


CITY OF MARYSVILLE AGENDA BILL

EXECUTIVE SUMMARY FOR ACTION

CITY COUNCIL MEETING DATE: May 14, 2018

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| AGENDA ITEM: | |
| Professional Services Agreement with HDR for engineering services for the 88 th ST NE Corridor Widening Project. | |
| PREPARED BY: | DIRECTOR APPROVAL: |
| Steven Miller, Project Manager |  |
| DEPARTMENT: | |
| Engineering | |
| ATTACHMENTS: | |
| Professional Services Agreement; Exhibits A – J. | |
| BUDGET CODE: | AMOUNT: |
| 30500030.563000, R1101 | \$ 999,165.63 |
| SUMMARY: | |
| <p>On November 18, 2017, the City advertised a Request for Proposal, asking firms to submit written proposals stating their qualifications to provide consultant services for the 88th ST NE Corridor Widening Project. The City received proposals from seven (7) firms and selected HDR, Perteeet, and WH Pacific to participate in an interview selection process. Interviews were conducted on January 26, 2018. HDR was selected by the consultant selection committee as the most qualified firm for the project.</p> <p>The project is funded in part by Snohomish County through an interlocal agreement for 50% of the contract cost, with matching funds to be provided by the City of Marysville.</p> <p>It is requested at this time that Council authorize an agreement with HDR, Inc. to perform preliminary design for the project. Design documents will be advanced to 30% progress completion. The documents will consist of plans, environmental documentation, construction estimate, and other deliverables necessary to complete 30% design development.</p> | |

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| RECOMMENDED ACTION: |
| Staff recommends that Council authorize the Mayor to sign and execute the Professional Services Agreement with HDR, in the amount of \$ 999,165.63 for engineering services to develop 30% design documents for the widening of 88 th ST NE, between State Ave and 67 th Ave NE. |

Local Agency A&E Professional Services Cost Plus Fixed Fee Consultant Agreement

Agreement Number:

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| Firm/Organization Legal Name (do not use dba's): HDR Engineering, Inc. | |
| Address 929 108th Ave. NE, Suite 1300, Bellevue, WA 98005 | Federal Aid Number HSIP-000S(441) |
| UBI Number 6010021437 | Federal TIN or SSN Number 47-0680568 |
| Execution Date | Completion Date September 30, 2019 |
| 1099 Form Required <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Federal Participation <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Project Title City of Marysville - 88th Street NE Corridor Improvement Project - State Avenue to 67th Avenue NE | |
| Description of Work See Exhibit "A", Scope of Work attached hereto and made a part of this agreement. | |
| <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No DBE Participation <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No MBE Participation <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No WBE Participation <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No SBE Participation | Total Amount Authorized: \$999,165.63 |

Index of Exhibits

- Exhibit A Scope of Work
- ~~Exhibit B DBE Participation/SBE Plan~~
- Exhibit C Preparation and Delivery of Electronic Engineering and Other Data
- Exhibit D Prime Consultant Cost Computations
- Exhibit E Sub-consultant Cost Computations
- Exhibit F Title VI Assurances
- Exhibit G Certification Documents
- ~~Exhibit H Liability Insurance Increase~~
- Exhibit I Alleged Consultant Design Error Procedures
- Exhibit J Consultant Claim Procedures

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THIS AGREEMENT, made and entered into as shown in the "Execution Date" box on page one (1) of this AGREEMENT, between the hereinafter called the "AGENCY," and the "Firm / Organization Name" referenced on page one (1) of this AGREEMENT, hereinafter called the "CONSULTANT."

WHEREAS, the AGENCY desires to accomplish the work referenced in "Description of Work" on page one (1) of this AGREEMENT and hereafter called the "SERVICES;" and does not have sufficient staff to meet the required commitment and therefore deems it advisable and desirable to engage the assistance of a CONSULTANT to provide the necessary SERVICES; and

WHEREAS, the CONSULTANT represents that they comply with the Washington State Statutes relating to professional registration, if applicable, and has signified a willingness to furnish consulting services to the AGENCY.

NOW, THEREFORE, in consideration of the terms, conditions, covenants, and performance contained herein, or attached and incorporated and made a part hereof, the parties hereto agree as follows:

I. General Description of Work

The work under this AGREEMENT shall consist of the above-described SERVICES as herein defined, and necessary to accomplish the completed work for this project. The CONSULTANT shall furnish all services, labor, and related equipment and, if applicable, sub-consultants and subcontractors necessary to conduct and complete the SERVICES as designated elsewhere in this AGREEMENT.

II. General Scope of Work

The Scope of Work and projected level of effort required for these SERVICES is described in Exhibit "A" attached hereto and by this reference made a part of this AGREEMENT. The General Scope of Work was developed utilizing performance based contracting methodologies.

III. General Requirements

All aspects of coordination of the work of this AGREEMENT with outside agencies, groups, or individuals shall receive advance approval by the AGENCY. Necessary contacts and meetings with agencies, groups, and/or individuals shall be coordinated through the AGENCY. The CONSULTANT shall attend coordination, progress, and presentation meetings with the AGENCY and/or such State, Federal, Community, City, or County officials, groups or individuals as may be requested by the AGENCY. The AGENCY will provide the CONSULTANT sufficient notice prior to meetings requiring CONSULTANT participation. The minimum required hours or days' notice shall be agreed to between the AGENCY and the CONSULTANT and shown in Exhibit "A."

The CONSULTANT shall prepare a monthly progress report, in a form approved by the AGENCY, which will outline in written and graphical form the various phases and the order of performance of the SERVICES in sufficient detail so that the progress of the SERVICES can easily be evaluated.

The CONSULTANT, any sub-consultants, and the AGENCY shall comply with all Federal, State, and local laws, rules, codes, regulations, and all AGENCY policies and directives, applicable to the work to be performed under this AGREEMENT. This AGREEMENT shall be interpreted and construed in accordance with the laws of the State of Washington.

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Participation for Disadvantaged Business Enterprises (DBE) or Small Business Enterprises (SBE), if required, per 49 CFR Part 26, shall be shown on the heading of this AGREEMENT. If DBE firms are utilized at the commencement of this AGREEMENT, the amounts authorized to each firm and their certification number will be shown on Exhibit "B" attached hereto and by this reference made part of this AGREEMENT. If the Prime CONSULTANT is a DBE certified firm they must comply with the Commercial Useful Function (CUF) regulation outlined in the AGENCY's "DBE Program Participation Plan" and perform a minimum of 30% of the total amount of this AGREEMENT. It is recommended, but not required, that non-DBE Prime CONSULTANTS perform a minimum of 30% of the total amount of this AGREEMENT.

In the absents of a mandatory UDBE, a voluntary SBE goal amount of ten percent of the Consultant Agreement is established. The Consultant shall submit a SBE Participation Plan prior to commencing work. Although the goal is voluntary, the outreach efforts to provide SBE maximum practicable opportunities are not.

The CONSULTANT, on a monthly basis, shall enter the amounts paid to all firms involved with this AGREEMENT into the wsdot.diversitycompliance.com program. Payment information shall identify any DBE Participation. Non-minority, woman owned DBEs does not count towards UDBE goal attainment.

All Reports, PS&E materials, and other data furnished to the CONSULTANT by the AGENCY shall be returned. All electronic files, prepared by the CONSULTANT, must meet the requirements as outlined in Exhibit "C – Preparation and Delivery of Electronic Engineering and other Data."

All designs, drawings, specifications, documents, and other work products, including all electronic files, prepared by the CONSULTANT prior to completion or termination of this AGREEMENT are instruments of service for these SERVICES, and are the property of the AGENCY. Reuse by the AGENCY or by others, acting through or on behalf of the AGENCY of any such instruments of service, not occurring as a part of this SERVICE, shall be without liability or legal exposure to the CONSULTANT.

Any and all notices or requests required under this AGREEMENT shall be made in writing and sent to the other party by (i) certified mail, return receipt requested, or (ii) by email or facsimile, to the address set forth below:

If to AGENCY:

Name: Steven Miller
Agency: City of Marysville
Address: 80 Columbia Avenue
City: Marysville State: wa Zip: 98270
Email: smiller@marysvillewa.gov
Phone: (360) 363-8285
Facsimile: (360) 651-5099

If to CONSULTANT:

Name: Michael Pawlak, PE
Agency: HDR Engineering, Inc.
Address: 2707 Colby Avenue, Suite 715
City: Everett State: WA Zip: 98201
Email: Michael.Pawlak@hdrinc.com
Phone: (425) 245-9140
Facsimile:

IV. Time for Beginning and Completion

The CONSULTANT shall not begin any work under the terms of this AGREEMENT until authorized in writing by the AGENCY. All work under this AGREEMENT shall be completed by the date shown in the heading of this AGREEMENT titled "Completion Date."

The established completion time shall not be extended because of any delays attributable to the CONSULTANT, but may be extended by the AGENCY in the event of a delay attributable to the AGENCY, or because of unavoidable delays caused by an act of GOD, governmental actions, or other conditions beyond the control of the CONSULTANT. A prior supplemental AGREEMENT issued by the AGENCY is required to extend the established completion time.

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V. Payment Provisions

The CONSULTANT shall be paid by the AGENCY for completed SERVICES rendered under this AGREEMENT as provided hereinafter. Such payment shall be full compensation for SERVICES performed or SERVICES rendered and for all labor, materials, supplies, equipment, and incidentals necessary to complete SERVICES, specified in Section II, "Scope of Work". The CONSULTANT shall conform to all applicable portions of 48 CFR Part 31 (www.ecfr.gov). The estimate in support of the Cost Plus Fixed Fee amount is attached hereto as Exhibits "D" and "E" and by this reference made part of this AGREEMENT.

A. Actual Costs: Payment for all consulting services for this PROJECT shall be on the basis of the CONSULTANT'S actual cost plus a fixed fee. The actual cost shall include direct salary cost, indirect cost rate, and direct non-salary costs.

1. Direct (RAW) Labor Costs: The Direct (RAW) Labor Cost is the direct salary paid to principals, professional, technical, and clerical personnel for the time they are productively engaged in work necessary to fulfill the terms of this AGREEMENT. The CONSULTANT shall maintain support data to verify the direct salary costs billed to the AGENCY.
2. Indirect Cost Rate (ICR) Costs: ICR Costs are those costs, other than direct costs, which are included as such on the books of the CONSULTANT in the normal everyday keeping of its books. Progress payments shall be made at the ICR rates shown in attached Exhibits "D" and "E" of this AGREEMENT. Total ICR payment shall be based on Actual Costs. The AGENCY agrees to reimburse the CONSULTANT the actual ICR costs verified by audit, up to the Maximum Total Amount Payable, authorized under this AGREEMENT, when accumulated with all other Actual Costs.

A summary of the CONSULTANT'S cost estimate and the ICR percentage is shown in Exhibits "D" and "E", attached hereto and by this reference made part of this AGREEMENT. The CONSULTANT (prime and all sub-consultants) will submit to the AGENCY within six (6) months after the end of each firm's fiscal year, an ICR schedule in the format required by the AGENCY (cost category, dollar expenditures, etc.) for the purpose of adjusting the ICR rate for billings received and paid during the fiscal year represented by the ICR schedule. It shall also be used for the computation of progress payments during the following year and for retroactively adjusting the previous year's ICR cost to reflect the actual rate. The ICR schedule will be sent to Email: ConsultantRates@wsdot.wa.gov.

Failure to supply this information by either the prime CONSULTANT or any of their sub-consultants shall cause the AGENCY to withhold payment of the billed ICR costs until such time as the required information is received and an overhead rate for billing purposes is approved.

The AGENCY'S Project Manager and/or the Federal Government may perform an audit of the CONSULTANT'S books and records at any time during regular business hours to determine the actual ICR rate, if they so desire.

3. Direct Non-Salary Costs: Direct Non-Salary Costs will be reimbursed at the Actual Cost to the CONSULTANT. These charges may include, but are not limited to, the following items: travel, printing, long distance telephone, supplies, computer charges and fees of sub-consultants. Air or train travel will be reimbursed only to economy class levels unless otherwise approved by the AGENCY. The CONSULTANT shall comply with the rules and regulations regarding travel costs (excluding air, train, and rental car costs) in accordance with WSDOT's Accounting Manual M 13-82, Chapter 10 – Travel Rules and Procedures, and revisions thereto. Air, train, and rental car costs shall be reimbursed in accordance with 48 Code of Federal Regulations (CFR) Part 31.205-46 "Travel Costs." The billing for Direct Non-Salary Costs shall include an itemized listing of the charges directly identifiable with the PROJECT. The CONSULTANT shall maintain the original supporting documents in their office. Copies of the original supporting documents shall be supplied to the AGENCY upon request. All above charges must be necessary for the services provided under this AGREEMENT.

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4. Fixed Fee: The Fixed Fee, which represents the CONSULTANT'S profit, is shown in attached Exhibits "D" and "E" of this AGREEMENT. This fee is based on the Scope of Work defined in this AGREEMENT and the estimated person-hours required to perform the stated Scope of Work. In the event the CONSULTANT enters into a supplemental AGREEMENT for additional work, the supplemental AGREEMENT may include provisions for the added costs and an appropriate additional fee. The Fixed Fee will be prorated and paid monthly in proportion to the percentage of work completed by the CONSULTANT and reported in the Monthly Progress Reports accompanying the billings. Any portion of the Fixed Fee earned but not previously paid in the progress payments will be covered in the final payment, subject to the provisions of Section IX entitled "Termination of Agreement."
 5. Management Reserve Fund (MRF): The AGENCY may desire to establish MRF to provide the Agreement Administrator with the flexibility to authorize additional funds to the AGREEMENT for allowable unforeseen costs, or reimbursing the CONSULTANT for additional work beyond that already defined in this AGREEMENT. Such authorization(s) shall be in writing and shall not exceed the lesser of \$100,000 or 10% of the Total Amount Authorized as shown in the heading of this AGREEMENT. The amount included for the MRF is shown in the heading of this AGREEMENT. This fund may not be replenished. Any changes requiring additional costs in excess of the MRF shall be made in accordance with Section XIII, "Extra Work."
 6. Maximum Total Amount Payable: The Maximum Total Amount Payable by the AGENCY to the CONSULTANT under this AGREEMENT shall not exceed the amount shown in the heading of this AGREEMENT. The Maximum Total Amount Payable is comprised of the Total Amount Authorized, and the MRF. The Maximum Total Amount Payable does not include payment for Extra Work as stipulated in Section XIII, "Extra Work." No minimum amount payable is guaranteed under this AGREEMENT.
- B. Monthly Progress Payments: The CONSULTANT may submit billings to the AGENCY for reimbursement of Actual Costs plus the ICR and calculated fee on a monthly basis during the progress of the work. Such billings shall be in a format approved by the AGENCY and accompanied by the monthly progress reports required under Section III, "General Requirements" of this AGREEMENT. The billings will be supported by an itemized listing for each item including Direct (RAW) Labor, Direct Non-Salary, and allowable ICR Costs to which will be added the prorated Fixed Fee. To provide a means of verifying the billed Direct (RAW) Labor costs for CONSULTANT employees, the AGENCY may conduct employee interviews. These interviews may consist of recording the names, titles, Direct (RAW) Labor rates, and present duties of those employees performing work on the PROJECT at the time of the interview.
- C. Final Payment: Final Payment of any balance due the CONSULTANT of the gross amount earned will be made promptly upon its verification by the AGENCY after the completion of the work under this AGREEMENT, contingent, if applicable, upon receipt of all PS&E, plans, maps, notes, reports, electronic data and other related documents which are required to be furnished under this AGREEMENT. Acceptance of such Final Payment by the CONSULTANT shall constitute a release of all claims for payment, which the CONSULTANT may have against the AGENCY unless such claims are specifically reserved in writing and transmitted to the AGENCY by the CONSULTANT prior to its acceptance. Said Final Payment shall not, however, be a bar to any claims that the AGENCY may have against the CONSULTANT or to any remedies the AGENCY may pursue with respect to such claims.

The payment of any billing will not constitute agreement as to the appropriateness of any item and at the time of final audit; all required adjustments will be made and reflected in a final payment. In the event that such final audit reveals an overpayment to the CONSULTANT, the CONSULTANT will refund such overpayment to the AGENCY within thirty (30) calendar days of notice of the overpayment. Such refund shall not constitute a waiver by the CONSULTANT for any claims relating to the validity of a finding by the AGENCY of overpayment. The CONSULTANT has twenty (20) working days after receipt of the final POST AUDIT to begin the appeal process to the AGENCY for audit findings.

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D. Inspection of Cost Records: The CONSULTANT and their sub-consultants shall keep available for inspection by representatives of the AGENCY and the United States, for a period of six (6) years after receipt of final payment, the cost records and accounts pertaining to this AGREEMENT and all items related to or bearing upon these records with the following exception: if any litigation, claim or audit arising out of, in connection with, or related to this AGREEMENT is initiated before the expiration of the six (6) year period, the cost records and accounts shall be retained until such litigation, claim, or audit involving the records is completed.

An interim or post audit may be performed on this AGREEMENT. The audit, if any, will be performed by the State Auditor, WSDOT's Internal Audit Office and/or at the request of the AGENCY's Project Manager.

VI. Sub-Contracting

The AGENCY permits subcontracts for those items of SERVICES as shown in Exhibit "A" attached hereto and by this reference made part of this AGREEMENT.

The CONSULTANT shall not subcontract for the performance of any SERVICE under this AGREEMENT without prior written permission of the AGENCY. No permission for subcontracting shall create, between the AGENCY and sub-consultant, any contract or any other relationship.

Compensation for this sub-consultant SERVICES shall be based on the cost factors shown on Exhibit "E" attached hereto and by this reference made part of this AGREEMENT.

The SERVICES of the sub-consultant shall not exceed its maximum amount payable identified in each sub-consultant cost estimate unless a prior written approval has been issued by the AGENCY.

All reimbursable direct labor, indirect cost rate, direct non-salary costs and fixed fee costs for the sub-consultant shall be negotiated and substantiated in accordance with section V "Payment Provisions" herein and shall be memorialized in a final written acknowledgement between the parties.

All subcontracts shall contain all applicable provisions of this AGREEMENT, and the CONSULTANT shall require each sub-consultant or subcontractor, of any tier, to abide by the terms and conditions of this AGREEMENT. With respect to sub-consultant payment, the CONSULTANT shall comply with all applicable sections of the STATE's Prompt Payment laws as set forth in RCW 39.04.250 and RCW 39.76.011.

The CONSULTANT, sub-recipient, or sub-consultant shall not discriminate on the basis of race, color, national origin, or sex in the performance of this AGREEMENT. The CONSULTANT shall carry out applicable requirements of 49 CFR Part 26 in the award and administration of DOT-assisted contracts. Failure by the CONSULTANT to carry out these requirements is a material breach of this AGREEMENT, which may result in the termination of this AGREEMENT or such other remedy as the recipient deems appropriate.

VII. Employment and Organizational Conflict of Interest

The CONSULTANT warrants that they have not employed or retained any company or person, other than a bona fide employee working solely for the CONSULTANT, to solicit or secure this contract, and that it has not paid or agreed to pay any company or person, other than a bona fide employee working solely for the CONSULTANT, any fee, commission, percentage, brokerage fee, gift, or any other consideration, contingent upon or resulting from the award or making of this contract. For breach or violation of this warrant, the AGENCY shall have the right to annul this AGREEMENT without liability or, in its discretion, to deduct from this AGREEMENT price or consideration or otherwise recover the full amount of such fee, commission, percentage, brokerage fee, gift, or contingent fee.

Any and all employees of the CONSULTANT or other persons while engaged in the performance of any work or services required of the CONSULTANT under this AGREEMENT, shall be considered employees of the CONSULTANT only and not of the AGENCY, and any and all claims that may arise under any Workmen's

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Compensation Act on behalf of said employees or other persons while so engaged, and any and all claims made by a third party as a consequence of any act or omission on the part of the CONSULTANT's employees or other persons while so engaged on any of the work or services provided to be rendered herein, shall be the sole obligation and responsibility of the CONSULTANT.

The CONSULTANT shall not engage, on a full- or part-time basis, or other basis, during the period of this AGREEMENT, any professional or technical personnel who are, or have been, at any time during the period of this AGREEMENT, in the employ of the United States Department of Transportation or the AGENCY, except regularly retired employees, without written consent of the public employer of such person if he/she will be working on this AGREEMENT for the CONSULTANT.

VIII. Nondiscrimination

During the performance of this AGREEMENT, the CONSULTANT, for itself, its assignees, sub-consultants, subcontractors and successors in interest, agrees to comply with the following laws and regulations:

- Title VI of the Civil Rights Act of 1964 (42 U.S.C. Chapter 21 Subchapter V § 2000d through 2000d-4a)
- Federal-aid Highway Act of 1973 (23 U.S.C. Chapter 3 § 324)
- Rehabilitation Act of 1973 (29 U.S.C. Chapter 16 Subchapter V § 794)
- Age Discrimination Act of 1975 (42 U.S.C. Chapter 76 § 6101 *et. seq.*)
- Civil Rights Restoration Act of 1987 (Public Law 100-259)
- American with Disabilities Act of 1990 (42 U.S.C. Chapter 126 § 12101 *et. seq.*)
- 23 CFR Part 200
- 49 CFR Part 21
- 49 CFR Part 26
- RCW 49.60.180

In relation to Title VI of the Civil Rights Act of 1964, the CONSULTANT is bound by the provisions of Exhibit "F" attached hereto and by this reference made part of this AGREEMENT, and shall include the attached Exhibit "F" in every sub-contract, including procurement of materials and leases of equipment, unless exempt by the Regulations or directives issued pursuant thereto.

IX. Termination of Agreement

The right is reserved by the AGENCY to terminate this AGREEMENT at any time with or without cause upon ten (10) days written notice to the CONSULTANT.

In the event this AGREEMENT is terminated by the AGENCY, other than for default on the part of the CONSULTANT, a final payment shall be made to the CONSULTANT for actual hours charged and any appropriate fixed fee percentage at the time of termination of this AGREEMENT, plus any direct non-salary costs incurred up to the time of termination of this AGREEMENT.

No payment shall be made for any SERVICES completed after ten (10) days following receipt by the CONSULTANT of the notice to terminate. If the accumulated payment made to the CONSULTANT prior to Notice of Termination exceeds the total amount that would be due when computed as set forth in paragraph two (2) of this section, then no final payment shall be due and the CONSULTANT shall immediately reimburse the AGENCY for any excess paid.

If the services of the CONSULTANT are terminated by the AGENCY for default on the part of the CONSULTANT, the above formula for payment shall not apply.

In the event of a termination for default, the amount to be paid to the CONSULTANT shall be determined by the AGENCY with consideration given to the actual costs incurred by the CONSULTANT in performing SERVICES to the date of termination, the amount of SERVICES originally required which was satisfactorily completed to

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date of termination, whether that SERVICE is in a form or a type which is usable to the AGENCY at the time of termination, the cost to the AGENCY of employing another firm to complete the SERVICES required and the time which may be required to do so, and other factors which affect the value to the AGENCY of the SERVICES performed at the time of termination. Under no circumstances shall payment made under this subsection exceed the amount, which would have been made using the formula set forth in paragraph two (2) of this section.

If it is determined for any reason that the CONSULTANT was not in default or that the CONSULTANT's failure to perform is without the CONSULTANT's or its employee's fault or negligence, the termination shall be deemed to be a termination for the convenience of the AGENCY. In such an event, the CONSULTANT would be reimbursed for actual costs and appropriate fixed fee percentage in accordance with the termination for other than default clauses listed previously.

The CONSULTANT shall, within 15 days, notify the AGENCY in writing, in the event of the death of any member, partner, or officer of the CONSULTANT or the death or change of any of the CONSULTANT's supervisory and/or other key personnel assigned to the project or disaffiliation of any principally involved CONSULTANT employee. The CONSULTANT shall also notify the AGENCY, in writing, in the event of the sale or transfer of 50% or more of the beneficial ownership of the CONSULTANT within 15 days of such sale or transfer occurring. The CONSULTANT shall continue to be obligated to complete the SERVICES under the terms of this AGREEMENT unless the AGENCY chooses to terminate this AGREEMENT for convenience or chooses to renegotiate any term(s) of this AGREEMENT. If termination for convenience occurs, final payment will be made to the CONSULTANT as set forth in the second and third paragraphs of this section.

Payment for any part of the SERVICES by the AGENCY shall not constitute a waiver by the AGENCY of any remedies of any type it may have against the CONSULTANT for any breach of this AGREEMENT by the CONSULTANT, or for failure of the CONSULTANT to perform SERVICES required of it by the AGENCY. Forbearance of any rights under the AGREEMENT will not constitute waiver of entitlement to exercise those rights with respect to any future act or omission by the CONSULTANT.

X. Changes of Work

The CONSULTANT shall make such changes and revisions in the completed work of this AGREEMENT as necessary to correct errors appearing therein, without additional compensation thereof. Should the AGENCY find it desirable for its own purposes to have previously satisfactorily completed SERVICES or parts thereof changed or revised, the CONSULTANT shall make such revisions as directed by the AGENCY. This work shall be considered as Extra Work and will be paid for as herein provided under section XIII "Extra Work."

XI. Disputes

Any disputed issue not resolved pursuant to the terms of this AGREEMENT shall be submitted in writing within 10 days to the Director of Public Works or AGENCY Engineer, whose decision in the matter shall be final and binding on the parties of this AGREEMENT; provided however, that if an action is brought challenging the Director of Public Works or AGENCY Engineer's decision, that decision shall be subject to judicial review. If the parties to this AGREEMENT mutually agree, disputes concerning alleged design errors will be conducted under the procedures found in Exhibit "J". In the event that either party deem it necessary to institute legal action or proceeding to enforce any right or obligation under this AGREEMENT, this action shall be initiated in the Superior Court of the State of Washington, situated in the county in which the AGENCY is located. The parties hereto agree that all questions shall be resolved by application of Washington law and that the parties have the right of appeal from such decisions of the Superior Court in accordance with the laws of the State of Washington. The CONSULTANT hereby consents to the personal jurisdiction of the Superior Court of the State of Washington, situated in the county in which the AGENCY is located.

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XII. Legal Relations

The CONSULTANT, any sub-consultants, and the AGENCY shall comply with all Federal, State, and local laws, rules, codes, regulations and all AGENCY policies and directives, applicable to the work to be performed under this AGREEMENT. This AGREEMENT shall be interpreted and construed in accordance with the laws of the State of Washington.

The CONSULTANT shall defend, indemnify, and hold The State of Washington (STATE) and the AGENCY and their officers and employees harmless from all claims, demands, or suits at law or equity arising in whole or in part from the negligence of, or the breach of any obligation under this AGREEMENT by, the CONSULTANT or the CONSULTANT's agents, employees, sub consultants, subcontractors or vendors, of any tier, or any other persons for whom the CONSULTANT may be legally liable; provided that nothing herein shall require a CONSULTANT to defend or indemnify the STATE and the AGENCY and their officers and employees against and hold harmless the STATE and the AGENCY and their officers and employees from claims, demands or suits based solely upon the negligence of, or breach of any obligation under this AGREEMENT by the STATE and the AGENCY, their agents, officers, employees, sub-consultants, subcontractors or vendors, of any tier, or any other persons for whom the STATE and/or the AGENCY may be legally liable; and provided further that if the claims or suits are caused by or result from the concurrent negligence of (a) the CONSULTANT or the CONSULTANT's agents, employees, sub-consultants, subcontractors or vendors, of any tier, or any other persons for whom the CONSULTANT is legally liable, and (b) the STATE and/or AGENCY, their agents, officers, employees, sub-consultants, subcontractors and or vendors, of any tier, or any other persons for whom the STATE and or AGENCY may be legally liable, the defense and indemnity obligation shall be valid and enforceable only to the extent of the CONSULTANT's negligence or the negligence of the CONSULTANT's agents, employees, sub-consultants, subcontractors or vendors, of any tier, or any other persons for whom the CONSULTANT may be legally liable. This provision shall be included in any AGREEMENT between CONSULTANT and any sub-consultant, subcontractor and vendor, of any tier.

The CONSULTANT shall also defend, indemnify, and hold the STATE and the AGENCY and their officers and employees harmless from all claims, demands, or suits at law or equity arising in whole or in part from the alleged patent or copyright infringement or other allegedly improper appropriation or use of trade secrets, patents, proprietary information, know-how, copyright rights or inventions by the CONSULTANT or the CONSULTANT's agents, employees, sub-consultants, subcontractors or vendors, of any tier, or any other persons for whom the CONSULTANT may be legally liable, in performance of the Work under this AGREEMENT or arising out of any use in connection with the AGREEMENT of methods, processes, designs, information or other items furnished or communicated to STATE and/or the AGENCY, their agents, officers and employees pursuant to the AGREEMENT; provided that this indemnity shall not apply to any alleged patent or copyright infringement or other allegedly improper appropriation or use of trade secrets, patents, proprietary information, know-how, copyright rights or inventions resulting from STATE and/or AGENCY's, their agents', officers' and employees' failure to comply with specific written instructions regarding use provided to STATE and/or AGENCY, their agents, officers and employees by the CONSULTANT, its agents, employees, sub-consultants, subcontractors or vendors, of any tier, or any other persons for whom the CONSULTANT may be legally liable.

The CONSULTANT's relation to the AGENCY shall be at all times as an independent contractor.

Notwithstanding any determination by the Executive Ethics Board or other tribunal, the AGENCY may, in its sole discretion, by written notice to the CONSULTANT terminate this AGREEMENT if it is found after due notice and examination by the AGENCY that there is a violation of the Ethics in Public Service Act, Chapter 42.52 RCW; or any similar statute involving the CONSULTANT in the procurement of, or performance under, this AGREEMENT.

The CONSULTANT specifically assumes potential liability for actions brought by the CONSULTANT's own employees or its agents against the STATE and /or the AGENCY and, solely for the purpose of this indemnification and defense, the CONSULTANT specifically waives any immunity under the state industrial insurance law, Title 51 RCW. This waiver has been mutually negotiated between the Parties.

