1,500,000	
	Each	Decision Point Advanced Warning Signs					2	\$ 150,000	\$	300,000	
OTHER ITEMS											
7037	L.S.	STRUCTURE SURVEYING					1	\$ 50,000	\$	50,000	
7038	L.S.	ROADWAY SURVEYING					1	\$ 50,000	\$	50,000	
7040	EST.	LICENSED SURVEYING					0	\$ 1	\$	-	
7728	CALC	MINOR CHANGE					1	\$ 10,000	\$	10,000	
7500	L.S.	FIELD OFFICE BUILDING					1	\$ 100,000	\$	100,000	
	Est.	Column Subtotals							\$		
										BASE ITEM TOTAL	\$ 26,167,306

Puget Sound Gateway Project
 SR 167/ I-5/ SR 509 Strategic Corridor Design Review
 Funding and Phasing Study

I-5 Express Toll Lanes Gateway Phase 1
 Summary of Quantities and Cost Estimate

Toll Vendor Estimate			Convert HOV Lane to ETL, SR 16 to SR 167	Convert HOV Lane to ETL, SR 167 to SR 509	Convert HOV Lane to ETL, SR 509 to Tukwila	Convert HOV Lane to ETL, Tukwila to Reversible				
STD ITEM NO.	UNIT	ITEM	MP 132.0 to MP 138.5	MP 138.5 to MP 150.0	MP 150.0 to MP 154.4	MP 154.4 to MP 164.2		Total Quantity	Unit Cost	Bid Item Cost
	Each	Procurement					PE	1	\$ 1,500,000	\$ 1,500,000
	Each	Investment Level Traffic and Revenue					PE	1	\$ 1,500,000	\$ 1,500,000
	Zone	Toll Collection Equipment	12	18	8	13	CN	51	\$ 970,000	\$ 49,470,000
	Each	FMAS Equipment					CN	1	\$ 100,000	\$ 100,000
	Each	Customer Service Center (CSC)					CN	1	\$ 1,250,000	\$ 1,250,000
	Each	Marketing/Education Campaign					CN	1	\$ 2,250,000	\$ 2,250,000
	Each	Toll Rate Setting					CN	1	\$ 750,000	\$ 750,000
	Each	Toll System Implementation					CN	1	\$ 1,500,000	\$ 1,500,000
BASE ITEM TOTAL										\$ 55,320,000

Puget Sound Gateway Project
 SR 167/ I-5/ SR 509 Strategic Corridor Design Review
 Funding and Phasing Study

SR 167 Gateway Phase 1
 Summary of Quantities and Cost Estimate

		Non-Tolling		Toll System	
		Construction	Toll Collection	Civil Roadway	Vendor
SR 167		\$ 325,604,839			
Early Mitigation Stage 1		\$ 34,310,984			
Early Mitigation Stage 2		\$ 5,313,767			
Base Item Total		\$ 365,229,591	\$ 2,990,000	\$ 1,350,000	
Missing Bid Items (12% of Base Item Total)		\$ 43,827,551	\$ 598,000	\$ 270,000	
Water Pollution Control /TESC (5% of Base Item Total)			\$ 149,500	\$ 54,000	
Maintenance of Traffic (8% of Base Item Total)			\$ 239,200	\$ 10,800	
Subtotal1		\$ 409,057,142	\$ 3,976,700	\$ 1,684,800	
MOBILIZATION (% of Subtotal1)	9%		\$ 357,903	\$ 151,632	
Subtotal2		\$ 409,057,142	\$ 4,334,603	\$ 1,836,432	
Sales Tax (% of Subtotal2)	9.5%	\$ 38,860,428	\$ 411,787	\$ 174,461	
Subtotal3		\$ 447,917,570	\$ 4,746,390	\$ 2,010,893	
Construction Engr and Insp (% of Subtotal2)	8.0%	\$ 32,724,571	\$ 346,768	\$ 146,915	
DB Engineering and Quality (% of Subtotal2)	8.0%	\$ 32,724,571	\$ 346,768	\$ 146,915	
Standard Contingency (% of Subtotal2)	4.0%	\$ 16,362,286	\$ 173,384	\$ 73,457	
Washington State Patrol (% of Subtotal2)	0.1%	\$ 409,057	\$ 4,335	\$ 1,836	
Subtotal4		\$ 530,138,056	\$ 5,617,645	\$ 2,380,016	
Right of Way		\$ 155,000,000	\$ -	\$ -	
Preliminary Eng. & Project Mngt (% of Subtotal2)	5.0%	\$ 20,452,857	\$ 216,730	\$ 91,822	
Toll Vender					
Sub-Item	Qty	Unit Price			
Procurement	1 per project	1	\$ 1,500,000		\$ 1,500,000
Investment Level Traffic and Revenue	1 per project	1	\$ 1,500,000		\$ 1,500,000
Toll Vender PE sub-total					\$ 3,000,000
FMAS Equipment	1 per project	0	\$ 100,000		\$ -
Customer Service Center (CSC)	1 per project	1	\$ 1,250,000		\$ 1,250,000
Marketing/Education Campaign	1 per project	1	\$ 2,250,000		\$ 2,250,000
Toll Rate Setting	1 per project	1	\$ 750,000		\$ 750,000
Toll System Implementation	1 per project	1	\$ 1,500,000		\$ 1,500,000
Toll Vender CN sub-total					\$ 5,750,000
Construction SUBTOTAL		\$ 530,138,056	\$ 5,617,645	\$ 2,380,016	\$ 5,750,000
RISK	4.50%	\$ 23,856,213	\$ 252,794	\$ 107,101	\$ 258,750
EXCALATION	13.93%	\$ 73,864,453	\$ 782,710	\$ 331,609	\$ 801,151
Construction TOTAL		\$ 627,858,721	\$ 6,653,149	\$ 2,818,726	\$ 6,809,901

		Project Total			
Preliminary Engineering:	\$ 23,761,409	\$ 20,452,857	\$ 216,730	\$ 91,822	\$ 3,000,000
Right of Way:	\$ 155,000,000	\$ 155,000,000	\$ -	\$ -	
Construction:	\$ 644,140,497	\$ 627,858,721	\$ 6,653,149	\$ 2,818,726	\$ 6,809,901
TOTAL FUNDING NEED:	\$ 822,901,906				

SR 167 Gateway Phase 1
 Summary of Quantities and Cost Estimate

Tab #	BID ITEM	UNITS	Area 1		Area 2		Area 3		Area 4		Area 5		Total	
			Quantity	Total Cost	Quantity	Total Cost	Quantity	Total Cost	Quantity	Total Cost	Quantity	Total Cost	Quantity	Total Cost
1	Mobilization	EST	28,827,000.0	2,594,430	19,534,000.0	1,758,060	140,887,000.0	12,679,830	52,286,000.0	4,705,740	57,186,000.0	5,146,740	298,720,000.0	26,884,800
2	Beam Guardrail Type	LF	5,005.0	100,100	-	-	15,271.1	305,422	5,570.0	111,400	11,589.0	231,780.0	37,435.1	748,702
3	Beam Guardrail Terminal	EACH	15.0	24,000	-	-	20.7	33,069	4.0	6,400	20.5	32,800.0	60.2	96,269
4	Bio-Infiltration Swale	LF	-	-	-	-	-	-	-	-	1,572.5	104,414.0	1,572.5	104,414
5	Borrow Including Haul	TON	384,000.0	2,688,000	631,380.0	4,419,660	1,167,890.0	8,175,230	1,033,180.0	7,232,260	2,057,440.0	14,402,080.0	5,273,890.0	36,917,230
6	Bridge Structure	SF	29,450.0	6,020,000	14,830.0	2,600,000	540,790.0	96,590,000	168,640.0	31,670,000	74,368.0	18,700,000.0	828,078.0	155,580,000
7	CAVFS	SF	85,659.0	239,845	43,202.0	120,966	143,348.9	401,377	107,912.5	302,155	100,825.0	282,310.0	480,947.4	1,346,653
8	Channel Excavation	CY	-	-	-	-	-	-	-	-	-	-	-	-
9	Channel Improvements	LF	-	-	-	-	-	-	-	-	-	-	-	-
10	Clearing & Grubbing	AC	23.8	95,200	17.7	70,800	69.9	279,600	30.0	120,000	64.0	256,000.0	205.4	821,600
11	Combined Detention and Treatment Pond	SF	-	-	-	-	-	-	146,900.0	822,640	367,205.0	2,056,348.0	514,105.0	2,878,988
12	(Precast) Concrete Barrier Type	LF	1,276.0	64,310	3,545.0	178,668	10,664.7	537,498	1,390.0	70,056	11,130.0	560,952.0	28,005.7	1,411,485
13	Constructed Stormwater Wetlands	SF	62,378.0	299,414	115,903.0	556,334	239,602.6	1,150,092	30,157.5	144,756	48,765.0	234,072.0	496,806.1	2,384,669
14	(Stabilized) Construction Entrance	EACH	3.0	8,400	4.0	11,200	6.3	17,752	2.0	5,600	5.0	14,000.0	20.3	56,952
15	Crushed Surfacing Base Course	TON	10,970.0	142,610	13,750.0	178,750	31,630.0	411,190	21,700.0	282,100	39,480.0	513,240.0	117,530.0	1,527,890
16	Culverts Pipe	LF	280.0	23,520	535.0	44,940	1,416.8	119,013	335.0	28,140	962.5	80,850.0	3,529.3	296,463
17	Detention Pond	SF	-	-	46,197.0	184,788	-	-	-	-	-	-	46,197.0	184,788
18	Drainage Ditch Excavation	LF	10,820.0	251,024	5,833.0	135,326	17,726.5	411,254	15,470.0	358,904	15,920.0	369,344.0	65,769.5	1,525,852
19	Ecology Embankment	LF	-	-	-	-	6,860.0	246,960	-	-	2,942.5	105,930.0	9,802.5	352,890
20	Embankment Compaction	CY	152,400.0	304,800	294,240.0	588,480	551,820.0	1,103,640	475,580.0	951,160	959,350.0	1,918,700.0	2,433,390.0	4,866,780
21	Erosion Control Seeding, Fertilizing and Mulching	AC	495.0	1,970,892	480.0	1,911,168	686.0	2,731,312	173.8	692,002	180.5	718,678.8	2,015.3	8,024,053
22	Hot Mix Asphalt	TON	21,880.0	1,531,600	27,420.0	1,919,400	63,080.0	4,415,600	43,270.0	3,028,900	78,750.0	5,512,500.0	234,400.0	16,408,000
23	Illumination System	LS	1.0	104,000	1.0	144,000	1.0	1,672,000	1.0	224,000	0.5	388,000.0	4.5	2,532,000
24	(Permanent) Impact Attenuators	EACH	2.0	40,000	2.0	40,000	5.0	100,000	2.0	40,000	5.0	100,000.0	16.0	320,000
25	Interurban Trail Connection	LS	-	-	-	-	1.0	736,955	-	-	-	-	1.0	736,955
26	(Traffic Data Accumulation) ITS	LS	1.0	272,000	1.0	136,000	1.0	1,776,000	1.0	424,000	0.5	268,000	4.5	2,876,000
27	Landscaping		-	-	-	-	-	-	-	-	-	-	-	-
	Corridor Native Mix - 5' O.C.	AC	26.0	1,236,456	-	-	0.7	34,944	3.0	142,668	4.4	206,869	34.1	1,620,937
	Enhanced Mix - 5' O.C.	AC	1.2	77,097	2.4	154,193	0.9	57,294	1.2	77,097	1.3	80,309	6.9	445,990
	Seed Mix with 20% Trees	AC	-	-	12.3	348,090	20.7	585,091	29.0	820,700	24.3	687,690	86.3	2,441,571
28	Level Spreader	EACH	-	-	5.0	7,084	1.0	1,417	-	-	-	-	6.0	8,501

SR 167 Gateway Phase 1
 Summary of Quantities and Cost Estimate

Tab #	BID ITEM	UNITS	Area 1		Area 2		Area 3		Area 4		Area 5		Total	
			Quantity	Total Cost	Quantity	Total Cost	Quantity	Total Cost	Quantity	Total Cost	Quantity	Total Cost	Quantity	Total Cost
29	Noise Wall Wall Type	SF	-	-	-	-	-	-	-	-	14,400.0	426,240	14,400.0	426,240
30	Overbank Excavation	CY	-	-	-	-	-	-	-	-	-	-	-	-
31	Pavement Markings	LF	38,440.0	33,827	27,190.0	23,927	204,630.0	180,074	60,480.0	53,222	110,310.0	97,073	441,050.0	388,124
32	Removable Bollards	EACH	1.0	600	2.0	1,200	2.0	1,200	-	-	-	-	5.0	3,000
33	Remove Existing Bridge	SF	-	-	1,476.0	75,571	-	-	-	-	-	-	1,476.0	75,571
34	Removing Asphalt Concrete Pavement	SY	31,567.0	75,761	15,610.0	37,464	24,700.0	59,280	-	-	33,620.0	80,688	105,497.0	253,193
35	Retaining Wall Aesthetic Treatment	SF	3,200.0	10,240	27,000.0	86,400	350.2	1,120	-	-	420.5	1,346	30,970.7	99,106
36	Retaining Walls	SF	3,200.0	129,600	27,000.0	1,093,500	9,420.0	381,510	-	-	88,212.0	3,572,586	127,832.0	5,177,196
37	Roadway Excavation	CY	57,980.0	481,234	11,960.0	99,268	115,570.0	959,231	18,410.0	152,803	41,900.0	347,770	245,820.0	2,040,306
38	(Chain Link) ROW Fence type	LF	6,086.0	46,254	7,945.0	60,382	11,327.6	86,090	10,490.0	79,724	13,787.5	104,785	49,636.1	377,234
39	RRP - Lower Hylebos	LS	-	-	-	-	-	-	-	-	-	-	-	-
40	RRP - Upper Hylebos	LS	-	-	-	-	-	-	-	-	-	-	-	-
41	RRP - SLT	LS	-	-	-	-	-	-	-	-	-	-	-	-
42	RRP - Wapato	LS	-	-	-	-	-	-	-	-	-	-	-	-
43	(Permanent) Signing	LS	1.0	260,800	1.0	256,000	1.0	1,483,200	1.0	331,200	0.5	544,000	4.5	2,875,200
44	Storm Sewer System	LF	2,632.0	227,405	3,700.0	319,680	13,056.4	1,128,070	4,641.7	401,040	6,570.0	567,648	30,600.0	2,643,842
45	Structure and Obstruction Removal	SF	57,270.0	229,080	99,875.0	399,500	171,858.6	687,434	-	-	41,515.0	166,060	370,518.6	1,482,074
46	Temporary Bridge Structure	SF	-	-	-	-	-	-	-	-	-	-	-	-
47	Temporary Work Bridge	SF	-	-	-	-	-	-	-	-	-	-	-	-
48	Traffic Signal System	LS	-	-	1.0	96,000	1.0	480,000	1.0	216,000	0.5	152,000	3.5	944,000
49	Utilities Relocation	LS	1.0	6,936,072	1.0	1,987,040	1.0	6,862,556	1.0	1,046,048	0.5	643,960	4.5	17,475,676
50	Water Quality Vault	EACH	-	-	-	-	-	-	-	-	-	-	-	-
51	Wheel Wash & On Site Haul Route	EACH	3.0	28,800	4.0	38,400	5.0	48,000	2.0	19,200	5.0	48,000	19.0	182,400
52	Widen Existing Bridge	SF	-	-	-	-	-	-	-	-	-	-	-	-
53	Work Zone Traffic Control	LS	1.0	1,024,000	1.0	624,000	1.0	3,072,000	1.0	1,024,000	0.5	768,000	4.5	6,512,000
54	Soil Improvement	SF	270,444.0	3,678,038	43,075.0	585,820	255,423.3	3,473,757	97,867.0	1,330,991	133,531.0	1,816,022	800,340.3	10,884,628
55	Surcharge Material Re-handle	CY	35,919.0	172,411	-	-	18,832.0	90,394	16,043.0	77,006	5,168.0	24,806	75,962.0	364,618
			Area 1 Total:	31,421,821	Area 2 Total:	21,292,059	Area 3 Total:	153,566,457	Area 4 Total:	56,991,913	Area 5 Total:	62,332,590	Total:	325,604,839

Puget Sound Gateway Project
 SR 167/ I-5/ SR 509 Strategic Corridor Design Review
 Funding and Phasing Study

SR 167 Gateway Phase 1 - Early Mitigation Stage 1
 Summary of Quantities and Cost Estimate

Tab #	BID ITEM	UNITS	Area 1		Area 2		Area 3		Area 4		Area 5		Total	
			Quantity	Total Cost	Quantity	5.01	Quantity	5.02	Quantity	5.03	Quantity	5.04	Quantity	5.05
1	Mobilization	EST	1.0	34,405	1.0	4,748	1.0	2,777,288					1.0	2,816,440
2	Beam Guardrail Type	LF	-	-	-	-	320.0	6,400					320.0	6,400
3	Beam Guardrail Terminal	EACH	-	-	-	-	4.0	6,400					4.0	6,400
4	Bio-Infiltration Swale	LF	-	-	-	-	-	-					-	-
5	Borrow Including Haul	TONS	-	-	-	-	-	-					-	-
6	Bridge Structure	SF	-	-	-	-	57,660.0	10,090,500					57,660.0	10,090,500
7	CAVFS	SF	-	-	-	-	14,014.0	39,239					14,014.0	39,239
8	Channel Excavation	CY	-	-	-	-	25,135.0	613,294					25,135.0	613,294
9	Channel Improvements	LF	-	-	-	-	12,315.0	2,295,516					12,315.0	2,295,516
10	Clearing & Grubbing	AC	-	-	2.7	10,800	3.2	12,800					5.9	23,600
11	Combined Detention and Treatment Pond	SF	-	-	-	-	-	-					-	0
12	(Precast) Concrete Barrier type	LF	-	-	-	-	50.0	2,520					50.0	2,520
13	Constructed Stormwater Wetlands	SF	-	-	-	-	-	-					-	-
14	(Stabilized) Construction Entrance	EACH	-	-	-	-	2.0	5,600					2.0	5,600
15	Crushed Surfacing Base Course	TONS	-	-	-	-	-	-					-	-
16	Culverts Pipe	LF	-	-	-	-	-	-					-	-
17	Detention Pond	SF	-	-	-	-	-	-					-	-
18	Drainage Ditch Excavation	LF	-	-	-	-	-	-					-	-
19	Ecology Embankment	LF	-	-	-	-	-	-					-	-
20	Embankment Compaction	CY	-	-	-	-	-	-					-	-
21	Erosion Control Seeding, Fertilizing and Mulching	AC	-	-	2.7	10,750	2.0	7,963					4.7	18,714
22	Hot Mix Asphalt	TONS	-	-	-	-	-	-					-	-
23	Illumination System	LS	-	-	-	-	-	-					-	-
24	(Permanent) Impact Attenuators	EACH	-	-	-	-	-	-					-	-
25	Interurban Trail Connection	LS	-	-	-	-	-	-					-	-
26	(Traffic Data Accumulation) ITS	LS	-	-	-	-	-	-					-	-
27	Landscaping													
	Corridor Native Mix - 5' O.C.	AC	-	-	-	-	-	-					-	-
	Enhanced Mix - 5' O.C.	AC	-	-	-	-	-	-					-	-
	Seed Mix with 20% Trees	AC	-	-	-	-	-	-					-	-
28	Level Spreader	EACH	-	-	-	-	-	-					-	-
29	Noise Wall Wall type	SF	-	-	-	-	-	-					-	-
30	Overbank Excavation	CY	-	-	-	-	341,235.0	5,186,772					341,235.0	5,186,772
31	Pavement Markings	LF	-	-	-	-	2,160.0	1,901					2,160.0	1,901
32	Removable Bollards	EACH	-	-	-	-	-	-					-	-
33	Remove Existing Bridge	SF	-	-	-	-	-	-					-	-
34	Removing Asphalt Concrete Pavement	SY	-	-	-	-	-	-					-	-
35	Retaining Wall Aesthetic Treatment	SF	-	-	-	-	-	-					-	-
36	Retaining Walls	SF	-	-	-	-	-	-					-	-
37	Roadway Excavation	CY	-	-	-	-	-	-					-	-
38	(Chain Link) ROW Fence type	LF	-	-	-	-	-	-					-	-
39	RRP - Lower Hylebos	LS	-	-	-	-	1.0	1,402,880					1.0	1,402,880
40	RRP - Upper Hylebos	LS	-	-	-	-	1.0	7,076,000					1.0	7,076,000
41	RRP - SLT	LS	-	-	-	-	1.0	3,552,640					1.0	3,552,640
42	RRP - Wapato	LS	-	-	-	-	-	-					-	-
43	(Permanent) Signing	LS	-	-	-	-	-	-					-	-
44	Storm Sewer System	LF	-	-	-	-	-	-					-	-
45	Structure and Obstruction Removal	SF	-	-	-	-	139,582.1	558,328					139,582.1	558,328
46	Temporary Bridge Structure	SF	-	-	-	-	-	-					-	-
47	Temporary Work Bridge	SF	-	-	-	-	-	-					-	-
48	Traffic Signal System	LS	-	-	-	-	-	-					-	-
49	Utilities Relocation	LS	-	-	-	-	-	-					-	-
50	Water Quality Vault	EACH	-	-	-	-	-	-					-	-
51	Wheel Wash & On Site Haul Route	EACH	-	-	-	-	1.0	9,600					1.0	9,600
52	Widen Existing Bridge	SF	-	-	-	-	-	-					-	-
53	Work Zone Traffic Control	LS	0.1	51,200	0.1	31,200	0.2	522,240					0.3	604,640
54	Soil Improvement	SF	-	-	-	-	-	-					-	-
55	Surcharge Material Re-handle	CY	-	-	-	-	-	-					-	-
			Area 1 Total:	85,605	Area 2 Total:	57,498	Area 3 Total:	34,167,881	Area 4 Total:	-	Area 5 Total:	-	Total:	34,310,984

Puget Sound Gateway Project
 SR 167/ I-5/ SR 509 Strategic Corridor Design Review
 Funding and Phasing Study

SR 167 Gateway Phase 1 - Early Mitigation Stage 2
 Summary of Quantities and Cost Estimate

Tab #	BID ITEM	UNITS	Area 1		Area 2		Area 3		Area 4		Area 5		Total	
			Quantity	Total Cost	Quantity	5.01	Quantity	5.02	Quantity	5.03	Quantity	5.04	Quantity	5.05
1	Mobilization	EST					1.0	8,612	1.0	377,334	1.0	8,892	1.0	394,838
2	Beam Guardrail Type	LF					-	-	-	-	-	-	-	-
3	Beam Guardrail Terminal	EACH					-	-	-	-	-	-	-	-
4	Bio-Infiltration Swale	LF					-	-	-	-	-	-	-	-
5	Borrow Including Haul	TONS					-	-	-	-	-	-	-	-
6	Bridge Structure	SF					-	-	-	-	-	-	-	-
7	CAVFS	SF					-	-	-	-	-	-	-	-
8	Channel Excavation	CY					-	-	-	-	-	-	-	-
9	Channel Improvements	LF					-	-	-	-	-	-	-	-
10	Clearing & Grubbing	AC					-	-	-	-	-	-	-	-
11	Combined Detention and Treatment Pond	SF					-	-	-	-	-	-	-	-
12	(Precast) Concrete Barrier type	LF					-	-	-	-	-	-	-	-
13	Constructed Stormwater Wetlands	SF					-	-	-	-	-	-	-	-
14	(Stabilized) Construction Entrance	EACH					2.0	5,600	-	-	1.0	2,800	3.0	8,400
15	Crushed Surfacing Base Course	TONS					-	-	-	-	-	-	-	-
16	Culverts Pipe	LF					-	-	-	-	-	-	-	-
17	Detention Pond	SF					-	-	-	-	-	-	-	-
18	Drainage Ditch Excavation	LF					-	-	-	-	-	-	-	-
19	Ecology Embankment	LF					-	-	-	-	-	-	-	-
20	Embankment Compaction	CY					-	-	-	-	-	-	-	-
21	Erosion Control Seeding, Fertilizing and Mulching	AC					-	-	-	-	-	-	-	-
22	Hot Mix Asphalt	TONS					-	-	-	-	-	-	-	-
23	Illumination System	LS					-	-	-	-	-	-	-	-
24	(Permanent) Impact Attenuators	EACH					-	-	-	-	-	-	-	-
25	Interurban Trail Connection	LS					-	-	-	-	-	-	-	-
26	(Traffic Data Accumulation) ITS	LS					-	-	-	-	-	-	-	-
27	Landscaping													
	Corridor Native Mix - 5' O.C.	AC					-	-	-	-	-	-	-	-
	Enhanced Mix - 5' O.C.	AC					-	-	-	-	-	-	-	-
	Seed Mix with 20% Trees	AC					-	-	-	-	-	-	-	-
28	Level Spreader	EACH					-	-	-	-	-	-	-	-
29	Noise Wall Wall type	SF					-	-	-	-	-	-	-	-
30	Overbank Excavation	CY					-	-	-	-	-	-	-	-
31	Pavement Markings	LF					-	-	-	-	-	-	-	-
32	Removable Bollards	EACH					-	-	-	-	-	-	-	-
33	Remove Existing Bridge	SF					-	-	-	-	-	-	-	-
34	Removing Asphalt Concrete Pavement	SY					-	-	-	-	-	-	-	-
35	Retaining Wall Aesthetic Treatment	SF					-	-	-	-	-	-	-	-
36	Retaining Walls	SF					-	-	-	-	-	-	-	-
37	Roadway Excavation	CY					-	-	-	-	-	-	-	-
38	(Chain Link) ROW Fence type	LF					-	-	-	-	-	-	-	-
39	RRP - Lower Hylebos	LS					-	-	-	-	-	-	-	-
40	RRP - Upper Hylebos	LS					-	-	-	-	-	-	-	-
41	RRP - SLT	LS					-	-	-	-	-	-	-	-
42	RRP - Wapato	LS					-	-	1.0	4,141,400	-	-	1.0	4,141,400
43	(Permanent) Signing	LS					-	-	-	-	-	-	-	-
44	Storm Sewer System	LF					-	-	-	-	-	-	-	-
45	Structure and Obstruction Removal	SF					22,522.3	90,089	-	-	-	-	22,522.3	90,089
46	Temporary Bridge Structure	SF					-	-	-	-	-	-	-	-
47	Temporary Work Bridge	SF					-	-	-	-	-	-	-	-
48	Traffic Signal System	LS					-	-	-	-	-	-	-	-
49	Utilities Relocation	LS					-	-	-	-	-	-	-	-
50	Water Quality Vault	EACH					-	-	-	-	-	-	-	-
51	Wheel Wash & On Site Haul Route	EACH					1.0	9,600	-	-	2.0	19,200	3.0	28,800
52	Widen Existing Bridge	SF					-	-	-	-	-	-	-	-
53	Work Zone Traffic Control	LS					0.2	522,240	0.1	51,200	0.1	76,800	0.3	650,240
54	Soil Improvement	SF					-	-	-	-	-	-	-	-
55	Surcharge Material Re-handle	CY					-	-	-	-	-	-	-	-
			Area 1 Total:	-	Area 2 Total:	-	Area 3 Total:	636,141	Area 4 Total:	4,569,934	Area 5 Total:	107,692	Total:	5,313,767

Puget Sound Gateway Project
 SR 167/ I-5/ SR 509 Strategic Corridor Design Review
 Funding and Phasing Study

I-5/SR 509 Gateway Future Phase (Ful 4-lane)
 Summary of Quantities and Cost Estimate

	Non-Tolling		Toll System	
	Construction	Toll Collection	Civil Roadway	Vendor
Base Item Total	\$268,964,627	\$ 2,150,000	\$ 900,000	
Missing Bid Items (20% of Base Item Total)	\$ 53,792,925	\$ 430,000	\$ 180,000	
Water Pollution Control /TESC (5% of Base Item Total)	\$ 13,448,231	\$ 107,500	\$ 36,000	
Maintenance of Traffic (8% of Base Item Total)	\$ 21,517,170	\$ 172,000	\$ 7,200	
Subtotal1	\$ 357,722,954	\$ 2,859,500	\$ 1,123,200	
MOBILIZATION (% of Subtotal1)	\$ 35,772,295	\$ 285,950	\$ 112,320	
Subtotal2	\$ 393,495,250	\$ 3,145,450	\$ 1,235,520	
Sales Tax (% of Subtotal2)	9.5% \$ 37,382,049	\$ 298,818	\$ 117,374	
Subtotal3	\$ 430,877,299	\$ 3,444,268	\$ 1,352,894	
Construction Engr and Insp (% of Subtotal2)	8.0% \$ 31,479,620	\$ 251,636	\$ 98,842	
DB Engineering and Quality (% of Subtotal2)	8.0% \$ 31,479,620	\$ 251,636	\$ 98,842	
Standard Contingency (% of Subtotal2)	4.0% \$ 15,739,810	\$ 125,818	\$ 49,421	
Washington State Patrol (% of Subtotal2)	0.1% \$ 393,495	\$ 3,145	\$ 1,236	
Subtotal4	\$ 509,969,844	\$ 4,076,503	\$ 1,601,234	
Right of Way	\$ 110,200,000	\$ -	\$ -	
Preliminary Eng. & Project Mngt (% of Subtotal2)	5.0% \$ 19,674,762	\$ 157,273	\$ 61,776	
Toll Vender				
Sub-Item	Qty	Unit Price		
Procurement	1 per project	1	\$ 1,500,000	\$ 1,500,000
Investment Level Traffic and Revenue	1 per project	1	\$ 1,500,000	\$ 1,500,000
Toll Vender PE sub-total				\$ 3,000,000
FMAS Equipment	1 per project	0	\$ 100,000	\$ -
Customer Service Center (CSC)	1 per project	1	\$ 1,250,000	\$ 1,250,000
Marketing/Education Campaign	1 per project	1	\$ 2,250,000	\$ 2,250,000
Toll Rate Setting	1 per project	1	\$ 750,000	\$ 750,000
Toll System Implementation	1 per project	1	\$ 1,500,000	\$ 1,500,000
Toll Vender CN sub-total				\$ 5,750,000
Construction SUBTOTAL				\$ 509,969,844
RISK	12.00%			\$ 61,196,381
EXCALATION	62.61%			\$ 319,295,673
Construction TOTAL				\$ 890,461,898
				\$ 7,118,011
				\$ 2,795,926
				\$ 10,040,115

	Project Total					
Preliminary Engineering:	\$ 22,893,811	\$ 19,674,762	\$ 157,273	\$ 61,776	\$ 3,000,000	
Right of Way:	\$ 110,200,000	\$ 110,200,000	\$ -	\$ -		
Construction:	\$ 910,415,950	\$ 890,461,898	\$ 7,118,011	\$ 2,795,926	\$ 10,040,115	
TOTAL FUNDING NEED:	\$ 1,043,509,761					

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			ROADWAY													ROADWAY															
STD ITEM NO.	UNIT	ITEM	I-5 Median Rebuild 317th to S 272nd	I-5 Median Rebuild S 272nd to SR 516	I-5 SB Off-Conn. To S 272nd St	I-5 SB Aux. S 272nd Off to SR 516	I-5 Northbound Widening SE quadrant SR 516 I/C	I-5 Southbound On-Conn. From SR 516	I-5 Northbound Off-Conn. To SR 516	I-5 Crossroad SR 516	I-5 Crossroad S 231st Way	I-5 Southbound Off-Conn. To SR 516	I-5 Northbound On-Conn. From SR 516	I-5 SB Aux. SR 516 Off to SR 509 On	I-5 SB HOT N of SR 516	I-5 NB HOT SR 516 to S 225th	I-5 NB RT SR 516 to S 225th	I-5 NB Rebuild S 225th to S 208th St	I-5/SR 509 Southbound freeway to freeway	I-5/SR 509 HOV freeway to freeway	I-5/SR 509 Northbound freeway to freeway	I-5/SR 509 Crossroad S 211th St and 33rd Ave S	SR 509 Northbound	SR 509 Southbound On-Conn. From 28th/24th Ave S							
			(MOVED TO ETL DIRECT ACCESS)	(MOVED TO ETL DIRECT ACCESS)					SR 516	K 50+17.55 TO -58+50	KR	KQ1+KQ2	L	(MOVED TO ETL DIRECT ACCESS)	(MOVED TO ETL DIRECT ACCESS)	L	LR LINE	S & T LINES	(MOVED TO ETL DIRECT ACCESS)	N Prime LINE	W 13+50 TO 39+74	NB 770+00 TO 931+00 (NB LINE)	BS 63+00 TO 75+50 (BS LINE)								
PREPARATION																															
0025	ACRE	CLEARING AND GRUBBING			0.6	12.4	0.7	1.1	3.9	2.6	2.2	3.7	5.4	6.7			2.3	11.4	3.0				3.2		54.6	3.4					
0050	L.S.	REMOVAL OF STRUCTURE AND OBSTRUCTION																													
GRADING																															
0310	C.Y.	ROADWAY EXCAVATION INCL. HAUL			1	10,101	472	4,753	25,601	54,580	46,544	112,430	80,180	12,481			8,734	209,706	214,585						268,139		630,580	13,301			
431	TON	GRAVEL BORROW INCL. HAUL			3,368	16,539	3,434	1,347	49,432	851		19	168	15,991			85	38,676	1,854							2,586		945,590	106,320		
0470	C.Y.	EMBANKMENT COMPACTION			2,091	8,940	1,856	728	26,720	460		10	91	8,644			46	20,906	1,002							1,398		511,130	57,470		
STORM SEWER & DRAINAGE																															
	L.S.	STORM SEWER & DRAINAGE ESTIMATE																													
	L.S.	200TH CULVERT																													
STRUCTURE																															
	S.F.	PRESTRESSED CONCRETE GIRDER																													
	S.F.	PRESTRESSED CONCRETE GIRDER																													
	S.F.	REINFORCED CONCRETE FLAT SLAB																													
	S.F.	PRESTRESSED SLAB W/ SOLDIER/SECANT PILE WALL ABUTMENTS																													
	S.F.	PRESTRESSED SLAB W/ SOLDIER/SECANT PILE WALL ABUTMENTS																													
	S.F.	PRESTRESSED SLAB W/ SOLDIER/SECANT PILE WALL ABUTMENTS																													
	S.F.	PRESTRESSED SLAB W/ SOLDIER/SECANT PILE WALL ABUTMENTS																													
	S.F.	POST-TENSIONED CONCRETE BOX BRIDGE																													
	S.F.	STEEL BOX BRIDGE																													
	S.F.	SEW (MSE WALL)																													
	S.F.	SOLDIER PILE WITH TIE BACK RETAINING WALL																													
	S.F.	NOISE WALL																													
SURFACING																															
5100	TON	CRUSHED SURFACING BASE COURSE			628	4,559	340	1,116	1,284	4,910	1,449	2,846	2,509	3,618			1,207	9,475	1,791						2,248	1,879	22,748	846			
ASPHALT TREATED BASE																															
5334	EST.	ANTI-STRIPPING ADDITIVE			1,500	4,050	310	2,660	3,050	11,660	3,440	6,760	5,960	3,210			1,070	8,400	4,250						2,000	2,980	14,410	2,010			
CEMENT CONCRETE PAVEMENT																															
5625	C.Y.	CEMENT CONC. PAVEMENT			-	8,182	611							6,493			2,166	17,002							4,034		29,159				
5685	EACH	COROSION RESISTANT DOWEL BAR				5,314	66,229							4,032					5,067							7,666		35,129			
HOT MIX ASPHALT																															
5767	TON	HMA CL. 1/2 IN. PG			1,491	4,042	302	2,651	3,047	11,657	3,438	6,757	5,956	3,207			1,070	8,399	4,250						1,993	2,974	14,404	2,009			
5830	CALC	JOB MIX COMPLIANCE PRICE ADJUSTMENT			3,131	8,488	634	5,567	6,399	24,480	7,220	14,190	12,508	6,735			2,247	17,638	8,925						4,185	6,245	30,248	4,219			
5835	CALC	COMPACTION PRICE ADJUSTMENT			2,087	5,659	423	3,711	4,266	16,320	4,813	9,460	8,338	4,490			1,498	11,759	5,950						2,790	4,164	20,166	2,813			
EROSION CONTROL AND PLANTING																															
	ACRE	WETLAND BUFFER																													
	ACRE	ROADSIDE RESTORATION																													
TRAFFIC																															
6763	L.F.	SINGLE SLOPE CONCRETE BARRIER															456	1,838								2,885	2,844		2,608		17,500
6776	L.F.	PRECAST CONC. BARRIER TYPE 4																													
6777	L.F.	CAST IN PLACE CONC. BARRIER TYPE 4																													
6757	L.F.	BEAM GUARDRAIL TYPE 31				1,000								314			607												2,753		
6807	L.F.	PLASTIC LINE			1,948	19,249		2,305	3,603	8,931	5,346	9,310	6,693	23,527			15,792	41,040	5,732						10,775	2,624	98,954	2,199			
6818	L.F.	PLASTIC WIDE LINE			139	4,302		918	164	71				237		5,929	4,333	12,217	298						797		2,757	336			
6859	L.F.	PLASTIC STOP LINE												145		41															
6890	L.S.	PERMANENT SIGNING																													
6904	L.S.	ILLUMINATION SYSTEM																													
6912	L.S.	TRAFFIC SIGNAL SYSTEM																													
7083	L.F.	CHAIN LINK FENCE TYPE 3						3,327	1,897				148	569	2,040	2,012	3,019									2,970	1,945	2,360	14,466		
7084	L.F.	CHAIN LINK FENCE TYPE 4																													
6865	EACH	PLASTIC HOV LANE SYMBOL															22														
	L.S.	TEMPORARY ITS SYSTEM																													
	L.S.	PERMANENT ITS SYSTEM																													
	EST	RAMP METER																													
TRAFFIC MANAGEMENT																															
TOLL COLLECTION SYSTEMS																															
OTHER ITEMS																															
		Column Subtotals																													

			ROADWAY								NOISE WALL			RETAINING WALL												
STD ITEM NO.	UNIT	ITEM	SR 509 Northbound Off-Conn. To 28th/24th Ave S	SR 509 Southbound Off-Conn. to S 200th St	SR 509 Northbound On-Conn. From S 200th St	SR 509 Crossroad 28th/24th Ave S	SR 509 Southbound On-Conn. From S 188th St	SR 509 Northbound Off-Conn. To S 188th St	SR 509 Crossroad S 188th St	SR 509 Southbound Off-Conn. To S 188th St	SR 509 Northbound On-Conn. From S 188th St	I-5	I-5	SR 509	I-5 SB OFF RAMP TO SR 516 (KR LINE) WALL 1	I-5 NB / SR 509 NB(East side) (N LINE) WALL 2	I-5 NB / SR 509 NB(West side) (N LINE) WALL 3	I-5 / SR 509 HOV LANES (East side) (H LINE) WALL 4	SR 509 SB / I-5 SB (West side) (H LINE) WALL 5	I-5 NB MEDIAN WALL 6	I-5 NB MEDIAN WALL 7	I-5 NB MEDIAN WALL 8	I-5 NB MEDIAN WALL 9	I-5 NB MEDIAN WALL 10		
			BP 38+55 TO 52+00 (BP LINE)	(CQ LINE)	(CR LINE)	B 35+50 TO 59+50 (B LINE)	FS 65+25 TO 91+00 (FS LINE)	FP 34+00 TO 42+50 (FP LINE)	F 23+65 TO 36+65 (F LINE)	FR 100+50 TO 116+60 (FR LINE)	FQ 50+50 TO 79+13 (FQ LINE)	SECTION 1 NOISE WALLS	SECTION 2 NOISE WALLS	SECTION 4 NOISE WALLS				(MOVED TO ETL DIRECT ACCESS)	(MOVED TO ETL DIRECT ACCESS)							
PREPARATION																										
0025	ACRE	CLEARING AND GRUBBING	2.3	1.6	2.1		4.2				3.8	6.1														
0050	L.S.	REMOVAL OF STRUCTURE AND OBSTRUCTION																								
GRADING																										
0310	C.Y.	ROADWAY EXCAVATION INCL. HAUL	25,507	95,758	266,148		15,915	504		7,426	47,582															
431	TON	GRAVEL BORROW INCL. HAUL	48,015	11,380	4,165		131,532	66,470		5,040	14,051															
0470	C.Y.	EMBANKMENT COMPACTION	25,954	6,151	2,252		71,098	35,930		2,724	7,595															
STORM SEWER & DRAINAGE																										
	L.S.	STORM SEWER & DRAINAGE ESTIMATE																								
	L.S.	200TH CULVERT																								
STRUCTURE																										
	S.F.	PRESTRESSED CONCRETE GIRDER																								
	S.F.	PRESTRESSED CONCRETE GIRDER																								
	S.F.	REINFORCED CONCRETE FLAT SLAB																								
	S.F.	PRESTRESSED SLAB W/ SOLDIER/SECANT PILE WALL ABUTMENTS																								
	S.F.	PRESTRESSED SLAB W/ SOLDIER/SECANT PILE WALL ABUTMENTS																								
	S.F.	PRESTRESSED SLAB W/ SOLDIER/SECANT PILE WALL ABUTMENTS																								
	S.F.	PRESTRESSED SLAB W/ SOLDIER/SECANT PILE WALL ABUTMENTS																								
	S.F.	POST-TENSIONED CONCRETE BOX BRIDGE																								
	S.F.	STEEL BOX BRIDGE																								
	S.F.	SEW (MSE WALL)																								
	S.F.	SOLDIER PILE WITH TIE BACK RETAINING WALL													35,490	13,890	20,350			1,298	23,924	16,879	12,161	30,000		
	S.F.	NOISE WALL										146,762	253,712	43,896												
SURFACING																										
5100	TON	CRUSHED SURFACING BASE COURSE	1,065	961	1,377		1,171	741		1,247	1,848															
ASPHALT TREATED BASE																										
5334	EST.	ANTI-STRIPPING ADDITIVE	2,530	2,290	3,290		2,790	1,760		2,960	4,390															
CEMENT CONCRETE PAVEMENT																										
5625	C.Y.	CEMENT CONC. PAVEMENT																								
5685	EACH	COROSION RESISTANT DOWEL BAR																								
HOT MIX ASPHALT																										
5767	TON	HMA CL. 1/2 IN. PG	2,529	2,281	3,283		2,781	1,760		2,960	4,387															
5830	CALC	JOB MIX COMPLIANCE PRICE ADJUSTMENT	5,311	4,790	6,894		5,840	3,696		6,216	9,213															
5835	CALC	COMPACTION PRICE ADJUSTMENT	3,541	3,193	4,596		3,893	2,464		4,144	6,142															
EROSION CONTROL AND PLANTING																										
	ACRE	WETLAND BUFFER																								
	ACRE	ROADSIDE RESTORATION																								
TRAFFIC																										
6763	L.F.	SINGLE SLOPE CONCRETE BARRIER																								
6776	L.F.	PRECAST CONC. BARRIER TYPE 4																								
6777	L.F.	CAST IN PLACE CONC. BARRIER TYPE 4																								
6757	L.F.	BEAM GUARDRAIL TYPE 31		249			271																			
6807	L.F.	PLASTIC LINE	2,808	4,196	7,191		4,638	2,074		2,981	4,851															
6818	L.F.	PLASTIC WIDE LINE	460	2,254	1,306		355	665		794	744															
6859	L.F.	PLASTIC STOP LINE	40	54				54		67																
6890	L.S.	PERMANENT SIGNING																								
6904	L.S.	ILLUMINATION SYSTEM																								
6912	L.S.	TRAFFIC SIGNAL SYSTEM																								
7083	L.F.	CHAIN LINK FENCE TYPE 3																								
7084	L.F.	CHAIN LINK FENCE TYPE 4																								
6865	EACH	PLASTIC HOV LANE SYMBOL																								
	L.S.	TEMPORARY ITS SYSTEM																								
	L.S.	PERMANENT ITS SYSTEM																								
	EST	RAMP METER																								
TRAFFIC MANAGEMENT																										
TOLL COLLECTION SYSTEMS																										
OTHER ITEMS																										
		Column Subtotals																								