Agreement Number:

Unless otherwise specified in this AGREEMENT, the AGENCY shall be responsible for administration of construction contracts, if any, on the project. Subject to the processing of a new sole source, or an acceptable supplemental AGREEMENT, the CONSULTANT shall provide On-Call assistance to the AGENCY during contract administration. By providing such assistance, the CONSULTANT shall assume no responsibility for: proper construction techniques, job site safety, or any construction contractor's failure to perform its work in accordance with the contract documents.

The CONSULTANT shall obtain and keep in force during the terms of this AGREEMENT, or as otherwise required, the following insurance with companies or through sources approved by the State Insurance Commissioner pursuant to Title 48 RCW.

Insurance Coverage

- A. Worker's compensation and employer's liability insurance as required by the STATE.
- B. Commercial general liability insurance written under ISO Form CG 00 01 12 04 or its equivalent with minimum limits of one million dollars (\$1,000,000.00) per occurrence and two million dollars (\$2,000,000.00) in the aggregate for each policy period.
- C. Business auto liability insurance written under ISO Form CG 00 01 10 01 or equivalent providing coverage for any "Auto" (Symbol 1) used in an amount not less than a one million dollar (\$1,000,000.00) combined single limit for each occurrence.

Excepting the Worker's Compensation Insurance and any Professional Liability Insurance, the STATE and AGENCY, their officers, employees, and agents will be named on all policies of CONSULTANT and any sub-consultant and/or subcontractor as an additional insured (the "AIs"), with no restrictions or limitations concerning products and completed operations coverage. This coverage shall be primary coverage and non-contributory and any coverage maintained by the AIs shall be excess over, and shall not contribute with, the additional insured coverage required hereunder. The CONSULTANT's and the sub-consultant's and/or subcontractor's insurer shall waive any and all rights of subrogation against the AIs. The CONSULTANT shall furnish the AGENCY with verification of insurance and endorsements required by this AGREEMENT. The AGENCY reserves the right to require complete, certified copies of all required insurance policies at any time.

All insurance shall be obtained from an insurance company authorized to do business in the State of Washington. The CONSULTANT shall submit a verification of insurance as outlined above within fourteen (14) days of the execution of this AGREEMENT to:

Name: Steven Miller
Agency: City of Marysville
Address: 80 Columbia Avenue
City: Marysville State: WA Zip: 98270
Email: smiller@marysvillewa.gov
Phone: (360) 363-8285
Facsimile: (360) 651-5099

No cancellation of the foregoing policies shall be effective without thirty (30) days prior notice to the AGENCY.

The CONSULTANT's professional liability to the AGENCY, including that which may arise in reference to section IX "Termination of Agreement" of this AGREEMENT, shall be limited to the accumulative amount of the authorized AGREEMENT amount or one million dollars (\$1,000,000.00), whichever is greater, unless the limit of liability is increased by the AGENCY pursuant to Exhibit H. In no case shall the CONSULTANT's professional liability to third parties be limited in any way.

Agreement Number:

The parties enter into this AGREEMENT for the sole benefit of the parties, and to the exclusion of any third party, and no third party beneficiary is intended or created by the execution of this AGREEMENT.

The AGENCY will pay no progress payments under section V "Payment Provisions" until the CONSULTANT has fully complied with this section. This remedy is not exclusive; and the AGENCY may take such other action as is available to it under other provisions of this AGREEMENT, or otherwise in law.

XIII. Extra Work

- A. The AGENCY may at any time, by written order, make changes within the general scope of this AGREEMENT in the SERVICES to be performed.
- B. If any such change causes an increase or decrease in the estimated cost of, or the time required for, performance of any part of the SERVICES under this AGREEMENT, whether or not changed by the order, or otherwise affects any other terms and conditions of this AGREEMENT, the AGENCY shall make an equitable adjustment in the: (1) maximum amount payable; (2) delivery or completion schedule, or both; and (3) other affected terms and shall modify this AGREEMENT accordingly.
- C. The CONSULTANT must submit any "request for equitable adjustment," hereafter referred to as "CLAIM," under this clause within thirty (30) days from the date of receipt of the written order. However, if the AGENCY decides that the facts justify it, the AGENCY may receive and act upon a CLAIM submitted before final payment of this AGREEMENT.
- D. Failure to agree to any adjustment shall be a dispute under the section XI "Disputes" clause. However, nothing in this clause shall excuse the CONSULTANT from proceeding with the AGREEMENT as changed.
- E. Notwithstanding the terms and conditions of paragraphs (A.) and (B.) above, the maximum amount payable for this AGREEMENT, shall not be increased or considered to be increased except by specific written supplement to this AGREEMENT.

XIV. Endorsement of Plans

If applicable, the CONSULTANT shall place their endorsement on all plans, estimates, or any other engineering data furnished by them.

XV. Federal Review

The Federal Highway Administration shall have the right to participate in the review or examination of the SERVICES in progress.

XVI. Certification of the Consultant and the Agency

Attached hereto as Exhibit "G-1(a and b)" are the Certifications of the CONSULTANT and the AGENCY, Exhibit "G-2" Certification Regarding Debarment, Suspension and Other Responsibility Matters - Primary Covered Transactions, Exhibit "G-3" Certification Regarding the Restrictions of the Use of Federal Funds for Lobbying and Exhibit "G-4" Certificate of Current Cost or Pricing Data. Exhibit "G-3" is required only in AGREEMENT's over one hundred thousand dollars (\$100,000.00) and Exhibit "G-4" is required only in AGREEMENT's over five hundred thousand dollars (\$500,000.00.) These Exhibits must be executed by the CONSULTANT, and submitted with the master AGREEMENT, and returned to the AGENCY at the address listed in section III "General Requirements" prior to its performance of any SERVICES under this AGREEMENT.

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XVII. Complete Agreement

This document and referenced attachments contain all covenants, stipulations, and provisions agreed upon by the parties. No agent, or representative of either party has authority to make, and the parties shall not be bound by or be liable for, any statement, representation, promise or agreement not set forth herein. No changes, amendments, or modifications of the terms hereof shall be valid unless reduced to writing and signed by the parties as a supplement to this AGREEMENT.

XVIII. Execution and Acceptance

This AGREEMENT may be simultaneously executed in several counterparts, each of which shall be deemed to be an original having identical legal effect. The CONSULTANT does hereby ratify and adopt all statements, representations, warranties, covenants, and AGREEMENT's contained in the proposal, and the supporting material submitted by the CONSULTANT, and does hereby accept this AGREEMENT and agrees to all of the terms and conditions thereof.

XIX. Protection of Confidential Information

The CONSULTANT acknowledges that some of the material and information that may come into its possession or knowledge in connection with this AGREEMENT or its performance may consist of information that is exempt from disclosure to the public or other unauthorized persons under either chapter 42.56 RCW or other local, state or federal statutes ("State's Confidential Information"). The "State's Confidential Information" includes, but is not limited to, names, addresses, Social Security numbers, e-mail addresses, telephone numbers, financial profiles, credit card information, driver's license numbers, medical data, law enforcement records (or any other information identifiable to an individual), STATE and AGENCY source code or object code, STATE and AGENCY security data, non-public Specifications, STATE and AGENCY non-publicly available data, proprietary software, State security data, or information which may jeopardize any part of the project that relates to any of these types of information. The CONSULTANT agrees to hold the State's Confidential Information in strictest confidence and not to make use of the State's Confidential Information for any purpose other than the performance of this AGREEMENT, to release it only to authorized employees, sub-consultants or subcontractors requiring such information for the purposes of carrying out this AGREEMENT, and not to release, divulge, publish, transfer, sell, disclose, or otherwise make it known to any other party without the AGENCY's express written consent or as provided by law. The CONSULTANT agrees to release such information or material only to employees, sub-consultants or subcontractors who have signed a nondisclosure AGREEMENT, the terms of which have been previously approved by the AGENCY. The CONSULTANT agrees to implement physical, electronic, and managerial safeguards to prevent unauthorized access to the State's Confidential Information.

Immediately upon expiration or termination of this AGREEMENT, the CONSULTANT shall, at the AGENCY's option: (i) certify to the AGENCY that the CONSULTANT has destroyed all of the State's Confidential Information; or (ii) returned all of the State's Confidential Information to the AGENCY; or (iii) take whatever other steps the AGENCY requires of the CONSULTANT to protect the State's Confidential Information.

As required under Executive Order 00-03, the CONSULTANT shall maintain a log documenting the following: the State's Confidential Information received in the performance of this AGREEMENT; the purpose(s) for which the State's Confidential Information was received; who received, maintained and used the State's Confidential Information; and the final disposition of the State's Confidential Information. The CONSULTANT's records shall be subject to inspection, review, or audit upon reasonable notice from the AGENCY.

The AGENCY reserves the right to monitor, audit, or investigate the use of the State's Confidential Information collected, used, or acquired by the CONSULTANT through this AGREEMENT. The monitoring, auditing, or investigating may include, but is not limited to, salting databases.

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Violation of this section by the CONSULTANT or its sub-consultants or subcontractors may result in termination of this AGREEMENT and demand for return of all State's Confidential Information, monetary damages, or penalties.

It is understood and acknowledged that the CONSULTANT may provide the AGENCY with information which is proprietary and/or confidential during the term of this AGREEMENT. The parties agree to maintain the confidentiality of such information during the term of this AGREEMENT and afterwards. All materials containing such proprietary and/or confidential information shall be clearly identified and marked as "Confidential" and shall be returned to the disclosing party at the conclusion of the SERVICES under this AGREEMENT.

The CONSULTANT shall provide the AGENCY with a list of all information and materials it considers confidential and/or proprietary in nature: (a) at the commencement of the term of this AGREEMENT; or (b) as soon as such confidential or proprietary material is developed. "Proprietary and/or confidential information" is not meant to include any information which, at the time of its disclosure: (i) is already known to the other party; (ii) is rightfully disclosed to one of the parties by a third party that is not acting as an agent or representative for the other party; (iii) is independently developed by or for the other party; (iv) is publicly known; or (v) is generally utilized by unaffiliated third parties engaged in the same business or businesses as the CONSULTANT.

The parties also acknowledge that the AGENCY is subject to Washington State and federal public disclosure laws. As such, the AGENCY shall maintain the confidentiality of all such information marked proprietary and/or confidential or otherwise exempt, unless such disclosure is required under applicable state or federal law. If a public disclosure request is made to view materials identified as "Proprietary and/or confidential information" or otherwise exempt information, the AGENCY will notify the CONSULTANT of the request and of the date that such records will be released to the requester unless the CONSULTANT obtains a court order from a court of competent jurisdiction enjoining that disclosure. If the CONSULTANT fails to obtain the court order enjoining disclosure, the AGENCY will release the requested information on the date specified.

The CONSULTANT agrees to notify the sub-consultant of any AGENCY communication regarding disclosure that may include a sub-consultant's proprietary and/or confidential information. The CONSULTANT notification to the sub-consultant will include the date that such records will be released by the AGENCY to the requester and state that unless the sub-consultant obtains a court order from a court of competent jurisdiction enjoining that disclosure the AGENCY will release the requested information. If the CONSULTANT and/or sub-consultant fail to obtain a court order or other judicial relief enjoining the AGENCY by the release date, the CONSULTANT shall waive and release and shall hold harmless and indemnify the AGENCY from all claims of actual or alleged damages, liabilities, or costs associated with the AGENCY's said disclosure of sub-consultants' information.

XX. Records Maintenance

During the progress of the Work and SERVICES provided hereunder and for a period of not less than six (6) years from the date of final payment to the CONSULTANT, the CONSULTANT shall keep, retain and maintain all "documents" pertaining to the SERVICES provided pursuant to this AGREEMENT. Copies of all "documents" pertaining to the SERVICES provided hereunder shall be made available for review at the CONSULTANT's place of business during normal working hours. If any litigation, claim or audit is commenced, the CONSULTANT shall cooperate with AGENCY and assist in the production of all such documents. "Documents" shall be retained until all litigation, claims or audit findings have been resolved even though such litigation, claim or audit continues past the six (6) year retention period.

For purposes of this AGREEMENT, "documents" means every writing or record of every type and description, including electronically stored information ("ESI"), that is in the possession, control, or custody of the CONSULTANT, including, without limitation, any and all correspondences, contracts, AGREEMENT 's, appraisals, plans, designs, data, surveys, maps, spreadsheets, memoranda, stenographic or handwritten notes, reports, records, telegrams, schedules, diaries, notebooks, logbooks, invoices, accounting records, work sheets, charts, notes, drafts, scribbles, recordings, visual displays, photographs, minutes of meetings,

Agreement Number:

tabulations, computations, summaries, inventories, and writings regarding conferences, conversations or telephone conversations, and any and all other taped, recorded, written, printed or typed matters of any kind or description; every copy of the foregoing whether or not the original is in the possession, custody, or control of the CONSULTANT, and every copy of any of the foregoing, whether or not such copy is a copy identical to an original, or whether or not such copy contains any commentary or notation whatsoever that does not appear on the original.

For purposes of this AGREEMENT, "ESI" means any and all computer data or electronic recorded media of any kind, including "Native Files", that are stored in any medium from which it can be retrieved and examined, either directly or after translation into a reasonably useable form. ESI may include information and/or documentation stored in various software programs such as: Email, Outlook, Word, Excel, Access, Publisher, PowerPoint, Adobe Acrobat, SQL databases, or any other software or electronic communication programs or databases that the CONSULTANT may use in the performance of its operations. ESI may be located on network servers, backup tapes, smart phones, thumb drives, CDs, DVDs, floppy disks, work computers, cell phones, laptops or any other electronic device that CONSULTANT uses in the performance of its Work or SERVICES hereunder, including any personal devices used by the CONSULTANT or any sub-consultant at home.

"Native files" are a subset of ESI and refer to the electronic format of the application in which such ESI is normally created, viewed, and /or modified.

The CONSULTANT shall include this section XX "Records Maintenance" in every subcontract it enters into in relation to this AGREEMENT and bind the sub-consultant to its terms, unless expressly agreed to otherwise in writing by the AGENCY prior to the execution of such subcontract.

In witness whereof, the parties hereto have executed this AGREEMENT as of the day and year shown in the "Execution Date" box on page one (1) of this AGREEMENT.

HDR ENGINEERING, INC

Signature

Date

CITY OF MARYSVILLE

Signature

Date

Any modification, change, or reformation of this AGREEMENT shall require approval as to form by the Office of the Attorney General.

Agreement Number:

Exhibit A
Scope of Work

Project No.

See attached.

Agreement Number:

**88th Street NE Corridor Improvement
Project
(State Avenue to 67th Avenue NE)**

**Scope of Services for Design, Environmental
Documentation & Permitting and Right-of-Way
Services**

MAY 2018

City of Marysville

Prepared by:



HDR
2707 Colby Avenue, Suite 715
Everett, WA 98201

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INTRODUCTION

During the term of this PROFESSIONAL SERVICES AGREEMENT (AGREEMENT), HDR Engineering, Inc. (CONSULTANT) shall perform professional services for the City of Marysville (CITY) in connection with the following project: **88th Street Corridor Improvement Project (State Avenue to 67th Avenue NE) (PROJECT)**

Background and Project Description

The City of Marysville first identified 88th Street NE as a major arterial corridor in its 1999 Transportation Master Plan. Since then, the City has maintained a long-term vision to improve the corridor from an unimproved rural 2-Lane section to a 3-Lane Urban Arterial section. This segment will complete the corridor between Interstate 5 and State Route 9 and connect previously completed City improvements between I-5 and State Avenue, and east of 67th Avenue NE.

88th Street NE is a primary east-west arterial corridor crossing the City of Marysville. It is one of only three corridors that directly connect I-5 with SR 9. The corridor provides direct access to residential neighborhoods on either side, serves as a primary link for Marysville citizens, and is a regional link carrying traffic from Unincorporated Snohomish County, Getchell and Granite Falls to I-5 and shopping areas within the Greater Marysville Area. The current section is defined as a rural 2-lane asphalt paved roadway with varying width shoulders. Storm drainage is generally handled by sheet flow and surface runoff; although there are short sections that have been improved with curb and gutter. The corridor crosses Allen Creek atop a 15-foot high earth embankment with vegetated steep banks. Adjacent properties currently utilize the public right-of-way outside the roadway limits for parking and lawn areas. Community Transit operates a transit line (Route 222) along the corridor with bus stops located near State Avenue, 51st Avenue NE, and 57th Avenue NE (eastbound) and near 57th Avenue NE, 61st Avenue NE, and 67th Avenue NE (westbound). Traffic along the corridor is controlled primarily by stop conditions on the side-street approaches and traffic signals at State Avenue, 51st Avenue NE, 55th Avenue NE and 67th Avenue NE.

The intent of this project is to reconstruct this segment of 88th Street NE to a 3-lane urban arterial section with curb & gutter, sidewalk, landscape planters, enclosed storm drainage facilities, and illumination. The existing box culvert will be replaced with a larger fish-passable structure and reconstructed roadway embankment with retaining walls. Additional traffic operations facilities will be evaluated to improve pedestrian and vehicle safety. To accomplish these improvements, Right-of-Way will be acquired and utility facilities will be relocated.

Scope of Work

The Consultant Agreement recognizes that funding availability and timing will impact the overall project schedule through the design, permitting, right-of-way acquisition, and construction phases. Funding availability and timing will also determine if construction of the corridor can be completed as one project or necessitate that the corridor be constructed in multiple packages (segments). The Consultant Agreement and this scope of work outlines and provides for the authorization of consultant services through the preparation

of Ad-Ready construction packages and bidding phase services for a maximum of two (2) separate construction packages.

This scope of work includes roadway design, survey, geotechnical testing and evaluation, subsurface utility exploration, PS&E development, traffic engineering and analysis, surface water low impact design, retaining wall and culvert design, utility coordination and design, permitting, right of way acquisition, environmental review and documentation, critical area delineation, stream and wetland mitigation, cultural resources review, public outreach, grant application assistance, bidding phase assistance and Council reports/updates.

This scope of work is based on the assumption that the data collection, preliminary design, initial environmental reconnaissance and Agency contacts, and 30% Design will be accomplished for the entire corridor. The scope of work and associated budget for efforts through 30% Corridor-wide Design is defined in the original Consultant Agreement.

The scopes of work for 60% Design, environmental permitting and Real Estate Services will be reviewed and modified as required once the 30% Design is complete and the project footprint is established such that property impacts can be identified. The scopes of work for 90% Design, Ad-Ready Construction Packages, and Bidding Phase Services will be reviewed and modified as construction funding is secured and the schedule is identified. Associated budgets for these efforts will be developed and authorized by supplemental agreement(s).

Construction management, engineering services during construction, construction inspection and documentation management, and materials testing can be added to the contract by the City as a supplement to this contract prior to that phase of work.

The overall project term through bidding phase of multiple construction segments is estimated to extend through mid-2023. The time of performance for the initial scope and budget estimate authorization is through September 2019.

Major Milestone Schedule

The following are major schedule milestones for the project:

Milestone Dates for work authorized in the Original Agreement

Conditions Assessment & Preliminary Design..... November 2018
Preliminary Engineering Report..... December 2018
30% Design..... July 2019

Projected Schedule Dates for work to be scoped by future supplement(s)

JARPA/NEPA/SEPA Submittal..... December 2019
60% Design..... January 2020
ROW Acquisition Complete..... February 2021

| | |
|------------------------------|---------------|
| 90% Design (Phase 1) | August 2021 |
| Ad-Ready (Phase 1) | December 2021 |
| Bidding Phase (Phase 1)..... | February 2022 |
| 90% Design (Phase 2)..... | August 2022 |
| Ad-Ready (Phase 2)..... | December 2022 |
| Bidding Phase (Phase 2)..... | February 2023 |

Project Assumptions

General Assumptions

1. The CONSULTANT Principal-in-Charge for this work will be **Paul A. Ferrier, PE**. The CONSULTANT Project Manager for this work will be **Michael A. Pawlak, PE**. The CITY's Project Manager for this project will be **Steve Miller, PE**.
2. The CITY will provide to the CONSULTANT pertinent information in the CITY's possession relating to the Project. The CONSULTANT will reasonably rely upon the accuracy, timeliness, and completeness of the information provided by the CITY.
3. The CITY shall provide or make available the following items to the CONSULTANT:
 - a. CITY of Marysville Design Standards & Guidelines
 - b. Existing GIS and survey mapping information of the project including but not limited to general utility location maps.
 - c. Copies of existing record drawing information of the project area.
 - d. Updated utility contact information.
 - e. One set of consolidated review comments for each Major Milestone Submittal (30%, 60%, and 90%).

Design Standards and References

The project shall be developed in accordance with the latest edition, amendments and revisions (as of execution of this AGREEMENT) of the following publications, where applicable:

- 1) City of Marysville Publications:
 - a) City of Marysville Engineering Design and Development Standards, Rev May 2007.
- 2) State Publications
 - a) 2018 Standard Specifications for Road, Bridge, and Municipal Construction (M 41-10)
 - b) Standard Plans for Road, Bridge, and Municipal Construction (M 21-01)
 - c) WSDOT Design Manual (M 22-01.13)
 - d) WSDOT Hydraulic Manual (M 23-03)
 - e) WSDOT Bridge Design Manual (M 23-50.16)
 - f) WSDOT Geotechnical Design Manual (M 46.03-09)
 - g) Amendments to the General Special Provisions

- h) WSDOT Standard Item Table
- i) WSDOT Highway Runoff Manual (M 31-16)
- j) WSDOT Environmental Manual (M 31-11)
- k) WSDOT Traffic Manual (M 51-02.08)
- l) WSDOT Local Agency Guidelines (M 36-63.32)
- m) WDFW Water Crossing Design Guidelines (2013)
- 3) WA Department of Ecology (DOE)
 - a) Stormwater Management Manual for Western Washington (2012)
- 4) American Association of State Highway and Transportation Officials (AASHTO)
 - a) A Policy on Geometric Design of Highways and Streets (“Green Book”); 2011, 6th Edition
 - b) AASHTO LRFD Bridge Design Specification 8th Edition; Sept 2017 and Interims
 - c) Any AASHTO policies where said policy is not in conflict with the standards of the City of Marysville.
- 5) U.S. Department of Transportation Publications:
 - a) Manual on Uniform Traffic Control Devices for Streets and Highways (2009 Edition with Revision Numbers 1 and 2, dated May 2012)
- 6) Other Publications
 - a) National Electric Code
 - b) Book of American Society for Testing and Materials Standards
 - c) ITE Trip Generation (10th Edition)
 - d) Highway Capacity Manual (6th Edition), Transportation Research Board
 - e) Franchise Utility Standards for Snohomish County PUD No. 1, PSE, Comcast, Frontier

Project Tasks

The CONSULTANT shall manage the work as described within the following major Work Elements:

TASK 1. PROJECT MANAGEMENT & ADMINISTRATION

This task will be continuous throughout the initial project duration, which is estimated to be 16 months (MAY 2018 through SEP 2019). It will include the work to set up and plan the project; establish project-specific procedures, including communication, safety and quality control (QC) plans; project coordination with the CONSULTANT staff and SUBCONSULTANTS; management of project scope, schedule and budget; invoicing and project status reporting; and project closeout. Components of this work including planning the Project, executing the Project, managing change, and closing the Project, include:

1.1. Project FTP Site, Project Set up, Management Plan, HASP

The CONSULTANT shall create and maintain a project ftp site that can be accessed by the CITY and CITY authorized stakeholders.

The CONSULTANT shall prepare a Project Management Plan (Project Guide) outlining the project scope, team organization, budget, schedule and communications plan. The Project Management Plan will also include the Project Quality Assurance / Quality Control Plan and Project Health and Safety Plan.

1.2. Project Team Coordination Meetings

The CONSULTANT shall hold bi-weekly Project Team Coordination Meetings with key CONSULTANT team members to discuss the PROJECT status, elements of the work plan, status of action items, and to discuss progress of the design and resolve any outstanding PROJECT issues that might affect the delivery of the PROJECT. SUBCONSULTANT project managers shall also attend these meetings as requested.

Assumptions:

- The initial project schedule through 30% Design will extend for 16 months, from MAY 2018 through SEP 2019.
- 36 bi-weekly project team coordination meetings
- The CONSULTANT shall be responsible for agendas for the PROJECT team meetings.
- Project Team Meetings will be held at the HDR Bellevue Office, and attended by the Project Manager, Design Manager, Discipline Leads, and Subconsultant Leads, as required. Members not located in the HDR Bellevue Office may attend via conference call.

Deliverable(s):

- There are no formal deliverables for this task.

1.3. Project Schedule

A Project schedule shall be developed by the CONSULTANT to establish Baseline Start and Baseline Finish dates for tasks and deliverables under this AGREEMENT, and shall be submitted to the CITY for review and approval, prior to commencement of any work under this AGREEMENT. The project schedule shall be developed using Microsoft Project software, and shall show a critical path leading to the project major milestone dates. The schedule for this project shall be updated bi-monthly and submitted to the CITY. The updated schedule will show Baseline, Actual and/or Projected Start and Finish dates that reflect the actual progress of the project.

Assumptions:

- 8 Bi-monthly schedule updates (once every two months)

Deliverable(s):

- Draft and final baseline schedule
- Bi-monthly project schedule updates (to be delivered at Monthly Client Coordination Meetings)

1.4. Progress Reporting and Invoicing

The CONSULTANT shall prepare and submit a **Progress Report** with each invoice. The Progress Report shall summarize:

- Work accomplished during the billing period.
- Work to be accomplished in the next billing period.
- Billing amounts assigned to water main and stormwater retrofit design for CITY accounting and potential grant reimbursements.
- Meetings attended.
- Problems/issues encountered and actions taken for their resolution.
- Potential impacts to project schedule, budget, or scope.
- Issues requiring CITY's action, attention and resolution.

Monthly Invoices for work completed will be submitted to the CITY. Backup information such as time and expense records for the CONSULTANT and SUBCONSULTANTS shall also be submitted with each invoice. The CITY will review the work accomplished by the CONSULTANT and the percent complete assessments for each task item in the Earned Value Worksheet.

The CONSULTANT shall submit an **Earned Value Report** within the progress report to track and update progress in the project schedule, budget, actual and planned expenditures.

Project Change: The CONSULTANT shall obtain written authorization from the CITY before implementing any change to this AGREEMENT scope of work, schedule or budget.

Deliverable(s):

- Monthly Progress Reports
- Monthly Invoices
- Monthly Earned Value Reports

1.5. Subconsultant Coordination

The CONSULTANT shall not subcontract for the performance of any work under this AGREEMENT without prior written permission of the CITY.

The CONSULTANT shall coordinate with SUBCONSULTANTS regarding contracting procedures, shall prepare and execute contracts with individual SUBCONSULTANTS, and shall address contract-related issues with the SUBCONSULTANTS as they arise during the project.

The work of the SUBCONSULTANT shall not exceed its maximum amount payable unless the CITY has issued prior written approval. Either a percent of the SUBCONSULTANT agreement or direct labor should be noted for administrative costs in the fee estimate and invoices. Subcontracts shall contain applicable provisions of this AGREEMENT.

1.6. Project Kick-off Meeting

The CONSULTANT will prepare for and conduct a Project Kick-off Meeting to provide the necessary basis for a successful project that satisfies the needs of the CITY, HDR, and community-at-large. The Project Kick-off Meeting agenda will include discussion of overall project needs, community goals, areas of responsibility, project scope, budget, and commitments to decision-making and schedule.

CITY Responsibilities:

- Attend and participate in the Project Kick-off Meeting.

Assumption(s):

- The Project Kick-off Meeting will be held at the CONSULTANT's Bellevue Office.
- The Project Kick-off Meeting will be attended by the CONSULTANT Project Manager, Design Manager, and up to nine (9) Discipline Leads; CITY Engineer, Project Manager, Permitting Lead; and other staff may participate via conference call.

Deliverable(s):

- Project Kick-off Meeting agenda and summary notes, delivered electronically (PDF) to all participants within 5 working days of the meeting.

1.7. Project Team Management

The CONSULTANT shall provide an experienced project manager to oversee, schedule and manage the work of the Project Team.

1.8. Project Close-out – to be scoped by future supplement

The CONSULTANT shall assemble project documentation and records, and prepare electronic files to be retained by the CONSULTANT and transmitted to the CITY in accordance with this AGREEMENT.

TASK 2. CLIENT COMMUNICATIONS AND COORDINATION

The CONSULTANT will develop and implement a Client Communications Plan in order to maintain open and continuous communications about project status, issues, risks and change management. The Plan will be reviewed and approved by the CITY. The Communications Plan and CONSULTANT's ongoing efforts will include:

Bi-weekly project status updates known as 5/15 Reports, delivered via email to the CITY Project Manager containing information on project issues, status and schedule, and identifying any information or decisions needed from the CITY;

Project updates regarding status, progress, issues, risks and schedule at Monthly Client Coordination Meetings.

CITY Responsibilities:

- Timely review of bi-weekly 5/15 Reports and response with any questions or concerns within 2 working days of receipt of report.
- Arrange for meeting facilities at the CITY Public Works Department Offices for Monthly Client Coordination Meetings.
- Attend and participate in the Monthly Client Coordination Meetings.

Assumption(s):

- There will be a total of 16 (monthly) Client Coordination Meetings, held at the CITY Public Works Department Offices.
- CONSULTANT participation will include the Project Manager, and/or Design Manager. Additional CONSULTANT staff may participate via conference call, if required.

Deliverable(s):

- Bi-weekly 5/15 Reports (36)
- Monthly Client Coordination Meeting agendas and summary notes (16).

TASK 3. QUALITY ASSURANCE / QUALITY CONTROL

The CONSULTANT's Quality Assurance Checklist will be completed and submitted by the CONSULTANT with each Plan submittal. Final work submitted to the CITY shall be stamped and signed by a professional engineer in the State of Washington. Preliminary and 30% Plans, Specs, and Estimate shall not be stamped and will be marked "Not for Construction".

The CONSULTANT will upload submittals to the project FTP site. The CITY will contact PROJECT stakeholders to download and review submittals. Stakeholders may include but are not limited to CITY Departments as appropriate (e.g. Police, Fire Public Works Operations), Snohomish County Public Utility District, PSE, Frontier, Comcast, USPS, Community Transit, Tulalip Tribe, USACE, WDFW and ECOLOGY. The CITY will summarize the PROJECT stakeholder review comments of each plan submittal and transmit the comments to the CONSULTANT in a Review Ledger. The CONSULTANT will respond to the CITY's comments in the Review Ledger by indicating the actions taken on each comment, verifying that CITY comments have been addressed (or provide written response as to why the changes have not been made).

Each plan submittal will include a comment review discussion between the CITY and the CONSULTANT. This meeting will be a collaboration session to chart the path forward to the next submittal and address any concerns that were observed during submittal review.

Deliverable(s):

- Agendas for Comment Review Meetings.
- Review Ledger with comment responses, for each submittal.

TASK 4. DATA COLLECTION / REVIEW OF EXISTING INFORMATION

The purpose of this task is to collect and review all available documents related to the project and identify areas where further research and mapping are needed, and summarize what additional information is needed for project development.

CONSULTANT will collect and review available documents from the CITY including:

- Previously modified and constructed designs.
- Plans and specifications for previous CITY projects within or adjacent to the expected project footprint for the PROJECT.
- Existing topographical and right-of-way survey information.
- Basin studies or flow data for the project area including Allen Creek and the unnamed tributary to Allen Creek.
- All completed and in-progress CITY utilities and street maps, plans and studies regarding the project area (including Geographic Information Systems (GIS)).
- Existing right-of-way and easement information available at the CITY.
- Agreements, franchises, licenses and other pertinent information concerning utilities providers, businesses and properties along the corridor.
- Any Critical Areas, Wetlands, and/or Stream reports related to Allen Creek and the unnamed tributary to Allen Creek within a mile of the project area.
- Agreements, licenses, easements and directives from regulatory and resource agencies applicable to the project.
- Watermain condition logs, reports, pressure test results, photographs, etc.
- Sewer CCTV reports and videos.

CONSULTANT will prepare a Data Collection Log to confirm information received from the CITY.

CONSULTANT will prepare a Data Summary Memorandum and submit to the CITY listing the information received, additional information needed including the likely source (if known) for the additional information, and noting if any items are outside this scope of services.

Assumptions:

- The CITY will provide all available information in timely fashion.
- The CITY will assist CONSULTANT in obtaining information from regulatory and resource agencies, utility providers, Tulalip Tribe, Community Transit and other CITY departments.
- All necessary information regarding location and depth of bury for underground CITY utilities is available, accurate and readily attainable from CITY records.

- Underground and overhead utilities will be marked by 811 Locate Services.
- Utilities locations obtained from CITY records and 811 locates will be used and relied upon for the design.
- CITY will provide any current design plans and details if available for the corridor and adjacent projects in preferably AutoCAD, Civil 3D format for use and coordination with this project.
- If additional utility locate information is needed through methods such as potholing, the CITY will perform that work on City utilities and provide the information to the CONSULTANT.
- CITY will perform CCTV inspection of existing sanitary sewers and provide written reports and video tapes to the CONSULTANT.

Deliverable(s):

- Data Collection Log
- Data Summary Memorandum

TASK 5. SURVEY AND MAPPING

This task involves field surveying to densify horizontal and vertical control within the project limits, collecting existing topographic features and producing a project basemap and Digital Terrain Model (DTM) to be used in design, and conducting additional survey work to supplement the basemap and DTM as the design progresses. See Exhibit A for mapping limits. This task also includes the preparation of right-of-way plans, legal descriptions and exhibits necessary to support the right-of-way acquisition process.

5.1. Research and Existing Data Compilation

CONSULTANT will collect existing data pertinent to the project that is available from the CITY, the County, other agencies, franchise utilities, and other sources. The data shall include ROW information, topographic surveys, existing utility locations, and previous reports and documents pertaining to the project.

5.2. Survey and Construction Geodetic and Cadastral Control

CONSULTANT will recover existing survey control monumentation. A field survey traverse will be performed to densify the existing horizontal and vertical control points and to establish additional survey control along the corridor and within the project limits. The survey control traverse will be reviewed for accuracy by the Survey Quality Control Lead and adjusted by the least squares method, constrained to original, pre-design phase survey control. Horizontal Datum will be NAD 83/91, Washington State Plane Coordinates, North Zone, US Survey Feet. Vertical Datum will be NAVD 88, Feet. Consultant will set up to eight (8) permanent control points suitable for use during construction.

- Geodetic Control: This task involves the establishment of survey control at the project site for use in all phases of the project. Typically, survey control will be established using GPS together with terrestrial Total Station observations.
- Cadastral Control: This task involves records research and the recovery and observation of cadastral monumentation for use in the resolution of the ROW, boundaries, and any required easements.

5.3. Field Surveying and Base Mapping

A Washington State licensed professional land surveyor will prepare an existing conditions survey. Base mapping shall include topographic features and elevations within the project limits to a level of detail necessary for a proper engineering design and will field locate the following within the project limits:

- Topographic features within the corridor, including but not limited to building faces, garage doors, driveways, fences, walls, signs, luminaires, traffic channelization, traffic control devices, parking features, surface utilities, surface evidence of subsurface utilities, and trees 4-inch diameter and greater. Survey will denote material types for items such as pavements, fences and list out individual tree sizes for those greater than 4 inches in diameter.
- Survey limits along 88th Street NE are to building face or a minimum 50 feet to each side of the edge of pavement. Laser scanning may be utilized when right-of-entry is not granted. Limits along 88th Street NE shall extend from and include the State Avenue intersection to the 67th Avenue NE intersection.

- Survey limits along major cross streets within the corridor (51st Avenue NE, 55th Avenue NE) shall extend a minimum of 250 feet away from 88th Street NE and shall include at least one connecting utility pole to 88th with a total survey width extending to building face or at least 15 feet beyond right-of-way. Laser scanning may be utilized when right-of-entry is not granted.
- Survey limits along minor cross streets within the corridor shall extend a minimum of 150 feet away from 88th Street NE and shall include at least one connecting utility pole to 88th when applicable. Total survey width shall extend to building face or at least 15 feet beyond right-of-way. Laser scanning may be utilized when right-of-entry is not granted.
- Delineation and survey of the Ordinary High Water Mark (OHWM), wetlands, and other critical areas flagged by the CONSULTANT.
- Topographic survey of Allen Creek and the tributary to Allen Creek including each culvert under 88th Street NE; surveyed surface 300 feet upstream and downstream of the culvert; the thalweg, edge of water line, bottom of bank, and top of bank of the creek and extents of floodplain.
- Locations of proposed geotechnical borings.
- Underground utility paint markings.
- Existing overhead utility lines.
- Locations of public transit stops.

CONSULTANT will be responsible to call for utility locates. Locates will be obtained prior to the commencement of field survey for sub-surface utilities. These will be done initially by One-Call and then by private firm, if One-Call is deemed insufficient, as directed by The City.

CONSULTANT will perform measure downs to collect invert elevations, pipe sizes, pipe types, and structure types for sanitary and storm sewer systems and obtain top of operating nut elevations on all water valves, and compile this data into the project basemap.

CONSULTANT will prepare a 1"=20' comprehensive basemap adequate to support the design and cost analysis work performed in the design. The completed base map will be reviewed for accuracy by the Survey Quality Control Lead and any comments made during this review will be rectified and verified prior to release of the basemap. Existing features to be compiled and shown include:

- Roadway, pavement markings, sidewalk, curb & gutter, guardrails, railroad crossings, signals, structures, buildings, culverts, houses, garages, fences, gates, mailboxes, poles, signs, overhead and surface utilities, ditches, streams, culverts and trees.
- Right-of-way lines, parcel lines, roadway centerlines, survey control points, and survey benchmarks.
- Wetland and buffers, and bank full width delineations.

5.4. Right-of-Way and Parcel Resolution, Easements, Exhibits, and Legal Descriptions – to be scoped by future supplement

The scope of work for preparation of legal descriptions and exhibits will be reviewed and modified at completion of 30% Design, once the corridor footprint is identified and property impacts can be assessed.

The associated budget for these efforts will be developed / revised and authorized by supplemental agreement.

5.5. Right-of-Way Plans – to be scoped in future supplement

A general layout of proposed right-of-way lines will be prepared such that property impacts may be identified. The scope and budget for actual preparation of Right-of-Way Plans for the purposes of defining the actual property impacts and acquiring right-of-way will be included and authorized by supplemental agreement at 30% Design.

5.6. Office Processing and Deliverable

This task includes the office processing of the surveyed data sets and the extraction of the data required for deliverable.

This task also includes the processing of the data collected for use in determining the right-of-way and the creation of the topographic mapping deliverable.

5.7. Supplemental Surveys – to be scoped by future Supplemental Agreement

It is assumed that during the design phase, some level of supplemental survey may be necessary, and for purposes such as private property match/conforms, utility features, structure elevations, or features requiring more definition for design purposes. The scope and budget for supplemental surveys will be included and authorized by future supplemental agreement(s).

CONSULTANT will process the supplemental field survey data and update the existing basemap to include the supplemental data.

Assumptions:

- The CITY will obtain title reports for the estimated 135 parcels that will be required.
- Up to 135 parcels will require Exhibits and Legal Descriptions for fee acquisitions and temporary construction easements – up to two versions each.
- Up to 30 parcels will require Exhibits and Legal Descriptions for permanent easements – up to two versions each.
- Right-of-Entry (ROE) to 135 adjacent properties will be required and obtained by the CITY.
- The CONSULTANT will develop any required Traffic Control Plans.
- Survey control used on previous phases that the mapping matches into will be provided by CITY.
- Underground utilities will be painted or located by One-Call, as possible.
- Tree Tags are not a part of the scope of services.
- Does not include access or entry onto any Railroad properties.
- Right-of-way plans, legal descriptions and exhibits will be developed on the basis of metes and bounds utilizing recorded city subdivision information and referenced to the project centerline (not WSDOT Engineer's Highway Stationing).

Deliverable(s):

- Topographic Survey and ROW Base Map (electronic copy), 1"=20' basemap, 2-foot contour intervals.
- Supplemental survey and corresponding Base Map updates.
- AutoCAD Surfaces (DTM Files) (electronic copy).
- Copy of field survey books (hard copy).
- ASCII file of control points.
- Construction control plans.
- Draft and Final ROW Legal Descriptions and Exhibits in hard copy and electronic format.
- Draft and Final Right-of-Way Plans (PDF).

TASK 6. GEOTECHNICAL ENGINEERING

CONSULTANT will provide geotechnical engineering services needed to support development of contract documents for the construction of retaining walls, culvert design, utilities, stormwater ponds, signal pole foundations, and other road improvements associated with the project. CONSULTANT services include:

6.1. Project Setup:

Collect and Review Available Geotechnical Data: The CONSULTANT will review readily available and relevant information along the project corridor. This review will include online geotechnical databases, geologic maps, existing known information previously gathered by the CONSULTANT for surrounding projects, and information provided by the CITY.

6.2. Subsurface Explorations and Laboratory Testing:

Perform a Site Reconnaissance: The CONSULTANT will conduct a site reconnaissance of the project corridor. This reconnaissance will be used to identify geotechnical challenges and to assist in planning the geotechnical exploration program.

Plan the Geotechnical Field Exploration Program: The CONSULTANT will plan a two-phased geotechnical exploration program for the project. Phase 1 of the exploration program will consist of conducting pavement coring in support of proposed pavement design. Phase 2 of the exploration program will consist of drilling a series of limited access borings in support of the culvert crossings, retaining walls, illumination foundation design and screening for stormwater infiltration potential.

Conduct Utility Locates: Prior to conducting the subsurface exploration program, the CONSULTANT will mark the proposed exploration locations in the field and arrange for utility locates using the Utilities Underground Location Center (UULC).

Develop Traffic Control Plans for Geotechnical Explorations: The CONSULTANT will coordinate with the City and design team and develop traffic control plans for pavement coring and geotechnical borings. The CONSULTANT assumes that WSDOT standard plan traffic control plans for a single lane closure with flaggers will be required.

Generate Phase 1 and Phase 2 Geotechnical Explorations Work Plan Memo: The CONSULTANT will prepare a Geotechnical Work Plan Memorandum for the proposed phase 1 and 2 exploration programs. The work plan will be submitted to the design team and the City for review and approval. The work plan will detail the type, location, and extent of proposed field explorations along with logistics necessary to perform the work such as traffic control plans and staging areas. The work plan will also be used for utility locating clearances and for permitting that may be necessary to access the exploration locations. We assume the CITY or HDR, in support of this project, will acquire and provide any required permits or right of entries at no cost to HWA.

Conduct Phase 1 Explorations (FWD Testing): to be scoped by future supplement as needed.

Conduct Phase 1 Explorations (Pavement Coring): The CONSULTANT will core the pavement at 8 locations along the project alignment. Cores will be performed in distressed areas to assess the depths of cracking as well as in non-distressed areas. Coring will be performed using a 6-inch diameter, diamond-tipped core barrel. At each core location hand borings will be excavated through the core holes to depths of about 2 to 3 feet, using hand equipment, in order to evaluate pavement layer thicknesses and subgrade soil conditions. Core holes will be patched with rapid-setting Portland cement concrete. Flaggers will be required for all coring operations. The CONSULTANT assumes these cores will be completed in 2 working days.

Conduct Phase 2 Explorations (Geotechnical Borings): The CONSULTANT will conduct a series of up to 16 geotechnical borings along the project corridor to assess the subsurface soil and groundwater conditions along the alignment. A breakdown of the proposed borings is provided below.

Culvert Crossings: Two geotechnical borings will be drilled at each proposed creek crossing (Totaling 4 borings). Each of these borings will be drilled to a depth of 40 feet below ground surface. The borings will be located within the shoulder of the roadway at each end of the existing culverts. One groundwater monitoring well will be installed at each creek crossing to monitor groundwater fluctuations.

Infiltration Screening and Illumination: A series of 12 geotechnical borings will be drilled along the project alignment to screen for infiltration potential, provide allowable lateral bearing pressure for proposed illumination foundations and assist in development of retaining wall design parameters. These borings will be evenly spaced at 500 to 750 feet spacing along the corridor and drilled to depths of 20 feet below ground surface. Groundwater monitoring wells will be installed within two of these borings to monitor groundwater fluctuations.

All of the above described borings will be conducted within the existing right of way. The borings will be positioned within the shoulder of the roadway where possible but may be forced into the travel lane by existing underground utilities. Single lane closures with flaggers are assumed for each boring. The CONSULTANT assumes these borings will be completed in 5 working days.

In-situ testing using a Standard Penetration Test (SPT) will occur in the borings at 2.5-foot intervals to 20 feet and at 5-foot intervals thereafter. SPT samples will be collected and returned to the CONSULTANT geotechnical laboratory for testing. The CONSULTANT will install 2-inch diameter groundwater wells in four of the borings to measure groundwater levels at the site. Groundwater level measurements will be used to evaluate groundwater levels for infiltration and to assess the need for dewatering during construction excavation. Groundwater instrumentation (transducers) will be installed in each well to measure the groundwater fluctuations over time. The CONSULTANT will visit the site two times to collect the recorded groundwater data. Decommissioning of groundwater wells is not included in this scope and should be included as a bid item during construction.

Conduct Phase 2 Explorations (Hand Explorations): The CONSULTANT will conduct one day of hand explorations at each creek crossing (Totaling 2 days). The hand explorations will extend approximately 5 to 10 feet below ground surface, or to the practical extent of the equipment being used. Dynamic Cone Penetrometer Testing (DCP Testing) will be completed with each hand exploration. The hand explorations will be used to characterize the materials and depth of soft sediment deposited along the creek banks, and to evaluate the need for over-excavation at the culvert and SEWs to mitigate settlement.

Generate Boring Logs and Assign Laboratory Testing: The CONSULTANT will prepare summary boring and pavement core logs and perform laboratory testing to evaluate relevant physical properties of the site soils. Laboratory testing would include moisture content, hydrometers, grain-size distribution, Consolidation and Atterberg Limits.

Conduct Groundwater Monitoring: The CONSULTANT will install groundwater monitoring transducers in each of the four (4) proposed monitoring wells. These transducers will be set to take groundwater elevation readings every half an hour. HWA will make two site visits to download and process the groundwater data. This data will be used to provide prospective contractors with an accurate representation of the seasonal groundwater variations across the site.

6.3. Geotechnical Design Services:

The CONSULTANT will develop geotechnical recommendations for the design and construction of the roadway improvements and structure alternatives. Anticipated geotechnical design services include the following:

Geologic Profiles: The CONSULTANT will develop one longitudinal and one transverse geologic profile at each of the proposed culvert locations; Allen Creek, and the Unnamed Tributary to Allen Creek. The geologic profiles will be included in the geotechnical engineering report.

Soil Properties: The CONSULTANT will generate estimates of the soil strength and other properties needed to evaluate the effects that the subsurface conditions will have on the proposed improvements.

Seismic Design Parameters and Geologic-Hazard Assessment: The CONSULTANT will determine the Site Class for seismic design and the design spectral acceleration parameters in accordance with the AASHTO Specifications for Road and Bridge. CONSULTANT will also evaluate the risk of geologic hazards at the site during the design-level ground motion, including liquefaction, lateral spreading, and fault rupture. Geologic Hazard Area evaluations shall include consideration of Sections 22E.010.270-310 of the City of Marysville Critical Areas Code.

Culvert Design Recommendations: The CONSULTANT will provide geotechnical recommendations for designing replacement culverts. Geotechnical evaluations and recommendations for steel pipe culverts, cast

in place box culverts and precast culvert systems will be provided. Bearing capacity recommendations and Lateral earth pressure/resistances will be provided for the chosen culvert systems.

Develop Pavement Design: The CONSULTANT will evaluate the pavement core data and develop overlay and new pavement design recommendations using traffic information for the corridor provided by the City.

SEW Design Recommendations: The CONSULTANT will provide geotechnical recommendations for designing the SEWs. Recommendations will include soil parameters for design, bearing capacity, structural backfill requirements, drainage recommendations, minimum wall embedment and minimum reinforcement lengths based on global stability. The global stability analysis will consider static, seismic, and post-seismic load cases. The CONSULTANT will also estimate the anticipated settlement of the proposed roadway embankment fill at the two creek crossings.

Solider Pile Design Recommendations: The CONSULTANT will provide geotechnical recommendations for designing the soldier pile walls along the corridor. Recommendations will include earth pressure diagrams for static, pseudo-static and post liquefaction conditions.

Gravity Block Wall Design Recommendations: The CONSULTANT will provide geotechnical recommendations for designing the gravity block walls. Recommendations will include soil parameters for design, bearing capacity, structural backfill requirements, drainage recommendations, minimum wall embedment and minimum reinforcement lengths based on global stability. The global stability analysis will consider static, seismic, and post-seismic load cases.

Signal Pole and Luminaire Design Recommendations: The CONSULTANT will evaluate the lateral bearing pressures of the soil at the boring locations and provide geotechnical recommendations for signal pole and luminaire foundations based on WSDOT standard plans and procedures. The CONSULTANT assumes that signalization upgrades will be limited to the intersection of 88th Street NE and 51st Avenue NE. The CONSULTANT also assumes that the geotechnical data used to design the recent intersection upgrades at this location will be provided by the City.

Infiltration Analysis: The CONSULTANT will evaluate the data obtained from the Phase 2 explorations and determine appropriate short and long-term infiltration rates for use in design of potential infiltration facilities. No stormwater infiltration testing is prosed as part of this scope of work.

Quality Assurance / Quality Control (QA/QC): The CONSULTANT will have the design calculations, recommendations, and reports reviewed in accordance with its QA/QC plan.

Draft Geotechnical Engineering Report: The CONSULTANT will prepare a draft geotechnical engineering report for the project. This report will contain the results of the subsurface exploration program, including logs, laboratory test results, and a description of the subsurface conditions; a site plan showing exploration locations and other pertinent features; and geotechnical engineering recommendations for the design and construction of the proposed roadway improvements.

Miscellaneous Geotechnical Coordination and Analysis: The CONSULTANT will provide up to 40 hours of miscellaneous geotechnical coordination and analysis after generation of our draft geotechnical report. This effort will address question and changes to the design that have geotechnical implications and occur between publishing of our draft report and final report.

Final Geotechnical Engineering Report: The CONSULTANT will finalize the geotechnical engineering report based on review comments from other design team members and the CITY. A comment resolution form will not be produced. However, a statement through email or other correspondence will occur if a comment is not incorporated.

Plan and Specification Review: Once design efforts beyond 30% Design are authorized, the CONSULTANT will conduct a review of the project plans at the 60% and 90% Phase 1 and 90% Phase 2 milestone submittals to ensure that the geotechnical aspects of the project have been incorporated into the project documents. Special provisions for ground improvement below the SEWs may be required.

A letter will be produced after review of the 100% documents for conformance with the geotechnical design and construction recommendations for the project.

Project Coordination Meetings: The CONSULTANT will attend up to six (6) project coordination meetings. The CONSULTANT's attendance will be used to convey the geotechnical considerations of the site to the City and the design team.

Geotechnical Task Management: The CONSULTANT will provide geotechnical task management to all geotechnical related aspects of the project. The CONSULTANT will correspond with the City and the design team in the form of emails, fax, and telephone calls, as necessary.

Assumption(s):

- The subsurface explorations will be performed within the CITY right-of-way. The CONSULTANT will be responsible for preparing traffic control plans. All required street use and right-of-way permits will be secured and provided by the CITY at no cost to the CONSULTANT.
- No geotechnical explorations will be completed within the cemetery property
- Access and right-of-entry to the hand explorations locations will be provided by the CITY.
- Vegetation clearing may be required to access the hand auger exploration locations. Vegetation clearing will be completed by the CONSULTANT with hand equipment.
- After completion, the borings that do not have wells will be backfilled with bentonite and a cold patch asphalt or quick drying concrete surface patch. The hand augers excavation will be backfilled with their excavation spoils.
- The CONSULTANT will contract with a subcontractor to perform the borings. The borings and hand augers will be conducted during workday hours with no work hour restrictions.
- Saw cutting of the pavement at the exploration locations will not be required.

- The spoils from the subsurface explorations will not be characterized as hazardous waste.
- Spoils from the borings will be drummed on site and transported off site for disposal by the drilling subcontractor.
- The subsurface explorations will not be used to assess site environmental conditions. However, visual and/or olfactory observations regarding potential contamination will be noted. Analysis, testing, storage, and handling of potentially contaminated soil and groundwater (either sampled or spoils from drilling) are beyond this scope of services. If contaminated soils and/or ground water are encountered, the material will be properly contained on-site for disposal as mutually agreed upon without additional cost to the CONSULTANT.
- The subsurface exploration locations will be surveyed by others if needed
- The four wells installed as part of our services will be abandoned by the contractor during construction.
- Design for the geotechnical engineering analyses will be based on 2015 WSDOT Geotechnical Design Manual and 2017 AASHTO LRFD design criteria. Design of the stormwater water infiltration rates will be based on the Department of Ecology 2012 Stormwater Management Manual for Western Washington for non-glacially consolidated soils (i.e., grain size method).
- Pilot infiltration tests (PITs) and groundwater mounding analyses are not included in this AGREEMENT.
- The site soils will support standard WSDOT plan signal pole and luminaire foundation design. Non-standard signal pole or luminaire foundation design will not be required.
- The SEWs will be designed by the contractor. Internal stability and facing analyses will not be performed as part of this AGREEMENT.
- Temporary groundwater control during construction, where required, will be designed by the contractor and will not be performed as part of this AGREEMENT.

Deliverable(s):

- Geotechnical Work Plan Memo
- Draft Geotechnical Engineering Report (Electronic copy as Adobe PDF)
- Final Geotechnical Engineering Report (Electronic copy as Adobe PDF and 3 paper copies)
- Plans and Specification markups (Comments and edits to Adobe PDF or Microsoft Word document)
- Review Conformance Letter at 100% Project Milestone (Electronic copy as Adobe PDF)

TASK 7. WATERMAIN & SANITARY SEWER EVALUATION AND DESIGN

The objective of this task is to evaluate the existing infrastructure to develop recommendations for portions of these systems to be retained, replaced, or supplemented, and incorporate the recommendations into the Preliminary Engineering task in order to develop a preferred alternative for the corridor to guide 30% design. Design efforts will advance based on the result of Preliminary Engineering with updates as required to address design development for other elements of the corridor such as stormwater, franchise utilities, and culvert replacement structures.

7.1. Conditions and Capacity Analysis

CONSULTANT shall conduct a conditions and capacity analysis of the existing network for sanitary sewer and water mains within the project corridor. Condition of the existing networks will be evaluated by reviewing CCTV reports, GIS data, and record drawings. Capacity needs will be evaluated by reviewing City plans and projections for these facilities to determine if the existing networks will provide sufficient capacity to meet anticipated demand.

A technical memorandum will be developed by the CONSULTANT documenting the available information and providing recommendations for changes to the existing sanitary sewer and water main systems to be made to address age, material and/or capacity along with identifying portions of the existing systems that can be maintained in place.

Assumption(s):

- One meeting may be held at the CITY with up to two CONSULTANT staff attending to review and discuss available information

7.2. 30% Submittal

CONSULTANT shall prepare 30% design drawings complying with the Plans Preparation Manual and industry standard level of detail at this stage of project development.

Assumption(s):

- The level of effort and fee estimate for this task is based on the number of sheets for Utility Plans as shown in the Submittal Sheet List provided in Task 11. The sheet list was prepared based on the anticipated footprint of the project.
- CONSULTANT shall consult with the CITY prior to developing any sheets if the actual number of required sheets varies from the original sheet count estimate. If the CITY and CONSULTANT concur that total number of sheets required to detail the project exceeds the original estimate, the budget for this task may be amended.

Deliverable(s):

- 30% Utility Plans (incorporated into the overall 30% Plans)

7.3. 60% Submittal – To be scoped in a future supplement

7.4. 90% Submittals – To be scoped in a future supplement

7.5. Ad-Ready Submittal – To be scoped in a future supplement

TASK 8. TRAFFIC ANALYSIS

The purpose of this task is to analyze recent and relevant traffic data on existing conditions to best define and further develop the corridor design.

8.1. Data Collection

8.1.1. Traffic Counts

The CONSULTANT will collect new a.m. and p.m. peak hour intersection turning movement counts (with heavy vehicles, bicycles, and pedestrians quantified) at the following 4 locations (bold = existing signal):

- **51st Ave NE/88th St NE**
- **55th Ave NE/88th St NE**
- 60th Dr NE/88th St NE
- **67th Ave NE/88th St NE**

8.1.2. Field Observations

Field investigations of traffic movements and operations will be conducted during a typical afternoon peak hour, with attention to typical queue extents, any cycle failures, and yielding interactions between vehicles and non-motorized traffic. All data will be summarized in spreadsheet form with a short summary.

8.1.3. Other Data

Signal timing data for the signalized intersections listed above will be provided by the CITY. Basic intersection and roadway geometric data will be gathered in direct partnership with the roadway design team, and, if gaps remain afterward, measured either in the field or using publicly available online resources. Transit stop usage information will be requested from Community Transit, coordinated through CITY staff.

Origin-destination data will be evaluated to estimate impacts associated with a potential full-closure of the Allen Creek crossing in order to expedite the culvert replacement. Data will be obtained from a vendor and will be evaluated to better understand how motorists may be redirected on parallel east/west corridors to reach their destinations and to estimate the additional volumes of traffic these corridors may need to carry

8.2. Operations Analysis

8.2.1. Software

CONSULTANT will update the Synchro files from the CITY's Transportation Element completed by Transpo in 2015. Any study intersections not included in the Transportation Element analysis will require development in Synchro and considered out of scope work. CONSULTANT will use Synchro/SimTraffic to evaluate existing lane configuration and determine if lane assignments are reasonable at each study intersection.

8.2.2. Traffic Growth Estimates

The CONSULTANT will utilize the 2035 forecasts from the Comprehensive Plan traffic model (developed by Transpo) in developing the Operational Analysis.

8.2.3. Scenarios

The traffic analysis will include up to 4 design scenarios. The scenarios are as follows:

- Existing Conditions AM Peak Hour
- Existing Conditions PM Peak Hour
- 2035 Horizon Year AM Peak Hour
- 2035 Horizon Year PM Peak Hour

The horizon year analysis will take in to consideration planned projects and developments recorded in the City's 2018-2026 Six Year Transportation Plan. Additional analysis scenarios, such as near-term and construction year, are not included in the proposed modeling effort.

8.2.4. Measure of Effectiveness

Following the analysis scenarios listed above the CONSULTANT will perform peak hour traffic measures of effectiveness (MOEs) analysis for each of the four signalized intersections in the corridor, which will include (1) LOS and average delay at signalized intersections, (2) average queue lengths for each intersection approach, and (3) the estimated left turn pocket lengths required to prevent spillback into the roadway through lanes. These measures will be indicated in detailed software output reports for each intersection under each scenario and peak hour.

8.3. Traffic Technical Memorandum

8.3.1. Traffic Technical Memo

CONSULTANT will produce a draft and final traffic technical memo (maximum of up to 5 pages long) documenting basic assumptions, methods, and summary results from the traffic analysis.

Assumptions:

CITY to provide:

- Synchro file used for most recent update to the Comprehensive Plan Transportation Element
- Signal timing data for existing signals listed previously, if separate from Synchro file
- 2035 PM Peak traffic volumes from the Comprehensive Plan traffic model (developed by Transpo).

Deliverable(s):

- Data Collection Summary
- Traffic Technical Memo including Synchro MOE Summary Tables
- Detailed Operations Analysis Output Report Sheets for Each Intersection

- Electronic Synchro Files

TASK 9. PRELIMINARY ENGINEERING

The objective of this task is to evaluate and document possible design alternatives to develop an optimal design resulting in a preferred alternative that improves safety for all users, enhances corridor mobility, minimizes ROW acquisition needs, and is supported by the community.

9.1. 5% Design

9.1.1. Design Criteria

The CONSULTANT will document the design criteria for each discipline of design to show the standards to be followed for design on the project.

9.1.2. Roadway Design

The CONSULTANT shall prepare one horizontal alignment and one vertical alignment for 88th Street NE. Culvert replacements will be shown at Allen Creek and the unnamed tributary to Allen Creek. The CONSULTANT will work with the CITY to reach concurrence on widths for each vehicular lane, bike lane, bike lane buffers (if preferred), planter strips, sidewalk, and a standard distance between the back of sidewalk and final right-of-way boundary.