								BRIDGE										BRIDGE				
STD ITEM NO.	UNIT	ITEM	I-5 NB MEDIAN WALL 11	SR 509 NB LINE	SR 509 B LINE	SR 509 FS LINE	SR 509 CQ LINE	I-5 Southbound Military Rd O'Xing	I-5 Northbound Military Rd O'Xing	I-5 Southbound S 288th St O'Xing	I-5 Northbound S 288th St O'Xing	I-5 Southbound Military Rd (Star Lake) O'Xing	I-5 Northbound Military Rd (Star Lake) O'Xing	I-5 Southbound S 272nd St O'Xing	I-5 Northbound S 272nd St O'Xing	I-5 Southbound S 260th St O'Xing	I-5 Northbound S 260th St O'Xing	I-5 Southbound SR 516 O'Xing	I-5 Northbound SR 516 O'Xing	I-5 SB & NB S 231st Wy O'Xing	I-5 SB & NB S 216th St U'Xing	
				NB LINE	B LINE	FS LINE	CQ LINE	BR 5/506 W WIDENING (MOVED TO ETL DIRECT ACCESS)	BR 5/506 E WIDENING (MOVED TO ETL DIRECT ACCESS)	BR 5/507 W WIDENING (MOVED TO ETL DIRECT ACCESS)	BR 5/507 E WIDENING (MOVED TO ETL DIRECT ACCESS)	BR 5/508 W WIDENING (MOVED TO ETL DIRECT ACCESS)	BR 5/508 E WIDENING (MOVED TO ETL DIRECT ACCESS)	BR 5/509 W WIDENING (MOVED TO ETL DIRECT ACCESS)	BR 5/509 E WIDENING (MOVED TO ETL DIRECT ACCESS)	BR 5/510 W WIDENING (MOVED TO ETL DIRECT ACCESS)	BR 5/510 E WIDENING (MOVED TO ETL DIRECT ACCESS)	BR 5/511 W WIDENING	BR 5/511 E WIDENING			
PREPARATION																						
0025	ACRE	CLEARING AND GRUBBING																				
0050	L.S.	REMOVAL OF STRUCTURE AND OBSTRUCTION																				
GRADING																						
0310	C.Y.	ROADWAY EXCAVATION INCL. HAUL																				
431	TON	GRAVEL BORROW INCL. HAUL																				
0470	C.Y.	EMBANKMENT COMPACTION																				
STORM SEWER & DRAINAGE																						
	L.S.	STORM SEWER & DRAINAGE ESTIMATE																				
	L.S.	200TH CULVERT																				
STRUCTURE																						
	S.F.	PRESTRESSED CONCRETE GIRDER																	6,740	2,560		
	S.F.	PRESTRESSED CONCRETE GIRDER																				23,000
	S.F.	REINFORCED CONCRETE FLAT SLAB																				
	S.F.	PRESTRESSED SLAB W/ SOLDIER/SECANT PILE WALL ABUTMENTS																			15,630	
	S.F.	PRESTRESSED SLAB W/ SOLDIER/SECANT PILE WALL ABUTMENTS																				
	S.F.	PRESTRESSED SLAB W/ SOLDIER/SECANT PILE WALL ABUTMENTS																				
	S.F.	PRESTRESSED SLAB W/ SOLDIER/SECANT PILE WALL ABUTMENTS																				
	S.F.	POST-TENSIONED CONCRETE BOX BRIDGE																				
	S.F.	STEEL BOX BRIDGE																				
	S.F.	SEW (MSE WALL)	35,150	25,540	12,299	12,648	1,162															
	S.F.	SOLDIER PILE WITH TIE BACK RETAINING WALL		17,857																		
	S.F.	NOISE WALL																				
SURFACING																						
5100	TON	CRUSHED SURFACING BASE COURSE																				
ASPHALT TREATED BASE																						
5334	EST.	ANTI-STRIPPING ADDITIVE																				
CEMENT CONCRETE PAVEMENT																						
5625	C.Y.	CEMENT CONC. PAVEMENT																				
5685	EACH	COROSION RESISTANT DOWEL BAR																				
HOT MIX ASPHALT																						
5767	TON	HMA CL. 1/2 IN. PG																				
5830	CALC	JOB MIX COMPLIANCE PRICE ADJUSTMENT																				
5835	CALC	COMPACTION PRICE ADJUSTMENT																				
EROSION CONTROL AND PLANTING																						
	ACRE	WETLAND BUFFER																				
	ACRE	ROADSIDE RESTORATION																				
TRAFFIC																						
6763	L.F.	SINGLE SLOPE CONCRETE BARRIER																				
6776	L.F.	PRECAST CONC. BARRIER TYPE 4																				
6777	L.F.	CAST IN PLACE CONC. BARRIER TYPE 4																				
6757	L.F.	BEAM GUARDRAIL TYPE 31																				
6807	L.F.	PLASTIC LINE																				
6818	L.F.	PLASTIC WIDE LINE																				
6859	L.F.	PLASTIC STOP LINE																				
6890	L.S.	PERMANENT SIGNING																				
6904	L.S.	ILLUMINATION SYSTEM																				
6912	L.S.	TRAFFIC SIGNAL SYSTEM																				
7083	L.F.	CHAIN LINK FENCE TYPE 3																				
7084	L.F.	CHAIN LINK FENCE TYPE 4																				
6865	EACH	PLASTIC HOV LANE SYMBOL																				
	L.S.	TEMPORARY ITS SYSTEM																				
	L.S.	PERMANENT ITS SYSTEM																				
	EST	RAMP METER																				
TRAFFIC MANAGEMENT																						
TOLL COLLECTION SYSTEMS																						
OTHER ITEMS																						
		Column Subtotals																				

I-5/SR 509 Gateway Future Phase (Ful 4-lane)
 Summary of Quantities and Cost Estimate

			BRIDGE													DRAINAGE										
STD ITEM NO.	UNIT	ITEM	I-5 Southbound SR 509 HOV O'Xing	I-5 SB & NB SR 509 NB O'Xing	I-5 Southbound SR 509 NB O'Xing	SR 509 - S 211th St U'Xing	SR 509 - SR 99 U'Xing	SR 509 - 28th/24th U'Xing	SR 509 Northbound FL/Wet. A O'Xing	SR 509 Northbound S 200th St O'Xing	SR 509 Northbound DMM Dr S O'Xing	SR 509 - S 192nd St U'Xing	SR 509 S 200th St On-Ramp Flyover	SR 509 Southbound Wetland B O'Xing	SR 509 Northbound Wetland B O'Xing	SR 509 Northbound S 188th Wy O'Xing	SECTION 1 (Seg. A) I-5 SOUTH QUANT.	I-5 SB 320th to 272nd	SECTION 2 (Seg. C) I-5 NORTH QUANT.	SECTION 3 (Seg. D) SR 509S QUANT.	SECTION 4 (Seg. B) SR 509N QUANT.	Total Quantity	Unit Cost	Bid Item Cost		
PREPARATION																										
0025	ACRE	CLEARING AND GRUBBING																					137	5,000	686,500	
0050	L.S.	REMOVAL OF STRUCTURE AND OBSTRUCTION																					1	3,000,000	3,000,000	
GRADING																										
0310	C.Y.	ROADWAY EXCAVATION INCL. HAUL																					2,151,028	10	21,510,280	
431	TON	GRAVEL BORROW INCL. HAUL																					1,466,913	10	14,669,134	
0470	C.Y.	EMBANKMENT COMPACTION																					793,196	2	1,586,392	
STORM SEWER & DRAINAGE																										
	L.S.	STORM SEWER & DRAINAGE ESTIMATE																4,030,055					22,267,580.00	1	22,267,580	
	L.S.	200TH CULVERT																	5,323,606	7,439,368	5,474,551		1,123,158.00	1	1,123,158	
STRUCTURE																										
	S.F.	PRESTRESSED CONCRETE GIRDER			5,890	24,000	23,633	66,537			15,630	15,704					7,663						168,357	175	29,462,475	
	S.F.	PRESTRESSED CONCRETE GIRDER																					23,000	175	4,025,000	
	S.F.	REINFORCED CONCRETE FLAT SLAB																					0	200	0	
	S.F.	PRESTRESSED SLAB W/ SOLDIER/SECANT PILE WALL ABUTMENTS																					15,630	350	5,470,500	
	S.F.	PRESTRESSED SLAB W/ SOLDIER/SECANT PILE WALL ABUTMENTS	43,290																				43,290	350	15,151,500	
	S.F.	PRESTRESSED SLAB W/ SOLDIER/SECANT PILE WALL ABUTMENTS		32,425																			32,425	350	11,348,750	
	S.F.	PRESTRESSED SLAB W/ SOLDIER/SECANT PILE WALL ABUTMENTS																					0	350	0	
	S.F.	POST-TENSIONED CONCRETE BOX BRIDGE							30,931				18,412										49,343	250	12,335,750	
	S.F.	STEEL BOX BRIDGE												18,619	87,289								105,908	250	26,477,000	
	S.F.	SEW (MSE WALL)																					171,061	55	9,408,355	
	S.F.	SOLDIER PILE WITH TIE BACK RETAINING WALL																					87,587	184	16,116,008	
	S.F.	NOISE WALL																					444,370	45	19,996,650	
SURFACING																										
5100	TON	CRUSHED SURFACING BASE COURSE																					71,863	20	1,437,260	
ASPHALT TREATED BASE																										
5334	EST.	ANTI-STRIPPING ADDITIVE																					97,730	1	97,730	
CEMENT CONCRETE PAVEMENT																										
5625	C.Y.	CEMENT CONC. PAVEMENT																					67,647	200	13,529,400	
5685	EACH	COROSION RESISTANT DOWEL BAR																					123,437	16	1,974,992	
HOT MIX ASPHALT																										
5767	TON	HMA CL. 1/2 IN. PG																					97,628	70	6,833,960	
5830	CALC	JOB MIX COMPLIANCE PRICE ADJUSTMENT																					205,019	0.03	6,151	
5835	CALC	COMPACTION PRICE ADJUSTMENT																					136,679	0.02	2,734	
EROSION CONTROL AND PLANTING																										
	ACRE	WETLAND BUFFER																					6.31	113,000	713,030	
	ACRE	ROADSIDE RESTORATION																					133	80,000	10,640,000	
TRAFFIC																										
6763	L.F.	SINGLE SLOPE CONCRETE BARRIER																					28,131	80	2,250,480	
6776	L.F.	PRECAST CONC. BARRIER TYPE 4																					0	50.40	0	
6777	L.F.	CAST IN PLACE CONC. BARRIER TYPE 4																					0	105	0	
6757	L.F.	BEAM GUARDRAIL TYPE 31																					6,047	20	120,940	
6807	L.F.	PLASTIC LINE																					286,767	1.50	430,151	
6818	L.F.	PLASTIC WIDE LINE																					39,076	3	117,228	
6859	L.F.	PLASTIC STOP LINE																					401	7	2,807	
6890	L.S.	PERMANENT SIGNING																					2,165,000	1.16	2,511,400	
6904	L.S.	ILLUMINATION SYSTEM																					7,318,200	1.16	8,489,112	
6912	L.S.	TRAFFIC SIGNAL SYSTEM																					2,508,000	1.16	2,909,280	
7083	L.F.	CHAIN LINK FENCE TYPE 3																					34,753	10	347,530	
7084	L.F.	CHAIN LINK FENCE TYPE 4																					0	16	0	
6865	EACH	PLASTIC HOV LANE SYMBOL																					28	120	3,360	
	L.S.	TEMPORARY ITS SYSTEM																					801,276	1.16	929,480	
	L.S.	PERMANENT ITS SYSTEM																					760,838	1.16	882,572	
	EST	RAMP METER																					100,000	1	100,000	
TRAFFIC MANAGEMENT																										
TOLL COLLECTION SYSTEMS																										
OTHER ITEMS																										
Column Subtotals																										
																						BASE ITEM TOTAL		\$268,964,627		

Puget Sound Gateway Project
 SR 167/ I-5/ SR 509 Strategic Corridor Design Review
 Funding and Phasing Study

I-5 Express Toll Lanes Gateway (2nd Lane)
 Summary of Quantities and Cost Estimate

	Non-Tolling		Toll System		
	Construction	Toll Collection	Civil Roadway	Vendor	
I-5 2ND LANE	\$78,306,246				
I-5/SR 167 D-A	\$10,683,385				
I-5/SR 509 D-A	\$33,433,781				
Base Item Total	\$122,423,412				
Missing Bid Items (20% of Base Item Total)	\$ 15,661,249	\$ -	\$ -		
Water Pollution Control /TESC (5% of Base Item Total)	\$ 3,915,312	\$ -	\$ -		
Maintenance of Traffic (8% of Base Item Total)	\$ 6,264,500	\$ -	\$ -		
Subtotal1	\$ 148,264,474	\$ -	\$ -		
MOBILIZATION (% of Subtotal1)	\$ 14,826,447	\$ -	\$ -		
Subtotal2	\$ 163,090,921	\$ -	\$ -		
Sales Tax (% of Subtotal2)	9.5% \$ 15,493,637.48	\$ -	\$ -		
Subtotal3	\$ 178,584,558	\$ -	\$ -		
Construction Engr and Insp (% of Subtotal2)	8.0% \$ 13,047,274	\$ -	\$ -		
DB Engineering and Quality (% of Subtotal2)	8.0% \$ 13,047,274	\$ -	\$ -		
Standard Contingency (% of Subtotal2)	4.0% \$ 6,523,637	\$ -	\$ -		
Washington State Patrol (% of Subtotal2)	0.1% \$ 163,091	\$ -	\$ -		
Subtotal4	\$ 211,365,833	\$ -	\$ -		
Right of Way	\$ -	\$ -	\$ -		
Preliminary Eng. & Project Mngt (% of Subtotal1+Mobilization)	5.0% \$ 8,154,546.04	\$ -	\$ -		
Toll Vender					
Sub-Item	Qty	Unit Price			
Procurement	1 per project	1 \$ 1,500,000			\$ 1,500,000
Investment Level Traffic and Revenue	1 per project	1 \$ 1,500,000			\$ 1,500,000
Toll Vender PE sub-total					\$ 3,000,000
Toll Collection Equipment	32	\$ 1,100,000			\$ 35,200,000
FMAS Equipment	1 per project	1 \$ 100,000			\$ 100,000
Customer Service Center (CSC)	1 per project	1 \$ 1,250,000			\$ 1,250,000
Marketing/Education Campaign	1 per project	1 \$ 2,250,000			\$ 2,250,000
Toll Rate Setting	1 per project	1 \$ 750,000			\$ 750,000
Toll System Implementation	1 per project	1 \$ 1,500,000			\$ 1,500,000
Toll Vender CN sub-total					\$ 41,050,000
Construction SUBTOTAL		\$ 211,365,833	\$ -	\$ -	\$ 41,050,000
RISK	12.00%	\$ 25,363,900	\$ -	\$ -	\$ 4,926,000
EXCALATION	28.28%	\$ 59,768,385	\$ -	\$ -	\$ 11,607,799
Construction TOTAL		\$ 296,498,118	\$ -	\$ -	\$ 57,583,799

	Project Total					
Preliminary Engineering:	\$ 11,154,546	\$ 8,154,546	\$ -	\$ -	\$ 3,000,000	
Right of Way:	\$ -	\$ -	\$ -	\$ -		
Construction:	\$ 354,081,918	\$ 296,498,118	\$ -	\$ -	\$ 57,583,799	
TOTAL FUNDING NEED:	\$ 365,236,464					

I-5 Express Toll Lane Phase 2 - Add Second ETL			DRAINAGE															
			SR 16 to 20th St. I/C	20th St. I/C to Porter Way	Porter Way to County Line	County Line to 317th DA South End			Add ETL, SR 167 to SR 509	320th I/C	317th DA North end to SR 509	DRAINAGE	Total Quantity	Unit Cost	Bid Item	Cost		
STD ITEM NO.	UNIT	ITEM	MP 132.0 to MP 136.02	MP 136.02 to MP 139.24	MP 139.10 to MP 139.51	MP 139.51 to MP 139.96	MP 139.96 to MP 140.40	MP 140.40 to MP 143.32	MP 138.5 to MP 150.0	MP 143.32 to MP 143.60	MP 143.60 to MP 150.33							
PREPARATION																		
0025	ACRE	CLEARING AND GRUBBING			0.79	1.32	0.00	8.48					11	5,000	\$	52,963		
0050	Est.	REMOVAL OF STRUCTURE AND OBSTRUCTION			\$ 1,096	\$ 1,827	\$ 253,613	\$ 11,855					268,392	1	\$	268,392		
GRADING																		
0310	C.Y.	ROADWAY EXCAVATION INCL. HAUL			2218	3733	3578	23956					33,484	10	\$	334,843		
431	TON	GRAVEL BORROW INCL. HAUL			8205	13813	13238	88636					123,892	10	\$	1,238,918		
0470	C.Y.	EMBANKMENT COMPACTION											0	2	\$	-		
STORM SEWER & DRAINAGE																		
L.S.		STORM SEWER CONVEYANCE			864,000	1,454,545	1,393,939	9,333,333					13,045,818	1	\$	13,045,818		
L.S.		STORMWATER MANAGEMENT FACILITIES			202,000	222,000	222,000	510,000					1,156,000	1	\$	1,156,000		
L.S.		STORMWATER RIGHT-OF-WAY											0	1	\$	-		
L.S.		STORMWATER RETROFIT ACCOUNT			213,200	335,309	323,188	1,968,667					2,840,364	1	\$	2,840,364		
L.S.		TESC			80,000	83,100	83,100	128,100					374,300	1	\$	374,300		
STRUCTURE																		
S.F.		Porter Way Br. #5/463 (UC) "Replacement Bridge"			33455								33,455	175	\$	5,854,625		
S.F.		Porter Creek Br. # 5/464E (OC)			4824								4,824	250	\$	1,206,000		
S.F.		Porter Creek Br. # 5/464W (OC)			3864								3,864	250	\$	966,000		
S.F.		375th St. Br. 5/501 (UC) "Replacement Bridge"					10450						10,450	175	\$	1,828,750		
S.F.		I-5 Over SR 18 Br. # 5/503E						2472					2,472	225	\$	556,200		
S.F.		I-5 Over SR 18 Br. # 5/503W						2556					2,556	225	\$	575,100		
S.F.		336th St. Br. # 5/504 E (OC)						2376					2,376	225	\$	534,600		
S.F.		336th St. Br. # 5/504 W (OC)						1872					1,872	225	\$	421,200		
Est.		320th St. "Replacement Bridge"									23375		23,375	175	\$	4,090,625		
S.F.		SEW (MSE WALL)			8554	19200	0	123200					150,954	55	\$	8,302,448		
S.F.		SOLDIER PILE WITH TIE BACK RETAINING WALL											0	184	\$	-		
S.F.		NOISE WALL											0	45	\$	-		
SURFACING																		
5100	TON	CRUSHED SURFACING BASE COURSE			586	987	0	6946					8,519	20	\$	170,371		
ASPHALT TREATED BASE																		
5334	EST.	ANTI-STRIPPING ADDITIVE											7,552	1	\$	7,552		
CEMENT CONCRETE PAVEMENT																		
5625	C.Y.	CEMENT CONC. PAVEMENT			1052	1771	0	12465					15,287	200	\$	3,057,469		
5685	EACH	CORROSION RESISTANT DOWEL BAR											0	16	\$	-		
HOT MIX ASPHALT																		
5767	TON	HMA CL 1/2 IN PG			520	875	0	6157					7,552	70	\$	528,611		
5830	CALC	JOB MIX COMPLIANCE PRICE ADJUSTMENT											0	0.03	\$	-		
5835	CALC	COMPACTION PRICE ADJUSTMENT											0	0.02	\$	-		
5835	CALC	PAVMENT RECONSTRUCTION											0	\$ 5,000	\$	-		
EROSION CONTROL AND PLANTING																		
	ACRE	WETLAND BUFFER											0	113,000	\$	-		
	ACRE	ROADSIDE RESTORATION											0	80,000	\$	-		
TRAFFIC																		
6763	L.F.	SINGLE SLOPE CONCRETE BARRIER "SB"			1426	2400	0	15400					19,226	35	\$	672,896		
6776	L.F.	PRECAST CONC. BARRIER TYPE 4											0	30	\$	-		
	L.F.	CAST IN PLACE CONC. BAR. TYPE "SEW" on NB			1426	2400	0	15400					19,226	105	\$	2,018,688		
6767	L.F.	BEAM GUARDRAIL TYPE 31											0	20	\$	-		
6807	L.F.	PLASTIC LINE			2851	4800	4600	30800					43,051	1.50	\$	64,577		
6818	L.F.	PLASTIC WIDE LINE			2851	4800	4600	30800					43,051	3	\$	129,154		
6859	L.F.	PLASTIC STOP LINE											0	7	\$	-		
6890	L.S.	PERMANENT SIGNING											0	1.16	\$	-		
	Est.	ILLUMINATION SYSTEM											0	1.16	\$	-		
6912	L.S.	TRAFFIC SIGNAL SYSTEM											0	1.16	\$	-		
7083	L.F.	CHAIN LINK FENCE TYPE 3											0	10	\$	-		
7084	L.F.	CHAIN LINK FENCE TYPE 4											0	16	\$	-		
8865	EACH	PLASTIC HOV LANE SYMBOL			5	9	9	58					82	120	\$	9,784		
	Est.	TEMPORARY ITS SYSTEM											1	500,000.00	\$	500,000		
	L.S.	PERMANENT ITS SYSTEM											0	1.16	\$	-		
	Est.	RAMP METER											0	1	\$	-		
TRAFFIC MANAGEMENT																		
	Est.	ATM/ITS SYSTEM & GANTRIES											0	700,000	\$	-		
TOLL COLLECTION SYSTEMS																		
	Zone	Civil Roadside Toll Equipment											0	350,000	\$	-		
	Each	Toll System Advanced Warning Signs											0	750,000	\$	-		
	Each	Decision Point Advanced Warning Signs											0	150,000	\$	-		
OTHER ITEMS																		
	Est.	320th I/C Modification											1	\$ 27,500,000	\$	27,500,000		
	Est.	Column Subtotals																
															BASE ITEM TOTAL		\$	78,306,246