Preliminary roadway design will include the following:

- Pavement, bike lanes, curb and gutter, and sidewalk
- Channelization of 88th Street NE
- Locations of proposed bus stops
- Locations of up to two mid-block crossings

Roadway alternatives that will be considered include:

- One alternative showing asymmetrical widening on 88th Street NE at the cemetery on the westbound approach to State Avenue.
- Two alternatives for bike lane routing at the intersection of 88th Street NE and 51st Avenue NE
- Two alternative configurations at 88th Street NE and 55th Avenue NE to explore maintaining existing traffic equipment while accounting for bike lane routing.

9.1.3. Creek Crossings

The CONSULTANT shall meet with WDFW and the Tulalip Tribe to discuss design criteria prior to starting design. Once the design criteria is established the CONSULTANT shall analyze and develop preliminary engineering plans for two proposed alternatives for the Allen Creek crossing replacement and two proposed alternatives for the unnamed tributary to Allen Creek crossing. The CONSULTANT shall develop a one-dimensional hydraulic model using HEC-RAS. The CONSULTANT will share the preferred alternative concept for the Allen Creek crossing with WDFW and the Tulalip Tribe for feedback.

Allen Creek Crossing and Environmental Design will include the following proposed line work:

- Typical Section of the Allen Creek crossing configuration
- Wetland Boundaries and OHWM Location
- Proposed Locations for On-Site Mitigation and Plantings

Retaining Wall and Creek Crossing Structural Design will include the following proposed line work:

- Proposed location of site retaining walls
- Proposed type size & location of the Allen Creek culvert structure replacement
- Proposed type size & location of the unnamed creek crossing structure replacement

Assumption(s):

- Environmental impacts and will be identified for the preferred design alternative.
- Two alternatives will be modeled for each of the fish passage culverts.
- Two structural alternatives will be investigated at the Allen Creek crossing
 - A precast segmental box culvert alternative assuming a full roadway closure will be utilized
 - A precast slab and retaining wall option assuming a staged construction sequence will be utilized.
- A hydrologic model to determine basin hydrology will not be developed for the fish passage culverts. The 2002 Snohomish County Drainage Assessment will be used for hydrology, unless newer data exists.
- Attendance at 2 meetings with the CITY to discuss alternatives. Up to 2 CONSULTANT staff shall attend.
- Attendance at 1 on-site meeting with WDFW and the Tulalip Tribe. Up to 2 CONSULTANT staff shall attend.
- Attendance at up to 2 additional design review meetings with WSDOT Highways & Local Programs, US Army Corps of Engineers and WA State Department of Ecology (ECOLOGY). Up to 2 CONSULTANT staff shall attend each meeting.
- The CONSULTANT and the CITY will select the preferred alternative for the Allen Creek crossing and the unnamed tributary crossing.

9.1.4. Utilities and Stormwater

The CONSULTANT will utilize the prepared Conditions and Capacity Analysis to incorporate the recommended changes to the existing sanitary sewer and water main systems in the 5% design. Modifications to other existing utilities such as utility poles and overhead lines will also be considered. Stormwater features including conveyance routing, bioretention within the planter zones, and the potential need for underground stormwater management facilities will also be considered.

Utility and Stormwater Design will include the following proposed line work:

- Proposed Locations for New Water Main
- Proposed Relocation of Overhead Communication Conduits

- Proposed Relocation of Overhead Power
- Proposed Location of Stormwater Conveyance and Treatment/Detention Facilities

9.1.5. Traffic

The CONSULTANT will evaluate existing traffic equipment in conjunction with the expected project footprint to develop basis of design. The CONSULTANT shall coordinate with CITY technical staff to discuss and review the traffic elements to be designed as part of the project. The discussion shall include CITY maintenance staff and cover the signal infrastructure, known deficiencies, and potential system upgrades. The Consultant will perform a complete inventory of the existing traffic signal system at the study intersections. Illumination is expected to be located on power poles with additional lighting being provided on supplemental poles that will be located after Preliminary Engineering. As part of this effort the corridor will be modeled with AGI32 to determine lighting requirements to meet minimum CITY established standards.

Following NACTO Report 562 guidance, the CONSULTANT will review up to 3 non-motorized crossing locations. The locations will be agreed upon with the CITY prior to conducting the work.

Traffic Design will include the following proposed components and review:

- Conditions of existing signal equipment and operations at 51st Avenue NE, 55th Avenue NE, 67th Avenue NE
- Location of Proposed Traffic Operations Improvements
- Location of Illumination Poles
- Non-Motorized Crossing Location Analysis, Up to 3 Locations

9.2. Preferred Alternative

The CONSULTANT will prepare materials for a meeting at the CITY to review the 5% Design and alternatives and identify a preferred alternative, in accordance with NEPA requirements, for the CONSULTANT to use to develop the 30% design.

Assumption(s):

- The CONSULTANT shall prepare a 5% Design Roll Plot and 11"x17" alternative exhibits to support the preferred alternative meeting.
- Opinion of cost estimates will not be included as part of this process
- Only one comprehensive design alternative (preferred alternative) will come out of the preliminary engineering design phase after review by the CITY. This will include recommendations for areas to adjust the typical design section to minimize ROW and environmental impacts and reduce project risk.

9.3. Preliminary Engineering Report

The CONSULTANT will prepare a Preliminary Engineering Report to document the following:

- Design criteria
- Coordination with stakeholders such as WDFW and the Tulalip Tribe

- Existing site information
- 5% Design Roll Plot
- Alternative exhibits
- Evaluation results and recommendations from the Condition & Capacity Analysis (Task 7)
- A summary justifying the preferred alternative, and an updated design roll plot reflecting the preferred alternative.

Deliverable(s):

- Draft Preliminary Engineering Report (PDF)
- Final Preliminary Engineering Report (PDF)
- 5% Design Roll Plot
- 11"x17" alternative exhibits (PDF)

TASK 10. DESIGN REPORT

The CONSULTANT shall prepare a Design Report to document the basis of design, coordination with stakeholders, site conditions, and other information supporting the development of the corridor design.

10.1. Design Report – 30% Submittal

This report will incorporate content from the Preliminary Engineering Report in addition to supporting information used to develop the 30% design. It will be provided as part of the 30% Submittal and will include the following information:

- Executive Summary
- Project Background
- Basis of Design
- Preliminary Engineering
- Geotechnical Evaluation
- Environmental
- Culvert and Fish Passage
- Structures
- Stormwater
- Utilities
- Roadway
- Traffic
- Landscape and Irrigation
- Right of Way
- Design Variances / Deviations

10.1.1. Structures Technical Memorandum

A brief structures technical memorandum will be included under the Structures section as part of the Design Report. This will discuss the retaining walls and creek crossing structures. The technical memorandum will provide justification for the preferred creek crossing replacement structures and retaining walls at the 30% submittal. The considerations listed below shall be addressed in the structures technical memorandum where applicable, and shall discuss how these factors led to the preferred structural alternative. The technical memorandum will discuss how the constraints eliminated or supported the preferred structure alternatives.

- Geometric Constraints
- Feasibility of Construction
- Structural and Foundation Constraints (if applicable)
- Project Staging and Stage Construction Requirements (if applicable)
- Right-of-way Impacts

- Traffic Impacts and Public Access During Construction
- Utility Coordination
- Environmental Compliance with Fish Windows
- Long-term Structure Maintenance
- Cost Estimates
- Aesthetics

10.1.2. Traffic Technical Memorandum

A traffic specific technical memorandum will be prepared as part of the Design Report. The memorandum will compile the information developed as part of task 9 Preliminary Engineering. The section will note key assumptions and formalize a set of recommendations for the traffic and illumination design.

10.2. 60% Design Report Update – to be authorized by future supplement

TASK 11. 30% DESIGN

11.1. 30% Design

CONSULTANT will advance the design of the Preferred Alternative from the work completed under the Preliminary Design of the PROJECT. The Preliminary Design effort will establish the PROJECT footprint for roadway improvements, basic channelization, limits of retention and replacement for existing utility and drainage infrastructure, culvert replacement structures, and typical right-of-way widths.

Assumption(s):

- The level of effort and fee estimate for this task is based on the number of sheets for each discipline as shown in the sheet list provided. The sheet list was prepared based on CONSULTANT’s current knowledge of the project scope and anticipated work elements.
- CONSULTANT shall consult with the CITY prior to developing any sheets if the actual number of required sheets varies from the original sheet count estimate. If the CITY and CONSULTANT concur that total number of sheets required to detail the project exceeds the original estimate, the budget for this task may be amended.
- The 30% design will include the full project corridor and will not separate the project into separate phased segments.

11.2. 30% Plans

The CONSULTANT will further develop the design shown in the Preliminary Engineering roll plot into 30% plans. The anticipated sheet list for 30% design includes:

| Submittal Sheet List for 30% Design | | # Sheets Included |
|---|-----|-------------------|
| Sheet Description | 30% | |
| Cover Sheet with Vicinity Map and Index | 1 | |
| Legend, General Notes, Abbreviations, and Project Key Map | 2 | |
| Roadway Typical Sections | 3 | |
| Alignment, Profile, and ROW Plans | 20 | |
| Site Preparation Plans | --- | |
| TESC Notes and Details | --- | |
| Temporary Erosion and Sedimentation Control (TESC) Plans | --- | |
| Temporary Access Road Plans | 2 | |
| Paving Plans | 20 | |
| Paving Details | --- | |
| Intersection and Curb Ramp Grading | --- | |
| Driveway Plan and Profiles | --- | |
| Drainage Plans | 20 | |
| Drainage Profiles | --- | |

| | |
|--|------------|
| Drainage Details | 7 |
| Culvert Plan & Profiles | 2 |
| Culvert Sections and Details | 2 |
| Retaining Wall Notes and Sequencing Plan | 1 |
| Retaining Wall Details | 8 |
| Stream Restoration Details | 2 |
| Pavement Marking and Signing Plans | 20 |
| Signing Schedule and Details | --- |
| Signals, Illumination and ITS Plans | 20 |
| Illumination Schedule and Details | --- |
| Landscaping and Irrigation Plans | --- |
| Landscaping and Irrigation Details | --- |
| Utility Plans | 20 |
| Utility Profiles | --- |
| Utility Details | --- |
| Staging and Traffic Control Sequencing Notes | --- |
| Staging and Traffic Control Plans | --- |
| Total # Sheets | 150 |

Assumption(s):

- Symbols used by the CONSULTANT in the plans shall follow APWA standards. If the symbols are not in the APWA standards, then WSDOT standard symbols shall be used.
- Plans shall be prepared on the CITY’s alignment survey for the ROW. Each sheet shall contain design elements, with line work for items detailed on other sheets screened back or drawn in light pen weight. The CONSULTANT is expected to the Industry Standard of Care in the design planning and layout, with elements shown as close as possible to where they are to be installed.
- General Construction Notes will be noted on plan sheets. General Notes will be numerically ordered and consistent throughout the plan set. Note and leader shall call out unique Construction Notes. Bubbles with leaders will be acceptable only for recurring Construction Notes and wiring notes for Signal and Illumination plans as they are numerically ordered and consistent throughout the applicable sheets.
- If additional detail is required to provide clarity, the Plans and Details shall include an exploded view. Cross-sections and profiles shall reflect existing features and proposed facilities, both above and below ground.

11.2.1. General Sheets

CONSULTANT will prepare the contract drawings in accordance with the CITY’s design standards. Unless otherwise noted or directed by the CITY, CONSULTANT will prepare plan view sheets at a 1”= 20’ scale (full size) and 1” = 40’ scale (half size).

CONSULTANT will prepare a cover sheet including an index of drawings. The list of plan sheet titles in the indices will exactly match the titles as they appear on the plan sheets.

CONSULTANT will prepare a vicinity map showing the project limits. The vicinity map will include the beginning and ending of construction, stations, major cross streets, waterways, and critical areas.

CONSULTANT will prepare a sheet layout index for each scale used showing the sheet layout for the various disciplines. CONSULTANT will prepare general notes, abbreviations, and symbols sheet.

11.2.2. Roadway Design

Roadway Typical Sections

Roadway sections will be developed for 88th Street NE denoting roadway widths, right-of-way widths, sidewalks, bike lanes, landscaping, pavement design, and traffic lanes. The typical sections cover typical work throughout sections of the project and will not include every minor change in section dimensions and features. Where there are anomalies the appropriate discipline plans will be referenced.

Alignment, Profile, and ROW Plans

CONSULTANT will prepare horizontal alignment plans and vertical profile drawings for the project. Preliminary horizontal and vertical alignment plans will be produced for 88th Street NE. Preliminary horizontal alignment plans will be produced for connecting side streets. The survey basemap will display the existing right-of-way limits and the design will include preliminary proposed right-of-way limits to accommodate the widened roadway section.

Paving Plans and Details

CONSULTANT will prepare paving plans for the project. The plans will show notable dimensions for paving features. The plans will also show curb returns, tapers, intersection layouts, and proposed driveway access locations, which are typically shown at the preliminary phase. A preliminary extent of disturbance along the corridor will be shown in the form of cut/fill lines.

Pavement Marking and Signing

CONSULTANT will prepare pavement marking plans for the project. The plans will show dimensions for lanes, crosswalks, stop bars, pavement marking symbols and tapers and meet the requirements of the MUTCD and City standards. Signing will not be included on these plans as part of the 30% Design.

11.2.3. Stormwater Design

Drainage Plans and Details

CONSULTANT will prepare plans and details for the LID and gravity drainage design, including plan views of drainage pipes and structures, LID features, connections to the existing stormwater systems, and nonstandard drainage details. These storm system layouts will include catch basin and manhole locations, and the details required to describe the stormwater facilities.

11.2.4. Creek Crossing and Structural Design

Culvert Plan and Profiles

The CONSULTANT shall advance the design of the preferred alternative selected during Preliminary Engineering for each of the two creek crossing locations. Data and models developed in preliminary engineering will be used to complete the design. Plan and profile sheets will show existing grading upstream and downstream of each crossing and proposed grading that will be required to match the existing channels.

Culvert Sections and Details

The CONSULTANT will prepare sections showing a cross section for each stream depicting the existing culvert structure, creek section, and proposed culvert replacement structure with associated grading and streambed materials. Structural details will be developed for each culvert replacement structure meeting the structural requirements of the AASHTO LRD.

Retaining Walls

Design will evaluate the type, size, and location of structural retaining walls. The CONSULTANT will evaluate up to three wall alternative types and identify a preferred type for each retaining wall by accounting for construction staging/sequencing, clearances, site constraints, geotechnical conditions, cost, constructability, and maintenance. Retaining wall plan and profiles for 30% will be developed showing the preferred type for each wall.

Stream Restoration

The CONSULTANT will prepare plan sheets showing preliminary limits of work at each creek crossing and associated areas for restoration.

11.2.5. Signals & Illumination

The CONSULTANT will prepare traffic signal modification plans and details for each signalized intersection and RRFB crossing (2) where improvements are warranted. Signal plans will include equipment placement, proposed equipment schedule, and work items of significant project impact.

Illumination layout plan sheets and details will be provided for the corridor. Design will reflect the selected preferred illumination design. Plans will show proposed locations for new illumination on Snohomish County PUD poles.

11.2.6. Utility Design

Utility Plans

Utility design shall be advanced based upon limits identified from Preliminary Engineering for initial limits of existing utility infrastructure to be retained and existing utility infrastructure to be replaced. A utility corridor plan will be developed to identify potential utility conflict locations. This plan will be provided to affected utilities to aid in potholing efforts to be completed by the CITY and Franchises. CONSULTANT will coordinate with affected utilities to identify type, size and location of future utilities. CONSULTANT will work with the

Franchises to locate their proposed facilities but will not design their work. Franchise Utility design will be completed by the Franchises.

Assumption(s):

Non-CITY Utilities may include:

- Puget Sound Energy – Natural Gas Main
- Snohomish PUD – Transmission and Distribution Power
- Comcast – Cable TV / Fiber Optics
- Century Link – Telephone Communications/Fiber Optic
- Frontier – Telephone Communications/Fiber Optic

CITY Utilities include:

- Water Main
- Sanitary Sewer
- Storm Water (See Stormwater Design)
- Traffic and Illumination Conduit / Fiber (See Traffic Design)

11.3. Estimate

The CONSULTANT shall produce a 30% Engineer's Opinion of Probable Cost Estimate to include in the 30% submittal documents. Unit Quantity calculations will be determined using measurement tools in AutoCAD and documented on excel worksheets, showing assumptions made in determining quantities for each bid item. Backup calculations shall specifically include items measured by the appropriate unit. The Engineer's Estimate will include an itemized list in tabular form, describing; section, item, and number of units (quantity), estimated unit costs, and total cost, with the understanding that any cost opinion or Engineer's Estimate provided by the CONSULTANT will be on the basis of experience and judgment. The estimate shall be prepared using standard unit costs and lump sum prices with input from Ott-Sakai Constructability Sub-Consultants.

Assumption(s):

- The Engineer's Opinion of Probable Cost will be developed for the full project corridor without phasing and assume construction begins in 2021. Contingencies will be included for a 30% level of design and adjustments for a 2021 start year for construction. An additional contingency may also be included to reflect added costs for phased construction.

11.4. 30% Submittal

CONSULTANT shall provide all documents for the 30% submittal to the CITY electronically. The delivery package shall include the Plans, Engineer's Opinion of Probable Cost Estimate, and Design Report documenting the design decisions shaping the project.

Deliverable(s):

- 30% Plans
- 30% Engineer's Opinion of Probable Cost Estimate
- Design Report
- Project Corridor Roll Plot

TASK 12. VALUE ENGINEERING STUDY – TO BE SCOPED IN FUTURE SUPPLEMENT

Due to the uncertainty of project funding sources, the scope for this Task and its associated budget will be developed as necessary and authorized by future supplemental agreement, if required.

TASK 13. ENVIRONMENTAL DOCUMENTATION & PERMITTING

The purpose of this task is to engage the regulatory agencies, conduct fieldwork, prepare documentation, and prepare NEPA/SEPA, City, and JARPA permit application packages.

13.1. Organize an Environmental Kick-off meeting and site visit.

Attendees should include the CONSULTANT team technical staff, design team leads, and CITY staff.

13.2. NEPA/SEPA/Permitting Stakeholder Meetings and Agency Coordination

- A. Organize and conduct up to three project overview and site visit meetings with agency permitting staff. Attendees may include staff from the Corps, WDFW, WSDOT Highways & Local Programs (H&LP), CITY planning, and representatives from tribal interests.
- B. Participate in one (1) CITY-hosted public open house by two environmental/permit staff.
- C. Coordinate with regulatory agencies on a consistent basis during reviews to facilitate the process and quickly respond to agency requests or comments.
- D. Participate in design team coordination meetings by up to two environmental/permit staff.

13.3. Wetlands, Streams, Fish, Wildlife & Habitat Baseline Fieldwork

- A. Field staff will review pertinent background information including the Soils Survey of Snohomish County Area, Soil Conservations Service, NWI maps, CITY maps and critical area code sections, as well as database information from WDFW, WDNR, USFWS, and NOAA Fisheries.
- B. CONSULTANT wetland biologists (one team of two) will delineate wetlands and stream bank/ OHWM over 2 days within the study area using the three parameter methods described in the Corps of Engineers Wetland Delineation Manual (Environmental Laboratory 1987), as updated by the Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Western Mountains, Valleys and Coast Region (U.S. Army Corps of Engineers 2010).
- C. Wetlands found within the 88th Street NE, Corridor as well as approximately 300-feet upstream and downstream of Allen Creek and an unnamed tributary to Allen Creek within the corridor will be delineated and assessed
- D. To support the endangered species act evaluation and critical area report, baseline assessment of fish and wildlife use of the existing embankment area of the stream corridor will be conducted by up to one qualified CONSULTANT biologist.
- E. Identified wetlands and streams will be documented with appropriate data sheets and boundaries marked with visible plastic flagging for pickup by the survey team. Wetlands will be rated according to City and Ecology methods.

13.4. Wetland and Stream Delineation Report Preparation

This report will document existing conditions of the project area, assessment and location of existing on-site wetlands and description of habitat structures and surface water features (ditches and streams) in a Wetland and Stream Delineation Report suitable for the Corps permit application. Wetland classifications and data forms will be included.

13.5. Cultural Resources Assessment – to be authorized by future supplement

The preparation of the Cultural Resources Assessment will be fully scoped, budgeted and authorized by future supplement at completion of the 30% Design, once the project footprint is established.

In support of NEPA and Clean Water Act Permitting with the US Army Corp of Engineers (USACE), as related to wetlands and work below the Ordinary High Water Mark (OHWM), this work would include the preparation of a Cultural Resources Assessment Report in accordance with the published Department of Archaeology and Historic Preservation (DAHP) standards and guidelines, as well as those of the Secretary of the Interior.

13.5.1. Preliminary Review

- The CONSULTANT will conduct background research using the DAHP's WISAARD database as well as other relevant documents, as needed, pertaining to sites and cultural resources surveys previously recorded in (and in the vicinity of) the project area. Background research will also address ethnographic information regarding Tribal affiliations (for use in determining Traditional Cultural Property [TCP] likelihood).
- A Washington DAHP EZ1 Form will be completed for submittal as part of the EO 05-05 process to inquiry as to whether additional work will be mandated (there is a potential that this would limit or eliminate further work).
- Provide an APE document with maps and project description to H&LP so they can initiate consultation with the SHPO and all concerned parties. Based on comments and the FHWA determination of whether it will have the potential to effect historic properties proceed to Step 2, Research and Field Investigation.

13.5.2. Research and Field Investigation

- The CONSULTANT will conduct background research and then a field investigation consisting of a pedestrian reconnaissance to evaluate the area and to record historic property information for all structures 45 years of age or older. Above-ground inspection will consist of identifying any historic-aged resources located in and/or immediately adjacent to the project area that have not yet been inventoried and, if necessary, evaluated for listing on the National Register of Historic Places (NRHP).
- Photographs will be taken of the project area, shovel probes, cultural materials and/or other areas of interest. Description/details of the photos will be entered in a photo log.
- As necessary, maps will be produced to show the location of the observed resources with reference to surrounding natural and human-built features.

13.5.3. Monitoring (if required)

- The CONSULTANT will monitor any geotechnical testing of soils in the project area to determine whether buried historic or pre-contact materials are present in returned soils or if profiles (as exposed) contain archaeological material or the potential for locating them.
- If monitoring of soil testing is mandated or requested those data would be included in any reporting documentation, hence task item 2 (above) reporting would not take place until all field work was completed.

Assumption(s)

- All review comments will be received in accordance with the project schedule. Delays and/or revisions to complete design due to receipt of untimely review comments and directions will be considered extra work.
- Changes to the project description and/or project area may necessitate modifications to this scope of services; such changes will be considered as Extra Work.
- If cultural resources are located in the project area, an Archaeological Site Inventory Form will be required by DAHP; preparation of this form is not included in this scope of services.

13.6. Endangered Species Act Compliance – Biological Assessment Preparation

The Biological Assessment (BA) is to evaluate the PROJECT in terms of its potential impacts to any species listed or proposed for listing as threatened or endangered under Section 7 of the Endangered Species Act (ESA).

- The BA will be prepared by a WSDOT certified author (to cover any potential future NEPA process) and include detailed descriptions of all project activities, status and occurrence of listed species in project area, direct and indirect effects to all listed species and critical habitat, and conservation measures.
- The BA will include an effects determination for each listed species and critical habitat. If required, an analysis of Essential Fish Habitat (EFH) will be completed as part of the BA and will also include an effects determination.

13.7. Critical Area Report Preparation – to be authorized by future supplement

The preparation of the Critical Area Report will be fully scoped, budgeted and authorized by future supplement at completion of the 30% Design, once the project footprint is established.

The Critical Area Report (CAR) documents impacts and identify mitigation in compliance with the City Critical Areas Ordinance. The CAR builds upon information already developed for the Wetland and Stream Delineation Report, Geotechnical Report and Biological Assessment.

The CAR will be developed to address the best available science requirements. The report will identify the general extent and location of PROJECT critical areas as defined by the CITY including wetlands, streams, geologic hazard areas, habitat areas and their buffers in the study area. The Critical Areas Report will incorporate information from Task 6 – Geotechnical Engineering - to address Geologic Hazard Areas.

CONSULTANT will work with CITY planners to develop up to three mitigation options for consideration. The options will be developed in GIS and will be supplemented with a brief narrative describing the concept pros and cons to facilitate the screening to a preferred option.

A general description of the mitigation required and the preferred conceptual level mitigation option will be presented in the CAR.

13.8. Prepare a noise assessment to meet FHWA and WSDOT requirements

- Monitor noise levels at up to six locations to document existing (2018) noise levels.
- Obtain segment traffic counts from the CITY at appropriate locations as developed in Task 8.11.
- Analyze project impacts using the FHWA Traffic Noise Model (TNM, version 2.5).
- Model Horizon Design year traffic data (2035) PM peak-hour; if that fails then use free-flow LOS C hourly volumes) and road configurations.
- Model & evaluate noise impacts with TNM.
- Evaluate noise abatement measures where noise impacts are predicted based on expected land uses in the corridor.
- Initiate preparation of a draft and final technical memorandum/report.

13.9. Prepare an Air Quality Assessment to meet FHWA and WSDOT requirements. – to be authorized by future supplement as needed

- CAL3QHC modeling for highest volume intersection in corridor.
- Code intersection for modeling with CAL3QHC.
- Develop interim and design year vehicle emission rates from MOVES2014 using National Defaults for Snohomish County, Washington.
- Assign intersection traffic volumes for existing (2018) and a horizon design (2035) year as developed in TASK 8.E.
- Model selected intersection with CAL3QHC for existing, existing (2018) and horizon design (2035) years.
- Prepare draft and final memorandum/technical report.

13.10. Initiate Environmental Justice documentation required by FHWA and WSDOT to document presence of minority and/or low-income populations within 0.5 miles of the project corridor.

- Pull 2010 Census reports using the EPA EJ finder.
- Supplement the national data with information collected from the Marysville School District or County available demographic databases.
- Complete the Social and Community Impacts Decision Matrix from the Local Programs ECS Guidebook.
- Initiate preparation of a brief memorandum to summarize the demographic and income information.

13.11. NEPA Documentation and Approval

- The CONSULTANT shall initiate preparation of NEPA environmental documentation in accordance with Chapter 24 of the LAG Manual and other appropriate WSDOT and/or FHWA guidance documents. The Local Agency Environmental Classification Summary form (ECS) is the assumed NEPA document for a Documented Categorical Exclusion (DCE) to process the 88th ST NE Corridor project.
- THE CONSULTANT shall coordinate with the WSDOT Highways and Local Programs Area Engineer during document preparation and review cycle. THE CONSULTANT will also coordinate with WSDOT to address comments on the ECS and any of the environmental documentation prepared above
- The CONSULTANT shall coordinate with the cultural resources subconsultant for their deliverable and incorporate their findings into the NEPA/SEPA checklist and coordinate responses to comments.

13.12. Hazardous Materials

CONSULTANT will conduct a Hazardous Materials (HazMat) Analysis Report to identify and evaluate known or potentially contaminated sites that may adversely affect the environment, create significant construction impacts, and/or incur cleanup liability to the CITY. This information will be used to allow the CITY and the CONSULTANT, together with the Washington State Department of Transportation (WSDOT), to make informed decisions regarding the selection of alternative, or mitigation measures and/or the necessity of initiating early coordination with relevant regulatory agencies.

- CONSULTANT will obtain and review the results of a federal, state, and local environmental database search provided by an outside environmental data service for listing of information on confirmed and suspected contaminated sites or nearby structures specified by Section 8.2, Standard Environmental Record Sources of ASTM International (ASTM) E1527-13, Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process. The evaluation will focus on sites that are located within ¼ mile of the alignment, or as required by ASTM. Subject to availability, CONSULTANT will review the following environmental records:
 - Federal National Priority List (NPL or Superfund) Site List
 - Federal CERCLIS LIST

- Federal CORRACTS TSD Facilities List
- Federal RCRA non-CORRACTS TSD Facilities List
- Federal ERNS List
- Washington State's Lists of Hazardous Waste Sites Identified for Investigation or Remediation (Confirmed and Suspected Contaminated Sites List [CSCSL])
- Washington State's Landfill or Solid Waste Sites List
- Washington State's Leaking UST List
- Washington State's Registered UST List

Based on the results of the regulatory database search, CONSULTANT will make a request to review site files maintained by the Washington State Department of Ecology's Northwest Regional Office (Ecology NWRO). Site files made available by Ecology will be reviewed for information about current site environmental conditions.

CONSULTANT will review available historical data sources for the project area and vicinity, including aerial photographs, topographic maps, fire insurance maps, city directories, and other readily available development data.

- CONSULTANT will conduct a windshield survey of the project area, including adjoining properties - with a focus on indications of hazardous substances, petroleum products, polychlorinated biphenyls (PCBs), wells, storage tanks, solid waste disposal pits and sumps, and utilities. Interviews with property owners will not be conducted based on the nature of the project.
- The information gathered from the regulatory database, Ecology records review, historical documentation, and windshield survey will be summarized in a Hazardous Materials Analysis Report. The report will include a description of methods, findings, and conclusions, as well as the following:
 - Lists of sites with potential for presence of contaminated and hazardous material/waste sites identified in the regulatory database search
 - Maps of potentially contaminated hazardous material/waste sites identified in the regulatory database search, overlaid with the project footprint.

13.13. SEPA checklist preparation – to be authorized by future supplement

The preparation of the SEPA Checklist will be fully scoped, budgeted and authorized by future supplement at completion of the 30% Design, once the project footprint is established.

- Prepare a draft and final SEPA checklist consistent with the requirements of WAC 197-11.
- Provide SEPA response to comment support with up to 10 unique responses to public comments.

13.14. Permit Support – to be authorized by future supplement

Permit Support upon submission of permit applications will be fully scoped, budgeted and authorized by future supplement at completion of the 30% Design, once the project footprint is established.

- The PROJECT is likely to trigger a US Army Corps of Engineers permit and a Hydraulic Permit Application (HPA) for wetland impacts, stream impacts, and work below the OHWM. The CONSULTANT will prepare a Joint Aquatic Resource Protection Application (JARPA) for review and signature by the City.
- THE CONSULTANT will prepare up to 10 JARPA specific graphics using CADD and GIS to support the application package and submittal to Corps and Ecology.
- Prepare on behalf of the CITY the WDFW on-line JARPA (APPS) form.
- Prepare the City of Marysville Critical Area Permit Application package.
- Coordinate with the agency permit reviewers to facilitate review and comments for permit acquisition.

CITY Responsibilities:

- Provide any existing project data or environmental reports prepared for previous work along the 88th Street NE Corridor and the Allen Creek and unnamed tributary crossing areas, or nearby development projects.
- CITY will coordinate acquisition of Rights-of-entry requested by CONSULTANT
- CITY will handle SEPA processing based on SEPA checklist drafted by the CONSULTANT.
- The SEPA checklist and SEPA determination will be signed by the CITY
- Public notification will be handled by CITY staff. Copying, distribution, signage, postage etc. are not covered in this scope of work.
- Conduct review and provide comment on the draft SEPA checklist.
- Provide timely review of all deliverables and a consolidated list of review comments to the CONSULTANT, in accordance with the project schedule.

Assumption(s):

- Rights-of-entry (ROE) to private properties shall be obtained in writing prior to any initiation of field efforts.
- SEPA checklist preparation will not require separate field work, study or analysis by the CONSULTANT. Information to prepare the checklist will be gathered from known data sources, mapping, and online research and existing documents provided by the CITY.
- The CITY will formally issue the SEPA determination and distribute public notice and supporting materials to the appropriate agencies and the public.
- Mailing lists and postage fees will be provided by the CITY.
- Permit fees will be paid by the CITY.
- Public notification mailing, distribution, posting at public facilities (library, City Hall, county facilities etc.), on-site posting as required will also be handled by the CITY.
- Coordination and payment for the public notice in the local newspapers will be handled by the CITY.
- A Mitigation Plan for the wetlands and stream will be an add-on task for the final design.
- Scope and budget to support a SEPA appeal is not included and is considered Extra Work.
- The proposed project will not require construction on State Avenue or within the Cemetery
- If cultural resources are located in the project area, an Archaeological Site Inventory Form will be required by DAHP; preparation of this form is not included in this scope of services.

- Roadway plans in AutoCAD format for the proposed alignment will be provided for use with GIS in TNM modeling.
- Design year traffic data will be provided by the CITY or CONSULTANT traffic engineers.
- Interim year and design year traffic volumes (or growth rates) including turning movements and signal timing data will be provided by the CITY or CONSULTANT traffic engineers.
- Suitable design-level information for modeling will be provided.
- Qualitative discussion of other criteria pollutants, including construction emissions (e.g., PM10, PM2.5, NOx) will be sufficient.
- Qualitative discussion of mobile source air toxics and greenhouse gases is sufficient.
- Results of Task 13.2 recommendations may require additional follow-up investigation, such as a formal Phase I Environmental Site Assessment or Phase II Environmental Site Investigation - both of which are outside the scope of this AGREEMENT.
- The regulators (CITY, Tulalip Tribe and Natural Resource Agencies) all agree on the logical termini and independent utility.
- Each document is limited to two review and revision cycles by CITY and Natural Resource Agencies.
- Changes to the project description and/or project area may necessitate modifications to this scope of services; such changes will be considered as Extra Work.

Deliverable(s) – to be authorized by future supplement:

- Draft and Final Wetland and Stream Delineation Report.
- Draft and Final Cultural Resources Assessment Report (electronic PDF).
- Draft and Final Biological Assessment.
- Draft and Final Critical Area Report.
- Draft and Final Noise Assessment.
- Draft and Final Air Quality Assessment.
- Draft and Final EJ Evaluation.
- Draft and Final ECS form.
- Draft and Final Hazardous Material Report
- Draft and Final SEPA Checklist.
- Draft and Final JARPA for Corps/Ecology.
- Draft On-Line JARPA for WDFW (APPS).
- Draft and Final Critical Area Permit Package for City of Marysville permitting.
- City Permits.

TASK 14. 60% DESIGN - TO BE SCOPED IN FUTURE SUPPLEMENT

14.1. 60% Design

The scope of work for 60% Design Submittal will be reviewed and defined at completion of the 30% Design. The associated budget for these efforts will be developed and authorized by supplemental agreement.

TASK 15. FINAL DESIGN PACKAGES – SEGMENT DESIGN - TO BE SCOPED IN FUTURE SUPPLEMENT

The scope of work for 90% Design, and Ad-Ready Construction Packages will be reviewed and modified as construction funding is secured and the schedule is identified. Associated budgets for these efforts will be developed and authorized by supplemental agreement(s).

TASK 16. CONSTRUCTABILITY ANALYSIS / MOCK BID EXERCISE

The CONSULTANT shall provide constructability input and review of the culvert and wall construction for the 30% Design submittal. The Constructability Analysis and Mock Bid Exercise for the 60% Design and 90% Design packages will be scoped and authorized by future supplement.

Assumption(s):

- Current Project schedules to remain as assumed at beginning of contract.

Deliverable(s):

- Constructability Review comments to the 30% Design submittal.

TASK 17. REAL ESTATE SERVICES - TO BE SCOPED IN FUTURE SUPPLEMENT

The scope of work for Real Estate Services Design will be reviewed and modified at completion of 30% Design, once the corridor footprint is identified and property impacts can be assessed. Associated budgets for these efforts will be developed / revised and authorized by supplemental agreement(s).

TASK 18. FUNDING SUPPORT - TO BE SCOPED IN FUTURE SUPPLEMENT

The scope of work for Funding Support will be reviewed and defined at completion of 30% Design, once the corridor footprint is identified and property impacts can be assessed. The associated budget for these efforts will be developed / revised and authorized by supplemental agreement.

TASK 19. BIDDING PHASE ASSISTANCE - TO BE SCOPED IN FUTURE SUPPLEMENT

The scope of work for Bidding Phase Services will be reviewed and modified as construction funding is secured and the schedule is identified. Associated budgets for these efforts will be developed and authorized by supplemental agreement(s).

TASK 20. PUBLIC INVOLVEMENT - TO BE SCOPED IN FUTURE SUPPLEMENT

Due to the uncertainty of project funding availability and timing of funds, the detailed scope for this Task and its associated budget will be developed and authorized by future supplemental agreement.

Exhibit B
DBE Participation

DBE not applicable

Agreement Number:

Exhibit C

Preparation and Delivery of Electronic Engineering and Other Data

In this Exhibit the agency, as applicable, is to provide a description of the format and standards the consultant is to use in preparing electronic files for transmission to the agency. The format and standards to be provided may include, but are not limited to, the following:

I. Surveying, Roadway Design & Plans Preparation Section

A. Survey Data

B. Roadway Design Files

C. Computer Aided Drafting Files

Agreement Number:

D. Specify the Agency's Right to Review Product with the Consultant

E. Specify the Electronic Deliverables to Be Provided to the Agency

F. Specify What Agency Furnished Services and Information Is to Be Provided

Agreement Number:

II. Any Other Electronic Files to Be Provided

III. Methods to Electronically Exchange Data

A. Agency Software Suite

B. Electronic Messaging System

C. File Transfers Format

Exhibit D
Prime Consultant Cost Computations

See attached Exhibit D-1

Agreement Number:

Exhibit D-1

City of Marysville: 88th Street Corridor

| Task # | Task Description | From "Labor Budget" Tab | From "Expenses" Tab | Master3 |
|------------|--|-------------------------|---------------------|--------------|
| | | Billable Labor | Billable Expenses | |
| 1 | Task 1 - Project Management & Administration | \$ 59,997.32 | \$ 3,123.75 | \$63,121.07 |
| 2 | Task 2 - Client Communications & Coordination | \$ 20,644.92 | \$ 1,130.50 | \$21,775.42 |
| 3 | Task 3 - Quality Assurance / Quality Control | \$ 4,379.90 | \$ 645.00 | \$5,024.90 |
| 4 | Task 4 - Data Collection / Review Information | \$ 17,996.10 | \$ 161.30 | \$18,157.40 |
| 5 | Task 5 - Survey & Mapping | \$ 6,613.06 | \$ 204,519.75 | \$211,132.81 |
| 6 | Task 6 - Geotechnical Engineering | \$ 2,420.77 | \$ 136,897.25 | \$139,318.02 |
| 7 | Task 7 - Watermain & Sanitary Sewer | \$ 28,175.20 | \$ 81.50 | \$28,256.70 |
| 8 | Task 8 - Traffic Analysis | \$ 29,366.50 | \$ 11,409.00 | \$40,775.50 |
| 9 | Task 9 - Preliminary Design | \$ 107,701.66 | \$ 1,111.75 | \$108,813.41 |
| 10 | Task 10 - Design Report | \$ 22,349.86 | \$ 296.25 | \$22,646.11 |
| 11 | Task 11 - 30% Design | \$ 254,269.90 | \$ 548.75 | \$254,818.65 |
| 12 | Task 12 - Value Engineering Study | \$ - | \$ - | \$0.00 |
| 13 | Task 13 - Environmental Documentation & Permitting | \$ 67,351.78 | \$ 1,056.00 | \$68,407.78 |
| 14 | Task 14 - 60% Design | \$ - | \$ - | \$0.00 |
| 15 | Task 15 - Final Design Packages - Segment Design | \$ - | \$ - | \$0.00 |
| 16 | Task 16 - Constructability Analysis & Mock Bid | \$ - | \$ 4,082.50 | \$4,082.50 |
| 17 | Task 17 - Real Estate Services | \$ 1,726.48 | \$ 206.50 | \$1,932.98 |
| 18 | Task 18 - Funding Support | \$ - | \$ - | \$0.00 |
| 19 | Task 19 Bidding Phase Assistance | \$ - | \$ - | \$0.00 |
| 20 | Task 20 - Public Involvement | \$ - | \$ - | \$0.00 |
| | | | | \$988,263.25 |
| Escalation | | | | \$10,902.38 |
| | | | | \$999,165.63 |

LABOR ESTIMATE, HDR ENGINEERING STAFF

City of Marysville: 88th Street Corridor

| | Ericksen, John A | White, Francesca P | Ward, Brian K | Kury, Lukas | Starling, Jonathan M | Sannon, Jensen | Peterson, Beth C | Wurden, Peter G V | Doran, Grace | Gunnard, Matthew C | Danejski, Lisa C | Kawamoto, Karissa M | Weich, Ian D | Clifford, Marissa A | Milliken, Andrew C |
|--|-------------------------------------|-------------------------|--|--------------------------------|------------------------------|------------------------------|--|--------------------------------|--------------------------------|--------------------------------|--------------------------------------|--|-------------------------|------------------------------------|---|
| Project Role | Storm Drainage QA/QC | Storm Drainage Lead | Stormwater Senior Project Engineer | Stormwater EIT | Utilities Lead | Utilities Engineer | Fish Passage / Hydraulics Lead | Hydraulics Engineer | Hydraulics EIT | Landscape Architect | Environmental Lead | Environmental QA/QC | Fish Biologist | Environmental Planner | Sr. Environmental Scientist |
| Billing Rate | 153.83 | 111.55 | 189.28 | 93.22 | 180.24 | 107.56 | 227.54 | 109.14 | 90.35 | 139.77 | 135.87 | 205.00 | 123.45 | 108.88 | 230.21 |
| HDR Job Title | EWR EWR200 Engineer Water Resources | ESA ESA100 EIT Sanitary | EWR EWR300 Engineer Water Resources Sr | EWR EWR100 EIT Water Resources | ESA ESA200 Engineer Sanitary | ESA ESA200 Engineer Sanitary | MGT MGT100 Section Manager Team Leader | EWR EWR100 EIT Water Resources | EWR EWR100 EIT Water Resources | LAR LAR200 Landscape Architect | ENS SEN200 Environmental Scientist 2 | MGT MGT100 Section Manager Team Leader | ENS BIO300 Biologist Sr | PLN PLE100 Environmental Planner 1 | MGT MGT620 Area Business Group Director |
| Direct Rates | 53.63 | 38.89 | 65.99 | 32.50 | 62.84 | 37.50 | 79.33 | 38.05 | 31.50 | 48.73 | 47.37 | 71.47 | 43.04 | 37.96 | 80.26 |
| 1 Task 1 - Project Management & Administration | 2 | 0 | 0 | 0 | 2 | 0 | 2 | 0 | 0 | 2 | 2 | 0 | 0 | 0 | 0 |
| 1.1 Project FTP, Project Setup, Mgmt Plan, HASP | | | | | | | | | | | | | | | |
| 1.1 (a) Project Setup | | | | | | | | | | | | | | | |
| 1.1 (b) Project Mgmt Plan / Quality Mgmt Plan / HASP | | | | | | | | | | | | | | | |
| 1.2 Project Team Coordination Meetings (36) | | | | | | | | | | | | | | | |
| 1.3 Project Schedule (Initial + 8 updates) | | | | | | | | | | | | | | | |
| 1.4 Progress Reporting and Invoicing (16) | | | | | | | | | | | | | | | |
| 1.5 Subconsultant Coordination | | | | | | | | | | | | | | | |
| 1.6 Project Kick-off Meeting | 2 | | | | 2 | | 2 | | | 2 | 2 | | | | |
| 1.7 Project Team Management | | | | | | | | | | | | | | | |
| 1.8 Project Close-out | | | | | | | | | | | | | | | |
| 2 Task 2 - Client Communications & Coordination | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2.1 Bi-weekly 5/15 Reports (36) | | | | | | | | | | | | | | | |
| 2.2 Monthly Client Coordination Meetings (16) | | | | | | | | | | | | | | | |
| 2.3 General ongoing communications | | | | | | | | | | | | | | | |
| 3 Task 3 - Quality Assurance / Quality Control | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3.1 Preliminary Engineering | | | | | | | | | | | | | | | |
| 3.2 Design Report 30% | | | | | | | | | | | | | | | |
| 3.3 30% Design Submittal | | | | | | | | | | | | | | | |
| 4 Task 4 - Data Collection / Review Information | 8 | 10 | 0 | 0 | 16 | 64 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4.1 Obtain / request data from City & Utilities | 2 | 2 | | | 2 | 8 | | | | | | | | | |
| 4.2 Review existing data | 8 | 8 | | | 12 | 48 | | | | | | | | | |
| 4.3 Prepare Data Needs Memo | | | | | 2 | 8 | | | | | | | | | |
| 5 Task 5 - Survey & Mapping | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5.1 Research & Existing Data Completion | | | | | | | | | | | | | | | |
| 5.2 Coordinate Survey Control | | | | | | | | | | | | | | | |
| 5.3 Coordinate Field Survey & Basemapping | | | | | | | | | | | | | | | |
| 5.4 Review ROW Legals & Exhibits | | | | | | | | | | | | | | | |
| 5.5 Develop ROW Plans | | | | | | | | | | | | | | | |
| 5.6 Review Office Survey Deliverables | | | | | | | | | | | | | | | |
| 5.7 Coordinate Supplemental Surveys | | | | | | | | | | | | | | | |
| 6 Task 6 - Geotechnical Engineering | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 6.1 Coordinate Geotechnical setup | | | | | | | | | | | | | | | |
| 6.2 Coordinate Subsurface Explorations & Lab Testing | | | | | | | | | | | | | | | |
| 6.3 Coordinate Geotechnical Design Services | | 1 | | | | | | | | | | | | | |
| 7 Task 7 - Watermain & Sanitary Sewer | 0 | 0 | 0 | 0 | 68 | 148 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7.1 Conduct Conditions & Capacity Analysis | | | | | 28 | 60 | | | | | | | | | |
| 7.2 30% Design Submittal | | | | | 40 | 88 | | | | | | | | | |
| 8 Task 8 - Traffic Analysis | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8.1 Data Collection & O/D Study | | | | | | | | | | | | | | | |
| 8.2 Operations Analysis | | | | | | | | | | | | | | | |
| 8.3 Traffic Technical Memorandum | | | | | | | | | | | | | | | |
| 9 Task 9 - Preliminary Design | 2 | 26 | 0 | 16 | 32 | 86 | 10 | 70 | 46 | 4 | 10 | 0 | 0 | 0 | 0 |
| 9.1 5% Design | | | | | | | | | | | | | | | |

LABOR ESTIMATE, HDR ENGINEERING STAFF

City of Marysville: 88th Street Corridor

| | Hawkins, Kimberly A | Baldwin, William D | Azevedo, Robert C | Wiang, Hua | Greenough, Jesse A | Barbeau, Janae L | Total Labor Hours | Total Labor Dollars - Billable |
|--|--------------------------------------|--|-----------------------------|--------------------------------|------------------------|------------------------------------|-------------------|--------------------------------|
| Project Role | Environmental Scientist | Traffic / MOT Lead | Signals & Illumination Lead | Traffic Engineer | Traffic EIT | RES Lead | | |
| Billing Rate | 112.66 | 240.94 | 157.76 | 171.67 | 95.89 | 215.81 | | |
| HDR Job Title | ENS SEN200 Environmental Scientist 2 | MGT.MGT100 Section Manager Team Leader | ETF.ETF200 Engineer Traffic | ETF.ETF300 Engineer Traffic Sr | ETF.ETF100 EIT Traffic | PJM.PJM200 Project Manager General | | |
| Direct Rates | 39.28 | 84.00 | 55.00 | 59.85 | 33.43 | 75.24 | | |
| 1 Task 1 - Project Management & Administration | 0 | 2 | 2 | 0 | 0 | 2 | 332 | \$ 58,065.72 |
| 1.1 Project FTP, Project Setup, Mgmt Plan, H&P | | | | | | | 0 | \$ - |
| 1.1 (a) Project Setup | | | | | | | 30 | \$ 2,964.70 |
| 1.1 (b) Project Mgmt Plan / Quality Mgmt Plan / HASP | | | | | | | 24 | \$ 5,225.28 |
| 1.2 Project Team Coordination Meetings (36) | | | | | | | 72 | \$ 13,855.32 |
| 1.3 Project Schedule (Initial + 8 updates) | | | | | | | 28 | \$ 6,368.48 |
| 1.4 Progress Reporting and Invoicing (16) | | | | | | | 40 | \$ 4,318.16 |
| 1.5 Subconsultant Coordination | | | | | | | 48 | \$ 6,249.76 |
| 1.6 Project Kick-off Meeting | | 2 | 2 | | | 2 | 42 | \$ 7,115.14 |
| 1.7 Project Team Management | | | | | | | 48 | \$ 11,968.88 |
| 1.8 Project Close-out | | | | | | | 0 | \$ - |
| 2 Task 2 - Client Communications & Coordination | 0 | 0 | 0 | 0 | 0 | 0 | 92 | \$ 20,644.92 |
| 2.1 Bi-weekly 5/15 Reports (36) | | | | | | | 12 | \$ 2,897.40 |
| 2.2 Monthly Client Coordination Meetings (16) | | | | | | | 48 | \$ 10,021.12 |
| 2.3 General ongoing communications | | | | | | | 32 | \$ 7,726.40 |
| 3 Task 3 - Quality Assurance / Quality Control | 0 | 0 | 0 | 0 | 0 | 0 | 22 | \$ 4,379.90 |
| 3.1 Preliminary Engineering | | | | | | | 6 | \$ 1,215.70 |
| 3.2 Design Report 30% | | | | | | | 6 | \$ 1,215.70 |
| 3.3 30% Design Submittal | | | | | | | 10 | \$ 1,948.50 |
| 4 Task 4 - Data Collection / Review Information | 0 | 0 | 8 | 2 | 14 | 0 | 146 | \$ 17,996.10 |
| 4.1 Obtain / request data from City & Utilities | | | 2 | 2 | 2 | | 20 | \$ 2,581.54 |
| 4.2 Review existing data | | | 2 | | 4 | | 98 | \$ 11,934.92 |
| 4.3 Prepare Data Needs Memo | | | 4 | | 8 | | 28 | \$ 3,479.64 |
| 5 Task 5 - Survey & Mapping | 0 | 0 | 0 | 0 | 0 | 0 | 56 | \$ 6,613.06 |
| 5.1 Research & Existing Data Compilation | | | | | | | 2 | \$ 286.84 |
| 5.2 Coordinate Survey Control | | | | | | | 0 | \$ - |
| 5.3 Coordinate Field Survey & Basemapping | | | | | | | 10 | \$ 1,021.16 |
| 5.4 Review ROW Legals & Exhibits | | | | | | | 0 | \$ - |
| 5.5 Develop ROW Plans | | | | | | | 18 | \$ 1,887.76 |
| 5.6 Review Office Survey Deliverables | | | | | | | 18 | \$ 2,073.88 |
| 5.7 Coordinate Supplemental Surveys | | | | | | | 8 | \$ 1,343.42 |
| 6 Task 6 - Geotechnical Engineering | 0 | 0 | 0 | 0 | 0 | 0 | 13 | \$ 2,420.77 |
| 6.1 Coordinate Geotechnical setup | | | | | | | 2 | \$ 286.84 |
| 6.2 Coordinate Subsurface Explorations & Lab Testing | | | | | | | 4 | \$ 769.74 |
| 6.3 Coordinate Geotechnical Design Services | | | | | | | 7 | \$ 1,364.19 |
| 7 Task 7 - Watermain & Sanitary Sewer | 0 | 0 | 0 | 0 | 0 | 0 | 216 | \$ 28,175.20 |
| 7.1 Conduct Conditions & Capacity Analysis | | | | | | | 88 | \$ 11,500.32 |
| 7.2 30% Design Submittal | | | | | | | 128 | \$ 16,674.88 |
| 8 Task 8 - Traffic Analysis | 0 | 8 | 8 | 228 | 0 | 0 | 248 | \$ 43,100.10 |
| 8.1 Data Collection & O/D Study | | 4 | 6 | 28 | | | 38 | \$ 6,717.08 |
| 8.2 Operations Analysis | | | 2 | 152 | | | 154 | \$ 26,409.36 |
| 8.3 Traffic Technical Memorandum | | 4 | | 48 | | | 56 | \$ 9,973.66 |
| 9 Task 9 - Preliminary Design | 0 | 4 | 40 | 0 | 52 | 10 | 780 | \$ 105,556.90 |
| 9.1 5% Design | | | | | | | 0 | \$ - |

| | Hawkins, Kimberly A | Baldwin, William D | Azevedo, Robert C | Wang, Hua | Greenough, Jesse A | Barbeau, Janice L | Hours | Fee | Billable |
|--|---------------------|--------------------|-------------------|------------------|--------------------|-------------------|--------------|-----------|-------------------|
| 9.1.1 Develop Design Criteria | | | 10 | | | 10 | 66 | \$ | 9,983.34 |
| 9.1.2 Roadway | | | | | | | 124 | \$ | 16,060.12 |
| 9.1.3 Creek Crossings | | | | | | | 172 | \$ | 22,528.56 |
| 9.1.4 Utilities & Stormwater | | | | | | | 70 | \$ | 8,037.58 |
| 9.1.5 Traffic | | 4 | 30 | | 52 | | 86 | \$ | 10,682.84 |
| 9.2 Develop Preferred Alternative | | | | | | | 84 | \$ | 12,820.08 |
| 9.3 Preliminary Engineering Report | | | | | | | 0 | \$ | - |
| 9.3.1 Draft Report & Rollplot | | | | | | | 85 | \$ | 11,932.28 |
| 9.3.2 QC Draft Report & Rollplot | | | | | | | 20 | \$ | 3,080.40 |
| 9.3.3 Final Report & Rollplot | | | | | | | 53 | \$ | 7,351.30 |
| 9.3.4 QC Final Report & Rollplot | | | | | | | 20 | \$ | 3,080.40 |
| 10 Task 10 - Design Report | 0 | 0 | 12 | 0 | 32 | 0 | 150 | \$ | 21,582.74 |
| 10.1 30% Submittal | | | | | | | 0 | \$ | - |
| 10.1.1 Structures Technical Memorandum | | | | | | | 34 | \$ | 5,289.06 |
| 10.1.2 Traffic Technical Memorandum | | | 12 | | 32 | | 46 | \$ | 5,444.50 |
| 10.1.3 Incorporate Preliminary Engineering Report | | | | | | | 70 | \$ | 10,849.18 |
| 11 Task 11 - 30% Design | 0 | 0 | 48 | 0 | 80 | 8 | 1894 | \$ | 245,454.64 |
| 11.1 30% Design | | | 16 | | | 8 | 518 | \$ | 76,522.20 |
| 11.2 30% Plans | | | | | | | 0 | \$ | - |
| 11.2.1 General Sheets | | | | | | | 52 | \$ | 6,425.24 |
| 11.2.2 Roadway Design | | | | | | | 452 | \$ | 56,179.16 |
| 11.2.3 Stormwater Design | | | | | | | 208 | \$ | 22,951.04 |
| 11.2.4 Creek Crossings & Structural Design | | | | | | | 296 | \$ | 36,609.92 |
| 11.2.5 Signal & Illumination | | | 24 | | 72 | | 100 | \$ | 11,264.00 |
| 11.2.6 Utility Design & Coordination | | | | | | | 96 | \$ | 11,992.60 |
| 11.3 Estimate | | | 8 | | 8 | | 152 | \$ | 19,579.14 |
| 11.4 30% Submittal | | | | | | | 20 | \$ | 3,931.34 |
| 12 Task 12 - Value Engineering Study | 0 | 0 | 0 | 0 | 0 | 0 | 0 | \$ | - |
| 13 Task 13 - Environmental Documentation & Permitting | 24 | 2 | 2 | 0 | 0 | 0 | 536 | \$ | 67,351.78 |
| 13.1 Organize Kick-off Meeting | | 2 | 2 | | | | 16 | \$ | 2,270.20 |
| 13.2 NEPA/SEPA/Permitting Stakeholder Mtgs & Coordination | | | | | | | 64 | \$ | 8,047.92 |
| 13.3 Wetlands, Streams, Fish, Wildlife & Habitat Baseline | | | | | | | 58 | \$ | 7,259.46 |
| 13.4 Wetland & Stream Delineation Report | | | | | | | 56 | \$ | 7,125.98 |
| 13.5 Cultural Resources Assessment | | | | | | | 0 | \$ | - |
| 13.6 ESA compliance - Biological Assessment | | | | | | | 66 | \$ | 8,360.48 |
| 13.7 Critical Areas Report | | | | | | | 0 | \$ | - |
| 13.8 Noise Assessment re: FHWA & WSDOT | | | | | | | 105 | \$ | 13,517.23 |
| 13.9 Air Quality Assessment re: FHWA & WSDOT | | | | | | | 0 | \$ | - |
| 13.10 Environmental Justice Documentation re: FHWA & WSDOT | | | | | | | 58 | \$ | 6,839.76 |
| 13.11 NEPA Documentation & Approval | | | | | | | 50 | \$ | 6,184.64 |
| 13.12 Hazardous Materials | 24 | | | | | | 63 | \$ | 7,746.11 |
| 14 Task 14 - 60% Design | 0 | 0 | 0 | 0 | 0 | 0 | 0 | \$ | - |
| 15 Task 15 - Final Design Packages - Segment Design | 0 | 0 | 0 | 0 | 0 | 0 | 0 | \$ | - |
| 16 Task 16 - Constructability Analysis & Mock Bid | 0 | 0 | 0 | 0 | 0 | 0 | 0 | \$ | - |
| 17 Task 17 - Real Estate Services | 0 | 0 | 0 | 0 | 0 | 8 | 8 | \$ | 1,726.48 |
| 17.1 RES Effort Management | | | | | | | 8 | \$ | 1,726.48 |
| 18 Task 18 - Funding Support | 0 | 0 | 0 | 0 | 0 | 0 | 0 | \$ | - |
| 19 Task 19 Bidding Phase Assistance | 0 | 0 | 0 | 0 | 0 | 0 | 0 | \$ | - |
| 20 Task 20 - Public Involvement | 0 | 0 | 0 | 0 | 0 | 0 | 0 | \$ | - |
| Task Total Hours | 24 | 16 | 120 | 230 | 178 | 28 | 4,493 | | |
| Task Total Fee | \$ 2,704 | \$ 3,855 | \$ 18,931 | \$ 39,484 | \$ 17,068 | \$ 6,043 | | \$ | 623,068 |

EXPENSES

City of Marysville: 88th Street Corridor

| Expense Summary | Task 1 - Project Management & Administration | Task 2 - Client Communications & Coordination | Task 3 - Quality Assurance / Quality Control | Task 4 - Data Collection / Review Information | Task 5 - Survey & Mapping | Task 6 - Geotechnical Engineering |
|-----------------|--|---|--|---|---------------------------|-----------------------------------|
|-----------------|--|---|--|---|---------------------------|-----------------------------------|

OTHER DIRECT COSTS (Enter Cost per Unit (Column C) and then Qty for each Task)

General Travel Expenses, non-government rates (These per unit costs are placeholders only. Use actual costs or client-approved per diem rates.)

| | Cost per Unit | Qty | Total | Qty | Task Total | Qty | Task Total | Qty | Task Total | Qty | Task Total | Qty | Task Total | Qty | Task Total |
|---|---------------|------|------------|------|------------|------|------------|-----|------------|-----|------------|-----|------------|-----|------------|
| Air Fare/round trip | \$500.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 |
| Airport Parking/day -- SEA or BEL | \$20.00 | 38 | \$760.00 | 26 | \$520.00 | 0 | \$0.00 | 4 | \$80.00 | 0 | \$0.00 | 1 | \$20.00 | 2 | \$40.00 |
| Car Rental/week | \$275.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 |
| Truck Rental/mo. (includes gas + mileage) | \$1,500.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 |
| Lodging/day | \$159.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 |
| Meals/day | \$71.00 | 2 | \$142.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 |
| Gas/gal | \$3.40 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 |
| HDR Owned Vehicle Mileage/mile | \$0.750 | 5780 | \$4,335.00 | 2145 | \$1,608.75 | 1210 | \$907.50 | 330 | \$247.50 | 176 | \$132.00 | 83 | \$62.25 | 165 | \$123.75 |
| POV Mileage/mile | \$0.545 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 |