Toll Vendor Cost			SR 16 to 20th St. I/C	20th St. I/C to Porter Way	Porter Way to County Line	County Line to 317th DA South End			Add ETL, SR 167 to SR 509	320th I/C	317th DA North end to SR 509	Total Quantity	Unit Cost	Bid Item	Cost			
STD ITEM NO.	UNIT	ITEM	MP 132.0 to MP 136.02	MP 136.02 to MP 139.24	MP 139.10 to MP 139.51	MP 139.51 to MP 139.96	MP 140.40 to MP 143.32	MP 138.5 to MP 150.0	MP 143.32 to MP 143.60	MP 143.60 to MP 150.33								
	Each	Procurement										PE	1	\$ 1,500,000	\$ 1,500,000			
	Each	Investment Level Traffic and Revenue										PE	1	\$ 1,500,000	\$ 1,500,000			
	Zone	Toll Collection Equipment						32				CN	32	\$ 1,100,000	\$ 35,200,000			
	Each	FMAS Equipment										CN	1	\$ 100,000	\$ 100,000			
	Each	Customer Service Center (CSC)										CN	1	\$ 1,250,000	\$ 1,250,000			
	Each	Marketing/Education Campaign										CN	1	\$ 2,250,000	\$ 2,250,000			
	Each	Toll Rate Setting										CN	1	\$ 750,000	\$ 750,000			
	Each	Toll System Implementation										CN	1	\$ 1,500,000	\$ 1,500,000			
															BASE ITEM TOTAL		\$	41,050,000

Puget Sound Gateway Project
 SR 167/ I-5/ SR 509 Strategic Corridor Design Review
 Funding and Phasing Study

I-5 Express Toll Lanes Gateway (2nd Lane) - SR 167 Direct Access Ramp
 Summary of Quantities and Cost Estimate

Tab #	BID ITEM	UNITS	Area 3		Total	
			Quantity	Total Cost	Quantity	Total Cost
1	Mobilization	EST	9,801,000.0	882,090	9,801,000.0	882,090
2	Beam Guardrail Type	LF	-	-	-	-
3	Beam Guardrail Terminal	EACH	-	-	-	-
4	Bio-Infiltration Swale	LF	-	-	-	-
5	Borrow Including Haul	TON	72,180.0	505,260	72,180.0	505,260
6	Bridge Structure	SF	39,350.0	6,886,250	39,350.0	6,886,250
7	CAVFS	SF	-	-	-	-
8	Channel Excavation	CY	-	-	-	-
9	Channel Improvements	LF	-	-	-	-
10	Clearing & Grubbing	AC	2.8	11,240	2.8	11,240
11	Combined Detention and Treatment Pond	SF	-	-	-	-
12	(Precast) Concrete Barrier type	LF	1,760.0	88,704	1,760.0	88,704
13	Constructed Stormwater Wetlands	SF	-	-	-	-
14	(Stabilized) Construction Entrance	EACH	-	-	-	-
15	Crushed Surfacing Base Course	TON	2,390.0	31,070	2,390.0	31,070
16	Culverts Pipe	LF	-	-	-	-
17	Detention Pond	SF	-	-	-	-
18	Drainage Ditch Excavation	LF	-	-	-	-
19	Ecology Embankment	LF	-	-	-	-
20	Embankment Compaction	CY	68,590.0	137,180	68,590.0	137,180
21	Erosion Control Seeding, Fertilizing and Mulching	AC	-	-	-	-
22	Hot Mix Asphalt	TON	4,780.0	334,600	4,780.0	334,600
23	Illumination System	LS	0.2	334,400	0.2	334,400
24	(Permanent) Impact Attenuators	EACH	2.0	40,000	2.0	40,000
25	Interurban Trail Connection	LS	-	-	-	-
26	(Traffic Data Accumulation) ITS	LS	-	-	-	-
27	Landscaping		-	-	-	-
	Corridor Native Mix - 5' O.C.	AC	-	-	-	-
	Enhanced Mix - 5' O.C.	AC	-	-	-	-
	Seed Mix with 20% Trees	AC	-	-	-	-
28	Level Spreader	EACH	-	-	-	-
29	Noise Wall type	SF	-	-	-	-
30	Overbank Excavation	CY	-	-	-	-
31	Pavement Markings	LF	8,559.0	7,532	8,559.0	7,532
32	Removable Bollards	EACH	-	-	-	-
33	Remove Existing Bridge	SF	-	-	-	-
34	Removing Asphalt Concrete Pavement	SY	-	-	-	-
35	Retaining Wall Aesthetic Treatment	SF	10,725.0	34,320	10,725.0	34,320
36	Retaining Walls	SF	10,725.0	434,363	10,725.0	434,363
37	Roadway Excavation	CY	4,190.0	34,777	4,190.0	34,777
38	(Chain Link) ROW Fence type	LF	-	-	-	-
39	RRP - Lower Hylebos	LS	-	-	-	-
40	RRP - Upper Hylebos	LS	-	-	-	-
41	RRP - SLT	LS	-	-	-	-
42	RRP - Wapato	LS	-	-	-	-
43	(Permanent) Signing	LS	0.3	494,400	0.3	494,400
44	Storm Sewer System	LF	500.0	43,200	500.0	43,200
45	Structure and Obstruction Removal	SF	-	-	-	-
46	Temporary Bridge Structure	SF	-	-	-	-
47	Temporary Work Bridge	SF	-	-	-	-
48	Traffic Signal System	LS	1.0	384,000	1.0	384,000
49	Utilities Relocation	LS	-	-	-	-
50	Water Quality Vault	EACH	-	-	-	-
51	Wheel Wash & On Site Haul Route	EACH	-	-	-	-
52	Widen Existing Bridge	SF	-	-	-	-
53	Work Zone Traffic Control	LS	-	-	-	-
54	Soil Improvement	SF	-	-	-	-
55	Surcharge Material Re-handle	CY	-	-	-	-
			Area 3 Total:	10,683,385	Total:	10,683,385

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Puget Sound Gateway Project
 SR 167/ I-5/ SR 509 Strategic Corridor Design Review
 Funding and Phasing Study

SR 167 Gateway Future Phase (Ful 4-lane)
 Summary of Quantities and Cost Estimate

		Non-Tolling		Toll System		
		Construction	Toll Collection	Civil Roadway	Vendor	
SR 167		\$ 471,865,289				
Early Mitigation Stage 1		\$ 34,310,984				
Early Mitigation Stage 2		\$ 5,313,767				
Base Item Total		\$ 511,490,040	\$ 2,990,000	\$ 1,350,000		
Missing Bid Items (12% of Base Item Total)		\$ 61,378,805	\$ 598,000	\$ 270,000		
Water Pollution Control /TESC (5% of Base Item Total)			\$ 149,500	\$ 54,000		
Maintenance of Traffic (8% of Base Item Total)			\$ 239,200	\$ 10,800		
Subtotal1		\$ 572,868,844	\$ 3,976,700	\$ 1,684,800		
MOBILIZATION (% of Subtotal1)			\$ 397,670	\$ 168,480		
Subtotal2		\$ 572,868,844	\$ 4,374,370	\$ 1,853,280		
Sales Tax (% of Subtotal2)	9.5%	\$ 54,422,540	\$ 415,565	\$ 176,062		
Subtotal3		\$ 627,291,385	\$ 4,789,935	\$ 2,029,342		
Construction Engr and Insp (% of Subtotal2)	8.0%	\$ 45,829,508	\$ 349,950	\$ 148,262		
DB Engineering and Quality (% of Subtotal2)	8.0%	\$ 45,829,508	\$ 349,950	\$ 148,262		
Standard Contingency (% of Subtotal2)	4.0%	\$ 22,914,754	\$ 174,975	\$ 74,131		
Washington State Patrol (% of Subtotal2)	0.1%	\$ 572,869	\$ 4,374	\$ 1,853		
Subtotal4		\$ 742,438,022	\$ 5,669,184	\$ 2,401,851		
Right of Way		\$ 155,000,000	\$ -	\$ -		
Preliminary Eng. & Project Mngt (% of Subtotal2)	5.0%	\$ 28,643,442	\$ 218,719	\$ 92,664		
Toll Vender						
Sub-Item	Qty	Unit Price				
Procurement	1 per project	1	\$ 1,500,000			\$ 1,500,000
Investment Level Traffic and Revenue	1 per project	1	\$ 1,500,000			\$ 1,500,000
Toll Vender PE sub-total						\$ 3,000,000
FMAS Equipment	1 per project	0	\$ 100,000			\$ -
Customer Service Center (CSC)	1 per project	1	\$ 1,250,000			\$ 1,250,000
Marketing/Education Campaign	1 per project	1	\$ 2,250,000			\$ 2,250,000
Toll Rate Setting	1 per project	1	\$ 750,000			\$ 750,000
Toll System Implementation	1 per project	1	\$ 1,500,000			\$ 1,500,000
Toll Vender CN sub-total						\$ 5,750,000
Construction SUBTOTAL		\$ 742,438,022	\$ 5,669,184	\$ 2,401,851	\$ 5,750,000	
RISK	4.50%	\$ 33,409,711	\$ 255,113	\$ 108,083	\$ 258,750	
EXCALATION	58.80%	\$ 436,549,910	\$ 3,333,452	\$ 1,412,277	\$ 3,380,972	
Construction TOTAL		\$ 1,212,397,643	\$ 9,257,749	\$ 3,922,211	\$ 9,389,722	

		Project Total								
Preliminary Engineering:	\$	31,954,825	\$	28,643,442	\$	218,719	\$	92,664	\$	3,000,000
Right of Way:	\$	155,000,000	\$	155,000,000	\$	-	\$	-	\$	-
Construction:	\$	1,234,967,324	\$	1,212,397,643	\$	9,257,749	\$	3,922,211	\$	9,389,722
TOTAL FUNDING NEED:	\$	1,421,922,149								

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SR 167 Gateway Future Phase (Ful 4-lane)
 Summary of Quantities and Cost Estimate

Tab #	BID ITEM	UNITS	Area 1		Area 2		Area 3		Area 4		Area 5		Total	
			Quantity	Total Cost	Quantity	Total Cost	Quantity	Total Cost	Quantity	Total Cost	Quantity	Total Cost	Quantity	Total Cost
1	Mobilization	EST	28,974,000.0	2,607,660	19,534,000.0	1,758,060	242,671,000.0	21,840,390	81,232,000.0	7,310,880	60,493,000.0	5,444,370	432,904,000.0	38,961,360
2	Beam Guardrail Type	LF	5,005.0	100,100	-	-	15,271.1	305,422	5,570.0	111,400	#REF!	231,780	#REF!	748,702
3	Beam Guardrail Terminal	EACH	15.0	24,000	-	-	20.7	33,069	4.0	6,400	#REF!	32,800	#REF!	96,269
4	Bio-Infiltration Swale	LF	-	-	-	-	-	-	-	-	#REF!	104,414	#REF!	104,414
5	Borrow Including Haul	TON	384,000.0	2,688,000	631,380.0	4,419,660	2,041,800.0	14,292,600	1,044,250.0	7,309,750	2,030,750.0	14,215,250	6,132,180.0	42,925,260
6	Bridge Structure	SF	29,450.0	6,020,000	14,830.0	2,600,000	999,590.0	188,960,000	320,450.0	58,920,000	87,410.0	21,490,000	1,451,730.0	277,990,000
7	CAVFS	SF	85,659.0	239,845	43,202.0	120,966	143,348.9	401,377	200,250.0	560,700	100,825.0	282,310	573,284.9	1,605,198
8	Channel Excavation	CY	-	-	-	-	-	-	-	-	-	-	-	-
9	Channel Improvements	LF	-	-	-	-	-	-	-	-	-	-	-	-
10	Clearing & Grubbing	AC	23.8	95,200	17.7	70,800	100.3	401,200	30.0	120,000	64.0	256,000	235.8	943,200
11	Combined Detention and Treatment Pond	SF	-	-	-	-	-	-	146,900.0	822,640	367,205.0	2,056,348	514,105.0	2,878,988
12	(Precast) Concrete Barrier type	LF	1,276.0	64,310	3,545.0	178,668	10,664.7	537,498	1,390.0	70,056	11,130.0	560,952	28,005.7	1,411,485
13	Constructed Stormwater Wetlands	SF	62,378.0	299,414	115,903.0	556,334	239,602.6	1,150,092	50,235.0	241,128	48,765.0	234,072	516,883.6	2,481,041
14	(Stabilized) Construction Entrance	EACH	3.0	8,400	4.0	11,200	6.3	17,752	2.0	5,600	5.0	14,000	20.3	56,952
15	Crushed Surfacing Base Course	TON	10,970.0	142,610	13,750.0	178,750	46,030.0	598,390	29,070.0	377,910	43,980.0	571,740	143,800.0	1,869,400
16	Culverts Pipe	LF	280.0	23,520	535.0	44,940	1,416.8	119,013	335.0	28,140	962.5	80,850	3,529.3	296,463
17	Detention Pond	SF	-	-	46,197.0	184,788	-	-	-	-	-	-	46,197.0	184,788
18	Drainage Ditch Excavation	LF	10,820.0	251,024	5,833.0	135,326	17,726.5	411,254	15,470.0	358,904	15,920.0	369,344	65,769.5	1,525,852
19	Ecology Embankment	LF	-	-	-	-	6,860.0	246,960	-	-	2,942.5	105,930	9,802.5	352,890
20	Embankment Compaction	CY	152,400.0	304,800	294,240.0	588,480	1,012,530.0	2,025,060	475,580.0	951,160	941,270.0	1,882,540	2,876,020.0	5,752,040
21	Erosion Control Seeding, Fertilizing and Mulching	AC	495.0	1,970,892	480.0	1,911,168	686.0	2,731,312	173.8	692,002	180.5	718,679	2,015.3	8,024,053
22	Hot Mix Asphalt	TON	21,880.0	1,531,600	27,420.0	1,919,400	91,810.0	6,426,700	57,990.0	4,059,300	87,730.0	6,141,100	286,830.0	20,078,100
23	Illumination System	LS	1.0	104,000	1.0	144,000	1.0	1,672,000	1.0	224,000	0.5	388,000	4.5	2,532,000
24	(Permanent) Impact Attenuators	EACH	2.0	40,000	2.0	40,000	5.0	100,000	2.0	40,000	5.0	100,000	16.0	320,000
25	Interurban Trail Connection	LS	-	-	-	-	1.0	736,955	-	-	-	-	1.0	736,955
26	(Traffic Data Accumulation) ITS	LS	1.0	272,000	1.0	136,000	1.0	1,776,000	1.0	424,000	0.5	268,000	4.5	2,876,000
27	Landscaping		-	-	-	-	-	-	-	-	-	-	-	-
	Corridor Native Mix - 5' O.C.	AC	26.0	1,236,456	-	-	0.7	34,944	3.0	142,668	4.4	206,869	34.1	1,620,937
	Enhanced Mix - 5' O.C.	AC	1.2	77,097	2.4	154,193	0.9	57,294	1.2	77,097	1.3	80,309	6.9	445,990
	Seed Mix with 20% Trees	AC	-	-	12.3	348,090	20.7	585,091	29.0	820,700	24.3	687,690	86.3	2,441,571
28	Level Spreader	EACH	-	-	5.0	7,084	1.0	1,417	-	-	-	-	6.0	8,501

SR 167 Gateway Future Phase (Ful 4-lane)
 Summary of Quantities and Cost Estimate

Tab #	BID ITEM	UNITS	Area 1		Area 2		Area 3		Area 4		Area 5		Total	
			Quantity	Total Cost	Quantity	Total Cost	Quantity	Total Cost	Quantity	Total Cost	Quantity	Total Cost	Quantity	Total Cost
29	Noise Wall Wall type	SF	-	-	-	-	-	-	-	-	14,400.0	426,240	14,400.0	426,240
30	Overbank Excavation	CY	-	-	-	-	-	-	-	-	-	-	-	-
31	Pavement Markings	LF	38,440.0	33,827	27,190.0	23,927	275,400.0	242,352	85,780.0	75,486	134,150.0	118,052	560,960.0	493,645
32	Removable Bollards	EACH	1.0	600	2.0	1,200	2.0	1,200	-	-	-	-	5.0	3,000
33	Remove Existing Bridge	SF	-	-	1,476.0	75,571	-	-	-	-	-	-	1,476.0	75,571
34	Removing Asphalt Concrete Pavement	SY	31,567.0	75,761	15,610.0	37,464	24,700.0	59,280	-	-	33,620.0	80,688	105,497.0	253,193
35	Retaining Wall Aesthetic Treatment	SF	3,200.0	10,240	27,000.0	86,400	350.2	1,120	-	-	420.5	1,346	30,970.7	99,106
36	Retaining Walls	SF	3,200.0	129,600	27,000.0	1,093,500	9,420.0	381,510	-	-	88,212.0	3,572,586	127,832.0	5,177,196
37	Roadway Excavation	CY	57,980.0	481,234	11,960.0	99,268	134,690.0	1,117,927	24,390.0	202,437	46,020.0	381,966	275,040.0	2,282,832
38	(Chain Link) ROW Fence type	LF	6,086.0	46,254	7,945.0	60,382	11,327.6	86,090	10,490.0	79,724	13,787.5	104,785	49,636.1	377,234
39	RRP - Lower Hylebos	LS	-	-	-	-	-	-	-	-	-	-	-	-
40	RRP - Upper Hylebos	LS	-	-	-	-	-	-	-	-	-	-	-	-
41	RRP - SLT	LS	-	-	-	-	-	-	-	-	-	-	-	-
42	RRP - Wapato	LS	-	-	-	-	-	-	-	-	-	-	-	-
43	(Permanent) Signing	LS	1.0	260,800	1.0	256,000	1.0	1,483,200	1.0	331,200	0.5	544,000	4.5	2,875,200
44	Storm Sewer System	LF	2,632.0	227,405	3,700.0	319,680	13,056.4	1,128,070	4,641.7	401,040	6,570.0	567,648	30,600.0	2,643,842
45	Structure and Obstruction Removal	SF	57,270.0	229,080	99,875.0	399,500	171,858.6	687,434	-	-	41,515.0	166,060	370,518.6	1,482,074
46	Temporary Bridge Structure	SF	-	-	-	-	-	-	-	-	-	-	-	-
47	Temporary Work Bridge	SF	-	-	-	-	-	-	-	-	-	-	-	-
48	Traffic Signal System	LS	-	-	1.0	96,000	1.0	384,000	1.0	216,000	0.5	152,000	3.5	848,000
49	Utilities Relocation	LS	1.0	6,936,072	1.0	1,987,040	1.0	6,862,556	1.0	1,046,048	0.5	643,960	4.5	17,475,676
50	Water Quality Vault	EACH	-	-	-	-	-	-	-	-	-	-	-	-
51	Wheel Wash & On Site Haul Route	EACH	3.0	28,800	4.0	38,400	1.3	12,826	2.0	19,200	5.0	48,000	15.3	147,226
52	Widen Existing Bridge	SF	-	-	-	-	-	-	-	-	-	-	-	-
53	Work Zone Traffic Control	LS	1.0	1,024,000	1.0	624,000	1.0	3,072,000	1.0	1,024,000	0.5	768,000	4.5	6,512,000
54	Soil Improvement	SF	270,444.0	3,678,038	43,075.0	585,820	255,423.3	3,473,757	97,867.0	1,330,991	133,531.0	1,816,022	800,340.3	10,884,628
55	Surcharge Material Re-handle	CY	66,448.4	318,952	-	-	11,636.3	55,854	29,682.2	142,475	4,778.4	22,936	112,545.4	540,218
			Area 1 Total:	31,581,592	Area 2 Total:	21,292,059	Area 3 Total:	264,510,966	Area 4 Total:	88,543,036	Area 5 Total:	65,937,635	Total:	471,865,289
7-15% Allowances (12.0%)				3,789,791		2,555,047		31,741,316		10,625,164		7,912,516		56,623,835
Grand Total (minus PE):				35,371,383		23,847,106		296,252,282		99,168,200		73,850,151		528,489,123

APPENDIX H.2 – PRODUCTION-BASED ESTIMATES

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BID TOTALS

<u>Biditem</u>	<u>Description</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Bid Total</u>
SECTION 10: I-5 PREPARATION					
10100	Clearing and Grubbing	59.200	AC	6,790.00	401,968.00
10200	Removal of Structures and Obstructions	1.000	LS	1,650,000.00	1,650,000.00
SECTION 11: I-5 GRADING					
11100	Roadway Excavation	1,048,307.000	CY	18.00	18,869,526.00
11200	Gravel Borrow Including Haul	134,850.000	TN	14.00	1,887,900.00
11300	Embankment Compaction	72,892.000	CY	4.50	328,014.00
SECTION 12: I-5 STORM SEWER & DRAINAGE					
12200	Storm Sewer System	1.000	LS	11,524,500.00	11,524,500.00
SECTION 13: I-5 STRUCTURES					
13111	SB/NB 216th St. U-ing - Concrete Girder	23,000.000	SF	220.00	5,060,000.00
13121	S 231st Way Overcrossing - Slab w/Pile Wall Abut	15,630.000	SF	213.00	3,329,190.00
13122	SR 509 SB HOV Overcrossing - Slab w/Pile Wall Abut	43,290.000	SF	214.00	9,264,060.00
13123	SR 509 NB Overcrossing - Slab w/Pile Wall Abut	32,425.000	SF	218.00	7,068,650.00
13206	BR 5/511 W Widening - Concrete Girder	6,740.000	SF	293.00	1,974,820.00
13207	BR 5/511 E Widening - Concrete Girder	2,560.000	SF	352.00	901,120.00
13301	I-5 NB Median - MSE Wall #6	1,298.000	SF	71.00	92,158.00
13302	I-5 NB Median - MSE Wall #7	23,924.000	SF	53.00	1,267,972.00
13303	I-5 NB Median - MSE Wall #8	16,879.000	SF	54.50	919,905.50
13304	I-5 NB Median - MSE Wall #9	12,161.000	SF	57.50	699,257.50
13305	I-5 NB Median - MSE Wall #10	30,000.000	SF	50.00	1,500,000.00
13306	I-5 NB Median - MSE Wall #11	35,150.000	SF	72.00	2,530,800.00
13321	I-5 SB Off Ramp to SR 516 - Soldier Pile w/Tieback	35,490.000	SF	177.00	6,281,730.00
13323	I-5 NB/SR 509 NB East Side- Soldier Pile w/Tieback	13,980.000	SF	157.00	2,194,860.00
13324	I-5 NB/SR 509 NB West Side- Soldier Pile w/Tieback	20,350.000	SF	156.00	3,174,600.00
13400	Retaining Wall Aesthetics	189,232.000	SF	2.50	473,080.00
13500	Noise Walls	400,474.000	SF	35.50	14,216,827.00
SECTION 14: I-5 SURFACING					
14100	Crushed Surfacing Base Course	39,859.000	TON	27.25	1,086,157.75
SECTION 15: I-5 CEMENT CONCRETE PAVEMENT					
15100	Cement Concrete Pavement	38,488.000	CY	181.00	6,966,328.00
15200	Corrosion Resistant Dowel Bars	88,308.000	EA	38.00	3,355,704.00
SECTION 16: I-5 ASPHALT CONCRETE PAVEMENT					
16200	Hot Mix Asphalt	61,234.000	TN	68.50	4,194,529.00
SECTION 17: I-5 EROSION CONTROL AND PLANTING					
17010	Temporary Erosion and Sedimentation Control	1.000	LS	2,630,496.00	2,630,496.00
17030	Stabilized Construction Entrances	6.000	EA	4,210.00	25,260.00
17050	Erosion Control - Wetland Buffer	3.000	AC	125,543.00	376,629.00