Per Diem Travel (Look up rates at GSA Website, link below)

| GSA WEBSITE | City/County | Cost per Unit | Days | Total | Days | Task Total | Days | Task Total | Days | Task Total | Days | Task Total | Days | Task Total | Days | Task Total |
|--------------------|-------------|---------------|------|--------|------|------------|------|------------|------|------------|------|------------|------|------------|------|------------|
| Per Diem Lodging | | | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 |
| Per Diem-Meals | 0 | | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 |
| 75% Per Diem-Meals | 0 | | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 |
| Tolls | | \$5.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 |

TRAVEL EXPENSES TOTAL **\$5,237.00** **\$2,128.75** **\$907.50** **\$327.50** **\$132.00** **\$82.25** **\$163.75**

Field Equipment (Contact rental company for actual rates)

| | Cost per Unit | Qty | Total | Qty | Task Total | Qty | Task Total | Qty | Task Total | Qty | Task Total | Qty | Task Total | Qty | Task Total |
|---------------------------------------|---------------|-----|----------|-----|------------|-----|------------|-----|------------|-----|------------|-----|------------|-----|------------|
| H&S/Day | \$25.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 |
| Field Supplies (tools, ice, etc) | \$50.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 |
| Transducers (ea. Rental/month) | \$720.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 |
| Sampling Pumps | \$60.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 |
| Water Level Meter | \$50.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 |
| Well Permits (avg) | \$130.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 |
| Permit by Rule | \$500.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 |
| Photoionization Detector/Day | \$60.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 |
| CGI/Day | \$45.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 |
| Digital Camera/ week | \$35.00 | 3 | \$105.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 |
| Trimble Unit (Dept 002 in-house)/ day | \$26.00 | 1 | \$26.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 |
| Trimble Unit | \$675.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 |

FIELD EQUIPMENT TOTAL **\$131.00** **\$0.00** **\$0.00** **\$0.00** **\$0.00** **\$0.00** **\$0.00**

| Office Expenses | Cost per Unit | Qty | Total | Qty | Task Total | Qty | Task Total | Qty | Task Total | Qty | Task Total | Qty | Task Total | Qty | Task Total |
|---------------------------------------|---------------|------|------------|------|------------|-----|------------|------|------------|-----|------------|-----|------------|-----|------------|
| Tech Fees (billed per labor hour) | \$3.70 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 |
| Copies/Page 8.5x11 B&W | \$0.05 | 4850 | \$242.50 | 1000 | \$50.00 | 500 | \$25.00 | 500 | \$25.00 | 100 | \$5.00 | 100 | \$5.00 | 100 | \$5.00 |
| Copies/Page 8.5x11 Color | \$0.45 | 2100 | \$945.00 | 500 | \$225.00 | 200 | \$90.00 | 250 | \$112.50 | 50 | \$22.50 | 50 | \$22.50 | 50 | \$22.50 |
| Copies/Page 11x17 B&W | \$0.09 | 4570 | \$411.30 | 500 | \$45.00 | 200 | \$18.00 | 1000 | \$90.00 | 20 | \$1.80 | 100 | \$9.00 | 100 | \$9.00 |
| Copies/Page 11x17 Color | \$0.90 | 1500 | \$1,350.00 | 250 | \$225.00 | 100 | \$90.00 | 100 | \$90.00 | 0 | \$0.00 | 100 | \$90.00 | 0 | \$0.00 |
| Bond Plots - B&W (per sq. ft.) | \$0.14 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 |
| Bond Plots - Color (per sq. ft.) | \$0.90 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 |
| Express Mail | \$25.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 |
| CD - 1st CD \$20, each add. Copy \$10 | \$20.00 | 10 | \$200.00 | 10 | \$200.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 |
| Conference Calling - per min per line | \$0.05 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 |
| Office Supplies-Misc. (binders etc) | \$25.00 | 25 | \$625.00 | 10 | \$250.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 |

OFFICE SUPPLIES TOTAL **\$3,773.80** **\$995.00** **\$223.00** **\$317.50** **\$29.30** **\$126.50** **\$36.50**

| Task 7 - Watermain & Sanitary Sewer | Task 8 - Traffic Analysis | Task 9 - Preliminary Design | Task 10 - Design Report | Task 11 - 30% Design | Task 12 - Value Engineering Study | Task 13 - Environmental Documentation & Permitting | Task 14 - 60% Design | Task 15 - Final Design Packages - Segment Design |
|-------------------------------------|---------------------------|-----------------------------|-------------------------|----------------------|-----------------------------------|--|----------------------|--|
|-------------------------------------|---------------------------|-----------------------------|-------------------------|----------------------|-----------------------------------|--|----------------------|--|

| Qty | Task Total | Qty | Task Total | Qty | Task Total | Qty | Task Total | Qty | Task Total | Qty | Task Total | Qty | Task Total | Qty | Task Total | Qty | Task Total |
|--------|------------|----------|------------|----------|------------|----------|------------|--------|------------|------|------------|------|------------|------|------------|------|------------|
| 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 |
| 0 | \$0.00 | 0 | \$0.00 | 2 | \$40.00 | 1 | \$20.00 | 2 | \$40.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 |
| 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 |
| 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 |
| 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 |
| 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 2 | \$142.00 | 0 | \$0.00 | 0 | \$0.00 |
| 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 |
| 0 | \$0.00 | 70 | \$52.50 | 1001 | \$750.75 | 83 | \$62.25 | 165 | \$123.75 | 0 | \$0.00 | 352 | \$264.00 | 0 | \$0.00 | 0 | \$0.00 |
| 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 |
| Days | Task Total | Days | Task Total | Days | Task Total | Days | Task Total | Days | Task Total | Days | Task Total | Days | Task Total | Days | Task Total | Days | Task Total |
| 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 |
| 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 |
| 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 |
| 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 |
| \$0.00 | \$52.50 | \$790.75 | \$82.25 | \$163.75 | \$0.00 | \$406.00 | \$0.00 | \$0.00 | | | | | | | | | |

| Qty | Task Total | Qty | Task Total | Qty | Task Total | Qty | Task Total | Qty | Task Total | Qty | Task Total | Qty | Task Total | Qty | Task Total | Qty | Task Total |
|--------|------------|---------|------------|--------|------------|--------|------------|--------|------------|---------|------------|--------|------------|-----|------------|-----|------------|
| 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 |
| 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 |
| 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 |
| 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 |
| 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 |
| 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 |
| 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 |
| 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 |
| 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 |
| 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 |
| 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 |
| 0 | \$0.00 | 0 | \$0.00 | 1 | \$35.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 2 | \$70.00 | 0 | \$0.00 | 0 | \$0.00 |
| 0 | \$0.00 | 0 | \$0.00 | 1 | \$26.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 |
| 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 |
| \$0.00 | \$0.00 | \$61.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$70.00 | \$0.00 | \$0.00 | | | | | |

| Qty | Task Total | Qty | Task Total | Qty | Task Total | Qty | Task Total | Qty | Task Total | Qty | Task Total | Qty | Task Total | Qty | Task Total | Qty | Task Total |
|---------|------------|----------|------------|----------|------------|----------|------------|--------|------------|-----|------------|-----|------------|-----|------------|-----|------------|
| 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 |
| 100 | \$5.00 | 250 | \$12.50 | 250 | \$12.50 | 500 | \$25.00 | 500 | \$25.00 | 0 | \$0.00 | 750 | \$37.50 | 0 | \$0.00 | 0 | \$0.00 |
| 50 | \$22.50 | 100 | \$45.00 | 150 | \$67.50 | 200 | \$90.00 | 200 | \$90.00 | 0 | \$0.00 | 200 | \$90.00 | 0 | \$0.00 | 0 | \$0.00 |
| 100 | \$9.00 | 100 | \$9.00 | 500 | \$45.00 | 100 | \$9.00 | 1000 | \$90.00 | 0 | \$0.00 | 250 | \$22.50 | 0 | \$0.00 | 0 | \$0.00 |
| 50 | \$45.00 | 100 | \$90.00 | 150 | \$135.00 | 100 | \$90.00 | 200 | \$180.00 | 0 | \$0.00 | 200 | \$180.00 | 0 | \$0.00 | 0 | \$0.00 |
| 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 |
| 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 |
| 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 |
| 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 |
| 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 |
| 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 |
| 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 |
| 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 10 | \$250.00 | 0 | \$0.00 | 0 | \$0.00 |
| \$81.50 | \$156.50 | \$260.00 | \$214.00 | \$385.00 | \$0.00 | \$580.00 | \$0.00 | \$0.00 | | | | | | | | | |

C:\Users\mpawisk\Documents\Marysville\88th Street Corridor\Scope Schedule Budget Development\Budget\BUDGET\Draft 4\180417\MAP Marysville 88th St Corridor_ESTIMATE - Master 4.XLSM

City of Marysville: 88th Street Corridor

| Miscellaneous Expenses | Cost per Unit | Qty | Total | Qty | Task Total | Qty | Task Total | Qty | Task Total | Qty | Task Total | Qty | Task Total | Qty | Task Total |
|-------------------------------------|---------------|-----|--------------------|-----|---------------|-----|---------------|-----|---------------|-----|---------------|-----|---------------|-----|---------------|
| Traffic Data Collection | \$6,200.00 | 1 | \$6,200.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 |
| O/D Traffic Data | \$5,000.00 | 1 | \$5,000.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 |
| | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 |
| MISCELLANEOUS EXPENSES TOTAL | | | \$11,200.00 | | \$0.00 | | \$0.00 | | \$0.00 | | \$0.00 | | \$0.00 | | \$0.00 |

| Contingency Budget for Expenses (estimated as a % of Labor) | Qty | Task Total | Qty | Task Total | Qty | Task Total | Qty | Task Total | Qty | Task Total | Qty | Task Total |
|---|-------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Enter percentage of labor to calculate Expense Budget | 0.00% | | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 |
| CONTINGENCY BUDGET FOR EXPENSES TOTAL | | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 |

| | | | | | | | | |
|--|--------------------|-------------------|-------------------|-----------------|-----------------|-----------------|-----------------|--------|
| TOTAL - OTHER DIRECT COSTS | \$20,341.80 | \$3,123.75 | \$1,130.50 | \$645.00 | \$161.30 | \$208.75 | \$200.25 | |
| ODC Markup (markup is entered on Project Info tab) | 0% | \$0.00 | 0% | \$0.00 | 0% | \$0.00 | 0% | \$0.00 |
| TOTAL - OTHER DIRECT COSTS + MARKUP | \$19,972.80 | \$3,123.75 | \$1,130.50 | \$645.00 | \$161.30 | \$208.75 | \$200.25 | |

SUBCONSULTANTS (Enter Sub budget for each Task. Substantiate with Subconsultant's Proposal or Quote for Services)

| | | | | | | | |
|--|---------------------|---------------|---------------|---------------|---------------|---------------------|---------------------|
| 1-Alliance Geomatics | \$204,311.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$204,311.00 | \$0.00 |
| HWA Geosciences | \$136,697.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$136,697.00 |
| Tierra ROW Services | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 |
| Ott-Sakai | \$3,920.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 |
| Appraisal Group of the NW | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 |
| Duncan & Associates | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 |
| Performance Plane, LLC | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 |
| | | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 |
| Subcontracts Total | \$344,928.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$204,311.00 | \$136,697.00 |
| Markup on Subs (markup is entered on Project Info tab) | \$0.00 | 0% | \$0.00 | 0% | \$0.00 | 0% | \$0.00 |
| Total Subcontracts + Markup | \$344,928.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$204,311.00 | \$136,697.00 |

| | | | | | | | |
|---|---------------------|-------------------|-------------------|-----------------|-----------------|---------------------|---------------------|
| Total Expenses (ODCs + Subcontractors + Markups) | \$364,900.80 | \$3,123.75 | \$1,130.50 | \$645.00 | \$161.30 | \$204,519.75 | \$136,897.25 |
|---|---------------------|-------------------|-------------------|-----------------|-----------------|---------------------|---------------------|

| Qty | Task Total | Qty | Task Total | Qty | Task Total | Qty | Task Total | Qty | Task Total | Qty | Task Total | Qty | Task Total | Qty | Task Total | Qty | Task Total |
|--------|------------|-------------|------------|--------|------------|--------|------------|--------|------------|--------|------------|--------|------------|--------|------------|--------|------------|
| 0 | \$0.00 | 1 | \$6,200.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 |
| 0 | \$0.00 | 1 | \$5,000.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 |
| 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 | 0 | \$0.00 |
| \$0.00 | | \$11,200.00 | | \$0.00 | | \$0.00 | | \$0.00 | | \$0.00 | | \$0.00 | | \$0.00 | | \$0.00 | |

| Qty | Task Total | Qty | Task Total | Qty | Task Total | Qty | Task Total | Qty | Task Total | Qty | Task Total | Qty | Task Total | Qty | Task Total | Qty | Task Total |
|-----|------------|-----|------------|-----|------------|-----|------------|-----|------------|-----|------------|-----|------------|-----|------------|-----|------------|
| | \$0.00 | | \$0.00 | | \$0.00 | | \$0.00 | | \$0.00 | | \$0.00 | | \$0.00 | | \$0.00 | | \$0.00 |
| | \$0.00 | | \$0.00 | | \$0.00 | | \$0.00 | | \$0.00 | | \$0.00 | | \$0.00 | | \$0.00 | | \$0.00 |

| | | | | | | | | | | | | | | | | | |
|---------|-------------|------------|----------|----------|--------|------------|--------|--------|--------|----|--------|----|--------|----|--------|----|--------|
| \$81.50 | \$11,409.00 | \$1,111.75 | \$296.25 | \$548.75 | \$0.00 | \$1,056.00 | \$0.00 | \$0.00 | | | | | | | | | |
| 0% | \$0.00 | 0% | \$0.00 | 0% | \$0.00 | 0% | \$0.00 | 0% | \$0.00 | 0% | \$0.00 | 0% | \$0.00 | 0% | \$0.00 | 0% | \$0.00 |
| \$81.50 | \$11,409.00 | \$1,111.75 | \$296.25 | \$548.75 | \$0.00 | \$1,056.00 | \$0.00 | \$0.00 | | | | | | | | | |

| | | | | | | | | | | | | | | | | | |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 |
| \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 |
| \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 |
| \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 |
| \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 |
| \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 |
| \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 |
| \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 |
| 0% | \$0.00 | 0% | \$0.00 | 0% | \$0.00 | 0% | \$0.00 | 0% | \$0.00 | 0% | \$0.00 | 0% | \$0.00 | 0% | \$0.00 | 0% | \$0.00 |
| \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 |

| | | | | | | | | |
|---------|-------------|------------|----------|----------|--------|------------|--------|--------|
| \$81.50 | \$11,409.00 | \$1,111.75 | \$296.25 | \$548.75 | \$0.00 | \$1,056.00 | \$0.00 | \$0.00 |
|---------|-------------|------------|----------|----------|--------|------------|--------|--------|

Exhibit D-1

HDR ENGINEERING, INC. ACTUALS NOT TO EXCEED TABLE

City of Marysville - 88th Street NE Corridor Improvement Project - State Avenue to 67th Avenue NE
Labor Categories

| Employee Classification | 2018 | Overhead | | Fixed Fee/Profit | | Loaded Labor Rates | |
|-------------------------|--------------------------------|---------------|-------------------------------------|---------------------------------|-------------------------------------|--------------------|--|
| | | NTE Hourly | 156.8300% X DSC NTE Hourly | 30.0% X DSC NTE Hourly | (Direct + OH + FF) NTE Hourly | | |
| Job Code | Description of Job Code | | | | | | |
| ACT01 | Accounting Asst | \$ 32.66 | \$ 51.22 | \$ 9.80 | \$ 93.68 | | |
| ACT02 | Accounting Asst Sr | \$ 44.81 | \$ 70.28 | \$ 13.44 | \$ 128.53 | | |
| ACT03 | Accountant | \$ 52.61 | \$ 82.51 | \$ 15.78 | \$ 150.90 | | |
| ACT04 | Accountant Sr | \$ 56.63 | \$ 88.81 | \$ 16.99 | \$ 162.43 | | |
| ACT05 | Accounting Business Manager | \$ 165.21 | \$ 259.10 | \$ 49.56 | \$ 473.87 | | |
| ACT06 | Assistant Area Controller | \$ 55.74 | \$ 87.42 | \$ 16.72 | \$ 159.88 | | |
| ACT07 | Area Controller | \$ 87.94 | \$ 137.92 | \$ 26.38 | \$ 252.24 | | |
| ACT10 | Controller Regional | \$ 109.54 | \$ 171.79 | \$ 32.86 | \$ 314.19 | | |
| ACT11 | Controller Company | \$ 105.03 | \$ 164.72 | \$ 31.51 | \$ 301.26 | | |
| ACT20 | Financial Analyst | \$ 27.56 | \$ 43.22 | \$ 8.27 | \$ 79.05 | | |
| ACT21 | Financial Analyst Sr | \$ 50.59 | \$ 79.34 | \$ 15.18 | \$ 145.11 | | |
| ADM01 | Receptionist/Clerk | \$ 29.49 | \$ 46.25 | \$ 8.85 | \$ 84.59 | | |
| ADM02 | Admin Asst Word Processor | \$ 37.48 | \$ 58.78 | \$ 11.24 | \$ 107.50 | | |
| ADM03 | Exec SecCoordinator | \$ 44.85 | \$ 70.34 | \$ 13.46 | \$ 128.65 | | |
| ADM04 | Clerk | \$ 26.15 | \$ 41.01 | \$ 7.85 | \$ 75.01 | | |
| ADM10 | Administrator | \$ 42.85 | \$ 67.20 | \$ 12.86 | \$ 122.91 | | |
| ADM11 | Administrator Sr | \$ 67.60 | \$ 106.02 | \$ 20.28 | \$ 193.90 | | |
| ADM20 | Administrative Office Mgr | \$ 58.86 | \$ 92.31 | \$ 17.66 | \$ 168.83 | | |
| ARC09 | Architectural Coordinator 1 | \$ 24.25 | \$ 38.03 | \$ 7.28 | \$ 69.56 | | |
| ARC10 | Architectural Coordinator 2 | \$ 36.30 | \$ 56.93 | \$ 10.89 | \$ 104.12 | | |
| ARC12 | Architectural Coordinator 3 | \$ 57.40 | \$ 90.02 | \$ 17.22 | \$ 164.64 | | |
| ARC20 | Architect Project | \$ 77.48 | \$ 121.51 | \$ 23.24 | \$ 222.23 | | |
| ARC21 | Architect Project Design | \$ 60.95 | \$ 95.59 | \$ 18.29 | \$ 174.83 | | |
| ARC30 | Architect, Sr Project | \$ 137.16 | \$ 215.11 | \$ 41.15 | \$ 393.42 | | |
| AUD40 | Lead Internal Auditor | \$ 70.66 | \$ 110.82 | \$ 21.20 | \$ 202.68 | | |
| CAR02 | CADDTechnician Arch 2 | \$ 33.67 | \$ 52.80 | \$ 10.10 | \$ 96.57 | | |
| CAR03 | CADDTechnician Arch 3 | \$ 40.53 | \$ 63.56 | \$ 12.16 | \$ 116.25 | | |
| CAR04 | CADDTechnician Arch 4 | \$ 51.77 | \$ 81.19 | \$ 15.53 | \$ 148.49 | | |
| CCI01 | CADDTechnician Civil 1 | \$ 33.57 | \$ 52.65 | \$ 10.07 | \$ 96.29 | | |
| CCI02 | CADDTechnician Civil 2 | \$ 43.22 | \$ 67.78 | \$ 12.97 | \$ 123.97 | | |
| CCI03 | CADDTechnician Civil 3 | \$ 59.18 | \$ 92.81 | \$ 17.75 | \$ 169.74 | | |
| CCI04 | CADDTechnician Civil 4 | \$ 65.07 | \$ 102.05 | \$ 19.52 | \$ 186.64 | | |
| CEL01 | CADDTechnician Electrical 1 | \$ 37.10 | \$ 58.18 | \$ 11.13 | \$ 106.41 | | |
| CEL02 | CADDTechnician Electrical 2 | \$ 39.15 | \$ 61.40 | \$ 11.75 | \$ 112.30 | | |
| CEL03 | CADDTechnician Electrical 3 | \$ 57.21 | \$ 89.72 | \$ 17.16 | \$ 164.09 | | |
| CEL04 | CADDTechnician Electrical 4 | \$ 77.52 | \$ 121.57 | \$ 23.26 | \$ 222.35 | | |
| CEN10 | Engineer Cost 1 | \$ 28.41 | \$ 44.56 | \$ 8.52 | \$ 81.49 | | |
| CEN20 | Engineer Cost 2 | \$ 38.06 | \$ 59.69 | \$ 11.42 | \$ 109.17 | | |
| CES10 | Estimator 1 | \$ 55.76 | \$ 87.45 | \$ 16.73 | \$ 159.94 | | |
| CES20 | Estimator 2 | \$ 82.14 | \$ 128.82 | \$ 24.64 | \$ 235.60 | | |
| CGE01 | CADDTechnician General 1 | \$ 26.67 | \$ 41.83 | \$ 8.00 | \$ 76.50 | | |
| CGE02 | CADDTechnician General 2 | \$ 39.12 | \$ 61.35 | \$ 11.74 | \$ 112.21 | | |
| CGE03 | CADDTechnician General 3 | \$ 45.64 | \$ 71.58 | \$ 13.69 | \$ 130.91 | | |
| CGE04 | CADDTechnician General 4 | \$ 56.93 | \$ 89.28 | \$ 17.08 | \$ 163.29 | | |
| CIN10 | Construction Inspector 1 | \$ 44.02 | \$ 69.04 | \$ 13.21 | \$ 126.27 | | |
| CIN20 | Construction Inspector 2 | \$ 30.00 | \$ 79.70 | \$ 15.20 | \$ 145.88 | | |
| CME02 | CADDTechnician Mechanical 2 | \$ 41.64 | \$ 65.30 | \$ 12.49 | \$ 119.43 | | |
| CME03 | CADDTechnician Mechanical 3 | \$ 53.60 | \$ 84.06 | \$ 16.08 | \$ 153.74 | | |
| CME04 | CADDTechnician Mechanical 4 | \$ 65.14 | \$ 102.16 | \$ 19.54 | \$ 186.84 | | |
| CMG10 | Construction Manager 1 | \$ 60.19 | \$ 94.40 | \$ 18.06 | \$ 172.65 | | |
| CMG20 | Construction Manager 2 | \$ 168.45 | \$ 264.18 | \$ 50.54 | \$ 483.17 | | |
| CON10 | Contract Administrator 1 | \$ 88.60 | \$ 138.95 | \$ 26.58 | \$ 254.13 | | |
| CON20 | Contract Administrator 2 | \$ 88.13 | \$ 138.21 | \$ 26.44 | \$ 252.78 | | |
| COR01 | Public Relations Mgr | \$ 97.59 | \$ 153.05 | \$ 29.28 | \$ 279.92 | | |
| COR03 | Public Relation/Prom Mkt Coord | \$ 51.76 | \$ 81.18 | \$ 15.53 | \$ 148.47 | | |
| CPR10 | Resident Project Rep 1 | \$ 48.19 | \$ 75.58 | \$ 14.46 | \$ 138.23 | | |
| CPR20 | Resident Project Rep 2 | \$ 81.42 | \$ 127.69 | \$ 24.43 | \$ 233.54 | | |
| CST01 | CADDTechnician Structural 1 | \$ 30.31 | \$ 47.54 | \$ 9.09 | \$ 86.94 | | |
| CST02 | CADDTechnician Structural 2 | \$ 46.88 | \$ 73.52 | \$ 14.06 | \$ 134.46 | | |
| CST03 | CADDTechnician Structural 3 | \$ 52.60 | \$ 82.49 | \$ 15.78 | \$ 150.87 | | |
| CST04 | CADDTechnician Structural 4 | \$ 67.44 | \$ 105.77 | \$ 20.23 | \$ 193.44 | | |
| EBR10 | EIT Bridge | \$ 40.73 | \$ 63.88 | \$ 12.22 | \$ 116.83 | | |
| EBR20 | Engineer Bridge | \$ 68.37 | \$ 107.22 | \$ 20.51 | \$ 196.10 | | |
| EBR30 | Engineer Bridge Sr | \$ 106.49 | \$ 167.01 | \$ 31.95 | \$ 305.45 | | |
| ECH10 | EIT Chemical | \$ 43.54 | \$ 68.28 | \$ 13.06 | \$ 124.88 | | |
| ECH20 | Engineer Chemical | \$ 53.88 | \$ 84.50 | \$ 16.16 | \$ 154.54 | | |
| ECH30 | Engineer Chemical Sr | \$ 66.72 | \$ 104.64 | \$ 20.02 | \$ 191.38 | | |
| ECI05 | Coordinator Civil | \$ 41.58 | \$ 65.21 | \$ 12.47 | \$ 119.26 | | |
| ECI10 | EITCoordinator Civil | \$ 42.99 | \$ 67.42 | \$ 12.90 | \$ 123.31 | | |
| ECI20 | Engineer Civil | \$ 87.21 | \$ 136.77 | \$ 26.16 | \$ 250.14 | | |
| ECI30 | Engineer Civil Sr | \$ 89.44 | \$ 140.27 | \$ 26.83 | \$ 256.54 | | |
| ECO10 | EITCoordinator Construction | \$ 48.51 | \$ 76.08 | \$ 14.55 | \$ 139.14 | | |

HDR ENGINEERING, INC.
ACTUALS NOT TO EXCEED TABLE

City of Marysville - 88th Street NE Corridor Improvement Project - State Avenue to 67th Avenue NE
Labor Categories

| Employee Classification | Overhead | | Fixed Fee/Profit | | Loaded Labor Rates | |
|-------------------------|-----------------------------------|-------------|----------------------|----------|----------------------|-------------------------------------|
| | NTE Hourly | 156.8300% X | DSC NTE Hourly | 30.0% X | DSC NTE Hourly | (Direct + OH + FF) NTE Hourly |
| ECO15 | Engineer Construction Jr | \$ 31.82 | \$ 49.90 | \$ 9.55 | \$ 91.27 | |
| ECO20 | Engineer Construction | \$ 63.09 | \$ 98.94 | \$ 18.93 | \$ 180.96 | |
| ECO30 | Engineer Construction Sr | \$ 100.18 | \$ 157.11 | \$ 30.05 | \$ 287.34 | |
| EEG10 | Environmental EIT | \$ 43.67 | \$ 68.49 | \$ 13.10 | \$ 125.26 | |
| EEG20 | Environmental Engineer | \$ 51.06 | \$ 80.08 | \$ 15.32 | \$ 146.46 | |
| EEG30 | Environmental Engineer Sr | \$ 71.98 | \$ 112.89 | \$ 21.59 | \$ 206.46 | |
| EEL10 | EIT Electrical | \$ 40.37 | \$ 63.31 | \$ 12.11 | \$ 115.79 | |
| EEL20 | Engineer Electrical | \$ 83.59 | \$ 131.09 | \$ 25.08 | \$ 239.76 | |
| EEL30 | Engineer Electrical Sr | \$ 116.48 | \$ 182.68 | \$ 34.94 | \$ 334.10 | |
| EFR10 | Fire Protection Engineer | \$ 99.67 | \$ 156.31 | \$ 29.90 | \$ 285.88 | |
| EHI10 | EIT Highway | \$ 44.57 | \$ 69.90 | \$ 13.37 | \$ 127.84 | |
| EHI20 | Engineer Highway | \$ 62.68 | \$ 98.30 | \$ 18.80 | \$ 179.78 | |
| EHI30 | Engineer Highway Sr | \$ 81.22 | \$ 127.38 | \$ 24.37 | \$ 232.97 | |
| EIN10 | EIT Instrumentation | \$ 48.48 | \$ 76.03 | \$ 14.54 | \$ 139.05 | |
| EIN20 | Engineer Instrumentation | \$ 59.25 | \$ 92.92 | \$ 17.78 | \$ 169.95 | |
| EIN30 | Engineer Instrumentation Sr | \$ 78.61 | \$ 123.28 | \$ 23.58 | \$ 225.47 | |
| EME05 | Coordinator Mechanical | \$ 50.83 | \$ 79.72 | \$ 15.25 | \$ 145.80 | |
| EME10 | EIT Mechanical | \$ 45.69 | \$ 71.66 | \$ 13.71 | \$ 131.06 | |
| EME20 | Engineer Mechanical | \$ 58.89 | \$ 92.36 | \$ 17.67 | \$ 168.92 | |
| EME30 | Engineer Mechanical Sr | \$ 152.00 | \$ 238.38 | \$ 45.60 | \$ 435.98 | |
| ERA10 | EIT Rail | \$ 42.60 | \$ 66.81 | \$ 12.78 | \$ 122.19 | |
| ERA20 | Engineer Rail | \$ 52.70 | \$ 82.65 | \$ 15.81 | \$ 151.16 | |
| ERA30 | Engineer Rail Sr | \$ 92.97 | \$ 145.80 | \$ 27.89 | \$ 266.66 | |
| ESA10 | EIT Sanitary | \$ 44.30 | \$ 69.48 | \$ 13.29 | \$ 127.07 | |
| ESA20 | Engineer Sanitary | \$ 67.36 | \$ 105.64 | \$ 20.21 | \$ 193.21 | |
| ESA30 | Engineer Sanitary Sr | \$ 102.13 | \$ 160.17 | \$ 30.64 | \$ 292.94 | |
| ESO10 | EIT Geotechnical | \$ 40.74 | \$ 63.89 | \$ 12.22 | \$ 116.85 | |
| ESO20 | Engineer Geotechnical | \$ 86.90 | \$ 136.29 | \$ 26.07 | \$ 249.26 | |
| ESO30 | Engineer Geotechnical Sr | \$ 91.48 | \$ 143.47 | \$ 27.44 | \$ 262.39 | |
| EST10 | EIT Structural | \$ 51.16 | \$ 80.23 | \$ 15.35 | \$ 146.74 | |
| EST20 | Engineer Structural | \$ 67.09 | \$ 105.22 | \$ 20.13 | \$ 192.44 | |
| EST30 | Engineer Structural Sr | \$ 101.53 | \$ 159.23 | \$ 30.46 | \$ 291.22 | |
| ETF10 | EIT Traffic | \$ 42.65 | \$ 66.89 | \$ 12.80 | \$ 122.34 | |
| ETF20 | Engineer Traffic | \$ 60.97 | \$ 95.62 | \$ 18.29 | \$ 174.88 | |
| ETF30 | Engineer Traffic Sr | \$ 90.52 | \$ 141.96 | \$ 27.16 | \$ 259.64 | |
| ETR10 | EIT Transportation | \$ 42.78 | \$ 67.09 | \$ 12.83 | \$ 122.70 | |
| ETR20 | Engineer Transportation | \$ 57.87 | \$ 90.76 | \$ 17.36 | \$ 165.99 | |
| ETR30 | Engineer Transportation Sr | \$ 67.38 | \$ 105.67 | \$ 20.21 | \$ 193.26 | |
| EWR10 | EIT Water Resources | \$ 51.33 | \$ 80.50 | \$ 15.40 | \$ 147.23 | |
| EWR20 | Engineer Water Resources | \$ 63.12 | \$ 98.99 | \$ 18.94 | \$ 181.05 | |
| EWR30 | Engineer Water Resources Sr | \$ 87.85 | \$ 137.78 | \$ 26.36 | \$ 251.99 | |
| EXE20 | Director of Development | \$ 93.78 | \$ 147.08 | \$ 28.13 | \$ 268.99 | |
| EXE30 | President | \$ 213.51 | \$ 334.85 | \$ 64.05 | \$ 612.41 | |
| FOP10 | Operations Specialist 1 | \$ 50.26 | \$ 78.82 | \$ 15.08 | \$ 144.16 | |
| FOP30 | Operations Specialist 3 | \$ 74.27 | \$ 116.48 | \$ 22.28 | \$ 213.03 | |
| GRA01 | Graphic Artist 1 | \$ 35.44 | \$ 55.58 | \$ 10.63 | \$ 101.65 | |
| GRA02 | Graphic Artist 2 | \$ 49.33 | \$ 77.36 | \$ 14.80 | \$ 141.49 | |
| GRA03 | Graphic Artist 3 | \$ 57.85 | \$ 90.73 | \$ 17.36 | \$ 165.94 | |
| HR01 | Human Resources Specialist | \$ 41.03 | \$ 64.35 | \$ 12.31 | \$ 117.69 | |
| HR02 | Human Resources Specialist Sr | \$ 73.71 | \$ 115.60 | \$ 22.11 | \$ 211.42 | |
| INT01 | Intern Administrative | \$ 20.49 | \$ 32.13 | \$ 6.15 | \$ 58.77 | |
| INT02 | Intern Architectural | \$ 21.04 | \$ 33.00 | \$ 6.31 | \$ 60.35 | |
| INT04 | Intern Engineering | \$ 22.81 | \$ 35.77 | \$ 6.84 | \$ 65.42 | |
| LAR10 | Landscape Architectural Coord | \$ 39.78 | \$ 62.39 | \$ 11.93 | \$ 114.10 | |
| LAR20 | Landscape Architect | \$ 47.21 | \$ 74.04 | \$ 14.16 | \$ 135.41 | |
| LAR30 | Landscape Architect Sr | \$ 71.09 | \$ 111.49 | \$ 21.33 | \$ 203.91 | |
| LEG01 | Attorney | \$ 90.93 | \$ 142.61 | \$ 27.28 | \$ 260.82 | |
| MGC10 | Economist 1 | \$ 46.41 | \$ 72.78 | \$ 13.92 | \$ 133.11 | |
| MGC11 | Economist 2 | \$ 79.92 | \$ 125.34 | \$ 23.98 | \$ 229.24 | |
| MGC12 | Economist 3 | \$ 130.90 | \$ 205.29 | \$ 39.27 | \$ 375.46 | |
| MGC20 | Management Analyst | \$ 55.25 | \$ 86.65 | \$ 16.58 | \$ 158.48 | |
| MGC30 | Management Consultant | \$ 114.40 | \$ 179.41 | \$ 34.32 | \$ 328.13 | |
| MGC40 | Management Consultant Sr | \$ 185.38 | \$ 290.73 | \$ 55.61 | \$ 531.72 | |
| MGT10 | Section Manager/Team Leader | \$ 127.15 | \$ 199.41 | \$ 38.15 | \$ 364.71 | |
| MGT11 | Area Manager | \$ 135.77 | \$ 212.93 | \$ 40.73 | \$ 389.43 | |
| MGT12 | Regional Director | \$ 93.18 | \$ 146.13 | \$ 27.95 | \$ 267.26 | |
| MGT20 | National Technical Director | \$ 127.79 | \$ 200.41 | \$ 38.34 | \$ 366.54 | |
| MGT21 | Director of Engineer | \$ 171.27 | \$ 268.60 | \$ 51.38 | \$ 491.25 | |
| MGT22 | Dir of Bus Class Client Develop | \$ 136.88 | \$ 214.67 | \$ 41.06 | \$ 392.61 | |
| MGT23 | Director of Professional Services | \$ 140.57 | \$ 220.46 | \$ 42.17 | \$ 403.20 | |
| MGT24 | Program Management Director | \$ 120.88 | \$ 189.58 | \$ 36.26 | \$ 346.72 | |
| MGT25 | Director of Client Development | \$ 130.63 | \$ 204.87 | \$ 39.19 | \$ 374.69 | |
| MGT27 | Regional Quality Director | \$ 65.61 | \$ 102.90 | \$ 19.68 | \$ 188.19 | |

HDR ENGINEERING, INC.
ACTUALS NOT TO EXCEED TABLE

City of Marysville - 88th Street NE Corridor Improvement Project - State Avenue to 67th Avenue NE
Labor Categories

| Employee Classification | NTE Hourly | Overhead | | Fixed Fee/Profit | | Loaded Labor Rates (Direct + OH + FF) | |
|-------------------------|--------------------------------|----------------|----------------------|------------------|----------------------|--|--|
| | | 156.8300% X | DSC NTE Hourly | 30.0% X | DSC NTE Hourly | NTE Hourly | |
| MGT28 | QA/QC Program Director | \$ 74.85 | \$ 117.39 | | \$ 22.46 | \$ 214.70 | |
| MGT30 | Office Manager | \$ 91.71 | \$ 143.83 | | \$ 27.51 | \$ 263.05 | |
| MGT35 | BusUnit Asst Mng Principal | \$ 129.51 | \$ 203.11 | | \$ 38.85 | \$ 371.47 | |
| MGT40 | Bus Unit MgrManaging Prin | \$ 169.79 | \$ 266.28 | | \$ 50.94 | \$ 487.01 | |
| MGT42 | Area Business Class Leader | \$ 115.29 | \$ 180.81 | | \$ 34.59 | \$ 330.69 | |
| MGT44 | Regional Business Class Leader | \$ 103.82 | \$ 162.82 | | \$ 31.15 | \$ 297.79 | |
| MGT46 | Business Class Director | \$ 147.99 | \$ 232.09 | | \$ 44.40 | \$ 424.48 | |
| MGT47 | Business Group Leader | \$ 139.38 | \$ 218.59 | | \$ 41.81 | \$ 399.78 | |
| MGT48 | Market Sector Director | \$ 147.00 | \$ 230.54 | | \$ 44.10 | \$ 421.64 | |
| MGT50 | Senior Operations Manager | \$ 153.32 | \$ 240.45 | | \$ 46.00 | \$ 439.77 | |
| MGT52 | Business Group Directors | \$ 169.79 | \$ 266.28 | | \$ 50.94 | \$ 487.01 | |
| MGT53 | Director of Operations | \$ 169.79 | \$ 266.28 | | \$ 50.94 | \$ 487.01 | |
| MGT62 | Area Business Group Director | \$ 125.40 | \$ 196.66 | | \$ 37.62 | \$ 359.68 | |
| MGT64 | Regional Bus Group Director | \$ 144.53 | \$ 226.67 | | \$ 43.36 | \$ 414.56 | |
| MGT66 | National Bus Group Director | \$ 136.78 | \$ 214.51 | | \$ 41.03 | \$ 392.32 | |
| MGT70 | Director of International | \$ 151.12 | \$ 237.00 | | \$ 45.34 | \$ 433.46 | |
| MKT01 | Marketing Coordinator | \$ 59.60 | \$ 93.47 | | \$ 17.88 | \$ 170.95 | |
| MKT02 | Marketing Coordinator Sr | \$ 58.41 | \$ 91.60 | | \$ 17.52 | \$ 167.53 | |
| MKT03 | Pursuit Manager | \$ 92.74 | \$ 145.44 | | \$ 27.82 | \$ 266.00 | |
| MKT04 | Senior Pursuit Manager | \$ 118.11 | \$ 185.23 | | \$ 35.43 | \$ 338.77 | |
| MKT05 | Sector Pursuits Coordinator | \$ 45.83 | \$ 71.88 | | \$ 13.75 | \$ 131.46 | |
| MKT10 | Marketing Services Manager | \$ 81.59 | \$ 127.96 | | \$ 24.48 | \$ 234.03 | |
| MKT20 | Marketing Manager Asst | \$ 72.63 | \$ 113.91 | | \$ 21.79 | \$ 208.33 | |
| MKT21 | Marketing Manager | \$ 107.80 | \$ 169.06 | | \$ 32.34 | \$ 309.20 | |
| MKT22 | Senior Marketing Manager | \$ 107.32 | \$ 168.31 | | \$ 32.20 | \$ 307.83 | |
| MKT23 | Area Marketing Manager | \$ 128.91 | \$ 202.17 | | \$ 38.67 | \$ 369.75 | |
| MKT30 | Mktg ManagerMktg PrincipalSr | \$ 141.10 | \$ 221.29 | | \$ 42.33 | \$ 404.72 | |
| PJM01 | Project Controller | \$ 69.32 | \$ 108.71 | | \$ 20.80 | \$ 198.83 | |
| PJM10 | Project Manager Architect Asst | \$ 61.70 | \$ 96.76 | | \$ 18.51 | \$ 176.97 | |
| PJM11 | Project Manager Architect | \$ 56.09 | \$ 87.97 | | \$ 16.83 | \$ 160.89 | |
| PJM12 | Project Manager Engineer Asst | \$ 74.54 | \$ 116.90 | | \$ 22.36 | \$ 213.80 | |
| PJM13 | Project Manager Engineer | \$ 72.81 | \$ 114.19 | | \$ 21.84 | \$ 208.84 | |
| PJM14 | Project Manager General Asst | \$ 99.05 | \$ 155.34 | | \$ 29.72 | \$ 284.11 | |
| PJM15 | Project Manager General | \$ 86.90 | \$ 136.29 | | \$ 26.07 | \$ 249.26 | |
| PJM20 | Project Manager Architect Sr | \$ 87.87 | \$ 137.81 | | \$ 26.36 | \$ 252.04 | |
| PJM21 | Project Manager Engineer Sr | \$ 96.99 | \$ 152.11 | | \$ 29.10 | \$ 278.20 | |
| PJM22 | Project Manager General Sr | \$ 122.07 | \$ 191.44 | | \$ 36.62 | \$ 350.13 | |
| PJM30 | Project Principal Architect | \$ 119.79 | \$ 187.87 | | \$ 35.94 | \$ 343.60 | |
| PJM32 | Project Principal Engineer | \$ 129.54 | \$ 203.16 | | \$ 38.86 | \$ 371.56 | |
| PJM33 | Project Principal General | \$ 146.30 | \$ 229.44 | | \$ 43.89 | \$ 419.63 | |
| PLE01 | Environmental Planner 1 | \$ 39.18 | \$ 61.45 | | \$ 11.75 | \$ 112.38 | |
| PLE02 | Environmental Planner 2 | \$ 68.47 | \$ 107.38 | | \$ 20.54 | \$ 196.39 | |
| PLE03 | Environmental Planner 3 | \$ 70.49 | \$ 110.55 | | \$ 21.15 | \$ 202.19 | |
| PLN01 | Planner 1 | \$ 43.98 | \$ 68.97 | | \$ 13.19 | \$ 126.14 | |
| PLN02 | Planner 2 | \$ 58.69 | \$ 92.04 | | \$ 17.61 | \$ 168.34 | |
| PLN03 | Planner 3 | \$ 76.41 | \$ 119.83 | | \$ 22.92 | \$ 219.16 | |
| PLT01 | Transportation Planner 1 | \$ 39.68 | \$ 62.23 | | \$ 11.90 | \$ 113.81 | |
| PLT02 | Transportation Planner 2 | \$ 81.51 | \$ 127.83 | | \$ 24.45 | \$ 233.79 | |
| PLT03 | Transportation Planner 3 | \$ 107.47 | \$ 168.55 | | \$ 32.24 | \$ 308.26 | |
| PLU02 | Land Use Planner 2 | \$ 51.61 | \$ 80.94 | | \$ 15.48 | \$ 148.03 | |
| PLU03 | Land Use Planner 3 | \$ 58.97 | \$ 92.48 | | \$ 17.69 | \$ 169.14 | |
| PMG02 | Program Manager | \$ 137.10 | \$ 215.01 | | \$ 41.13 | \$ 393.24 | |
| PMG03 | Sr. Program Manager/Client Mgr | \$ 112.37 | \$ 176.23 | | \$ 33.71 | \$ 322.31 | |
| PMG10 | ROW Specialist | \$ 73.26 | \$ 114.89 | | \$ 21.98 | \$ 210.13 | |
| PMG20 | Realty Specialist | \$ 54.54 | \$ 85.54 | | \$ 16.36 | \$ 156.44 | |
| QCR10 | Quality Control Reviewer | \$ 98.44 | \$ 154.38 | | \$ 29.53 | \$ 282.35 | |
| QTE10 | Technical Editor | \$ 47.61 | \$ 74.67 | | \$ 14.28 | \$ 136.56 | |
| RES20 | RES Technician 1 | \$ 24.81 | \$ 38.91 | | \$ 7.44 | \$ 71.16 | |
| RES22 | RES Technician 2 | \$ 36.25 | \$ 56.85 | | \$ 10.88 | \$ 103.98 | |
| RES25 | RES Technician 3 | \$ 43.66 | \$ 68.47 | | \$ 13.10 | \$ 125.23 | |
| RES40 | RES Agent 1 | \$ 36.91 | \$ 57.89 | | \$ 11.07 | \$ 105.87 | |
| RES42 | RES Agent 2 | \$ 47.62 | \$ 74.68 | | \$ 14.29 | \$ 136.59 | |
| RES45 | RES Agent 3 | \$ 55.42 | \$ 86.92 | | \$ 16.63 | \$ 158.97 | |
| RES62 | RES Appraiser 2 | \$ 52.51 | \$ 82.35 | | \$ 15.75 | \$ 150.61 | |
| RSK30 | Risk Management Consultant | \$ 108.90 | \$ 170.79 | | \$ 32.67 | \$ 312.36 | |
| SAF10 | Safety and Health Specialist 1 | \$ 44.30 | \$ 69.48 | | \$ 13.29 | \$ 127.07 | |
| SAF20 | Safety and Health Specialist 2 | \$ 102.13 | \$ 160.17 | | \$ 30.64 | \$ 292.94 | |
| SAQ10 | Air Quality Specialist 1 | \$ 26.62 | \$ 41.75 | | \$ 7.99 | \$ 76.36 | |
| SAQ20 | Air Quality Specialist 2 | \$ 65.82 | \$ 103.23 | | \$ 19.75 | \$ 188.80 | |
| SAQ30 | Air Quality Specialist 3 | \$ 83.88 | \$ 131.55 | | \$ 25.16 | \$ 240.59 | |
| SBI10 | Biologist 1 | \$ 39.36 | \$ 61.73 | | \$ 11.81 | \$ 112.90 | |
| SBI20 | Biologist 2 | \$ 53.32 | \$ 83.62 | | \$ 16.00 | \$ 152.94 | |
| SBI30 | Biologist 3 | \$ 69.81 | \$ 109.48 | | \$ 20.94 | \$ 200.23 | |

HDR ENGINEERING, INC.
ACTUALS NOT TO EXCEED TABLE

City of Marysville - 88th Street NE Corridor Improvement Project - State Avenue to 67th Avenue NE
Labor Categories

| Employee Classification | Overhead | | Fixed Fee/Profit | | Loaded Labor Rates | |
|-------------------------|-------------------------------|-------------|----------------------|----------|----------------------|-------------------------------------|
| | NTE Hourly | 156.8300% X | DSC NTE Hourly | 30.0% X | DSC NTE Hourly | (Direct + OH + FF) NTE Hourly |
| SCH10 | Scheduler | \$ 82.45 | \$ 129.31 | \$ 24.74 | \$ 236.50 | |
| SCH20 | Scheduler Sr | \$ 127.11 | \$ 199.35 | \$ 38.13 | \$ 364.59 | |
| SCU10 | CulturalResourceSpecialist 1 | \$ 34.22 | \$ 53.67 | \$ 10.27 | \$ 98.16 | |
| SCU20 | CulturalResourceSpecialist 2 | \$ 50.94 | \$ 79.89 | \$ 15.28 | \$ 146.11 | |
| SCU30 | CulturalResourceSpecialist 3 | \$ 52.61 | \$ 82.51 | \$ 15.78 | \$ 150.90 | |
| SEA02 | Security Analyst 2 | \$ 65.73 | \$ 103.08 | \$ 19.72 | \$ 188.53 | |
| SEC20 | Ecologist 2 | \$ 38.97 | \$ 61.12 | \$ 11.69 | \$ 111.78 | |
| SEC30 | Ecologist 3 | \$ 58.75 | \$ 92.14 | \$ 17.63 | \$ 168.52 | |
| SEN10 | Environmental Scientist 1 | \$ 36.80 | \$ 57.71 | \$ 11.04 | \$ 105.55 | |
| SEN20 | Environmental Scientist 2 | \$ 54.36 | \$ 85.25 | \$ 16.31 | \$ 155.92 | |
| SEN30 | Environmental Scientist 3 | \$ 73.08 | \$ 114.61 | \$ 21.92 | \$ 209.61 | |
| SGA10 | GIS Analyst | \$ 42.60 | \$ 66.81 | \$ 12.78 | \$ 122.19 | |
| SGA30 | Senior GIS Analyst | \$ 49.34 | \$ 77.38 | \$ 14.80 | \$ 141.52 | |
| SGE10 | Geologist 1 | \$ 39.03 | \$ 61.21 | \$ 11.71 | \$ 111.95 | |
| SGE20 | Geologist 2 | \$ 54.30 | \$ 85.16 | \$ 16.29 | \$ 155.75 | |
| SGE30 | Geologist 3 | \$ 69.53 | \$ 109.04 | \$ 20.86 | \$ 199.43 | |
| SGM01 | GIS Manager | \$ 54.11 | \$ 84.86 | \$ 16.23 | \$ 155.20 | |
| SGM02 | Senior GIS Manager | \$ 67.90 | \$ 106.49 | \$ 20.37 | \$ 194.76 | |
| SGP10 | GIS Programmer | \$ 42.39 | \$ 66.48 | \$ 12.72 | \$ 121.59 | |
| SGP30 | Senior GIS Programmer | \$ 72.73 | \$ 114.06 | \$ 21.82 | \$ 208.61 | |
| SGS10 | GIS Technician | \$ 28.79 | \$ 45.15 | \$ 8.64 | \$ 82.58 | |
| SGS30 | Senior GIS Technician | \$ 29.82 | \$ 46.77 | \$ 8.95 | \$ 85.54 | |
| SHW10 | Hazardous Waste Specialist 1 | \$ 32.68 | \$ 51.25 | \$ 9.80 | \$ 93.73 | |
| SHW20 | Hazardous Waste Specialist 2 | \$ 65.69 | \$ 103.02 | \$ 19.71 | \$ 188.42 | |
| SHW30 | Hazardous Waste Specialist 3 | \$ 73.44 | \$ 115.18 | \$ 22.03 | \$ 210.65 | |
| SHY20 | Hydrologist 2 | \$ 56.44 | \$ 88.51 | \$ 16.93 | \$ 161.88 | |
| SHY30 | Hydrologist 3 | \$ 83.06 | \$ 130.26 | \$ 24.92 | \$ 238.24 | |
| SNO10 | Noise Specialist 1 | \$ 35.13 | \$ 55.09 | \$ 10.54 | \$ 100.76 | |
| SNO20 | Noise Specialist 2 | \$ 51.59 | \$ 80.91 | \$ 15.48 | \$ 147.98 | |
| SNO30 | Noise Specialist 3 | \$ 56.31 | \$ 88.31 | \$ 16.89 | \$ 161.51 | |
| SPC20 | Specification Specialist 2 | \$ 90.49 | \$ 141.92 | \$ 27.15 | \$ 259.56 | |
| SUR01 | Survey Technician 1 | \$ 21.74 | \$ 34.09 | \$ 6.52 | \$ 62.35 | |
| SUR02 | Survey Technician 2 | \$ 34.81 | \$ 54.59 | \$ 10.44 | \$ 99.84 | |
| SUR03 | Survey Technician 3 | \$ 47.91 | \$ 75.14 | \$ 14.37 | \$ 137.42 | |
| SUR04 | Land Surveyor | \$ 67.89 | \$ 106.47 | \$ 20.37 | \$ 194.73 | |
| SUS20 | Sustainable Des Project Mgr | \$ 42.07 | \$ 65.98 | \$ 12.62 | \$ 120.67 | |
| SUS30 | Sustainable Design Consultant | \$ 36.62 | \$ 57.43 | \$ 10.99 | \$ 105.04 | |
| SWE30 | Wetland Specialist 3 | \$ 60.12 | \$ 94.29 | \$ 18.04 | \$ 172.45 | |
| SYS01 | Programmer | \$ 44.30 | \$ 69.48 | \$ 13.29 | \$ 127.07 | |
| SYS03 | Systems Analyst | \$ 49.43 | \$ 77.52 | \$ 14.83 | \$ 141.78 | |
| SYS04 | Systems Analyst Sr | \$ 55.92 | \$ 87.70 | \$ 16.78 | \$ 160.40 | |
| SYS11 | Data Base Administrator | \$ 60.91 | \$ 95.53 | \$ 18.27 | \$ 174.71 | |
| SYS21 | Systems Administrator | \$ 47.40 | \$ 74.34 | \$ 14.22 | \$ 135.96 | |
| SYS22 | Systems Administrator Sr | \$ 63.22 | \$ 99.15 | \$ 18.97 | \$ 181.34 | |
| SYS45 | IT Support Specialist | \$ 29.18 | \$ 45.76 | \$ 8.75 | \$ 83.69 | |
| SYS46 | Sr. IT Support Specialist | \$ 37.33 | \$ 58.54 | \$ 11.20 | \$ 107.07 | |
| SYS64 | Director - IT Bus Srv Mgmt | \$ 110.75 | \$ 173.69 | \$ 33.23 | \$ 317.67 | |
| SYS65 | Application Manager | \$ 57.68 | \$ 90.46 | \$ 17.30 | \$ 165.44 | |
| SYS70 | Systems Consultant | \$ 80.73 | \$ 126.61 | \$ 24.22 | \$ 231.56 | |
| SYS85 | IT Support Manager | \$ 57.60 | \$ 90.33 | \$ 17.28 | \$ 165.21 | |
| SYS86 | IT Area Support Manager | \$ 83.82 | \$ 131.45 | \$ 25.15 | \$ 240.42 | |
| TEC01 | Technician General 1 | \$ 36.67 | \$ 57.51 | \$ 11.00 | \$ 105.18 | |
| TEC02 | Technician General 2 | \$ 39.17 | \$ 61.43 | \$ 11.75 | \$ 112.35 | |
| TEC03 | Technician General 3 | \$ 53.61 | \$ 84.08 | \$ 16.08 | \$ 153.77 | |
| TEC04 | Technician General 4 | \$ 57.59 | \$ 90.32 | \$ 17.28 | \$ 165.19 | |
| VIS10 | Visual Coordinator | \$ 34.22 | \$ 53.67 | \$ 10.27 | \$ 98.16 | |
| VIS20 | Visual Designer | \$ 45.18 | \$ 70.86 | \$ 13.55 | \$ 129.59 | |
| VIS30 | Sr Visual Designer | \$ 46.62 | \$ 73.11 | \$ 13.99 | \$ 133.72 | |
| VIS40 | Visual Manager | \$ 55.87 | \$ 87.62 | \$ 16.76 | \$ 160.25 | |



Transportation Building
310 Maple Park Avenue S.E.
P.O. Box 47300
Olympia, WA 98504-7300
360-705-7000
TTY: 1-800-833-6388
www.wsdot.wa.gov

June 27, 2017

HDR Engineering, Inc.
8404 Indian Hills Drive
Omaha, NE 68114

Subject: Acceptance FYE 2016 ICR – Cognizant Review

Dear Mr. Joe Cox:

We have accepted your firms FYE 2016 Indirect Cost Rate (ICR) of 157.63% of direct labor for contracts in effect prior to June 24, 2014 (rate includes 0.35% Facilities Capital Cost of Money) and 156.83% for contracts awarded on or after June 24, 2014 (rate includes 0.35% Facilities Capital Cost of Money) based on the “Cognizant Review” from The Nebraska Department of Roads (NDOR). This rate will be applicable for WSDOT Agreements and Local Agency Contracts in Washington only. This rate may be subject to additional review if considered necessary by WSDOT. Your ICR must be updated on an annual basis.

Costs billed to agreements/contracts will still be subject to audit of actual costs, based on the terms and conditions of the respective agreement/contract.

Any other entity contracting with your firm is responsible for determining the acceptability of the ICR.

If you have any questions, feel free to contact our office at (360) 705-7019 or via email consultantrates@wsdot.wa.gov.

Regards;

A handwritten signature in blue ink, appearing to read 'Erik K. Jonson', with the word 'For' written below it.

ERIK K. JONSON
Manager, Consultant Services Office

EKJ:kms



Pete Ricketts
Governor

STATE OF NEBRASKA

DEPARTMENT OF ROADS

Kyle Schneeweis, P.E., Director

1500 Highway 2 • PO Box 94759 • Lincoln NE 68509-4759

Phone (402) 471-4567 • FAX (402) 479-4325 • www.roads.nebraska.gov

June 26, 2017

Report No. 2017-116

HDR Engineering, Inc. and Subsidiaries
8404 Indian Hills Drive
Omaha, NE 68114

Quint English, Company Controller:

Subject: Review of FYE December 31, 2016 Indirect Cost Rate Audit performed by Ernst & Young, LLP.

We have completed a cognizant review of the independent Certified Public Accountant (CPA) audit and supporting work papers of the Indirect Cost Rates of HDR Engineering, Inc. and Subsidiaries for the year ended December 31, 2016. This review was conducted in accordance with our role as Cognizant Agency as defined in 23 U.S.C. 112(b)(2)(c) and 23 CFR 172.3 and 172.7.

Our review consisted of discussions with HDR officials and a review of Ernst & Young LLP's (E-Y) audit report and audit working papers to ensure that the indirect cost rate was calculated in accordance with Government Auditing Standards, and that the schedule of indirect costs was prepared in accordance with accounting practices prescribed in 48 CFR Part 31 of the Federal Acquisition Regulations. Our cognizant review was performed in accordance with the AASHTO Review Program for CPA Audits of Consulting Engineers' Indirect Cost Rates.

A new applicable benchmark compensation cap was established by the Bipartisan Budget Act of 2013 (BBA) that set executive compensation at \$487,000, applicable for contracts awarded on or after June 24, 2014. As a result HDR submitted a dual rate for 2016, one rate for work performed on contracts signed before 6/24/14 and a second rate for work performed on contracts signed on or after 6/24/14. With regards to the balance of the results of the E-Y audit, nothing came to our attention that caused us to believe that the examination and supporting workpapers for the Indirect Cost Rates and the related Accountant's Report we reviewed did not conform in all material respects to the aforementioned regulations and auditing standards.

NDOR, in consultation with HDR, made mutually agreed-upon adjustments to the submitted overhead costs. These adjustments are identified in the enclosed overhead rate schedule.

Accordingly, we recommend acceptance of the following rates:

Contracts signed before 6/24/14

| | |
|----------------------------------|---------|
| Combined Indirect Cost Rate | 157.28% |
| Facilities Capital Cost of Money | .3537% |

Contracts signed on or after 6/24/14

| | |
|----------------------------------|---------|
| Combined Indirect Cost Rate | 156.48% |
| Facilities Capital Cost of Money | .3537% |

The accepted overhead rate schedules have been included with this letter.