BID TOTALS

<u>Biditem</u>	<u>Description</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Bid Total</u>
17060	Landscaping - Roadside Restoration	66.000	AC	88,880.00	5,866,080.00
17070	Wheel Wash and On-site Haul Route	3.000	EA	11,835.00	35,505.00

SECTION 18: I-5 TRAFFIC

18010	Single Slope Concrete Barrier	10,631.000	LF	45.50	483,710.50
18040	Beam Guardrail	2,774.000	LF	22.00	61,028.00
18050	Beam Guardrail Terminal	4.000	EA	1,667.00	6,668.00
18060	Pavement Markings	186,466.000	LF	2.00	372,932.00
18090	Permanent Signing	1.000	LS	1,666,500.00	1,666,500.00
18100	Illumination System	1.000	LS	4,444,000.00	4,444,000.00
18110	Traffic Signal System	1.000	LS	1,555,400.00	1,555,400.00
18120	Chain Link Fence Type 3	20,287.000	LF	11.00	223,157.00
18140	Plastic HOV Lane Symbol	28.000	EA	222.00	6,216.00
18150	Temporary ITS System	1.000	LS	1,023,000.00	1,023,000.00
18160	Permanent ITS System	1.000	LS	971,300.00	971,300.00
18170	Ramp Meter	1.000	LS	110,000.00	110,000.00
18450	Maintenance of Traffic	1.000	LS	7,627,070.00	7,627,070.00
18460	Construction Staging	1.000	LS	5,435,859.00	5,435,859.00
18510	ATM/ITS System & Gantries	1.000	LS	5,390,000.00	5,390,000.00
18600	Civil Roadside Toll Equipment	1.000	LS	5,313,000.00	5,313,000.00
18700	Toll Collection Equipment	1.000	LS	1,716,000.00	1,716,000.00
18800	Toll Software Vendor	1.000	LS	1,540,000.00	1,540,000.00

SECTION 19: I-5 OTHER

19010	Unquantified Roadway Items (20% Sections 1-18)	1.000	LS	31,602,756.00	31,602,756.00
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SUBTOTAL: I-5 Portion of Project

\$189,696,223.25

SECTION 10: SR 509 PREPARATION

20100	Clearing and Grubbing	72.900	AC	6,746.00	491,783.40
20200	Removal of Structures and Obstructions	1.000	LS	1,650,000.00	1,650,000.00

SECTION 11: SR 509 GRADING

21100	Roadway Excavation	701,298.000	CY	15.00	10,519,470.00
21200	Gravel Borrow Including Haul	1,252,785.000	TN	7.80	9,771,723.00
21300	Embankment Compaction	677,181.000	CY	3.75	2,539,428.75

SECTION 12: SR 509 STORM SEWER & DRAINAGE

22200	Storm Sewer System	1.000	LS	14,205,311.00	14,205,311.00
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SECTION 13: SR 509 STRUCTURES

23101	28th/24th Undercrossing - Concrete Girder	23,633.000	SF	224.00	5,293,792.00
23102	SB Wetland B Overcrossing - Concrete Girder	18,619.000	SF	187.00	3,481,753.00
23103	NB Wetland B Overcrossing - Concrete Girder	76,769.000	SF	166.00	12,743,654.00
23104	S 211th St Undercrossing - Concrete Girder	5,890.000	SF	237.00	1,395,930.00

BID TOTALS

<u>Biditem</u>	<u>Description</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Bid Total</u>
23131	SR 99 Undercrossing - Concrete Box Bridge	24,000.000	SF	201.00	4,824,000.00
23132	NB S 200th St Overcrossing - Concrete Box Bridge	26,662.000	SF	196.00	5,225,752.00
23133	NB DMM Dr. S Overcrossing - Concrete Box Bridge	13,484.000	SF	220.00	2,966,480.00
23134	S 192nd St. Undercrossing - Concrete Box Bridge	15,704.000	SF	215.00	3,376,360.00
23135	NB S 188th Way Overcrossing - Concrete Box Bridge	6,598.000	SF	211.00	1,392,178.00
23141	NB FL/Wet A Overcrossing - Steel Box Bridge	57,344.000	SF	264.00	15,138,816.00
23301	SR 509 NB - MSE Wall 18	25,499.000	SF	51.00	1,300,449.00
23302	SR 509 B Line - MSE	12,299.000	SF	57.00	701,043.00
23303	SR 509 FS Line - MSE	12,648.000	SF	57.00	720,936.00
23321	SR 509 NB Line - Soldier Pile	17,857.000	SF	163.00	2,910,691.00
23400	Retaining Wall Aesthetics	68,303.000	SF	2.50	170,757.50
23500	Noise Walls	43,896.000	SF	35.50	1,558,308.00

SECTION 14: SR 509 SURFACING

24100	Crushed Surfacing Base Course	27,188.000	TN	24.75	672,903.00
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SECTION 15: SR 509 CEMENT CONCRETE PAVEMENT

25100	Cement Concrete Pavement	25,591.000	CY	179.00	4,580,789.00
25200	Dowel Bars	35,129.000	EA	38.00	1,334,902.00

SECTION 16: SR 509 ASPHALT CONCRETE PAVEMENT

26200	Hot Mix Asphalt	29,795.000	TN	67.50	2,011,162.50
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SECTION 17: SR 509 EROSION CONTROL AND PLANTING

27010	Temporary Erosion and Sedimentation Control	1.000	LS	2,687,800.00	2,687,800.00
27030	Stabilized Construction Entrances	8.000	EA	8,690.00	69,520.00
27050	Erosion Control - Wetland Buffer	3.000	AC	125,543.00	376,629.00
27060	Landscaping - Roadside Restoration	67.000	AC	88,880.00	5,954,960.00
27070	Wheel Wash and On-site Haul Route	4.000	EA	12,060.00	48,240.00

SECTION 18: SR 509 TRAFFIC

28010	Single Slope Concrete Barrier	17,781.000	LF	45.00	800,145.00
28040	Beam Guardrail	3,055.000	LF	22.00	67,210.00
28050	Beam Guardrail Terminal	5.000	EA	1,666.50	8,332.50
28060	Pavement Markings	112,243.000	LF	1.85	207,649.55
28090	Permanent Signing	1.000	LS	1,111,000.00	1,111,000.00
28100	Illumination System	1.000	LS	4,999,500.00	4,999,500.00
28110	Traffic Signal System	1.000	LS	1,666,500.00	1,666,500.00
28120	Chain Link Fence Type 3	14,466.000	LF	11.00	159,126.00
28450	Maintenance of Traffic	1.000	LS	4,897,897.00	4,897,897.00
28460	Construction Staging	1.000	LS	3,677,586.00	3,677,586.00

SECTION 19: SR 509 OTHER

29010	Unquantified Roadway Items (20% Sections 1-18)	1.000	LS	27,558,015.00	27,558,015.00
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SUBTOTAL: SR 509 Section

\$165,268,482.20

BID TOTALS

<u>Biditem</u>	<u>Description</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Bid Total</u>
INDIRECTS & OVERHEAD					
900009010	ADMINISTRATIVE SALARIES	1.000	LS	14,601,970.00	14,601,970.00
900009030	FIELD OPERATIONS AND WAGES	1.000	LS	12,095,198.00	12,095,198.00
900009050	ADMINISTRATIVE/OFFICE EXPENSES	1.000	LS	2,862,794.00	2,862,794.00
900009070	AGENCY FACILITIES	1.000	LS	874,929.00	874,929.00
900009090	CONTRACTOR OFFICE AND YARD	1.000	LS	3,760,084.00	3,760,084.00
900009110	YARD OPERATIONS AND PROJECT VEHICLES	1.000	LS	3,098,136.00	3,098,136.00
900009130	EQUIPMENT MAINTENANCE	1.000	LS	1,898,584.00	1,898,584.00
900009150	GENERAL PROJECT EXP & FACILITIES	1.000	LS	1,367,333.00	1,367,333.00
900009170	PROJECT INSURANCES	1.000	LS	5,665,000.00	5,665,000.00
900009210	ESCALATION	1.000	LS	11,700,186.50	11,700,186.50
900009230	EQUIPMENT IN AND OUT	1.000	LS	603,465.00	603,465.00
900009235	BOND and B&O TAX	1.000	LS	8,100,314.00	8,100,314.00
SUBTOTAL: INDIRECTS AND OVERHEADS					\$66,627,993.50
SUBTOTAL: CONSTRUCTION					\$421,592,698.95
INFLATION ADJUSTMENT					
905009010	INFLATION TO YEAR OF CONSTRUCTION	1.000	LS	31,071,382.00	31,071,382.00
SUBTOTAL: INFLATION ADJUSTMENT					\$31,071,382.00
DESIGN AND OWNER COSTS					
910009010	CN ENGINEERING AT 8%	1.000	LS	33,727,410.00	33,727,410.00
910009020	PRELIMINARY ENGINEERING AT 5%	1.000	LS	21,079,631.00	21,079,631.00
910009030	CONTINGENCY AT 4%	1.000	LS	16,863,705.00	16,863,705.00
910009040	WASHINGTON STATE PATROL AT 0.1%	1.000	LS	421,593.00	421,593.00
910009050	FINAL DESIGN AT 8%	1.000	LS	33,727,410.00	33,727,410.00
SUBTOTAL: DESIGN AND OWNER COSTS					\$105,819,749.00
Bid Total =====>					\$558,483,829.95

**Notes:

BID TOTALS

<u>Biditem</u>	<u>Description</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Bid Total</u>
SECTION 10 - PREPARATION					
10200	Removal of Structures and Obstructions	1.000	LS	242,342.00	242,342.00
SECTION 12 - STORM SEWER & DRAINAGE					
12200	Storm Sewer System	2,632.000	LF	1,938.00	5,100,816.00
SECTION 16 - ASPHALT CONCRETE PAVEMENT					
16200	Pavment Reconstruction	51.000	MI	5,500.00	280,500.00
SECTION 17 - EROSION CONTROL					
17010	Temporary Erosion and Sedimentation Control	1.000	LS	1,172,385.00	1,172,385.00
SECTION 18 - TRAFFIC					
18060	Plastic Line	170,016.000	LF	1.65	280,526.40
18070	Plastic Wide Line	340,032.000	LF	3.05	1,037,097.60
18080	Plastic HOV Lane Symbol	304.000	EA	222.00	67,488.00
18450	Maintenance of Traffic	1.000	LS	1,831,562.00	1,831,562.00
SECTION 18.5 - TRAFFIC MGMT AND TOLL SYSTEM					
18600	ATM/ITS System	25.500	MI	319,436.00	8,145,618.00
18650	ATM/ITS Gantries	102.000	EA	55,550.00	5,666,100.00
18800	Civil Roadside Toll Equipment	1.000	LS	9,550,711.00	9,550,711.00
18850	Toll System Advanced Warning Signs	2.000	EA	444,400.00	888,800.00
18900	Decision Point Advanced Warning Signs	2.000	EA	179,982.00	359,964.00
SECTION 19 - OTHER					
19010	Unquantified Minor Roadway Items (% of Sections 1-	1.000	LS	6,925,925.00	6,925,925.00
SUBTOTAL: I-5 Convert HOV to ETL					\$41,549,835.00
SECTION 20: TOLL VENDOR/TOLL IMPLEMENTATION					
20100	Toll System Procurement	1.000	EA	1,500,000.00	1,500,000.00
20200	Investment Grade Traffic and Revenue Report	1.000	EA	1,500,000.00	1,500,000.00
20300	Toll Collection Design	1.000	LS	2,736,660.00	2,736,660.00
20400	Toll Collection Equipment	51.000	MI	600,992.00	30,650,592.00
20500	Toll Equipment Integration and Testing	1.000	LS	6,841,650.00	6,841,650.00
20600	Training and Spare Parts	1.000	LS	3,386,660.00	3,386,660.00
20700	Toll Vendor Markup	1.000	LS	4,443,656.00	4,443,656.00
SUBTOTAL: Toll Vendor					\$51,059,218.00

BID TOTALS

<u>Biditem</u>	<u>Description</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Bid Total</u>
SECTION 21: OWNER TOLL COSTS					
21100	FMAS Equipment	1.000	LS	100,000.00	100,000.00
21200	Customer Service Center	1.000	LS	1,250,000.00	1,250,000.00
21300	Marketing/Education Campaign	1.000	LS	2,250,000.00	2,250,000.00
21400	Toll Rate Setting	1.000	LS	750,000.00	750,000.00
21500	Toll System Implementation	1.000	LS	1,500,000.00	1,500,000.00

SUBTOTAL: Owner Toll Costs \$5,850,000.00

INDIRECTS AND OVERHEADS

900009010	ADMINISTRATIVE SALARIES	1.000	LS	1,520,635.00	1,520,635.00
900009030	FIELD OPERATIONS AND WAGES	1.000	LS	601,677.00	601,677.00
900009050	ADMINISTRATIVE/OFFICE EXPENSES	1.000	LS	477,123.00	477,123.00
900009070	AGENCY FACILITIES	1.000	LS	149,830.00	149,830.00
900009090	CONTRACTOR OFFICE AND YARD	1.000	LS	629,386.00	629,386.00
900009110	YARD OPERATIONS AND PROJECT VEHICLES	1.000	LS	403,396.00	403,396.00
900009130	EQUIPMENT MAINTENANCE	1.000	LS	12,045.00	12,045.00
900009170	PROJECT INSURANCES	1.000	LS	1,054,092.00	1,054,092.00
900009210	ESCALATION	1.000	LS		
900009230	EQUIPMENT IN AND OUT	1.000	LS	219,232.00	219,232.00
900009235	Bond and B&O TAX	1.000	LS	1,031,258.00	1,031,258.00

SUBTOTAL: INDIRECTS AND OVERHEAD \$6,098,674.00

SUBTOTAL: DIRECT CONSTRUCTION \$104,557,727.00

INFLATION ADJUSTMENT

905009010	INFLATION TO YEAR OF CONSTRUCTION	1.000	LS	7,705,904.00	7,705,904.00
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SUBTOTAL: INFLATION ADJUSTMENT \$7,705,904.00

DESIGN AND OWNER COSTS

910009010	CN ENGINEERING AT 8%	1.000	LS	8,364,923.00	8,364,923.00
910009020	PRELIMINARY ENGINEERING AT 5%	1.000	LS	2,382,616.00	2,382,616.00
910009030	CONTINGENCY AT 4%	1.000	LS	1,906,093.00	1,906,093.00

08/07/2013
RK15HOVETLR1

7:34
I-5 Gateway Convert HOVETLR1

BID TOTALS

<u>Biditem</u>	<u>Description</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Bid Total</u>
910009040	WASHINGTON STATE PATROL AT 0.1%	1.000	LS	47,652.00	47,652.00
910009050	FINAL DESIGN AT 8%	1.000	LS	3,812,186.00	3,812,186.00

SUBTOTAL: DESIGN AND OWNER COSTS \$16,513,470.00

Bid Total =====> \$128,777,101.00

**Notes:

BID TOTALS

<u>Biditem</u>	<u>Description</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Bid Total</u>
SECTION 10 - AREA 1 PREPARATION					
10100	Clearing and Grubbing	23.800	AC	3,450.00	82,110.00
10200	Removal of Structures and Obstructions	57,270.000	SF	2.00	114,540.00
10300	Remove Asphalt Concrete Pavement	31,567.000	SY	5.20	164,148.40
SECTION 11 - AREA 1 GRADING					
11050	Unsuitable Excavation	8,890.000	CY	15.00	133,350.00
11100	Roadway Excavation	49,090.000	CY	14.00	687,260.00
11200	Borrow Including Haul	384,000.000	TN	9.00	3,456,000.00
11300	Embankment Compaction	152,400.000	CY	4.00	609,600.00
11500	Soil Improvement - Pattern A	262,625.000	SF	2.75	722,218.75
11510	Soil Improvement - Pattern B	7,815.000	SF	3.85	30,087.75
11600	Surcharge Material Re-handle	35,919.000	CY	8.25	296,331.75
SECTION 12 - AREA 1 STORM SEWER & DRAINAGE					
12100	Pipe Culverts	280.000	LF	85.00	23,800.00
12200	Storm Sewer System	2,632.000	LF	109.00	286,888.00
12300	Drainage Ditch Excavation	10,820.000	LF	14.00	151,480.00
SECTION 13 - AREA 1 STRUCTURES					
13101	SR 167/Fife Ditch - Concrete Girder	9,360.000	SF	260.00	2,433,600.00
13102	SFR-1 - Concrete Girder	930.000	SF	286.00	265,980.00
13103	167/54 - Concrete Girder	8,320.000	SF	247.00	2,055,040.00
13131	S167/161 - Post Tensioned	10,840.000	SF	288.00	3,121,920.00
13300	MSE Retaining Walls	3,200.000	SF	68.50	219,200.00
13400	Retaining Wall Aesthetics	3,200.000	SF	2.50	8,000.00
SECTION 14 - AREA 1 SURFACING					
14100	Crushed Surfacing Base Course	10,970.000	TON	21.00	230,370.00
SECTION 16 - AREA 1 ASPHALT CONCRETE PAVEMENT					
16200	Hot Mix Asphalt	21,880.000	TN	68.75	1,504,250.00
SECTION 17 - AREA 1 EROSION CONTROL					
17010	Temporary Erosion and Sedimentation Control	1.000	LS	702,094.00	702,094.00
17020	Constructed Stormwater Wetlands	62,378.000	SF	2.75	171,539.50
17030	Stabilized Construction Entrances	3.000	EA	4,210.00	12,630.00
17050	Erosion Control - Seeding, Fertilizing, Landscapin	495.000	AC	3,555.00	1,759,725.00
17060	Landscaping	27.200	AC	60,450.00	1,644,240.00
17070	Wheel Wash and On-site Haul Route	3.000	EA	11,835.00	35,505.00
17120	CAVFS	85,659.000	SF	2.75	235,562.25
SECTION 18 - AREA 1 TRAFFIC					
18020	Precast Concrete Barrier Type 4	1,276.000	LF	46.00	58,696.00

BID TOTALS

<u>Biditem</u>	<u>Description</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Bid Total</u>
18040	Beam Guardrail	5,005.000	LF	22.00	110,110.00
18050	Beam Guardrail Terminal	15.000	EA	1,667.00	25,005.00
18060	Pavement Markings	39,970.000	LF	0.30	11,991.00
18090	Permanent Signing	1.000	LS	222,200.00	222,200.00
18100	Illumination System	1.000	LS	168,317.00	168,317.00
18120	Chain Link Fence Type 3	6,086.000	LF	11.00	66,946.00
18160	Permanent ITS System	1.000	LS	300,123.00	300,123.00
18180	Impact Attenuators - Permanent	2.000	EA	33,330.00	66,660.00
18190	Removable Bollards	1.000	EA	833.00	833.00
18450	Maintenance of Traffic	1.000	LS	1,528,123.00	1,528,123.00
18460	Construction Staging	1.000	LS	986,322.00	986,322.00

SECTION 19 - AREA 1 OTHER

19010	Unquantified Roadway Items (12% Sections 1-18)	1.000	LS	2,973,145.00	2,973,145.00
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SUBTOTAL: SR 167 AREA 1

\$27,675,941.40

SECTION 10 - AREA 2 PREPARATION

20100	Clearing and Grubbing	20.400	AC	4,550.00	92,820.00
20200	Removal of Structures and Obstructions	99,875.000	SF	2.00	199,750.00
20300	Removal of Asphalt Concrete Pavement	15,610.000	SY	5.00	78,050.00
20500	Bridge Removal	1,476.000	SF	28.00	41,328.00

SECTION 11 - AREA 2 GRADING

21050	Unsuitable Excavation	11,150.000	CY	15.00	167,250.00
21100	Roadway Excavation	810.000	CY	170.00	137,700.00
21200	Borrow Including Haul	631,860.000	TN	8.80	5,560,368.00
21300	Embankment Compaction	294,240.000	CY	4.00	1,176,960.00
21500	Soil Improvement Pattern A	38,080.000	SF	2.75	104,720.00
21510	Soil Improvement Pattern B	5,000.000	SF	4.00	20,000.00

SECTION 12 - AREA 2 STORM SEWER & DRAINAGE

22100	Pipe Culverts	535.000	LF	82.00	43,870.00
22200	Storm Sewer System	3,700.000	LF	108.00	399,600.00
22300	Drainage Ditch Excavation	5,833.000	LF	14.00	81,662.00
22500	Detention Pond	46,197.000	SF	3.50	161,689.50

SECTION 13 - AREA 2 STRUCTURES

23101	167/12 - Concrete Girder	14,830.000	SF	250.00	3,707,500.00
23300	MSE Retaining Walls	27,000.000	SF	52.00	1,404,000.00
23400	Retaining Wall Aesthetics	27,000.000	SF	2.50	67,500.00

SECTION 14 - AREA 2 SURFACING

24100	Crushed Surfacing Base Course	13,750.000	TN	21.00	288,750.00
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BID TOTALS

<u>Biditem</u>	<u>Description</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Bid Total</u>
SECTION 16 - AREA 2 ASPHALT CONCRETE PAVEMENT					
26200	Hot Mix Asphalt	27,420.000	TN	68.50	1,878,270.00
SECTION 17: AREA 2 EROSION CONTROL AND PLANTING					
27010	Temporary Erosion and Sedimentation Control	1.000	LS	377,048.00	377,048.00
27020	Constructed Stormwater Wetlands	115,903.000	SF	2.75	318,733.25
27030	Stabilized Construction Entrances	4.000	EA	4,345.00	17,380.00
27050	Erosion Control - Seeding, Fertilizing, Landscape	482.700	AC	3,555.00	1,715,998.50
27060	Landscaping	14.700	AC	39,849.00	585,780.30
27070	Wheel Wash and On-site Haul Route	4.000	EA	12,060.00	48,240.00
27120	CAVFS	43,202.000	SF	2.75	118,805.50
SECTION 18: AREA 2 TRAFFIC					
28020	Precast Concrete Barrier Type 4	3,545.000	LF	45.00	159,525.00
28060	Pavement Markings	27,190.000	LF	0.29	7,885.10
28090	Permanent Signing	1.000	LS	190,648.00	190,648.00
28100	Illumination System	1.000	LS	333,855.00	333,855.00
28110	Traffic Signal System	1.000	LS	166,650.00	166,650.00
28120	Chain Link Fence Type 3	7,945.000	LF	11.00	87,395.00
28160	Permanent ITS System	1.000	LS	145,879.00	145,879.00
28180	Impact Attenuators - Permanent	2.000	EA	33,330.00	66,660.00
28190	Removeable Bollards	2.000	EA	833.00	1,666.00
28450	Maintenance of Traffic	1.000	LS	952,590.00	952,590.00
28460	Construction Staging	1.000	LS	737,937.00	737,937.00
SECTION 19: AREA 2 OTHER					
29010	Unquantified Roadway Items (12% Sections 1-18)	1.000	LS	2,566,363.00	2,566,363.00
SUBTOTAL: SR 167 AREA 2					\$24,210,826.15

SECTION 10 - AREA 3 PREPARATION

30100	Clearing and Grubbing	73.100	AC	4,100.00	299,710.00
30200	Removal of Structures and Obstructions	333,963.000	SF	2.00	667,926.00
30300	Removal of Asphalt Concrete Pavement	24,700.000	SY	5.25	129,675.00

SECTION 11 - AREA 3 GRADING

31050	Unsuitable Excavation	25,640.000	CY	15.00	384,600.00
31100	Roadway Excavation	89,930.000	CY	14.50	1,303,985.00
31200	Borrow Including Haul	1,167,890.000	TN	9.00	10,511,010.00
31300	Embankment Compaction	551,820.000	CY	3.80	2,096,916.00
31500	Soil Improvement Pattern A	217,110.000	SF	2.75	597,052.50
31510	Soil Improvement Pattern B	38,313.000	SF	3.85	147,505.05
31600	Surcharge Material Re-Handle	18,832.000	CY	8.50	160,072.00
31700	Ecology Embankment	6,860.000	CY	12.50	85,750.00

BID TOTALS

<u>Biditem</u>	<u>Description</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Bid Total</u>
SECTION 12 - AREA 3 STORM SEWER & DRAINAGE					
32100	Pipe Culverts	1,417.000	LF	83.00	117,611.00
32200	Storm Sewer System	13,056.000	LF	108.00	1,410,048.00
32300	Drainage Ditch Excavation	17,727.000	CY	13.30	235,769.10
32400	Channel Excavation	25,135.000	CY	23.00	578,105.00
32500	Channel Improvements	12,315.000	LF	127.00	1,564,005.00
32600	Overbank Excavation	341,235.000	CY	20.00	6,824,700.00
SECTION 13 - AREA 3 STRUCTURES					
33102	167-N5 - Concrete Girder	39,940.000	SF	219.00	8,746,860.00
33103	70/5 - Concrete Girder	49,860.000	SF	152.00	7,578,720.00
33104	N167/26 - Concrete Girder	8,980.000	SF	247.00	2,218,060.00
33105	N167/5 - Concrete Girder	346,770.000	SF	149.00	51,668,730.00
33106	Porter/5 - Concrete Girder	31,600.000	SF	160.00	5,056,000.00
33108	S5/167 - Concrete Girder	33,980.000	SF	198.00	6,728,040.00
33109	N5/HCR	9,850.000	SF	247.00	2,432,950.00
33110	S5/HCR	9,480.000	SF	254.00	2,407,920.00
33115	70/5 - Reinforced Concrete Box	18,710.000	SF	203.00	3,798,130.00
33150	SR99 over Hylebos - Concrete Girder	6,900.000	SF	241.00	1,662,900.00
33151	S167-N5/HCR - Concrete Girder	17,350.000	SF	276.00	4,788,600.00
33152	I-5 Hylebos - Temp - Concrete Girder	8,910.000	SF	277.00	2,468,070.00
33153	12th - (1) - Concrete Girder	5,390.000	SF	250.00	1,347,500.00
33201	N5/HYL Widening - Concrete	5,030.000	SF	291.00	1,463,730.00
33202	S5/HYL Widening - Concrete	5,920.000	SF	279.00	1,651,680.00
33300	MSE Retaining Walls	9,420.000	SF	54.00	508,680.00
33400	Retaining Wall Aesthetics	350.000	SF	2.50	875.00
SECTION 14 - AREA 3 SURFACING					
34100	Crushed Surfacing Base Course	31,630.000	TN	21.00	664,230.00
SECTION 16 - AREA 3 ASPHALT CONCRETE PAVEMENT					
36200	Hot Mix Asphalt	63,080.000	TN	68.00	4,289,440.00
SECTION 17: AREA 3 EROSION CONTROL AND PLANTING					
37010	Temporary Erosion and Sedimentation Control	1.000	LS	2,586,034.00	2,586,034.00
37020	Constructed Stormwater Wetlands	239,603.000	SF	2.75	658,908.25
37030	Stabilized Construction Entrances	11.000	EA	4,500.00	49,500.00
37050	Erosion Control - Seeding, Fertilizing, Landscape	688.000	AC	3,555.00	2,445,840.00
37060	Landscaping	22.300	AC	32,000.00	713,600.00
37070	Wheel Wash and On-site Haul Route	4.000	EA	12,060.00	48,240.00
37120	CAVFS	157,363.000	SF	2.75	432,748.25
37200	RRP - Lower Hylebos	26.000	AC	69,400.00	1,804,400.00
37300	RRP - Upper Hylebos	56.000	AC	134,275.00	7,519,400.00
37400	RRP - SLT	39.100	AC	117,400.00	4,590,340.00
SECTION 18: AREA 3 TRAFFIC					
38020	Precast Concrete Barrier Type 4	10,715.000	LF	46.00	492,890.00

BID TOTALS

<u>Biditem</u>	<u>Description</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Bid Total</u>
38040	Beam Guardrail	15,591.000	LF	20.00	311,820.00
38050	Beam Guardrail Terminal	25.000	EA	1,667.00	41,675.00
38060	Pavement Markings	206,790.000	LF	0.30	62,037.00
38090	Permanent Signing	1.000	LS	1,197,436.00	1,197,436.00
38100	Illumination System	1.000	LS	4,255,130.00	4,255,130.00
38110	Traffic Signal System	1.000	LS	499,950.00	499,950.00
38120	Chain Link Fence Type 3	11,328.000	LF	11.00	124,608.00
38160	Permanent ITS System	1.000	LS	477,148.00	477,148.00
38180	Impact Attenuators - Permanent	5.000	EA	33,330.00	166,650.00
38190	Removeable Bollards	2.000	EA	833.00	1,666.00
38450	Maintenance of Traffic	1.000	LS	6,109,770.00	6,109,770.00
38460	Construction Staging	1.000	LS	4,849,404.00	4,849,404.00

SECTION 19: AREA 3 OTHER

39010	Unquantified Roadway Items (12% Sections 1-18)	1.000	LS	21,191,497.00	21,191,497.00
39020	Interurban Trail	1.000	LS	615,076.00	615,076.00

SUBTOTAL: SR 167 AREA 3

\$197,841,322.15

SECTION 10 - AREA 4 PREPARATION

40100	Clearing and Grubbing	30.000	AC	3,518.00	105,540.00
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SECTION 11 - AREA 4 GRADING

41050	Unsuitable Excavation	17,590.000	CY	14.75	259,452.50
41100	Roadway Excavation	820.000	CY	203.00	166,460.00
41200	Borrow Including Haul	1,033,180.000	TN	8.95	9,246,961.00
41300	Embankment Compaction	475,580.000	CY	4.00	1,902,320.00
41500	Soil Improvement Pattern A	83,187.000	SF	2.75	228,764.25
41510	Soil Improvement Pattern B	14,680.000	SF	3.85	56,518.00
41600	Surcharge Material Re-Handle	16,043.000	CY	8.00	128,344.00

SECTION 12 - AREA 4 STORM SEWER & DRAINAGE

42100	Pipe Culverts	335.000	LF	82.00	27,470.00
42200	Storm Sewer System	4,642.000	LF	106.00	492,052.00
42300	Drainage Ditch Excavation	15,470.000	LF	13.50	208,845.00
42700	Combined Detention and Treatment Pond	146,900.000	SF	3.20	470,080.00

SECTION 13 - AREA 4 STRUCTURES

43101	N167/VA - Concrete Girder	125,380.000	SF	146.00	18,305,480.00
43141	N167/VA-B - Steel Plate Girder	43,260.000	SF	276.00	11,939,760.00

SECTION 14 - AREA 4 SURFACING

44100	Crushed Surfacing Base Course	21,700.000	TN	20.50	444,850.00
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BID TOTALS

<u>Biditem</u>	<u>Description</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Bid Total</u>
SECTION 16 - AREA 4 ASPHALT CONCRETE PAVEMENT					
46200	Hot Mix Asphalt	43,270.000	TN	68.00	2,942,360.00
SECTION 17: AREA 4 EROSION CONTROL AND PLANTING					
47010	Temporary Erosion and Sedimentation Control	1.000	LS	1,274,850.00	1,274,850.00
47020	Constructed Stormwater Wetlands	30,158.000	SF	2.75	82,934.50
47030	Stabilized Construction Entrances	2.000	EA	4,345.00	8,690.00
47050	Erosion Control - Seeding, Fertilizing, Landscape	174.000	AC	3,555.00	618,570.00
47060	Landscaping	33.200	AC	33,442.00	1,110,274.40
47070	Wheel Wash and On-site Haul Route	2.000	EA	11,835.00	23,670.00
47120	CAVFS	107,913.000	SF	2.75	296,760.75
47200	RRP - Wapato	65.200	AC	80,300.00	5,235,560.00
SECTION 18: AREA 4 TRAFFIC					
48020	Precast Concrete Barrier Type 4	1,390.000	LF	46.00	63,940.00
48040	Beam Guardrail	5,570.000	LF	22.00	122,540.00
48050	Beam Guardrail Terminal	4.000	EA	1,667.00	6,668.00
48060	Pavement Markings	60,480.000	LF	0.30	18,144.00
48090	Permanent Signing	1.000	LS	367,074.00	367,074.00
48100	Illumination System	1.000	LS	304,969.00	304,969.00
48110	Traffic Signal System	1.000	LS	333,300.00	333,300.00
48120	Chain Link Fence Type 3	10,490.000	LF	11.00	115,390.00
48160	Permanent ITS System	1.000	LS	714,656.00	714,656.00
48180	Impact Attenuators - Permanent	2.000	EA	33,330.00	66,660.00
48450	Maintenance of Traffic	1.000	LS	3,152,650.00	3,152,650.00
48460	Construction Staging	1.000	LS	3,758,462.00	3,758,462.00
SECTION 19: AREA 4 OTHER					
49010	Unquantified Roadway Items (12% Sections 1-18)	1.000	LS	7,745,158.00	7,745,158.00

SUBTOTAL: SR 167 AREA 4

\$72,346,177.40

SECTION 10 - AREA 5 PREPARATION

50100	Clearing and Grubbing	64.000	AC	3,506.00	224,384.00
50200	Removal of Structures and Obstructions	41,415.000	SF	2.00	82,830.00
50300	Remove Asphalt Concrete Pavement	33,620.000	SY	5.00	168,100.00

SECTION 11 - AREA 5 GRADING

51050	Unsuitable Excavation	32,100.000	CY	15.00	481,500.00
51100	Roadway Excavation	9,890.000	CY	43.00	425,270.00
51200	Borrow Including Haul	2,057,440.000	TN	9.25	19,031,320.00
51300	Embankment Compaction	959,350.000	CY	4.25	4,077,237.50
51500	Soil Improvement Pattern A	113,501.000	SF	2.75	312,127.75
51510	Soil Improvement Pattern B	20,030.000	SF	3.85	77,115.50

BID TOTALS

<u>Biditem</u>	<u>Description</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Bid Total</u>
51600	Surcharge Material Re-handle	5,168.000	CY	8.00	41,344.00
51700	Ecology Embankment	2,943.000	LF	9.00	26,487.00
SECTION 12 - AREA 5 STORM SEWER & DRAINAGE					
52100	Pipe Culverts	963.000	LF	81.00	78,003.00
52200	Storm Sewer System	6,570.000	LF	104.00	683,280.00
52300	Drainage Ditch Excavation	15,920.000	LF	13.50	214,920.00
52700	Combined Detention and Treatment Pond	367,205.000	SF	3.25	1,193,416.25
SECTION 13 - AREA 5 STRUCTURES					
53101	N167/MWK - Concrete Girder	17,550.000	SF	250.00	4,387,500.00
53131	N167/161 - Post Tensioned	14,160.000	SF	233.00	3,299,280.00
53140	161/Puyallup River	42,658.000	SF	351.00	14,972,958.00
53300	MSE Retaining Walls	88,212.000	SF	48.00	4,234,176.00
53400	Retaining Wall Aesthetics	421.000	SF	2.50	1,052.50
53500	Noise Wall	14,400.000	SF	44.00	633,600.00
SECTION 14 - AREA 5 SURFACING					
54100	Crushed Surfacing Base Course	39,480.000	TN	20.00	789,600.00
SECTION 16 - AREA 5 ASPHALT CONCRETE PAVEMENT					
56200	Hot Mix Asphalt	78,750.000	TN	67.50	5,315,625.00
SECTION 17: AREA 5 EROSION CONTROL AND PLANTING					
57010	Temporary Erosion and Sedimentation Control	1.000	LS	1,558,368.00	1,558,368.00
57020	Constructed Stormwater Wetlands	48,765.000	SF	2.75	134,103.75
57030	Stabilized Construction Entrances	6.000	EA	4,345.00	26,070.00
57040	Bio Infiltration Swale	1,573.000	LF	17.00	26,741.00
57050	Erosion Control - Seeding, Fertilizing, Landscape	181.000	AC	3,555.00	643,455.00
57060	Landscaping	30.000	AC	33,100.00	993,000.00
57070	Wheel Wash and On-site Haul Route	7.000	EA	12,060.00	84,420.00
57120	CAVFS	100,825.000	SF	2.75	277,268.75
SECTION 18: AREA 5 TRAFFIC					
58020	Precast Concrete Barrier Type 4	11,130.000	LF	46.00	511,980.00
58040	Beam Guardrail	11,589.000	LF	20.00	231,780.00
58050	Beam Guardrail Terminal	21.000	EA	1,667.00	35,007.00
58060	Pavement Markings	110,310.000	LF	0.30	33,093.00
58090	Permanent Signing	1.000	LS	885,245.00	885,245.00
58100	Illumination System	1.000	LS	1,720,939.00	1,720,939.00
58110	Traffic Signal System	1.000	LS	444,400.00	444,400.00
58120	Chain Link Fence Type 3	13,788.000	LF	11.00	151,668.00
58160	Permanent ITS System	1.000	LS	604,808.00	604,808.00
58180	Impact Attenuators - Permanent	5.000	EA	33,330.00	166,650.00
58450	Maintenance of Traffic	1.000	LS	4,490,461.00	4,490,461.00
58460	Construction Staging	1.000	LS	5,334,628.00	5,334,628.00

BID TOTALS

<u>Biditem</u>	<u>Description</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Bid Total</u>
SECTION 19: AREA 5 OTHER					
59010	Unquantified Roadway Items (12% Sections 1-18)	1.000	LS	9,484,538.00	9,484,538.00
SUBTOTAL: SR 167 AREA 5					\$88,589,750.00
INDIRECTS & OVERHEAD					
900009010	ADMINISTRATIVE SALARIES	1.000	LS	16,608,950.00	16,608,950.00
900009030	FIELD OPERATIONS AND WAGES	1.000	LS	12,699,778.00	12,699,778.00
900009050	ADMINISTRATIVE/OFFICE EXPENSES	1.000	LS	3,038,453.00	3,038,453.00
900009070	AGENCY FACILITIES	1.000	LS	874,929.00	874,929.00
900009090	CONTRACTOR OFFICE AND YARD	1.000	LS	3,925,578.00	3,925,578.00
900009110	YARD OPERATIONS AND PROJECT VEHICLES	1.000	LS	3,051,754.00	3,051,754.00
900009130	EQUIPMENT MAINTENANCE	1.000	LS	1,898,584.00	1,898,584.00
900009150	GENERAL PROJECT EXP & FACILITIES	1.000	LS	1,600,919.00	1,600,919.00
900009170	PROJECT INSURANCES	1.000	LS	6,101,716.50	6,101,716.50
900009210	ESCALATION	1.000	LS	14,575,000.00	14,575,000.00
900009230	EQUIPMENT IN AND OUT	1.000	LS	713,465.00	713,465.00
900009235	Bond and B&O TAX	1.000	LS	9,320,004.00	9,320,004.00
SUBTOTAL: INDIRECTS AND OVERHEADS					\$74,409,130.50
SUBTOTAL: CONSTRUCTION					\$485,073,147.60
INFLATION ADJUSTMENT					
905009010	INFLATION TO YEAR OF CONSTRUCTION	1.000	LS	35,749,891.00	35,749,891.00
SUBTOTAL: INFLATION ADJUSTMENT					\$35,749,891.00
DESIGN AND OWNER COSTS					
910009010	CN ENGINEERING AT 8%	1.000	LS	38,805,851.00	38,805,851.00
910009020	PRELIMINARY ENGINEERING AT 5%	1.000	LS	24,253,657.00	24,253,657.00

08/20/2013
RKSR1672REV3

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SR 167 - Gateway Invest. Level 2.5 Rev 3

BID TOTALS

<u>Biditem</u>	<u>Description</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Bid Total</u>
910009030	CONTINGENCY AT 4%	1.000	LS	19,402,926.00	19,402,926.00
910009040	WASHINGTON STATE PATROL AT 0.1%	1.000	LS	485,073.00	485,073.00
910009050	FINAL DESIGN AT 8%	1.000	LS	38,805,851.00	38,805,851.00

SUBTOTAL: DESIGN AND OWNER COSTS \$121,753,358.00

Bid Total =====> \$642,576,396.60

**Notes:

BID TOTALS

<u>Biditem</u>	<u>Description</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Bid Total</u>
SECTION 10: I-5 PREPARATION					
10100	Clearing and Grubbing	59,200	AC	6,790.00	401,968.00
10200	Removal of Structures and Obstructions	1,000	LS	1,650,000.00	1,650,000.00
SECTION 11: I-5 GRADING					
11100	Roadway Excavation	1,048,307.000	CY	18.00	18,869,526.00
11200	Gravel Borrow Including Haul	134,850.000	TN	14.00	1,887,900.00
11300	Embankment Compaction	72,892.000	CY	4.50	328,014.00
SECTION 12: I-5 STORM SEWER & DRAINAGE					
12200	Storm Sewer System	1.000	LS	11,524,500.00	11,524,500.00
SECTION 13: I-5 STRUCTURES					
13111	SB/NB 216th St. U-ing - Concrete Girder	23,000.000	SF	220.00	5,060,000.00
13121	S 231st Way Overcrossing - Slab w/Pile Wall Abut	15,630.000	SF	213.00	3,329,190.00
13122	SR 509 SB HOV Overcrossing - Slab w/Pile Wall Abut	43,290.000	SF	214.00	9,264,060.00
13123	SR 509 NB Overcrossing - Slab w/Pile Wall Abut	32,425.000	SF	218.00	7,068,650.00
13206	BR 5/511 W Widening - Concrete Girder	6,740.000	SF	293.00	1,974,820.00
13207	BR 5/511 E Widening - Concrete Girder	2,560.000	SF	352.00	901,120.00
13301	I-5 NB Median - MSE Wall #6	1,298.000	SF	71.00	92,158.00
13302	I-5 NB Median - MSE Wall #7	23,924.000	SF	53.00	1,267,972.00
13303	I-5 NB Median - MSE Wall #8	16,879.000	SF	54.50	919,905.50
13304	I-5 NB Median - MSE Wall #9	12,161.000	SF	57.50	699,257.50
13305	I-5 NB Median - MSE Wall #10	30,000.000	SF	50.00	1,500,000.00
13306	I-5 NB Median - MSE Wall #11	35,150.000	SF	72.00	2,530,800.00
13321	I-5 SB Off Ramp to SR 516 - Soldier Pile w/Tieback	35,490.000	SF	177.00	6,281,730.00
13323	I-5 NB/SR 509 NB East Side- Soldier Pile w/Tieback	13,980.000	SF	157.00	2,194,860.00
13324	I-5 NB/SR 509 NB West Side- Soldier Pile w/Tieback	20,350.000	SF	156.00	3,174,600.00
13400	Retaining Wall Aesthetics	189,232.000	SF	2.50	473,080.00
13500	Noise Walls	400,474.000	SF	35.50	14,216,827.00
SECTION 14: I-5 SURFACING					
14100	Crushed Surfacing Base Course	39,859.000	TON	27.25	1,086,157.75
SECTION 15: I-5 CEMENT CONCRETE PAVEMENT					
15100	Cement Concrete Pavement	38,488.000	CY	181.00	6,966,328.00
15200	Corrosion Resistant Dowel Bars	88,308.000	EA	38.00	3,355,704.00
SECTION 16: I-5 ASPHALT CONCRETE PAVEMENT					
16200	Hot Mix Asphalt	61,234.000	TN	68.50	4,194,529.00
SECTION 17: I-5 EROSION CONTROL AND PLANTING					
17010	Temporary Erosion and Sedimentation Control	1,000	LS	2,630,496.00	2,630,496.00
17030	Stabilized Construction Entrances	6,000	EA	4,210.00	25,260.00

BID TOTALS

<u>Biditem</u>	<u>Description</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Bid Total</u>
17050	Erosion Control - Wetland Buffer	3.000	AC	125,543.00	376,629.00
17060	Landscaping - Roadside Restoration	66.000	AC	88,880.00	5,866,080.00
17070	Wheel Wash and On-site Haul Route	3.000	EA	11,835.00	35,505.00

SECTION 18: I-5 TRAFFIC

18010	Single Slope Concrete Barrier	10,631.000	LF	45.50	483,710.50
18040	Beam Guardrail	2,774.000	LF	22.00	61,028.00
18050	Beam Guardrail Terminal	4.000	EA	1,667.00	6,668.00
18060	Pavement Markings	186,466.000	LF	2.00	372,932.00
18090	Permanent Signing	1.000	LS	1,666,500.00	1,666,500.00
18100	Illumination System	1.000	LS	4,444,000.00	4,444,000.00
18110	Traffic Signal System	1.000	LS	1,555,400.00	1,555,400.00
18120	Chain Link Fence Type 3	20,287.000	LF	11.00	223,157.00
18140	Plastic HOV Lane Symbol	28.000	EA	222.00	6,216.00
18150	Temporary ITS System	1.000	LS	1,023,000.00	1,023,000.00
18160	Permanent ITS System	1.000	LS	971,300.00	971,300.00
18170	Ramp Meter	1.000	LS	110,000.00	110,000.00
18450	Maintenance of Traffic	1.000	LS	7,627,070.00	7,627,070.00
18460	Construction Staging	1.000	LS	5,435,859.00	5,435,859.00
18510	ATM/ITS System & Gantries	1.000	LS	5,390,000.00	5,390,000.00
18600	Civil Roadside Toll Equipment	1.000	LS	5,313,000.00	5,313,000.00
18700	Toll Collection Equipment	1.000	LS	1,716,000.00	1,716,000.00
18800	Toll Software Vendor	1.000	LS	1,540,000.00	1,540,000.00

SECTION 19: I-5 OTHER

19010	Unquantified Roadway Items (20% Sections 1-18)	1.000	LS	31,602,756.00	31,602,756.00
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SUBTOTAL: I-5 Portion of Project

\$189,696,223.25

SECTION 10: SR 509 PREPARATION

20100	Clearing and Grubbing	78.100	AC	6,750.00	527,175.00
20200	Removal of Structures and Obstructions	1.000	LS	1,650,000.00	1,650,000.00

SECTION 11: SR 509 GRADING

21100	Roadway Excavation	1,102,721.000	CY	14.00	15,438,094.00
21200	Gravel Borrow Including Haul	1,332,563.000	TN	5.00	6,662,815.00
21300	Embankment Compaction	724,304.000	CY	4.00	2,897,216.00

SECTION 12: SR 509 STORM SEWER & DRAINAGE

22200	Storm Sewer System	1.000	LS	14,205,311.00	14,205,311.00
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SECTION 13: SR 509 STRUCTURES

BID TOTALS

<u>Biditem</u>	<u>Description</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Bid Total</u>
23101	28th/24th Undercrossing - Concrete Girder	23,633.000	SF	224.00	5,293,792.00
23102	NB Wetland A Overcrossing - Concrete Girder	66,537.000	SF	173.00	11,510,901.00
23103	NB DMM Dr. S Overcrossing - Concrete Girder	15,630.000	SF	201.00	3,141,630.00
23104	S 211th St Undercrossing - Concrete Girder	5,890.000	SF	237.00	1,395,930.00
23105	NB S 188th Way Overcrossing - Concrete Girder	7,663.000	SF	230.00	1,762,490.00
23106	S 192nd St. Undercrossing - Concrete Girder	15,704.000	SF	200.00	3,140,800.00
23131	SR 99 Undercrossing - Concrete Box Bridge	24,000.000	SF	201.00	4,824,000.00
23132	NB S 200th St Overcrossing - Concrete Box Bridge	30,931.000	SF	191.00	5,907,821.00
23133	S 200th St On-Ramp - Concrete Box Bridge	18,412.000	SF	194.00	3,571,928.00
23141	SB Wetland B Overcrossing - Steel Box Bridge	18,619.000	SF	250.00	4,654,750.00
23142	NB Wetland B Overcrossing - Steel Box Bridge	87,289.000	SF	219.00	19,116,291.00
23301	SR 509 NB - MSE Wall	25,540.000	SF	50.50	1,289,770.00
23302	SR 509 B Line - MSE	12,299.000	SF	57.00	701,043.00
23303	SR 509 FS Line - MSE	12,648.000	SF	57.00	720,936.00
23304	DR 509 CQ Line - MSE	1,162.000	SF	82.00	95,284.00
23321	SR 509 NB Line - Soldier Pile	17,857.000	SF	163.00	2,910,691.00
23400	Retaining Wall Aesthetics	69,506.000	SF	2.50	173,765.00
23500	Noise Walls	43,896.000	SF	35.50	1,558,308.00
SECTION 14: SR 509 SURFACING					
24100	Crushed Surfacing Base Course	32,004.000	TN	25.00	800,100.00
SECTION 15: SR 509 CEMENT CONCRETE PAVEMENT					
25100	Cement Concrete Pavement	29,159.000	CY	180.00	5,248,620.00
25200	Dowel Bars	35,129.000	EA	38.00	1,334,902.00
SECTION 16: SR 509 ASPHALT CONCRETE PAVEMENT					
26200	Hot Mix Asphalt	36,394.000	TN	68.00	2,474,792.00
SECTION 17: SR 509 EROSION CONTROL AND PLANTING					
27010	Temporary Erosion and Sedimentation Control	1.000	LS	2,687,800.00	2,687,800.00
27030	Stabilized Construction Entrances	4.000	EA	8,690.00	34,760.00
27050	Erosion Control - Wetland Buffer	3.600	AC	125,543.00	451,954.80
27060	Landscaping - Roadside Restoration	67.000	AC	88,880.00	5,954,960.00
27070	Wheel Wash and On-site Haul Route	4.000	EA	12,060.00	48,240.00
SECTION 18: SR 509 TRAFFIC					
28010	Single Slope Concrete Barrier	17,500.000	LF	45.50	796,250.00
28040	Beam Guardrail	3,273.000	LF	22.00	72,006.00
28050	Beam Guardrail Terminal	5.000	EA	1,666.50	8,332.50
28060	Pavement Markings	139,778.000	LF	1.85	258,589.30
28090	Permanent Signing	1.000	LS	1,100,000.00	1,100,000.00
28100	Illumination System	1.000	LS	4,950,000.00	4,950,000.00
28110	Traffic Signal System	1.000	LS	1,650,000.00	1,650,000.00
28120	Chain Link Fence Type 3	14,466.000	LF	11.00	159,126.00
28450	Maintenance of Traffic	1.000	LS	4,897,897.00	4,897,897.00
28460	Construction Staging	1.000	LS	3,677,586.00	3,677,586.00

BID TOTALS

<u>Biditem</u>	<u>Description</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Bid Total</u>
SECTION 19: SR 509 OTHER					
29010	Unquantified Roadway Items (20% Sections 1-18)	1.000	LS	29,982,436.00	29,982,436.00

SUBTOTAL: SR 509 Section \$179,739,092.60

INDIRECTS & OVERHEAD

900009010	ADMINISTRATIVE SALARIES	1.000	LS	15,498,280.00	15,498,280.00
900009030	FIELD OPERATIONS AND WAGES	1.000	LS	12,490,347.00	12,490,347.00
900009050	ADMINISTRATIVE/OFFICE EXPENSES	1.000	LS	2,875,254.00	2,875,254.00
900009070	AGENCY FACILITIES	1.000	LS	874,929.00	874,929.00
900009090	CONTRACTOR OFFICE AND YARD	1.000	LS	3,779,776.00	3,779,776.00
900009110	YARD OPERATIONS AND PROJECT VEHICLES	1.000	LS	3,133,924.00	3,133,924.00
900009130	EQUIPMENT MAINTENANCE	1.000	LS	1,898,584.00	1,898,584.00
900009150	GENERAL PROJECT EXP & FACILITIES	1.000	LS	1,367,333.00	1,367,333.00
900009170	PROJECT INSURANCES	1.000	LS	5,719,450.00	5,719,450.00
900009210	ESCALATION	1.000	LS	12,162,742.00	12,162,742.00
900009230	EQUIPMENT IN AND OUT	1.000	LS	603,465.00	603,465.00
900009235	BOND and B&O TAX	1.000	LS	8,420,553.00	8,420,553.00

SUBTOTAL: INDIRECTS AND OVERHEADS \$68,824,637.00

SUBTOTAL: CONSTRUCTION \$438,259,952.85

INFLATION ADJUSTMENT

905009010	INFLATION TO YEAR OF CONSTRUCTION	1.000	LS	202,256,968.0	202,256,968.0
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SUBTOTAL: INFLATION ADJUSTMENT \$202,256,968.00

DESIGN AND OWNER COSTS

08/22/2013
RKSR5094R3

19:04
SR 509 - Gateway Invest. Level 4.0 Rev 3

BID TOTALS

<u>Biditem</u>	<u>Description</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Bid Total</u>
910009010	CN ENGINEERING AT 8%	1.000	LS	35,060,791.00	35,060,791.00
910009020	PRELIMINARY ENGINEERING AT 5%	1.000	LS	21,912,994.00	21,912,994.00
910009030	CONTINGENCY AT 4%	1.000	LS	17,530,396.00	17,530,396.00
910009040	WASHINGTON STATE PATROL AT 0.1%	1.000	LS	438,260.00	438,260.00
910009050	FINAL DESIGN AT 8%	1.000	LS	35,060,791.00	35,060,791.00

SUBTOTAL: DESIGN AND OWNER COSTS \$110,003,232.00

Bid Total =====> \$750,520,152.85

**Notes:

BID TOTALS

<u>Biditem</u>	<u>Description</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Bid Total</u>
SECTION 10 - PREPARATION					
10100	Clearing and Grubbing	11.000	AC	5,858.00	64,438.00
10200	Removal of Structures and Obstructions	1.000	LS	334,730.00	334,730.00
SECTION 11 - GRADING					
11100	Roadway Excavation	33,484.000	CY	19.00	636,196.00
11200	Gravel Borrow Including Haul	123,892.000	TN	11.00	1,362,812.00
11300	Embankment Compaction	66,969.000	CY	4.00	267,876.00
SECTION 12 - STORM SEWER & DRAINAGE					
12200	Storm Sewer Conveyance System	1.000	LS	14,350,400.00	14,350,400.00
12300	Stormwater Management Facilities	1.000	LS	1,271,600.00	1,271,600.00
12400	Stormwater Retrofit Account	1.000	LS	3,124,400.00	3,124,400.00
SECTION 13 - STRUCTURES					
13101	Porter Way Br 5/463 - Concrete Girder	33,455.000	SF	184.00	6,155,720.00
13102	Porter Creek Br 5/464E	4,824.000	SF	269.00	1,297,656.00
13103	Porter Creek Br 5/464W	3,864.000	SF	267.00	1,031,688.00
13104	375th St. Br 5/501	10,450.000	SF	206.00	2,152,700.00
13105	I-5 over SR 18 Br 5/503E	2,472.000	SF	293.00	724,296.00
13106	I-5 over SR 18 Br 5/503W	2,556.000	SF	286.00	731,016.00
13107	336th St. Br 5/504E	2,376.000	SF	302.00	717,552.00
13108	336th St. Br 5/504W	1,872.000	SF	362.00	677,664.00
13109	320th St. Replacement Bridge	23,375.000	SF	193.00	4,511,375.00
13131	BR 5/506 W Widening - Concrete Box	1,635.000	SF	235.00	384,225.00
13132	BR 5/506 E Widening - Concrete Box	1,490.000	SF	246.00	366,540.00
13201	BR 5/507 W Widening - Concrete Girder	1,290.000	SF	355.00	457,950.00
13202	BR 5/507 E Widening - Concrete Girder	1,165.000	SF	378.00	440,370.00
13203	BR 5/508 E Widening - Concrete Girder	1,820.000	SF	368.00	669,760.00
13204	BR 5/509 W Widening - Concrete Girder	3,870.000	SF	349.00	1,350,630.00
13205	BR 5/509 E Widening - Concrete Girder	1,140.000	SF	385.00	438,900.00
13211	BR 5/510 W Widening - Reinforced Slab	1,330.000	SF	316.00	420,280.00
13212	BR 5/510 E Widening - Reinforced Slab	2,510.000	SF	299.00	750,490.00
13301	MSE Wall 1 - Avg Height 6'	8,554.000	SF	65.50	560,287.00
13302	MSE Wall 2 - Avg Height 8'	19,200.000	SF	58.50	1,123,200.00
13303	MSE Wall 3 - Avg Height 8'	123,200.000	SF	57.70	7,108,640.00
SECTION 14 - SURFACING					
14100	Crushed Surfacing Base Course	8,519.000	TON	25.75	219,364.25
SECTION 15 - CEMENT CONCRETE PAVEMENT					
15100	PCCP Pavement	15,287.000	CY	168.00	2,568,216.00
SECTION 16 - ASPHALT CONCRETE PAVEMENT					
16200	Hot Mix Asphalt	7,552.000	TN	70.25	530,528.00

BID TOTALS

<u>Biditem</u>	<u>Description</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Bid Total</u>
SECTION 17 - EROSION CONTROL					
17010	Temporary Erosion and Sedimentation Control	1.000	LS	1,853,680.00	1,853,680.00
SECTION 18 - TRAFFIC					
18010	Single Slope Concrete Barrier	19,226.000	LF	45.50	874,783.00
18025	Cast-in-place Concrete Barrier Type SEW	19,926.000	LF	118.00	2,351,268.00
18060	Plastic Line	43,051.000	LF	1.75	75,339.25
18070	Plastic Wide Line	43,051.000	LF	3.00	129,153.00
18080	Plastic HOV Symbol	82.000	EA	222.00	18,204.00
18450	Maintenance of Traffic	1.000	LS	6,154,812.00	6,154,812.00
18460	Construction Staging	1.000	LS	3,694,122.00	3,694,122.00
SECTION 19 - OTHER					
19010	Unquantified Minor Roadway Items	1.000	LS	29,474,997.00	29,474,997.00
19020	320th I/C Modifications	1.000	LS	27,500,000.00	27,500,000.00
19030	SR 509 Direct Connector	1.000	LS	36,777,159.00	36,777,159.00
19040	SR 167 Direct Connector	1.000	LS	11,145,943.00	11,145,943.00
SUBTOTAL: I-5 Add 2nd ETL					\$176,850,959.50
SECTION 20 - TOLL VENDOR/TOLL IMPLEMENTATION					
20100	Toll System Procurement	1.000	EA	1,500,000.00	1,500,000.00
20200	Investment Grade Traffic and Revenue Report	1.000	EA	1,500,000.00	1,500,000.00
20300	Toll Collection Design	1.000	LS	1,605,011.00	1,605,011.00
20400	Toll Collection Equipment	32.000	MI	556,788.00	17,817,216.00
20500	Toll Equipment Integration and Testing	1.000	LS	4,012,528.00	4,012,528.00
20600	Training and Spare Parts	1.000	LS	2,105,011.00	2,105,011.00
20700	Toll Vendor Markup	1.000	LS	2,553,980.00	2,553,980.00
SUBTOTAL: Toll Vendor					\$31,093,746.00
SECTION 21 - OWNER TOLL COSTS					
21100	FMAS Equipment	1.000	LS	100,000.00	100,000.00
21200	Customer Service Center	1.000	LS	1,250,000.00	1,250,000.00
21300	Marketing/Education Campaign	1.000	LS	2,250,000.00	2,250,000.00
21400	Toll Rate Setting	1.000	LS	750,000.00	750,000.00
21500	Toll System Implementation	1.000	LS	1,500,000.00	1,500,000.00
SUBTOTAL: Owner Toll Costs					\$5,850,000.00

BID TOTALS

<u>Biditem</u>	<u>Description</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Bid Total</u>
INDIRECTS & OVERHEAD					
900009010	ADMINISTRATIVE SALARIES	1.000	LS	9,630,165.00	9,630,165.00
900009030	FIELD OPERATIONS AND WAGES	1.000	LS	4,568,490.00	4,568,490.00
900009050	ADMINISTRATIVE/OFFICE EXPENSES	1.000	LS	2,571,232.00	2,571,232.00
900009070	AGENCY FACILITIES	1.000	LS	687,990.00	687,990.00
900009090	CONTRACTOR OFFICE AND YARD	1.000	LS	1,783,829.00	1,783,829.00
900009110	YARD OPERATIONS AND PROJECT VEHICLES	1.000	LS	1,721,026.00	1,721,026.00
900009130	EQUIPMENT MAINTENANCE	1.000	LS	1,341,688.00	1,341,688.00
900009150	GENERAL PROJECT EXP & FACILITIES	1.000	LS	693,447.00	693,447.00
900009170	PROJECT INSURANCES	1.000	LS	3,033,740.00	3,033,740.00
900009210	ESCALATION	1.000	LS	4,412,085.00	4,412,085.00
900009230	EQUIPMENT IN AND OUT	1.000	LS	253,000.00	253,000.00
900009235	Bond and B&O TAX	1.000	LS	4,065,841.00	4,065,841.00
SUBTOTAL: INDIRECTS AND OVERHEAD					\$34,762,533.00
SUBTOTAL: CONSTRUCTION					\$248,557,238.50
INFLATION ADJUSTMENT					
907009010	INFLATION TO YEAR OF CONSTRUCTION	1.000	LS	44,889,437.00	44,889,437.00
SUBTOTAL: INFLATION ADJUSTMENT					\$44,889,437.00
DESIGN AND OWNER COSTS					
910009010	CN ENGINEERING AT 8%	1.000	LS	16,929,009.00	16,929,009.00
910009020	PRELIMINARY ENGINEERING AT 5%	1.000	LS	12,427,818.00	12,427,818.00
910009030	CONTINGENCY AT 4%	1.000	LS	8,464,505.00	8,464,505.00
910009040	WASHINGTON STATE PATROL AT 0.1%	1.000	LS	211,613.00	211,613.00
910009050	FINAL DESIGN AT 8%	1.000	LS	16,929,009.00	16,929,009.00
SUBTOTAL: DESIGN AND OWNER COSTS					\$54,961,954.00
Bid Total					=====> \$348,408,629.50

**Notes:

BID TOTALS

<u>Biditem</u>	<u>Description</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Bid Total</u>
SECTION 10 - AREA 1 PREPARATION					
10100	Clearing and Grubbing	23.800	AC	3,450.00	82,110.00
10200	Removal of Structures and Obstructions	57,270.000	SF	2.00	114,540.00
10300	Remove Asphalt Concrete Pavement	31,567.000	SY	5.00	157,835.00
SECTION 11 - AREA 1 GRADING					
11050	Unsuitable Excavation	8,890.000	CY	15.00	133,350.00
11100	Roadway Excavation	49,090.000	CY	14.00	687,260.00
11200	Borrow Including Haul	384,000.000	TN	9.20	3,532,800.00
11300	Embankment Compaction	152,400.000	CY	4.00	609,600.00
11500	Soil Improvement - Pattern A	262,625.000	SF	2.75	722,218.75
11510	Soil Improvement - Pattern B	7,815.000	SF	3.85	30,087.75
11600	Surcharge Material Re-handle	66,448.000	CY	8.00	531,584.00
SECTION 12 - AREA 1 STORM SEWER & DRAINAGE					
12100	Pipe Culverts	280.000	LF	85.00	23,800.00
12200	Storm Sewer System	2,632.000	LF	109.00	286,888.00
12300	Drainage Ditch Excavation	10,820.000	LF	14.00	151,480.00
SECTION 13 - AREA 1 STRUCTURES					
13101	SR 167/Fife Ditch - Concrete Girder	9,360.000	SF	260.00	2,433,600.00
13102	SFR-1 - Concrete Girder	930.000	SF	286.00	265,980.00
13103	167/54 - Concrete Girder	8,320.000	SF	247.00	2,055,040.00
13131	S167/509 - Post Tensioned	10,840.000	SF	288.00	3,121,920.00
13300	MSE Retaining Walls	3,200.000	SF	68.60	219,520.00
13400	Retaining Wall Aesthetics	3,200.000	SF	2.50	8,000.00
SECTION 14 - AREA 1 SURFACING					
14100	Crushed Surfacing Base Course	10,970.000	TON	21.00	230,370.00
SECTION 16 - AREA 1 ASPHALT CONCRETE PAVEMENT					
16200	Hot Mix Asphalt	21,880.000	TN	68.75	1,504,250.00
SECTION 17 - AREA 1 EROSION CONTROL					
17010	Temporary Erosion and Sedimentation Control	1.000	LS	702,094.00	702,094.00
17020	Constructed Stormwater Wetlands	62,378.000	SF	2.75	171,539.50
17030	Stabilized Construction Entrances	3.000	EA	4,210.00	12,630.00
17050	Erosion Control - Seeding, Fertilizing, Landscapin	495.000	AC	3,555.00	1,759,725.00
17060	Landscaping	27.200	AC	60,450.00	1,644,240.00
17070	Wheel Wash and On-site Haul Route	3.000	EA	11,835.00	35,505.00
17120	CAVFS	85,659.000	SF	2.75	235,562.25
SECTION 18 - AREA 1 TRAFFIC					
18020	Precast Concrete Barrier Type 4	1,276.000	LF	46.00	58,696.00

BID TOTALS

<u>Biditem</u>	<u>Description</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Bid Total</u>
18040	Beam Guardrail	5,005.000	LF	22.00	110,110.00
18050	Beam Guardrail Terminal	15.000	EA	1,667.00	25,005.00
18060	Pavement Markings	38,440.000	LF	0.30	11,532.00
18090	Permanent Signing	1.000	LS	222,200.00	222,200.00
18100	Illumination System	1.000	LS	168,316.00	168,316.00
18120	Chain Link Fence Type 3	6,086.000	LF	11.00	66,946.00
18160	Permanent ITS System	1.000	LS	300,123.00	300,123.00
18180	Impact Attenuators - Permanent	2.000	EA	33,330.00	66,660.00
18190	Removable Bollards	1.000	EA	833.00	833.00
18450	Maintenance of Traffic	1.000	LS	1,528,123.00	1,528,123.00
18460	Construction Staging	1.000	LS	986,322.00	986,322.00

SECTION 19 - AREA 1 OTHER

19010	Unquantified Roadway Items (12% Sections 1- 18)	1.000	LS	3,003,896.00	3,003,896.00
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SUBTOTAL: SR 167 AREA 1

\$28,012,291.25

SECTION 10 - AREA 2 PREPARATION

20100	Clearing and Grubbing	20.400	AC	3,490.00	71,196.00
20200	Removal of Structures and Obstructions	99,875.000	SF	2.00	199,750.00
20300	Removal of Asphalt Concrete Pavement	15,610.000	SY	5.00	78,050.00
20500	Bridge Removal	1,476.000	SF	27.75	40,959.00

SECTION 11 - AREA 2 GRADING

21050	Unsuitable Excavation	11,150.000	CY	15.00	167,250.00
21100	Roadway Excavation	810.000	CY	171.00	138,510.00
21200	Borrow Including Haul	631,380.000	TN	8.80	5,556,144.00
21300	Embankment Compaction	294,240.000	CY	4.00	1,176,960.00
21500	Soil Improvement Pattern A	38,080.000	SF	2.75	104,720.00
21510	Soil Improvement Pattern B	5,000.000	SF	3.90	19,500.00

SECTION 12 - AREA 2 STORM SEWER & DRAINAGE

22100	Pipe Culverts	535.000	LF	82.00	43,870.00
22200	Storm Sewer System	3,700.000	LF	108.00	399,600.00
22300	Drainage Ditch Excavation	5,833.000	LF	14.00	81,662.00
22500	Detention Pond	46,197.000	SF	3.50	161,689.50

SECTION 13 - AREA 2 STRUCTURES

23101	167/12 - Concrete Girder	14,830.000	SF	250.00	3,707,500.00
23300	MSE Retaining Walls	27,000.000	SF	52.00	1,404,000.00
23400	Retaining Wall Aesthetics	27,000.000	SF	2.50	67,500.00

SECTION 14 - AREA 2 SURFACING

24100	Crushed Surfacing Base Course	13,750.000	TN	21.00	288,750.00
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BID TOTALS

<u>Biditem</u>	<u>Description</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Bid Total</u>
SECTION 16 - AREA 2 ASPHALT CONCRETE PAVEMENT					
26200	Hot Mix Asphalt	27,420.000	TN	68.50	1,878,270.00
SECTION 17: AREA 2 EROSION CONTROL AND PLANTING					
27010	Temporary Erosion and Sedimentation Control	1.000	LS	377,048.00	377,048.00
27020	Constructed Stormwater Wetlands	115,903.000	SF	2.75	318,733.25
27030	Stabilized Construction Entrances	4.000	EA	4,345.00	17,380.00
27050	Erosion Control - Seeding, Fertilizing, Landscape	482.700	AC	3,555.00	1,715,998.50
27060	Landscaping	14.700	AC	39,850.00	585,795.00
27070	Wheel Wash and On-site Haul Route	4.000	EA	12,060.00	48,240.00
27120	CAVFS	43,202.000	SF	2.75	118,805.50
SECTION 18: AREA 2 TRAFFIC					
28020	Precast Concrete Barrier Type 4	3,545.000	LF	45.50	161,297.50
28060	Pavement Markings	27,190.000	LF	0.30	8,157.00
28090	Permanent Signing	1.000	LS	190,648.00	190,648.00
28100	Illumination System	1.000	LS	333,856.00	333,856.00
28110	Traffic Signal System	1.000	LS	166,650.00	166,650.00
28120	Chain Link Fence Type 3	7,945.000	LF	11.00	87,395.00
28160	Permanent ITS System	1.000	LS	145,879.00	145,879.00
28180	Impact Attenuators - Permanent	2.000	EA	33,330.00	66,660.00
28190	Removeable Bollards	2.000	EA	833.00	1,666.00
28450	Maintenance of Traffic	1.000	LS	952,590.00	952,590.00
28460	Construction Staging	1.000	LS	737,937.00	737,937.00
SECTION 19: AREA 2 OTHER					
29010	Unquantified Roadway Items (12% Sections 1- 18)	1.000	LS	2,600,552.00	2,600,552.00
SUBTOTAL: SR 167 AREA 2					\$24,221,168.25

SECTION 10 - AREA 3 PREPARATION

30100	Clearing and Grubbing	103.500	AC	4,021.00	416,173.50
30200	Removal of Structures and Obstructions	333,963.000	SF	2.00	667,926.00
30300	Removal of Asphalt Concrete Pavement	24,700.000	SY	5.00	123,500.00

SECTION 11 - AREA 3 GRADING

31050	Unsuitable Excavation	37,320.000	CY	15.00	559,800.00
31100	Roadway Excavation	97,370.000	CY	15.50	1,509,235.00
31200	Borrow Including Haul	2,041,800.000	TN	8.85	18,069,930.00
31300	Embankment Compaction	1,012,530.000	CY	3.90	3,948,867.00
31500	Soil Improvement Pattern A	217,110.000	SF	2.75	597,052.50
31510	Soil Improvement Pattern B	38,313.000	SF	4.00	153,252.00
31600	Surcharge Material Re-Handle	11,636.000	CY	8.00	93,088.00
31700	Ecology Embankment	6,860.000	CY	13.00	89,180.00

BID TOTALS

<u>Biditem</u>	<u>Description</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Bid Total</u>
SECTION 12 - AREA 3 STORM SEWER & DRAINAGE					
32100	Pipe Culverts	1,417.000	LF	83.00	117,611.00
32200	Storm Sewer System	13,056.000	LF	116.00	1,514,496.00
32300	Drainage Ditch Excavation	17,727.000	CY	13.50	239,314.50
32400	Channel Excavation	25,135.000	CY	23.00	578,105.00
32500	Channel Improvements	12,315.000	LF	127.00	1,564,005.00
32600	Overbank Excavation	341,235.000	CY	20.00	6,824,700.00
SECTION 13 - AREA 3 STRUCTURES					
33101	70/5 - Concrete Girder	49,860.000	SF	152.00	7,578,720.00
33102	N167/26	10,290.000	SF	230.00	2,366,700.00
33103	N167/5 - Concrete Girder	151,490.000	SF	155.00	23,480,950.00
33104	N167-N5 - Concrete Girder	37,830.000	SF	182.00	6,885,060.00
33105	N5-HCR - Concrete Girder	9,310.000	SF	247.00	2,299,570.00
33106	N5-N167 (HOVCTR) - A Concrete Girder	23,130.000	SF	168.00	3,885,840.00
33107	Porter/5 - Concrete Girder	33,460.000	SF	186.00	6,223,560.00
33108	S167/26 - Concrete Girder	11,250.000	SF	260.00	2,925,000.00
33109	S167/5 - Concrete Girder	155,100.000	SF	169.00	26,211,900.00
33110	S167-N5 (HOV) - Concrete Girder	23,320.000	SF	171.00	3,987,720.00
33111	S165-N5 / 20 - Concrete Girder	6,660.000	SF	264.00	1,758,240.00
33112	S167/N5 / HCR - Concrete Girder	17,350.000	SF	276.00	4,788,600.00
33113	S167/N5 - Concrete Girder	11,540.000	SF	232.00	2,677,280.00
33114	S5/HCR - Concrete Girder	9,800.000	SF	247.00	2,420,600.00
33115	S5-N167 - Concrete Girder	79,230.000	SF	164.00	12,993,720.00
33116	S5-N167 (HOV) - Concrete Girder	49,390.000	SF	183.00	9,038,370.00
33117	S5-S167 - Concrete Girder	24,020.000	SF	188.00	4,515,760.00
33118	SR99 over Hylebos - Concrete Girder	6,900.000	SF	252.00	1,738,800.00
33119	12th - (1) - Concrete Girder	5,390.000	SF	251.00	1,352,890.00
33120	S167-N5 - Post Tensioned	22,790.000	SF	252.00	5,743,080.00
33121	S167-S5 - Post Tensioned	55,730.000	SF	218.00	12,149,140.00
33130	S5-N167 - Steel Plate Girder	50,440.000	SF	262.00	13,215,280.00
33131	S5-S167 - Steel Plate Girder	18,180.000	SF	284.00	5,163,120.00
33141	S5-N167 (HOVCTR) - Steel Box	33,520.000	SF	333.00	11,162,160.00
33142	S5-N167 (HOVCTR) - Concrete Girder	81,650.000	SF	175.00	14,288,750.00
33201	N5/HYL - Widening - Concrete	6,630.000	SF	280.00	1,856,400.00
33202	S5/HYL - Widening - Concrete	8,910.000	SF	277.00	2,468,070.00
33205	70/5 - Reinforced Concrete Box	18,710.000	SF	220.00	4,116,200.00
33300	MSE Retaining Walls	9,420.000	SF	55.00	518,100.00
33400	Retaining Wall Aesthetics	350.000	SF	2.50	875.00
SECTION 14 - AREA 3 SURFACING					
34100	Crushed Surfacing Base Course	46,030.000	TN	21.25	978,137.50
SECTION 16 - AREA 3 ASPHALT CONCRETE PAVEMENT					
36200	Hot Mix Asphalt	91,810.000	TN	68.00	6,243,080.00
SECTION 17: AREA 3 EROSION CONTROL AND PLANTING					
37010	Temporary Erosion and Sedimentation Control	1.000	LS	2,586,034.00	2,586,034.00

BID TOTALS

<u>Biditem</u>	<u>Description</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Bid Total</u>
37020	Constructed Stormwater Wetlands	239,603.000	SF	2.75	658,908.25
37030	Stabilized Construction Entrances	11.000	EA	4,345.00	47,795.00
37050	Erosion Control - Seeding, Fertilizing, Landscape	688.000	AC	3,555.00	2,445,840.00
37060	Landscaping	22.300	AC	40,000.00	892,000.00
37070	Wheel Wash and On-site Haul Route	4.000	EA	12,060.00	48,240.00
37120	CAVFS	157,363.000	SF	2.75	432,748.25
37200	RRP - Lower Hylebos	26.000	AC	69,124.00	1,797,224.00
37300	RRP - Upper Hylebos	56.000	AC	134,064.00	7,507,584.00
37400	RRP - SLT	39.100	AC	117,358.00	4,588,697.80

SECTION 18: AREA 3 TRAFFIC

38020	Precast Concrete Barrier Type 4	10,715.000	LF	46.00	492,890.00
38040	Beam Guardrail	15,591.000	LF	20.00	311,820.00
38050	Beam Guardrail Terminal	25.000	EA	1,667.00	41,675.00
38060	Pavement Markings	277,560.000	LF	0.30	83,268.00
38090	Permanent Signing	1.000	LS	1,197,436.00	1,197,436.00
38100	Illumination System	1.000	LS	4,255,130.00	4,255,130.00
38110	Traffic Signal System	1.000	LS	499,950.00	499,950.00
38120	Chain Link Fence Type 3	11,328.000	LF	11.00	124,608.00
38160	Permanent ITS System	1.000	LS	477,148.00	477,148.00
38180	Impact Attenuators - Permanent	5.000	EA	33,330.00	166,650.00
38190	Removeable Bollards	2.000	EA	833.00	1,666.00
38450	Maintenance of Traffic	1.000	LS	7,202,287.00	7,202,287.00
38460	Construction Staging	1.000	LS	6,546,948.00	6,546,948.00

SECTION 19: AREA 3 OTHER

39010	Unquantified Roadway Items (12% Sections 1- 18)	1.000	LS	34,194,304.00	34,194,304.00
39020	Interurban Trail	1.000	LS	615,076.00	615,076.00

SUBTOTAL: SR 167 AREA 3

\$319,313,835.30

SECTION 10 - AREA 4 PREPARATION

40100	Clearing and Grubbing	30.000	AC	3,518.00	105,540.00
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SECTION 11 - AREA 4 GRADING

41050	Unsuitable Excavation	23,570.000	CY	15.00	353,550.00
41100	Roadway Excavation	820.000	CY	257.00	210,740.00
41200	Borrow Including Haul	1,044,250.000	TN	9.00	9,398,250.00
41300	Embankment Compaction	475,580.000	CY	4.00	1,902,320.00
41500	Soil Improvement Pattern A	83,187.000	SF	3.00	249,561.00
41510	Soil Improvement Pattern B	14,680.000	SF	4.00	58,720.00
41600	Surcharge Material Re-Handle	29,682.000	CY	8.50	252,297.00

SECTION 12 - AREA 4 STORM SEWER & DRAINAGE

42100	Pipe Culverts	335.000	LF	82.00	27,470.00
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BID TOTALS

<u>Biditem</u>	<u>Description</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Bid Total</u>
42200	Storm Sewer System	4,642.000	LF	105.00	487,410.00
42300	Drainage Ditch Excavation	15,470.000	LF	13.50	208,845.00
42700	Combined Detention and Treatment Pond	146,900.000	SF	3.00	440,700.00

SECTION 13 - AREA 4 STRUCTURES

43101	S167-VA-1 - Concrete Girder	189,080.000	SF	158.00	29,874,640.00
43102	S167-VA-2 - Concrete Girder	25,280.000	SF	218.00	5,511,040.00
43103	VA-N167 - Concrete Girder	49,100.000	SF	202.00	9,918,200.00
43131	167/VA - Steel Plate Girder	56,990.000	SF	278.00	15,843,220.00

SECTION 14 - AREA 4 SURFACING

44100	Crushed Surfacing Base Course	29,070.000	TN	20.30	590,121.00
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SECTION 16 - AREA 4 ASPHALT CONCRETE PAVEMENT

46200	Hot Mix Asphalt	57,990.000	TN	68.00	3,943,320.00
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SECTION 17: AREA 4 EROSION CONTROL AND PLANTING

47010	Temporary Erosion and Sedimentation Control	1.000	LS	1,274,850.00	1,274,850.00
47020	Constructed Stormwater Wetlands	50,235.000	SF	2.75	138,146.25
47030	Stabilized Construction Entrances	2.000	EA	4,345.00	8,690.00
47050	Erosion Control - Seeding, Fertilizing, Landscape	173.800	AC	3,555.00	617,859.00
47060	Landscaping	33.200	AC	33,500.00	1,112,200.00
47070	Wheel Wash and On-site Haul Route	2.000	EA	11,835.00	23,670.00
47120	CAVFS	200,250.000	SF	2.75	550,687.50
47200	RRP - Wapato	65.200	AC	80,193.00	5,228,583.60

SECTION 18: AREA 4 TRAFFIC

48020	Precast Concrete Barrier Type 4	1,390.000	LF	46.00	63,940.00
48040	Beam Guardrail	5,570.000	LF	22.00	122,540.00
48050	Beam Guardrail Terminal	4.000	EA	1,667.00	6,668.00
48060	Pavement Markings	85,780.000	LF	0.30	25,734.00
48090	Permanent Signing	1.000	LS	367,074.00	367,074.00
48100	Illumination System	1.000	LS	304,970.00	304,970.00
48110	Traffic Signal System	1.000	LS	333,300.00	333,300.00
48120	Chain Link Fence Type 3	10,490.000	LF	11.00	115,390.00
48160	Permanent ITS System	1.000	LS	714,656.00	714,656.00
48180	Impact Attenuators - Permanent	2.000	EA	33,330.00	66,660.00
48450	Maintenance of Traffic	1.000	LS	3,152,650.00	3,152,650.00
48460	Construction Staging	1.000	LS	3,758,462.00	3,758,462.00

SECTION 19: AREA 4 OTHER

49010	Unquantified Roadway Items (12% Sections 1- 18)	1.000	LS	11,608,222.00	11,608,222.00
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SUBTOTAL: SR 167 AREA 4

\$108,970,896.35

BID TOTALS

<u>Biditem</u>	<u>Description</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Bid Total</u>
SECTION 10 - AREA 5 PREPARATION					
50100	Clearing and Grubbing	64.000	AC	3,506.00	224,384.00
50200	Removal of Structures and Obstructions	41,515.000	SF	2.00	83,030.00
50300	Remove Asphalt Concrete Pavement	33,620.000	SY	5.25	176,505.00
SECTION 11 - AREA 5 GRADING					
51050	Unsuitable Excavation	35,660.000	CY	14.75	525,985.00
51100	Roadway Excavation	10,360.000	CY	44.50	461,020.00
51200	Borrow Including Haul	2,030,750.000	TN	8.80	17,870,600.00
51300	Embankment Compaction	941,270.000	CY	4.00	3,765,080.00
51500	Soil Improvement Pattern A	113,501.000	SF	2.95	334,827.95
51510	Soil Improvement Pattern B	20,030.000	SF	4.00	80,120.00
51600	Surcharge Material Re-handle	4,778.000	CY	8.25	39,418.50
51700	Ecology Embankment	2,943.000	LF	13.00	38,259.00
SECTION 12 - AREA 5 STORM SEWER & DRAINAGE					
52100	Pipe Culverts	963.000	LF	115.00	110,745.00
52200	Storm Sewer System	6,570.000	LF	105.00	689,850.00
52300	Drainage Ditch Excavation	15,920.000	LF	13.50	214,920.00
52700	Combined Detention and Treatment Pond	367,205.000	SF	3.25	1,193,416.25
SECTION 13 - AREA 5 STRUCTURES					
53101	N167/MWK - Concrete Girder	15,780.000	SF	259.00	4,087,020.00
53102	S167/MWK - Concrete Girder	7,930.000	SF	260.00	2,061,800.00
53131	N167/161 - Post Tensioned	17,710.000	SF	190.00	3,364,900.00
53141	161/Puyallup River	45,990.000	SF	349.00	16,050,510.00
53300	MSE Retaining Walls	88,212.000	SF	49.25	4,344,441.00
53400	Retaining Wall Aesthetics	421.000	SF	2.50	1,052.50
53500	Noise Wall	14,400.000	SF	44.00	633,600.00
SECTION 14 - AREA 5 SURFACING					
54100	Crushed Surfacing Base Course	43,980.000	TN	20.00	879,600.00
SECTION 16 - AREA 5 ASPHALT CONCRETE PAVEMENT					
56200	Hot Mix Asphalt	87,730.000	TN	67.75	5,943,707.50
SECTION 17: AREA 5 EROSION CONTROL AND PLANTING					
57010	Temporary Erosion and Sedimentation Control	1.000	LS	1,558,368.00	1,558,368.00
57020	Constructed Stormwater Wetlands	48,765.000	SF	2.75	134,103.75
57030	Stabilized Construction Entrances	7.000	EA	4,345.00	30,415.00
57040	Bio Infiltration Swale	1,573.000	LF	17.00	26,741.00
57050	Erosion Control - Seeding, Fertilizing, Landscape	180.500	AC	3,555.00	641,677.50
57060	Landscaping	30.000	AC	35,536.00	1,066,080.00
57070	Wheel Wash and On-site Haul Route	8.000	EA	12,060.00	96,480.00
57120	CAVFS	100,825.000	SF	2.75	277,268.75

BID TOTALS

<u>Biditem</u>	<u>Description</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Bid Total</u>
SECTION 18: AREA 5 TRAFFIC					
58020	Precast Concrete Barrier Type 4	11,130.000	LF	46.00	511,980.00
58040	Beam Guardrail	11,589.000	LF	20.00	231,780.00
58050	Beam Guardrail Terminal	21.000	EA	1,667.00	35,007.00
58060	Pavement Markings	134,150.000	LF	0.30	40,245.00
58090	Permanent Signing	1.000	LS	885,245.00	885,245.00
58100	Illumination System	1.000	LS	1,720,939.00	1,720,939.00
58110	Traffic Signal System	1.000	LS	444,400.00	444,400.00
58120	Chain Link Fence Type 3	13,875.000	LF	11.00	152,625.00
58160	Permanent ITS System	1.000	LS	604,808.00	604,808.00
58180	Impact Attenuators - Permanent	5.000	EA	33,330.00	166,650.00
58450	Maintenance of Traffic	1.000	LS	4,490,461.00	4,490,461.00
58460	Construction Staging	1.000	LS	5,334,628.00	5,334,628.00

SECTION 19: AREA 5 OTHER

59010	Unquantified Roadway Items (12% Sections 1- 18)	1.000	LS	9,802,328.00	9,802,328.00
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SUBTOTAL: SR 167 AREA 5

\$91,427,021.70

INDIRECTS & OVERHEAD

900009010	ADMINISTRATIVE SALARIES	1.000	LS	18,820,805.00	18,820,805.00
900009030	FIELD OPERATIONS AND WAGES	1.000	LS	16,928,761.00	16,928,761.00
900009050	ADMINISTRATIVE/OFFICE EXPENSES	1.000	LS	3,222,912.00	3,222,912.00
900009070	AGENCY FACILITIES	1.000	LS	874,929.00	874,929.00
900009090	CONTRACTOR OFFICE AND YARD	1.000	LS	4,113,647.00	4,113,647.00
900009110	YARD OPERATIONS AND PROJECT VEHICLES	1.000	LS	3,275,533.00	3,275,533.00
900009130	EQUIPMENT MAINTENANCE	1.000	LS	1,898,584.00	1,898,584.00
900009150	GENERAL PROJECT EXP & FACILITIES	1.000	LS	1,656,499.00	1,656,499.00
900009170	PROJECT INSURANCES	1.000	LS	7,151,117.00	7,151,117.00
900009210	ESCALATION	1.000	LS	21,497,206.00	21,497,206.00
900009230	EQUIPMENT IN AND OUT	1.000	LS	713,465.00	713,465.00
900009235	Bond and B&O TAX	1.000	LS	12,774,614.00	12,774,614.00

SUBTOTAL : INDIRECTS AND OVERHEAD

\$92,928,072.00

SUBTOTAL : CONSTRUCTION

\$664,873,284.85

BID TOTALS

<u>Biditem</u>	<u>Description</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Bid Total</u>
INFLATION ADJUSTMENT					
905009010	INFLATION TO YEAR OF CONSTRUCTION	1.000	LS	306,839,021.0	306,839,021.0
SUBTOTAL: INFLATION ADJUSTMENT					\$306,839,021.00
DESIGN AND OWNER COSTS					
910009010	CN ENGINEERING AT 8%	1.000	LS	53,189,867.00	53,189,867.00
910009020	PRELIMINARY ENGINEERING AT 5%	1.000	LS	33,243,667.00	33,243,667.00
910009030	CONTINGENCY AT 4%	1.000	LS	26,594,933.00	26,594,933.00
910009040	WASHINGTON STATE PATROL AT 0.1%	1.000	LS	664,873.00	664,873.00
910009050	FINAL DESIGN AT 8%	1.000	LS	53,189,867.00	53,189,867.00
SUBTOTAL: DESIGN AND OWNER COSTS					\$166,883,207.00
Bid Total					=====> \$1,138,595,512.85

**Notes:

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