Tim Baker, CICA
Audit Supervisor

HDR ENGINEERING, INC. AND SUBSIDIARIES
STATEMENT OF DIRECT LABOR, FRINGE BENEFITS AND GENERAL OVERHEAD
FOR THE YEAR ENDED DECEMBER 31, 2016

| | As Proposed by Consultant: Pre 6/24/14 | | | | | As Proposed by Consultant: Post 6/24/14 | | | | Notes |
|--------------------------------|--|------------------|-----------------------|-------------|-----------------------|---|-----------------------|-------------|-----------------------|---------|
| | Final | Unallowable | Allowable | NDOR Adj | NDOR Allow. | Unallowable | Allowable | NDOR Adj | NDOR Allow. | |
| DIRECT LABOR | \$ 383,588,118 | \$ - | \$ 383,588,118 | \$ - | \$ 383,588,118 | \$ - | \$ 383,588,118 | \$ - | \$ 383,588,118 | |
| FRINGE BENEFITS: | | | | | | | | | | |
| Vacation | \$ 50,677,779 | \$ - | \$ 50,677,779 | \$ - | \$ 50,677,779 | \$ - | \$ 50,677,779 | \$ - | \$ 50,677,779 | |
| Holiday | 18,414,583 | - | 18,414,583 | - | 18,414,583 | - | 18,414,583 | - | 18,414,583 | |
| Sick Leave | 350,998 | - | 350,998 | - | 350,998 | - | 350,998 | - | 350,998 | |
| Payroll Taxes | 46,092,240 | - | 46,092,240 | - | 46,092,240 | - | 46,092,240 | - | 46,092,240 | |
| Group Insurance | 49,383,899 | - | 49,383,899 | - | 49,383,899 | - | 49,383,899 | - | 49,383,899 | |
| Retirement Benefits | 28,612,762 | 11,879 | 28,624,641 | - | 28,624,641 | - | 28,624,641 | - | 28,624,641 | 1 |
| Total Fringe Benefits | \$ 193,532,261 | \$ 11,879 | \$ 193,544,140 | \$ - | \$ 193,544,140 | \$ - | \$ 193,544,140 | \$ - | \$ 193,544,140 | |
| GENERAL OVERHEAD: | | | | | | | | | | |
| Indirect labor: | | | | | | | | | | |
| General | \$ 153,726,627 | \$ (3,870,995) | \$ 149,855,632 | \$ (65,348) | 149,790,284 | \$ (2,174,160) | \$ 147,616,124 | (33,230) | \$ 147,582,894 | 2, A, D |
| Marketing | 47,999,949 | (117,220) | 47,882,729 | - | 47,882,729 | - | 47,882,729 | - | 47,882,729 | 3 |
| Travel and expenses - general | 7,762,478 | (693,222) | 7,069,256 | - | 7,069,256 | - | 7,069,256 | - | 7,069,256 | 4 |
| Employees' expenses | 10,633,780 | (2,990,566) | 7,643,214 | - | 7,643,214 | - | 7,643,214 | - | 7,643,214 | 5 |
| Supplies | 121,419 | - | 121,419 | - | 121,419 | - | 121,419 | - | 121,419 | |
| Building rental and expenses - | 50,121,621 | 1,338,372 | 51,459,993 | - | 51,459,993 | - | 51,459,993 | - | 51,459,993 | 6 |
| Taxes - general | 4,843,356 | (116,842) | 4,726,514 | (400,053) | 4,326,461 | - | 4,326,461 | - | 4,326,461 | 7, B |
| Computer expense | 65,854,280 | - | 65,854,280 | - | 65,854,280 | - | 65,854,280 | - | 65,854,280 | |
| Depreciation and amortization | 7,373,121 | (1,327,664) | 6,045,457 | - | 6,045,457 | - | 6,045,457 | - | 6,045,457 | 8 |
| Postage | 1,038,595 | - | 1,038,595 | - | 1,038,595 | - | 1,038,595 | - | 1,038,595 | |
| Telephone | 3,394,924 | 1,967 | 3,396,891 | - | 3,396,891 | - | 3,396,891 | - | 3,396,891 | 9 |
| Subscriptions | 167,360 | - | 167,360 | - | 167,360 | - | 167,360 | - | 167,360 | |
| Donations | 1,939,372 | (1,939,372) | - | - | - | - | - | - | - | 10 |
| Insurance and self-insurance | 12,220,188 | (1,295,040) | 10,925,148 | - | 10,925,148 | - | 10,925,148 | - | 10,925,148 | 11 |
| Bad debts | 374,030 | (374,030) | - | - | - | - | - | - | - | 12 |
| Office expenses | 2,082,911 | - | 2,082,911 | - | 2,082,911 | - | 2,082,911 | - | 2,082,911 | |
| Printing | 764,325 | - | 764,325 | - | 764,325 | - | 764,325 | - | 764,325 | |

HDR ENGINEERING, INC. AND SUBSIDIARIES
STATEMENT OF DIRECT LABOR, FRINGE BENEFITS AND GENERAL OVERHEAD
FOR THE YEAR ENDED DECEMBER 31, 2016

| | As Proposed by Consultant: Pre 6/24/14 | | | | | As Proposed by Consultant: Post 6/24/14 | | | | Notes |
|---|--|------------------------|-----------------------|---------------------|-----------------------|---|-----------------------|--------------------|-----------------------|----------|
| | Final | Unallowable | Allowable | NDOR Adj | NDOR Allow. | Unallowable | Allowable | NDOR Adj | NDOR Allow. | |
| GENERAL OVERHEAD (continued): | | | | | | | | | | |
| Marketing | 4,056,841 | (4,254,533) | (197,692) | - | (197,692) | - | (197,692) | - | (197,692) | 13 |
| Intercompany overhead | (1,707,059) | - | (1,707,059) | - | (1,707,059) | - | (1,707,059) | - | (1,707,059) | |
| Administrative costs | 11,983,912 | (1,996,323) | 9,987,589 | - | 9,987,589 | - | 9,987,589 | - | 9,987,589 | 14 |
| Temporary Help | 1,167,220 | - | 1,167,220 | - | 1,167,220 | - | 1,167,220 | - | 1,167,220 | |
| Goodwill | 10,197,719 | (10,197,719) | - | - | - | - | - | - | - | 8 |
| Interest - net | 1,741,580 | (1,741,580) | - | - | - | - | - | - | - | 15 |
| Autos | 1,644,315 | (65,232) | 1,579,083 | - | 1,579,083 | - | 1,579,083 | - | 1,579,083 | 16 |
| Professional services | 1,746,700 | (499,184) | 1,247,516 | - | 1,247,516 | - | 1,247,516 | - | 1,247,516 | 17 |
| Miscellaneous | 2,085,742 | (624,417) | 1,461,325 | - | 1,461,325 | - | 1,461,325 | - | 1,461,325 | 18 |
| Allocated expenses | 55,421,294 | (17,593,964) | 37,827,330 | (176,847) | 37,650,483 | (847,390) | 36,803,093 | (12,044) | 36,791,049 | 19, C, D |
| Total general overhead | <u>\$ 458,756,600</u> | <u>\$ (48,357,564)</u> | <u>\$ 410,399,036</u> | <u>\$ (642,248)</u> | <u>\$ 409,756,788</u> | <u>\$ (3,021,550)</u> | <u>\$ 406,735,238</u> | <u>\$ (45,274)</u> | <u>\$ 406,689,964</u> | |
| GENERAL OVERHEAD | <u>\$ 652,288,861</u> | <u>\$ (48,345,685)</u> | <u>\$ 603,943,176</u> | <u>\$ (642,248)</u> | <u>\$ 603,300,928</u> | <u>\$ (3,021,550)</u> | <u>\$ 600,279,378</u> | <u>\$ (45,274)</u> | <u>\$ 600,234,104</u> | |
| GENERAL OVERHEAD RATE | | | <u>157.45%</u> | | <u>157.28%</u> | | <u>156.49%</u> | | <u>156.48%</u> | |
| Facilities Capital Cost of Money (FCCM) Rate | | | | | <u>0.3537%</u> | | | | <u>0.3537%</u> | |

HDR FAR References:

- 1 **31.205-6(j)** – Allowable pension cost is limited to the net contribution required to be made for a cost accounting period after taking into account dividends and other credits, where applicable. The amount related to the distribution in excess of expense is added back to the pool.
- 2 **31.201-6(a)** – Labor associated with unallowable activities and a related percentage of fringe benefits is unallowable.
31.205-6(e)(2) – Differential allowances for additional income taxes resulting from domestic assignments are unallowable.
31.205-6(p) – Compensation paid to senior executives in excess of allowable limits is unallowable. Associated fringe benefits were not disallowed for compensation paid to executives in excess of allowable limits because the labor was not associated with unallowable activities but simply exceeding benchmarks.
31.205-8 – Contributions and donations are unallowable including labor and a related percentage of fringe benefits.
31.205-14 – Costs of entertainment are unallowable.
- 3 **31.205-1(t)(1)** – A portion of public relations and advertising costs is unallowable.
- 4 **31.201-6(a)** – When an unallowable cost is incurred, its directly associated costs are also unallowable.
31.205-14 – Costs of entertainment are unallowable.
31.205-46 – Meals and lodging costs in excess of federal per diem rates are unallowable.
31.205-51 – Costs of alcoholic beverages are unallowable.

HDR ENGINEERING, INC. AND SUBSIDIARIES
STATEMENT OF DIRECT LABOR, FRINGE BENEFITS AND GENERAL OVERHEAD
FOR THE YEAR ENDED DECEMBER 31, 2016

HDR FAR References continued:

- 5 31.205-1(t)(1) – A portion of public relations and advertising costs is unallowable.
31.205-1(t)(7) – Costs of memberships in civic and community organizations are not allowable.
31.205-8 – Contributions and donations are unallowable.
31.205-14 – Costs of entertainment are unallowable.
31.205-22 – Lobbying and political activities are unallowable.
31.205-27(a) – Costs of organization or reorganization are unallowable.
31.205-35 – Certain expenditures in connection with relocation costs are unallowable.
31.205-51 – Costs of alcoholic beverages are unallowable.
- 6 31.203(g) – Adjustment for over-expensed rent deposits from prior years.
- 7 31.205-41(b)(7) – A portion of state income tax that is deferred, whether an expense or benefit, and not a current tax expense is unallowable.
- 8 31.205-49 – Amortization of acquisition intangibles and goodwill is unallowable.
- 9 31.201-6(a) – When an unallowable cost is incurred, its directly associated costs are also unallowable.
31.205-1(t)(1) – A portion of public relations and advertising costs is unallowable.
- 10 31.205-8 – Contributions and donations are unallowable.
- 11 31.205-19, 47(t)(6) – Insurance and self-insurance adjustment, partially offset by costs defending patent infringement suits which are unallowable.
- 12 31.205-3 – Bad debts are unallowable.
- 13 31.205-1(t)(1) – A portion of public relations and advertising costs is unallowable.
31.205-1(t)(7) – Costs of memberships in civic and community organizations are not allowable.
31.205-8 – Contributions and donations are unallowable.
31.205-14 – Costs of entertainment are unallowable.
31.205-22 – Costs of entertainment are unallowable.
31.205-46 – Meals and lodging costs in excess of federal per diem rates are unallowable.
31.205-51 – Costs of alcoholic beverages are unallowable.
- 14 31.205-1(f)(1) – A portion of public relations and advertising costs is unallowable.
31.205-1(f)(7) – Costs of memberships in civic and community organizations are not allowable.
31.205-8 – Contributions and donations are unallowable.
31.205-14 – Costs of entertainment are unallowable.
31.205-22 – Costs of entertainment are unallowable.
31.205-27 – Expenditures in connection with acquisition costs are unallowable.
31.205-46 – Meals and lodging costs in excess of federal per diem rates are unallowable.

**HDR ENGINEERING, INC. AND SUBSIDIARIES
STATEMENT OF DIRECT LABOR, FRINGE BENEFITS AND GENERAL OVERHEAD
FOR THE YEAR ENDED DECEMBER 31, 2016**

HDR FAR References continued:

- 31.205-51 – Costs of alcoholic beverages are unallowable.
- 15 31.205-20 – Interest and other financial costs are unallowable.
- 16 31.205-6(m)(2) – Portions of the cost of company-furnished automobiles that relate to personal use by employees, including transportation to and from work, are unallowable.
- 17 31.201-4(a) – A cost is allocable directly to a government contract if it is incurred specifically for the contract.
31.205-22 – Lobbying and political activities are unallowable.
31.205-46 – Meals and lodging costs in excess of federal per diem rates are unallowable.
31.205-47(t)(8) – Costs associated with a bid protest are unallowable.
- 18 31.201-4(a) – A cost is allocable directly to a government contract if it is incurred specifically for the contract.
31.205-1(t)(l) – A portion of public relations and advertising costs is unallowable.
31.205-3 – Bad debts are unallowable.
31.205-8 – Contributions and donations are unallowable.
31.205-14 – Costs of entertainment are unallowable.
31.205-15 – Costs of fines and penalties are unallowable.
31.205-46(c)(2) – Portions of costs of leased airplane for business travel are unallowable.
31.205-51 – Costs of alcoholic beverages are unallowable.
- 19 Amount represents allocations of expenses from the Company's parent, HDR, Inc. Adjustments for unallowable expenses include:
31.205-6 (i)(1) – Any compensation which is calculated, or valued, based on changes in the price of corporate securities is unallowable.
31.205-20 - Interest and other financials costs are unallowable. The adjustment also includes disallowances for unallowable expenses that are similar in nature to that incurred at the business segment level.

NDOR FAR References:

- A 31.201-6(a) - A related percentage of fringe benefits is unallowable for labor associated with unallowable activities: Indirect Labor-General pre 6/24 \$27,551.
- B 31.201-4(b) - Expenses that should have been coded to a direct project were incorrectly coded to and are not allocable to the overhead pool: \$400,053.
- C Amount represents allocations of expenses from the Company's parent, HDR, Inc. NDOR Adjustments for unallowable expenses specifically relate to:
31.201-6(a) - A related percentage of fringe benefits is unallowable for labor associated with unallowable activities: \$376.
31.201-4(b) - Expenses, net of depreciation, that should have been capitalized were incorrectly coded to and are not allocable to the overhead pool: \$150,608.
- D FAR 31.205-6(p) - NDOR confirmed that fringe benefits were included in HDR's calculation of executive compensation and disallowed accordingly. NDOR and HDR agreed to make an additional adjustment related to Medicare taxes. Adjustments were made as follows: Indirect Labor-General pre 6/24 of \$37,797 and post 6/24 of \$33,230; Allocated expenses pre 6/24 of \$25,863 and post 6/24 of \$12,044.

Exhibit E

Sub-consultant Cost Computations

There isn't any sub-consultant participation at this time. The CONSULTANT shall not sub-contract for the performance of any work under this AGREEMENT without prior written permission of the AGENCY. Refer to section VI "Sub-Contracting" of this AGREEMENT.

Agreement Number:

Exhibit F

Title VI Assurances

During the performance of this AGREEMENT, the CONSULTANT, for itself, its assignees, and successors in interest agrees as follows:

1. **Compliance with Regulations:** The CONSULTANT shall comply with the Regulations relative to non-discrimination in federally assisted programs of the AGENCY, Title 49, Code of Federal Regulations, Part 21, as they may be amended from time to time (hereinafter referred to as the "REGULATIONS"), which are herein incorporated by reference and made a part of this AGREEMENT.
2. **Non-discrimination:** The CONSULTANT, with regard to the work performed during this AGREEMENT, shall not discriminate on the grounds of race, color, sex, or national origin in the selection and retention of sub-consultants, including procurement of materials and leases of equipment. The CONSULTANT shall not participate either directly or indirectly in the discrimination prohibited by Section 21.5 of the REGULATIONS, including employment practices when this AGREEMENT covers a program set forth in Appendix B of the REGULATIONS.
3. **Solicitations for Sub-consultants, Including Procurement of Materials and Equipment:** In all solicitations either by competitive bidding or negotiations made by the CONSULTANT for work to be performed under a sub-contract, including procurement of materials or leases of equipment, each potential sub-consultant or supplier shall be notified by the CONSULTANT of the CONSULTANT's obligations under this AGREEMENT and the REGULATIONS relative to non-discrimination on the grounds of race, color, sex, or national origin.
4. **Information and Reports:** The CONSULTANT shall provide all information and reports required by the REGULATIONS or directives issued pursuant thereto, and shall permit access to its books, records, accounts, other sources of information, and its facilities as may be determined by the AGENCY, the STATE, or the Federal Highway Administration (FHWA) to be pertinent to ascertain compliance with such REGULATIONS, orders and instructions. Where any information required of a CONSULTANT is in the exclusive possession of another who fails or refuses to furnish this information, the CONSULTANT shall so certify to the AGENCY, the STATE, or the FHWA as appropriate, and shall set forth what efforts it has made to obtain the information.
5. **Sanctions for Non-compliance:** In the event of the CONSULTANT's non-compliance with the non-discrimination provisions of this AGREEMENT, the AGENCY shall impose such AGREEMENT sanctions as it, the STATE, or the FHWA may determine to be appropriate, including, but not limited to:
 - Withholding of payments to the CONSULTANT under this AGREEMENT until the CONSULTANT complies, and/or;
 - Cancellation, termination, or suspension of this AGREEMENT, in whole or in part.
6. **Incorporation of Provisions:** The CONSULTANT shall include the provisions of paragraphs (1) through (5) in every subcontract, including procurement of materials and leases of equipment, unless exempt by the REGULATIONS, or directives issued pursuant thereto. The CONSULTANT shall take such action with respect to any sub-consultant or procurement as the STATE, the AGENCY, or FHWA may direct as a means of enforcing such provisions including sanctions for non-compliance.

Provided, however, that in the event a CONSULTANT becomes involved in, or is threatened with, litigation with a sub-consultant or supplier as a result of such direction, the CONSULTANT may request the AGENCY enter into such litigation to protect the interests of the STATE and/or the AGENCY and, in addition, the CONSULTANT may request the United States enter into such litigation to protect the interests of the United States.

Agreement Number:

Exhibit G **Certification Documents**

- Exhibit G-1(a) Certification of Consultant
- Exhibit G-1(b) Certification of City of Marysville
- Exhibit G-2 Certification Regarding Debarment, Suspension and Other Responsibility Matters -
Primary Covered Transactions
- Exhibit G-3 Certification Regarding the Restrictions of the Use of Federal Funds for Lobbying
- Exhibit G-4 Certificate of Current Cost or Pricing Data

Agreement Number:

Exhibit G-1(a) Certification of Consultant

I hereby certify that I am the and duly authorized representative of the firm of
HDR Engineering, Inc.

whose address is

929 108th Avenue NE, Suite 1300, Bellevue, WA 98004

and that neither the above firm nor I have:

- a) Employed or retained for a commission, percentage, brokerage, contingent fee, or other consideration, any firm or person (other than a bona fide employee working solely for me or the above CONSULTANT) to solicit or secure this AGREEMENT;
- b) Agreed, as an express or implied condition for obtaining this contract, to employ or retain the services of any firm or person in connection with carrying out this AGREEMENT; or
- c) Paid, or agreed to pay, to any firm, organization or person (other than a bona fide employee working solely for me or the above CONSULTANT) any fee, contribution, donation, or consideration of any kind for, or in connection with, procuring or carrying out this AGREEMENT; except as hereby expressly stated (if any);

I acknowledge that this certificate is to be furnished to the
and the Federal Highway Administration, U.S. Department of Transportation in connection with this
AGREEMENT involving participation of Federal-aid highway funds, and is subject to applicable State and
Federal laws, both criminal and civil.

HDR Engineering, Inc.

Consultant (Firm Name)

Signature (Authorized Official of Consultant)

Date

Agreement Number:

Exhibit G-1(b) Certification of City of Marysville

I hereby certify that I am the:

Other

of the City of Marysville _____, and HDR Engineering, Inc.
or its representative has not been required, directly or indirectly as an express or implied condition in connection with obtaining or carrying out this AGREEMENT to:

- a) Employ or retain, or agree to employ to retain, any firm or person; or
- b) Pay, or agree to pay, to any firm, person, or organization, any fee, contribution, donation, or consideration of any kind; except as hereby expressly stated (if any):

I acknowledge that this certificate is to be furnished to the _____ and the Federal Highway Administration, U.S. Department of Transportation, in connection with this AGREEMENT involving participation of Federal-aid highway funds, and is subject to applicable State and Federal laws, both criminal and civil.

Signature

Date

Agreement Number: _____

Exhibit G-2 Certification Regarding Debarment, Suspension and Other Responsibility Matters - Primary Covered Transactions

- I. The prospective primary participant certifies to the best of its knowledge and belief, that it and its principals:
 - A. Are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from covered transactions by any Federal department or agency;
 - B. Have not within a three (3) year period preceding this proposal been convicted of or had a civil judgment rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, State, or local) transaction or contract under a public transaction; violation of Federal or State anti-trust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements, or receiving stolen property;
 - C. Are not presently indicted for or otherwise criminally or civilly charged by a governmental entity (Federal, State, or local) with commission of any of the offenses enumerated in paragraph (1)(b) of this certification; and
 - D. Have not within a three (3) year period preceding this application / proposal had one or more public transactions (Federal, State and local) terminated for cause or default.
- II. Where the prospective primary participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

HDR Engineering, Inc.

Consultant (Firm Name)

Signature (Authorized Official of Consultant)

Date

Agreement Number:

Exhibit G-3 Certification Regarding the Restrictions of the Use of Federal Funds for Lobbying

The prospective participant certifies, by signing and submitting this bid or proposal, to the best of his or her knowledge and belief, that:

1. No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of any Federal agency, a Member of Congress, an officer or employee of Congress, or any employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative AGREEMENT, and the extension, continuation, renewal, amendment, or modification of Federal contract, grant, loan or cooperative AGREEMENT.
2. If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any Federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan or cooperative AGREEMENT, the undersigned shall complete and submit Standard Form - LLL, "Disclosure Form to Report Lobbying," in accordance with its instructions.

This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by Section 1352, Title 31, U.S. Code. Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000.00, and not more than \$100,000.00, for each such failure.

The prospective participant also agrees by submitting his or her bid or proposal that he or she shall require that the language of this certification be included in all lower tier sub-contracts, which exceed \$100,000, and that all such sub-recipients shall certify and disclose accordingly.

HDR Engineering, Inc.

Consultant (Firm Name)

Signature (Authorized Official of Consultant)

Date

Agreement Number:

Exhibit G-4 Certificate of Current Cost or Pricing Data

This is to certify that, to the best of my knowledge and belief, the cost or pricing data (as defined in section 2.101 of the Federal Acquisition Regulation (FAR) and required under FAR subsection 15.403-4) submitted, either actually or by specific identification in writing, to the Contracting Officer or to the Contracting Officer's representative in support of 88th Street NE Corridor Improvements * are accurate, complete, and current

as of _____ **.

This certification includes the cost or pricing data supporting any advance AGREEMENT's and forward pricing rate AGREEMENT's between the offer or and the Government that are part of the proposal.

Firm: HDR Engineering, Inc.

Signature

Title

Date of Execution***:

*Identify the proposal, quotation, request for pricing adjustment, or other submission involved, giving the appropriate identifying number (e.g. project title.)

**Insert the day, month, and year, when price negotiations were concluded and price AGREEMENT was reached.

***Insert the day, month, and year, of signing, which should be as close as practicable to the date when the price negotiations were concluded and the contract price was agreed to.

Agreement Number: _____

Exhibit H

Liability Insurance Increase

To Be Used Only If Insurance Requirements Are Increased

The professional liability limit of the CONSULTANT to the AGENCY identified in Section XII, Legal Relations and Insurance of this Agreement is amended to \$

The CONSULTANT shall provide Professional Liability insurance with minimum per occurrence limits in the amount of \$

Such insurance coverage shall be evidenced by one of the following methods:

- Certificate of Insurance.
- Self-insurance through an irrevocable Letter of Credit from a qualified financial institution.

Self-insurance through documentation of a separate fund established exclusively for the payment of professional liability claims, including claim amounts already reserved against the fund, safeguards established for payment from the fund, a copy of the latest annual financial statements, and disclosure of the investment portfolio for those funds.

Should the minimum Professional Liability insurance limit required by the AGENCY as specified above exceed \$1 million per occurrence or the value of the contract, whichever is greater, then justification shall be submitted to the Federal Highway Administration (FHWA) for approval to increase the minimum insurance limit.

If FHWA approval is obtained, the AGENCY may, at its own cost, reimburse the CONSULTANT for the additional professional liability insurance required.

Notes: Cost of added insurance requirements: \$

- Include all costs, fee increase, premiums.
- This cost shall not be billed against an FHWA funded project.
- For final contracts, include this exhibit.

Agreement Number:

Exhibit I

Alleged Consultant Design Error Procedures

The purpose of this exhibit is to establish a procedure to determine if a consultant's alleged design error is of a nature that exceeds the accepted standard of care. In addition, it will establish a uniform method for the resolution and/or cost recovery procedures in those instances where the agency believes it has suffered some material damage due to the alleged error by the consultant.

Step 1 Potential Consultant Design Error(s) is Identified by Agency's Project Manager

At the first indication of potential consultant design error(s), the first step in the process is for the Agency's project manager to notify the Director of Public Works or Agency Engineer regarding the potential design error(s). For federally funded projects, the Region Local Programs Engineer should be informed and involved in these procedures. (Note: The Director of Public Works or Agency Engineer may appoint an agency staff person other than the project manager, who has not been as directly involved in the project, to be responsible for the remaining steps in these procedures.)

Step 2 Project Manager Documents the Alleged Consultant Design Error(s)

After discussion of the alleged design error(s) and the magnitude of the alleged error(s), and with the Director of Public Works or Agency Engineer's concurrence, the project manager obtains more detailed documentation than is normally required on the project. Examples include: all decisions and descriptions of work; photographs, records of labor, materials and equipment.

Step 3 Contact the Consultant Regarding the Alleged Design Error(s)

If it is determined that there is a need to proceed further, the next step in the process is for the project manager to contact the consultant regarding the alleged design error(s) and the magnitude of the alleged error(s). The project manager and other appropriate agency staff should represent the agency and the consultant should be represented by their project manager and any personnel (including sub-consultants) deemed appropriate for the alleged design error(s) issue.

Step 4 Attempt to Resolve Alleged Design Error with Consultant

After the meeting(s) with the consultant have been completed regarding the consultant's alleged design error(s), there are three possible scenarios:

- It is determined via mutual agreement that there is not a consultant design error(s). If this is the case, then the process will not proceed beyond this point.
- It is determined via mutual agreement that a consultant design error(s) occurred. If this is the case, then the Director of Public Works or Agency Engineer, or their representatives, negotiate a settlement with the consultant. The settlement would be paid to the agency or the amount would be reduced from the consultant's agreement with the agency for the services on the project in which the design error took place. The agency is to provide LP, through the Region Local Programs Engineer, a summary of the settlement for review and to make adjustments, if any, as to how the settlement affects federal reimbursements. No further action is required.
- There is not a mutual agreement regarding the alleged consultant design error(s). The consultant may request that the alleged design error(s) issue be forwarded to the Director of Public Works or Agency Engineer for review. If the Director of Public Works or Agency Engineer, after review with their legal counsel, is not able to reach mutual agreement with the consultant, proceed to Step 5.

Agreement Number:

Step 5 Forward Documents to Local Programs

For federally funded projects all available information, including costs, should be forwarded through the Region Local Programs Engineer to LP for their review and consultation with the FHWA. LP will meet with representatives of the agency and the consultant to review the alleged design error(s), and attempt to find a resolution to the issue. If necessary, LP will request assistance from the Attorney General's Office for legal interpretation. LP will also identify how the alleged error(s) affects eligibility of project costs for federal reimbursement.

- If mutual agreement is reached, the agency and consultant adjust the scope of work and costs to reflect the agreed upon resolution. LP, in consultation with FHWA, will identify the amount of federal participation in the agreed upon resolution of the issue.
- If mutual agreement is not reached, the agency and consultant may seek settlement by arbitration or by litigation.

Agreement Number:

Exhibit J

Consultant Claim Procedures

The purpose of this exhibit is to describe a procedure regarding claim(s) on a consultant agreement. The following procedures should only be utilized on consultant claims greater than \$1,000. If the consultant's claim(s) are a total of \$1,000 or less, it would not be cost effective to proceed through the outlined steps. It is suggested that the Director of Public Works or Agency Engineer negotiate a fair and reasonable price for the consultant's claim(s) that total \$1,000 or less.

This exhibit will outline the procedures to be followed by the consultant and the agency to consider a potential claim by the consultant.

Step 1 Consultant Files a Claim with the Agency Project Manager

If the consultant determines that they were requested to perform additional services that were outside of the agreement's scope of work, they may be entitled to a claim. The first step that must be completed is the request for consideration of the claim to the Agency's project manager.

The consultant's claim must outline the following:

- Summation of hours by classification for each firm that is included in the claim;
- Any correspondence that directed the consultant to perform the additional work;
- Timeframe of the additional work that was outside of the project scope;
- Summary of direct labor dollars, overhead costs, profit and reimbursable costs associated with the additional work; and
- Explanation as to why the consultant believes the additional work was outside of the agreement scope of work.

Step 2 Review by Agency Personnel Regarding the Consultant's Claim for Additional Compensation

After the consultant has completed step 1, the next step in the process is to forward the request to the Agency's project manager. The project manager will review the consultant's claim and will meet with the Director of Public Works or Agency Engineer to determine if the Agency agrees with the claim. If the FHWA is participating in the project's funding, forward a copy of the consultant's claim and the Agency's recommendation for federal participation in the claim to the WSDOT Local Programs through the Region Local Programs Engineer. If the claim is not eligible for federal participation, payment will need to be from agency funds.

If the Agency project manager, Director of Public Works or Agency Engineer, WSDOT Local Programs (if applicable), and FHWA (if applicable) agree with the consultant's claim, send a request memo, including backup documentation to the consultant to either supplement the agreement, or create a new agreement for the claim. After the request has been approved, the Agency shall write the supplement and/or new agreement and pay the consultant the amount of the claim. Inform the consultant that the final payment for the agreement is subject to audit. No further action is needed regarding the claim procedures.

If the Agency does not agree with the consultant's claim, proceed to step 3 of the procedures.

Agreement Number:

Step 3 Preparation of Support Documentation Regarding Consultant's Claim(s)

If the Agency does not agree with the consultant's claim, the project manager shall prepare a summary for the Director of Public Works or Agency Engineer that included the following:

- Copy of information supplied by the consultant regarding the claim;
- Agency's summation of hours by classification for each firm that should be included in the claim;
- Any correspondence that directed the consultant to perform the additional work;
- Agency's summary of direct labor dollars, overhead costs, profit and reimbursable costs associated with the additional work;
- Explanation regarding those areas in which the Agency does/does not agree with the consultant's claim(s);
- Explanation to describe what has been instituted to preclude future consultant claim(s); and
- Recommendations to resolve the claim.

Step 4 Director of Public Works or Agency Engineer Reviews Consultant Claim and Agency Documentation

The Director of Public Works or Agency Engineer shall review and administratively approve or disapprove the claim, or portions thereof, which may include getting Agency Council or Commission approval (as appropriate to agency dispute resolution procedures). If the project involves federal participation, obtain concurrence from WSDOT Local Programs and FHWA regarding final settlement of the claim. If the claim is not eligible for federal participation, payment will need to be from agency funds.

Step 5 Informing Consultant of Decision Regarding the Claim

The Director of Public Works or Agency Engineer shall notify (in writing) the consultant of their final decision regarding the consultant's claim(s). Include the final dollar amount of the accepted claim(s) and rationale utilized for the decision.

Step 6 Preparation of Supplement or New Agreement for the Consultant's Claim(s)

The agency shall write the supplement and/or new agreement and pay the consultant the amount of the claim. Inform the consultant that the final payment for the agreement is subject to audit.

Agreement Number: