


**Washington State
Department of Transportation**

Supplemental Agreement Number _____		Organization and Address	
Original Agreement Number			
Project Number		Phone:	
Project Title		Execution Date	Completion Date
Description of Work		New Maximum Amount Payable	

The Local Agency of _____
 desires to supplement the agreement entered in to with _____
 and executed on _____ and identified as Agreement No. _____
 All provisions in the basic agreement remain in effect except as expressly modified by this supplement.
 The changes to the agreement are described as follows:

I

Section 1, SCOPE OF WORK, is hereby changed to read:

II

Section IV, TIME FOR BEGINNING AND COMPLETION, is amended to change the number of calendar days
 for completion of the work to read: _____

III

Section V, PAYMENT, shall be amended as follows:

as set forth in the attached Exhibit A, and by this reference made a part of this supplement.

If you concur with this supplement and agree to the changes as stated above, please sign in the Appropriate
 spaces below and return to this office for final action.

By: _____ By: _____

 Consultant Signature

 Approving Authority Signature

 Date

**City of Redmond
NE 40TH Street Shared Use Path
Construction Phase**

**City Project #20021923
Fed Aid #CM-2080 (003)**

**Supplemental Agreement No. 2
to DEA Consultant Agreement #9454**

Status of DEA Consultant Agreement #9454 as of April 2022:

Agreement	Agreement Date	Expiration Date	Base	Contingency	Subtotal	Total
Consultant Agreement	6/5/20	12/31/21	\$591,818	\$59,182	\$651,000	\$651,000
Supplemental Agreement 1 – Time Extension	12/17/21	12/31/23	N/A	N/A	N/A	\$651,000
Supplemental Agreement 2 - Adjustments to Prior Agreements	5/31/22 est.	12/31/23	\$591,818	\$59,182	(\$70,000)	\$581,000
Supplemental Agreement 2 – Construction Services	5/31/22 est.	12/31/23	\$270,855	\$24,145	\$295,000	\$876,000

TOTAL SUPPLEMENTAL AGREEMENT 2

\$225,000

EXHIBIT A-2

Scope of Services

SUPPLEMENT NO. 2

CITY OF REDMOND

NE 40TH Street Shared Use Path

City Project #20021923

Federal Aid # CM-2080 (003)

Prepared by:

**David Evans and Associates, Inc.
14432 SE Eastgate Way, Suite 400
Bellevue, WA 98007**

May 5, 2022

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EXHIBIT A-2 SCOPE OF SERVICES SUPPLEMENT NO. 2

City of Redmond NE 40th Street Shared Use Path

INTRODUCTION

Supplement No. 2 modifies the Original Agreement dated June 5, 2020, and Supplement Agreement 1 (time extension), with the following revisions. Per the Original Agreement, construction engineering and management services were included and would be added under a supplemental agreement.

David Evans and Associates, Inc. (DEA) will provide the City of Redmond (CITY) with construction engineering support and construction management for the construction of NE 40th Street Shared Use Path project (PROJECT) on the south side of NE 40th Street between 156th Avenue NE and 163rd Avenue NE. The improvements will include a new shared use path (typically 11 feet wide), intersection modifications, drainage, and traffic signal modifications.

For purposes of this agreement, the term CONSULTANT refers to the collective efforts of the following firms:

Firm Name	UDBE Certified
David Evans and Associates, Inc. (DEA)	No
HWA Geosciences (HWA)	Yes
Urban Forest Services: Bartlett Consulting	No

DEA shall be the prime consultant, with other firms listed above contracted to DEA as subconsultants.

TASK 2.0 PROJECT MANAGEMENT AND QUALITY CONTROL

2.3 Monthly Invoices/Progress Reports

Monthly invoices will be prepared by the CONSULTANT per CITY requirements for work activities for the prior month. These invoices shall also include SUBCONSULTANT work and will be accompanied by monthly progress reports. Invoices will include back-up material for all expenses and will show approved budget and amount expended to date.

Construction is estimated at 6 months and including project closeout, the project duration is assumed to be 10 months.

Deliverables: Monthly Invoices and Progress Reports (10 total).

TASK 16.0 CONSTRUCTION SERVICES

16.1 Construction Engineering Support

The CONSULTANT shall provide Construction Engineering Support Services on an “on-call” basis at the CITY’s request during the construction phase of the project. Construction Engineering Support applies to the CONSULTANT design team (DT) involved in the preparing of construction contract documents under the original agreement. DEA’s Construction Management Support staff is included under work element 16.3 Construction Management Support.

Construction Engineering Support Services may include the following:

- A. **Pre-Construction Meetings:** The CONSULTANT DT will attend three (3) pre-construction meetings. These may include the general pre-construction meeting with the prime contractor and subcontractors, a pre-construction meeting for the excavation adjacent to tree roots, and a pre-construction meeting that is dedicated to the discussion of curb ramp and sidewalk construction. The CONSULTANT DT shall assist the CITY in preparing agendas and meeting notes.
- B. **Construction Meetings:** The CONSULTANT DT will attend construction meetings as requested. This task assumes twelve meetings.
- C. **Review Selected Shop Drawings Submittals:** The CONSULTANT DT will review and recommend action on selected Contractor electrical submittals and shop drawings as requested by the CITY. The effort for this task is for input/support of the review of shop drawings submittals by the Contractor to the CITY and will be limited to the effort shown in the Fee Proposal. This task assumes the following:
 - a. 3 Electrical submittals.
- D. **Requests for Information (RFIs)/Design Clarifications:** At the CITY’s request, the CONSULTANT DT may be asked to provide assistance to the CITY in answering the Contractor’s RFIs. This task assumed that twenty (20) RFIs will be reviewed and responded.
- E. **Change Orders (COs):** At the CITY’s request, the CONSULTANT DT may be asked to assist the CITY in reviewing change order proposals and developing required information for COs. Work may include preparation of drawings and supporting information. This task assumed that five COs will be prepared.
- F. **Geotechnical Observations:** The Subconsultant will provide the following geotechnical observation items, to verify that the soils encountered during construction will be consistent with the design assumptions, and the foundation elements will be constructed per the approved plans and project specifications. The level of effort for geotechnical observation is 16 hours.

Assumptions:

- The CITY will prepare ROM.

Deliverables: Shop drawing and electrical submittal reviews.
Responses to RFIs.
Drawings, calculations, and specifications required for Change Orders.

16.2 Construction Management Support

The CONSULTANT construction management team (CMT) shall provide Construction Management Support. The construction management team includes a part time Assistant Resident Engineer (ARE), a part time Document Control Specialist (DCS), and part time back up inspector (if needed). This team will support the CITY Project Manager and Construction Inspector.

Tasks for the construction management support are the following:

- A. **Pre-Construction Meetings:** The CONSULTANT CMT will attend four (4) pre-construction meetings. These may include the general pre-construction meeting with the prime contractor and subcontractors, and also pre-construction meetings that are dedicated to shared use path excavation, curb ramp and shared use path construction, and HMA paving. The CONSULTANT CMT will prepare a draft agenda and submit draft notes. The CITY shall finalize the meeting notes.
- B. **Construction Meetings:** The CONSULTANT CMT will attend weekly construction meetings and a punch list meeting. This task assumes up to twenty-five (25) meetings. The CONSULTANT CMT will take prepare agendas, prepare meeting notes, and finalize the draft meeting notes and distribute them.
- C. **Review Selected Shop Drawings and Material Submittals:** The CONSULTANT CMT will review and recommend action on selected Contractor materials submittals, shop drawings, and material test reports (the CITY to perform testing), as requested by the CITY. The effort for this task is for input/support of the review of shop drawings and materials submittals by the Contractor to the CITY, and will be limited to the effort shown in the Fee Proposal. This task assumed that six (6) submittals will be reviewed.
- D. **Requests for Information (RFIs)/Design Clarifications:** At the CITY's request, the CONSULTANT CMT may be asked to provide assistance to the CITY in answering the Contractor's RFIs and provide design clarifications. This task assumed that twenty (20) RFIs and design clarifications will be reviewed and responded.
- E. **Change Orders (COs):** The CONSULTANT CMT shall provide assistance to the CITY in reviewing change order proposals and developing required information for COs. Work may include preparation of drawings and supporting information.
- F. **Record of Materials (ROM):** The CONSULTANT CMT shall manage the Record of Materials spreadsheet for material and documentation tracking, shall keep ROM accurate and current, shall verify materials and track testing frequency for compliance, shall use ledger/summary to track testing and keep tally of tickets, shall update ROM with submittal and testing requirements, shall note and track any deficiencies, and shall coordinate the submittal of all necessary paperwork and documentation by the Project Construction Inspector to support the ROM.
- G. **General Support:** The CONSULTANT CMT shall support the CITY with the following tasks.
 - 1) Prepare minor changes
 - 2) Verify contractor's submittal recycle report to WSDOT

- 3) Arrange WSDOT field verification survey
 - 4) Prepare close out agendas
 - 5) Conduct close out meeting
 - 6) Produce final pay documents
 - 7) Assist with final estimate
 - 8) Prepare NPDES closeout
 - 9) Secure final ROM information
 - 10) Prepare material certifications
- H. **Monthly Pay Requests:** The CONSULTANT CMT shall review and comment on pay documentation provided by the Project Construction Inspector to ensure paperwork is in accordance with WSDOT Standards, including preparation/documentation of field note records. The CONSULTANT CMT shall utilize all CITY and WSDOT templates for other required documentation forms and shall maintain a Monthly Progress Pay Request Spreadsheet, shall update Bid Item Summary sheets monthly and all necessary documentation. The CONSULTANT CMT shall inform inspector and Project Manager of non-complying items. The CONSULTANT CMT shall verify work performed for payment of Lump Sum Bid Items and Schedule of Values and shall review quantities with CITY's Project Manager and contractor prior to submittal for payment.
- I. **Force Account:** The CONSULTANT CMT shall prepare force account sheets based on information provided by the Project Construction Inspector. The CONSULTANT CMT shall verify force account data from field, shall create Force Account sheet in Excel workbooks, shall verify prevailing wage rates, equipment Blue Book rates and shall obtain necessary back up documentation, such as invoices, from contractor for proper documentation of force account amounts.
- J. **Project Documentation:** The CONSULTANT CMT shall request, assist the CITY in preparing, and maintain all necessary documentation with compliance to WSDOT standards for Federal Grant projects. The CONSULTANT CMT shall review CITY's documentation and shall notify CITY's Project Manager of any deficiencies and make recommendations for remedying documentation.
- K. **Project Management Reviews and Audits:** The CONSULTANT CMT shall prepare a complete file including completed checklists (electronic on SharePoint and paper as required) and review files with the CITY for PMR audit, participate in any Project Management Reviews (PMR) by WSDOT, and in any other audits for the project to provide requested information/documentation for the project.

Assumptions:

- The CITY will provide for a material testing lab for construction testing and special inspection. Material testing and special inspection services are not included in this Scope of Work.
- The level of effort for ARE is assumed to be 16 hours per week.
- The level of effort for DCS is assumed to be 16 hours per week.

Deliverables: Draft meeting notes.
Shop drawing and material submittal reviews.
Responses to RFIs.
Drawings, calculations, and specifications required for Change Orders.
Record of Materials.
Monthly Pay Requests.
Force Accounts.
Project Documentation.

16.3 Arborist Services

The CONSULTANT shall provide an arborist to attend two (2) pre-construction meetings and be on-site during excavation adjacent to trees and tree roots for up to 24 hours. The arborist shall provide training on procedures to trim and protect existing tree roots.

16.4 Record Drawings

The CONSULTANT DT shall prepare Record Drawings at the completion of the project. The CITY will provide Contractor-prepared marked-up drawings, inspector's field notes, and other available information. The CONSULTANT DT shall use these materials to prepare the Record Drawings. Record Drawings shall be prepared in accordance with the CITY's "Record Drawing Requirements."

Deliverables: Phase I Record Drawings for Engineering Review (22"x34" bond [1 copy])
Phase II Record Drawings GIS Review - (22"x34" bond [1 copy], Digital CAD file [on DVD], Digital Submittal Checklist [1 hard copy])
Phase III Record Drawings for Final Submittal (22"x34" mylar [1 copy], 22"x34" bond [1 copy], 11"x17" bond [3 copies])

16.5 Contingency Services

If requested by the CITY, the CONSULTANT shall provide the following services.

16.5.1 Maximum Extent Feasible (MEF) Documentation

If during construction full accessibility criteria cannot be met by the curb ramps and associated improvements or significant changes to the design are made during construction, a Construction MEF document will be required and will be prepared by the CONSULTANT. This will reflect the final build-out conditions. The CONSULTANT shall prepare the Construction MEF documentation for the CITY's review and approval. It is anticipated to include the following elements:

- Curb Ramp Evaluation Details for each curb ramp within the project limits, a photo of the final constructed conditions, identification of the non-compliant elements, and justification of why the non-compliant elements do not meet ADA guidelines.

The CONSULTANT will prepare a draft document for the CITY's review and comment. The CONSULTANT will incorporate CITY comments into the final document.

This task will include one coordination meeting with WSDOT on site, and coordination with WSDOT regarding documentation requirements.

Assumptions:

- It is assumed that the information and data for the constructed curb ramps will be provided to the CONSULTANT by the CITY. The CITY will record all slopes, dimensions, and photographs, and provide them to the CONSULTANT.

Deliverables: One (1) draft and final of the Construction MEF Document for the CITY's approval.

16.5.2 Backup Inspection

At the City's request, the CONSULTANT CMT shall provide a backup inspector if the City's inspector is not available.

Assumptions:

- The level of effort for backup inspector is assumed to be a total of 40 hours.

City of Redmond
NE 40th Street Shared Use Path
Cost Estimate Sheet
Exhibit D-2

David Evans and Associates, Inc.

				Negotiated			
Classification				Hrs.	x	Salary	= Cost
1	Project Manager IV (PJM4)	\$ 84.20	200	\$ 257.96		\$51,593	
2	Engineer IV (ENG4)	\$ 64.00	41	\$ 196.08		\$8,039	
3	Engineer IV (ENG4)	\$ 63.30	22	\$ 193.93		\$4,267	
4	Designer III (DES3)	\$ 49.94	93	\$ 153.00		\$14,229	
5	Project Manager III (PJM3) - Landscape	\$ 48.80	12	\$ 149.51		\$1,794	
6	CAD Technician V (CAD5)	\$ 51.70	44	\$ 158.39		\$6,969	
7	Project Manager III (PJM3) - ARE	\$ 71.58	435	\$ 219.30		\$95,395	
8	Project Coordinator III (PJC3)	\$ 35.00	457	\$ 107.23		\$49,004	
9	Project Accountant IV (PAC4)	\$ 41.14	12	\$ 126.04		\$1,512	
9	Construction Inspector IV (CIN4)	\$ 51.00	40	\$ 156.25		\$6,250	
Total Hrs.				1356			

Salary Cost				\$ 239,053
Salary Escalation Cost (estimated)				
Escalation - % of Labor Cost	0.00%	per year @	1 year(s)	\$0
Total Salary Cost				\$ 239,053

Direct Expenses	No.	Unit	Each	Cost
Reproduction Costs				
Full-Size Plans	2	sets @	\$250 /set	\$500
Half-Size Plans	6	sets @	\$100 /set	\$600
Specifications	4	sets @	\$125 /set	\$500
Urban Forestry Services Bartlett	1	@	\$9,900 LS	\$9,900
Mail/Deliveries/Fed Ex	4	@	\$50 /each	\$200
Mileage	500	miles @	\$0.585 /mile	\$293
Subtotal				\$ 11,993

David Evans and Associates Total **\$ 251,046**

Subconsultants [Not included in estimate]

	\$ Total
HWA GeoSciences Inc.	\$ 19,810
Subconsultant Total	\$ 19,810

Direct Expenses Sub-Total (including Subconsultants) **\$ 31,803**

Total Costs	\$ 270,855
Management Reserve Fund	\$ 24,145
Subtotal	\$ 295,000
Unused Design Phase Funds Applied to SA #2	(\$70,000)
Total SA #2 Costs with Management Reserve Fund	\$ 225,000

City of Redmond
NE 40th Street Shared Use Path
Cost Estimate Sheet

David Evans and Associates, Inc.

		1	2	3	4	5	6	7	8	9	9		
		Project Manager IV (PJM4)	Engineer IV (ENG4)	Engineer IV (ENG4)	Designer III (DES3)	Project Manager III (PJM3) - Landscape	CAD Technician V (CAD5)	Project Manager III (PJM3) - ARE	Project Coordinator III (PJC3)	Project Accountant IV (PAC4)	Construction Inspector IV (CIN4)	DEA	DEA
Work Element #	Work Element												
		rates:	\$257.96	\$196.08	\$193.93	\$153.00	\$149.51	\$158.39	\$219.30	\$107.23	\$126.04	\$156.25	
		Total hrs	Total hrs	Total hrs	Total hrs	Total hrs	Total hrs	Total hrs	Total hrs	Total hrs	Total hrs	Total hrs	Total \$
2.00	Project Management and Quality Control												
2.01	Project Management	96										96	\$24,764
2.03	Monthly Invoices/Progress Reports	12							12	12		36	\$5,895
	Work Element 2.0 Total	108							12	12		132	\$30,659
16.0	Construction Services												
16.1	Construction Engineering Support (Design Team)												
	Pre-Construction Meetings (3 meetings)	5			5							10	\$2,055
	Construction Meetings (12 meetings)	24	4	4	16							48	\$10,199
	Review Selected Shop Drawing Submittals (3 electrical)	5	16									21	\$4,427
	Request for Information/Design Calculations (20 RFIs)	20	16	8	20	12						76	\$14,702
	Change Orders (5 Cos)	10	5	10	20							45	\$8,559
	Geotechnical Observations												
	Work Element 16.1 Total	64	41	22	61	12						200	\$39,942
16.2	Construction Management Support (Construct Management Team)												
	Pre-Construction Meetings (4 meetings)							10	12			22	\$3,480
	Construction Meetings (25 meetings)							50	50			100	\$16,326
	Review Selected Shop Drawing Submittals (6 submittals)							20	20			40	\$6,531
	Request for Information/Design Calculations (20 RFIs)							40	40			80	\$13,061
	Change Orders (5 Cos)							20	20			40	\$6,531
	Record of Materials (ROM)							45	45			90	\$14,694
	General Support							40	40			80	\$13,061
	Monthly Pay Requests							40	40			80	\$13,061
	Force Accounts							40	40			80	\$13,061
	Project Documentation							40	40			80	\$13,061
	Project Management Reviews and Audits	8						90	90			188	\$31,451
	Work Element 16.2 Total	8						435	437			880	\$144,318
16.3	Arborist Services												
	Pre-Construction Meetings (1 meetings)												
	Field Observation												
	Work Element 16.3 Total												
16.4	Record Drawings												
	Phase 1	4			8		24					36	\$6,057
	Phase 2	4			8		16					28	\$4,790
	Phase 3	4			8		4					16	\$2,889
	Work Element 16.4 Total	12			24		44					80	\$13,737
16.5	Contingency Services												
16.5.1	Maximum Extent Feasible Documentation	8			8				8			24	\$4,146
16.5.2	Backup Inspection										40	40	\$6,250
	Work Element 16.5 Total	8			8				8		40	64	\$10,396
	Work Element 16.0 Total	92	41	22	93	12	44	435	445		40	1224	\$208,393
	EXPENSES												\$11,993
	SALARY ESCALATION												
PROJECT WORK ELEMENTS TOTALS		200	41	22	93	12	44	435	457	12	40	1356	\$251,046

Actuals Not To Exceed Table (ANTE)

David Evans and Associates, Inc. - Puget Sound Region

14432 SE Eastgate Way, Suite 400

Bellevue, WA 98007

JOB CLASSIFICATIONS	Direct Labor Rate NTE	Overhead NTE 177.62%	Fixed Fee NTE 30%	All Inclusive Hourly Billing Rate NTE
Administrative Assist IV (ADM4)	\$40.18	\$71.37	\$12.05	\$123.60
BU/COE Sr. Manager I (BUS1)	\$75.50	\$134.10	\$22.65	\$232.25
BU/COE Sr. Manager II (BUS2)	\$95.18	\$169.06	\$28.55	\$292.79
BU/COE Sr. Manager III (BUS3)	\$144.68	\$256.98	\$43.40	\$445.06
Business Development Leader I (BUD1)	\$59.00	\$104.80	\$17.70	\$181.50
Business Development Leader II (BUD2)	\$105.52	\$187.42	\$31.66	\$324.60
Business Development Leader III (BUD3)	\$89.00	\$158.08	\$26.70	\$273.78
Business Development Leader IV (BUD4)	\$137.70	\$244.58	\$41.31	\$423.59
CAD Technician II (CAD2)	\$40.72	\$72.33	\$12.22	\$125.26
CAD Technician V (CAD5)	\$51.70	\$91.83	\$15.51	\$159.04
COE Delivery Leader III	\$79.00	\$140.32	\$23.70	\$243.02
Construction Inspector IV (CIN4)	\$51.00	\$90.59	\$15.30	\$156.89
Construction Services Manager I (CSM1)	\$43.48	\$77.23	\$13.04	\$133.75
Construction Services Manager III (CSM3)	\$70.68	\$125.54	\$21.20	\$217.43
Designer II (DES2)	\$45.00	\$79.93	\$13.50	\$138.43
Designer III (DES3)	\$54.90	\$97.51	\$16.47	\$168.88
Designer IV (DES4)	\$62.00	\$110.12	\$18.60	\$190.72
Designer V (DES5)	\$60.00	\$106.57	\$18.00	\$184.57
Engineering Designer I (END1)	\$38.50	\$68.38	\$11.55	\$118.43
Engineering Designer II (END2)	\$44.62	\$79.25	\$13.39	\$137.26
Engineer III (ENG3)	\$54.30	\$96.45	\$16.29	\$167.04
Engineer IV (ENG4)	\$64.00	\$113.68	\$19.20	\$196.88
Engineer V (ENG5)	\$69.50	\$123.45	\$20.85	\$213.80
Engineer VI (ENG6)	\$88.00	\$156.31	\$26.40	\$270.71
Engineer VII (ENG7)	\$106.50	\$189.17	\$31.95	\$327.62
Field Survey Technician II (FST2)	\$26.50	\$47.07	\$7.95	\$81.52
Field Survey Technician III (FST3)	\$30.00	\$53.29	\$9.00	\$92.29
GIS Analyst II (GIA2)	\$41.00	\$72.82	\$12.30	\$126.12
GIS Analyst IV (GIA4)	\$48.00	\$85.26	\$14.40	\$147.66
Graphic Designer III (GRD3)	\$46.44	\$82.49	\$13.93	\$142.86
Landscape Architect III (LAR3)	\$39.40	\$69.98	\$11.82	\$121.20
Landscape Architect IV (LAR4)	\$48.40	\$85.97	\$14.52	\$148.89
Landscape Designer IV (LAD4)	\$43.00	\$76.38	\$12.90	\$132.28
Office Survey Technician II (OST2)	\$30.00	\$53.29	\$9.00	\$92.29
Office Survey Technician III (OST3)	\$36.00	\$63.94	\$10.80	\$110.74
Office Survey Technician IV (OST4)	\$40.00	\$71.05	\$12.00	\$123.05
Office Survey Technician V (OST5)	\$41.00	\$72.82	\$12.30	\$126.12

Actuals Not To Exceed Table (ANTE)

David Evans and Associates, Inc. - Puget Sound Region

14432 SE Eastgate Way, Suite 400

Bellevue, WA 98007

JOB CLASSIFICATIONS	Direct Labor Rate NTE	Overhead NTE 177.62%	Fixed Fee NTE 30%	All Inclusive Hourly Billing Rate NTE
Party Chief I (PCH1)	\$34.00	\$60.39	\$10.20	\$104.59
Party Chief II (PCH2)	\$40.00	\$71.05	\$12.00	\$123.05
Party Chief III (PCH3)	\$43.50	\$77.26	\$13.05	\$133.81
Party Chief IV (PCH4)	\$48.50	\$86.15	\$14.55	\$149.20
Planner II (PLN2)	\$46.80	\$83.13	\$14.04	\$143.97
Planner III (PLN3)	\$53.56	\$95.13	\$16.07	\$164.76
Planner IV (PLN4)	\$50.50	\$89.70	\$15.15	\$155.35
Project Accountant II (PAC2)	\$33.10	\$58.79	\$9.93	\$101.82
Project Accountant III (PAC3)	\$35.58	\$63.20	\$10.67	\$109.45
Project Accountant IV (PAC4)	\$41.14	\$73.07	\$12.34	\$126.55
Project Accountant V (PAC5)	\$43.50	\$77.26	\$13.05	\$133.81
Project Coordinator II (PJC2)	\$29.50	\$52.40	\$8.85	\$90.75
Project Coordinator III (PJC3)	\$38.50	\$68.38	\$11.55	\$118.43
Project Coordinator IV (PJC4)	\$38.50	\$68.38	\$11.55	\$118.43
Project Manager I (PJM1)	\$42.00	\$74.60	\$12.60	\$129.20
Project Manager II (PJM2)	\$60.00	\$106.57	\$18.00	\$184.57
Project Manager III (PJM3)	\$73.50	\$130.55	\$22.05	\$226.10
Project Manager IV (PJM4)	\$90.00	\$159.86	\$27.00	\$276.86
Project Manager V (PJM5)	\$113.56	\$201.71	\$34.07	\$349.33
Project Manager VI (PJM6)	\$113.72	\$201.99	\$34.12	\$349.83
Project Surveyor I (PSV1)	\$49.00	\$87.03	\$14.70	\$150.73
Project Surveyor III (PSV3)	\$57.50	\$102.13	\$17.25	\$176.88
Project Surveyor IV (PSV4)	\$66.00	\$117.23	\$19.80	\$203.03
QA/QC Specialist II (QAC2)	\$34.86	\$61.92	\$10.46	\$107.24
Right of Way Specialist (RWSP)	\$34.68	\$61.60	\$10.40	\$106.68
Scientist I (SCI1)	\$33.50	\$59.50	\$10.05	\$103.05
Scientist IV (SCI4)	\$46.50	\$82.59	\$13.95	\$143.04
Senior CADD Technician (SCAD)	\$40.00	\$71.05	\$12.00	\$123.05
Support Svcs Specialist IV (SSS4)	\$28.66	\$50.91	\$8.60	\$88.16
Support Svcs Specialist V (SSS5)	\$29.76	\$52.86	\$8.93	\$91.55
Survey Analyst I (SAN1)	\$37.00	\$65.72	\$11.10	\$113.82
Survey Analyst II (SAN2)	\$50.00	\$88.81	\$15.00	\$153.81
Survey Manager I (SVM1)	\$54.00	\$95.91	\$16.20	\$166.11
Survey Manager III (SVM3)	\$71.00	\$126.11	\$21.30	\$218.41
Survey Technician III (SVT3)	\$31.00	\$55.06	\$9.30	\$95.36
Surveyor IV (SVY4)	\$60.00	\$106.57	\$18.00	\$184.57
Remote Pilot I (RPL1)	\$23.95	\$42.54	\$7.19	\$73.67

Actuals Not To Exceed Table (ANTE)

David Evans and Associates, Inc. - Puget Sound Region

14432 SE Eastgate Way, Suite 400

Bellevue, WA 98007

JOB CLASSIFICATIONS	Direct Labor Rate NTE	Overhead NTE 177.62%	Fixed Fee NTE 30%	All Inclusive Hourly Billing Rate NTE
Remote Pilot II (RPL2)	\$34.65	\$61.55	\$10.40	\$106.59
Remote Pilot III (RPL3)	\$53.95	\$95.83	\$16.19	\$165.96
Flight Operations Manager (FLOM)	\$66.50	\$118.12	\$19.95	\$204.57

City of Redmond
NE 40th Street Shared Use Path
Cost Estimate Sheet

HWA GeoSciences Inc.

Classification			Hrs.	x	Negotiated Salary	=	Cost
1	Principal IX	\$ 97.50	25		\$ 297.91		\$7,448
2	Geotechnical Engineer VIII	\$ 81.00	0		\$ 247.50		\$0
3	Geotechnical Engineer VIII	\$ 78.00	33		\$ 238.33		\$7,865
4	Geotechnical Engineer V	\$ 54.00	0		\$ 165.00		\$0
5	Geotechnical Engineer II	\$ 39.00	0		\$ 119.16		\$0
6	Geologist IV	\$ 41.00	14		\$ 125.28		\$1,754
7	Geologist I	\$ 27.50	0		\$ 84.03		\$0
8	Controller	\$ 41.00	12		\$ 125.28		\$1,503
9	CAD	\$ 31.00	0		\$ 94.72		\$0
10	Clerical	\$ 30.00	12		\$ 91.67		\$1,100
			Total Hrs.		96		

Salary Cost **\$ 19,670**

Salary Escalation Cost (estimated)

Escalation - % of Labor Cost 0.00% per year @ 1 year(s) \$0

Total Salary Cost **\$ 19,670**

Direct Expenses	No.	Unit	Each	Cost
Private Utility Locates		@	\$500.00 /each	\$ -
GPS Rental		days @	\$50 /day	\$ -
Pavement Coring		@	\$50 /core	\$ -
Traffic Control		@	\$4,500 /each	\$ -
Drilling Subcontractor		@	\$16,345 /each	\$ -
B&O Tax on Subcontractors		@	\$490 /each	\$ -
Laboratory Testing		@	\$7,204 /each	\$ -
Mileage	239	miles @	\$0.585 /mile	\$ 140
Subtotal				\$ 140

HWA GeoSciences Inc. Total **\$ 19,810**

City of Redmond
NE 40th Street Shared Use Path
Cost Estimate Sheet

HWA GeoSciences Inc.

		1	3	6	8	10		
		Principal IX	Geotechnical Engineer VIII	Geologist IV	Controller	Clerical		
Work Element #	Work Element	rates:	\$297.91	\$238.33	\$125.28	\$125.28	\$91.67	
		Total hrs	Total hrs	Total hrs	Total hrs	Total hrs	Total hrs	Total \$ w/ separate esc.
2.0	Project Management and Quality Control							
2.0	Project Management	10					10	\$2,979
2.0	Monthly Invoices/Progress Reports				12	12	24	\$2,603
	Work Element 2.0 Total	10			12	12	34	\$5,582
16.0	Construction Services							
16.1	Construction Engineering Support (Design Team)							
	Pre-Construction Meetings (3 meetings)							
	Construction Meetings (12 meetings)							
	Review Selected Shop Drawing Submittals (3 electrical)							
	Request for Information/Design Calculations (20 RFIs)							
	Change Orders (5 Cos)							
	Geotechnical Observations	15	33	14			62	\$14,087
	Work Element 16.1 Total	15	33	14			62	\$14,087
16.2	Construction Management Support (Construct Management Team)							
	Pre-Construction Meetings (4 meetings)							
	Construction Meetings (25 meetings)							
	Review Selected Shop Drawing Submittals (6 submittals)							
	Request for Information/Design Calculations (20 RFIs)							
	Change Orders (5 Cos)							
	Record of Materials (ROM)							
	General Support							
	Monthly Pay Requests							
	Force Accounts							
	Project Documentation							
	Project Management Reviews and Audits							
	Work Element 16.2 Total							
16.3	Arborist Services							
	Pre-Construction Meetings (1 meetings)							
	Field Observation							
	Work Element 16.3 Total							
16.4	Record Drawings							
	Phase 1							
	Phase 2							
	Phase 3							
	Work Element 16.4 Total							
16.50	Contingency Services							
16.5.1	Maximum Extent Feasible Documentation							
16.5.2	Backup Inspection							
	Work Element 16.5 Total							
	Work Element 16.0 Total	15	33	14			62	\$14,087
	EXPENSES							\$140
	SALARY ESCALATION							
PROJECT WORK ELEMENTS TOTALS		25	33	14	12	12	96	\$19,810

2022 ANTE HOURLY RATES BY CATEGORY

HWA GEOSCIENCES

TITLE	NTE		DIR. LBR.	
	DIRECT		+OH &	
	LABOR	OH RATE	FEE @	FEE
	RATE	175.55%	30%	
Clerical	\$30.00	\$52.67	\$9.00	\$91.67
CAD	\$38.00	\$66.71	\$11.40	\$116.11
Controller	\$41.00	\$71.98	\$12.30	\$125.28
Geologist I	\$27.50	\$48.28	\$8.25	\$84.03
Geologist II	\$34.00	\$59.69	\$10.20	\$103.89
Geologist III	\$38.00	\$66.71	\$11.40	\$116.11
Geologist IV	\$45.00	\$79.00	\$13.50	\$137.50
Geologist V	\$50.00	\$87.78	\$15.00	\$152.78
Geologist VI	\$55.00	\$96.55	\$16.50	\$168.05
Geologist VII	\$63.50	\$111.47	\$19.05	\$194.02
Geologist VIII	\$76.00	\$133.42	\$22.80	\$232.22
Geotechnical Engineer I	\$38.00	\$66.71	\$11.40	\$116.11
Geotechnical Engineer II	\$42.00	\$73.73	\$12.60	\$128.33
Geotechnical Engineer III	\$46.75	\$82.07	\$14.03	\$142.84
Geotechnical Engineer IV	\$50.25	\$88.21	\$15.08	\$153.54
Geotechnical Engineer V	\$55.00	\$96.55	\$16.50	\$168.05
Geotechnical Engineer VI	\$70.00	\$122.89	\$21.00	\$213.89
Geotechnical Engineer VII	\$78.00	\$136.93	\$23.40	\$238.33
Geotechnical Engineer VIII	\$81.00	\$142.20	\$24.30	\$247.50
Hydrogeologist VI	\$40.00	\$70.22	\$12.00	\$122.22
Lab/Field Technician I	\$22.00	\$38.62	\$6.60	\$67.22
Lab/Field Technician II	\$24.50	\$43.01	\$7.35	\$74.86
Lab/Field Technician III	\$27.00	\$47.40	\$8.10	\$82.50
Lab/Field Technician IV	\$35.00	\$61.44	\$10.50	\$106.94
Lab/Field Technician V	\$45.00	\$79.00	\$13.50	\$137.50
Principal IX	\$97.50	\$171.16	\$29.25	\$297.91



GEOSCIENCES INC.
DBE/MWBE

21312 30th Drive SE, Ste. 110, Bothell, WA 98021-7010

Phone: 425.774.0106 | Fax: 425.774.2714

www.hwageo.com

ODC Rates

1150 Shelby Tube Extrusion	Per Each	\$	100.00
1160 Moisture Content with Description	Per Each	\$	23.00
1162 Visual Soil Classification	Per Each	\$	18.00
1171 Sieve Analysis, Wet, Small sample (D6913)	Per Each	\$	115.00
1172 Sieve Analysis/Grain Size, Wet, Bulk (C136)	Per Each	\$	185.00
1180 Hydrometer Analysis	Per Each	\$	240.00
1181 Combined Analysis (D6913/D7928)	Per Each	\$	250.00
1189 Proctor for Granular Soil-4 pt (D698, D1557)	Per Each	\$	275.00
1190 Proctor for Granular Soil (1pt)	Per Each	\$	150.00
1191 Proctor for Cohesive Soil (D698, D1557)	Per Each	\$	300.00
1200 Specific Gravity of Soil (D854)	Per Each	\$	125.00
1210 Specific Gravity, Fine Aggregate (C128)	Per Each	\$	125.00
1215 Specific Gravity, Coarse Aggregate (C127)	Per Each	\$	120.00
1217 Uncompacted Voids	Per Each	\$	145.00
1220 Unit Weight in Ring (D2937)	Per Each	\$	50.00
1225 Unit Weight in Shelby Tubes (D2937)	Per Each	\$	55.00
1230 Unit Weight of soil by Waxing	Per Each	\$	120.00
1235 Unit Weight of Agg. by Rodding (C29)	Per Each	\$	75.00
1237 Porosity of soils	Per Each	\$	160.00
1245 Atterberg Limits, Three Points (D4318)	Per Each	\$	235.00
1255 Unconfined Compressive Strength (D2166)	Per Each	\$	145.00
1260 Direct Shear, (3) Points - Intact (D3080)	Per Each	\$	600.00
1262 Direct Shear, (3) Points - Remolded (D3080)	Per Each	\$	700.00
1263 Direct Shear, (1) Point - Intact	Per Each	\$	225.00
1265 Strength Test-Triaxial (u-u) (D2850)	Per Each	\$	230.00
1270 Strength test-Triaxial (cu) 1 pt	Per Each	\$	600.00
1274 Strength Test - Triaxial (c-u) 3 Samples (D4767)	Per Each	\$	1,500.00
1278 Strength Test - Triaxial (c-u) 1 Sample Multi-Stage (D4767)	Per Each	\$	1,200.00
1280 Consolidation - One-Dimensional (D2435)	Per Each	\$	900.00
1281 Consolidation - (w/Secondary Compression)	Per Each	\$	1,100.00
1284 Consolidation - Extra Point, Per Point	Per Each	\$	100.00
1290 One dimensional Swell	Per Each	\$	800.00
1300 (CBR) Calif. Bearing Ratio - 1 Point (D1883)	Per Each	\$	250.00
1302 (CBR) Calif. Bearing Ratio - 3 Points (D1883)	Per Each	\$	600.00
1305 Permeability - Constant Head (D2434)	Per Each	\$	325.00
1310 Permeability - Falling Head (WSDOT 605)	Per Each	\$	250.00
1314 Perm Test-Triaxial with back Press. 6"	Per Each	\$	540.00
1315 Permeability - Triaxial with Back Pressure (D5084)	Per Each	\$	500.00
1340 Organic Content Test (D2974)	Per Each	\$	70.00
1341 Soil pH Test	Per Each	\$	40.00
1342 Soil Resistivity Test (WSDOT 417)	Per Each	\$	110.00
1343 Soil pH and Resistivity Test	Per Each	\$	145.00
1420 Cylinder Compression Test (C 39)	Per Each	\$	30.00

HWA GeoSciences ODC Rates

1425 End Trimming (per end)	Per Each	\$	20.00
1440 Concrete Cylinders Sampled and Cure -Not Test	Per Each	\$	30.00
1450 Cylinder Density Tests	Per Each	\$	35.00
1452 Lightweight Concrete Cylinder Density Test	Per Each	\$	80.00
1454 Concrete Core Compression Test with Trim	Per Each	\$	95.00
1460 Concrete Beam Flexural Strength Test (C78)	Per Each	\$	110.00
1469 Grout/Mortar Compression Tests	Per Each	\$	30.00
1475 Shotcrete Panel Testing/panel	Per Each	\$	350.00
1495 Percent Passing #200 Sieve (D1140)	Per Each	\$	80.00
1500 Clay Lumps & Friable Particles (C142)	Per Each	\$	115.00
1505 Ethylene Glycol Expansion Test	Per Each	\$	220.00
1520 LA Abrasion (C131, C535)	Per Each	\$	245.00
1540 Organic Impurities Test (C40)	Per Each	\$	90.00
1550 Sand Equivalent (D2419)	Per Each	\$	105.00
1560 Fracture Face Count (WSDOT 103)	Per Each	\$	55.00
1561 Flat and Elongated	Per Each	\$	60.00
1570 Degradation Test	Per Each	\$	300.00
1602 Marshall Compaction, Volumetrics - 3 specimens (D6926)	Per Each	\$	500.00
1605 Marshall Compaction, Volumetrics - 1 specimen (D6926)	Per Each	\$	200.00
1597 Unconfined Strength w/o Strain	Per Each	\$	100.00
1600 Marshall Compaction, Volumetrics, Flow/Stab - 3 specimens (D6927)	Per Each	\$	600.00
1609 Asphalt Core Density-uncoated	Per Each	\$	45.00
1610 Bitumen Content by Extraction & Gradation (D5444, D6307)	Per Each	\$	185.00
1611 Bitumen Extraction Only (D6307)	Per Each	\$	140.00
1612 Oven Correction (per point)	Per Each	\$	150.00
1615 Rice Density (D2041)	Per Each	\$	140.00
1616 HMA Bulk Sp. Grav. SSD Method, Per Briquette (D2726)	Per Each	\$	65.00
1617 HMA Bulk Specific Gravity - Wax, Per Specimen (D1188)	Per Each	\$	120.00
Concrete Cylinder Molds	Per Each	\$	3.00
1264 Direct Shear- (1) point - Remolded	Per Each	\$	250.00
1184 Oversize Fee - Sieve Analysis	Per Each	\$	75.00
Coring @ \$150, Per Core (12-inch)	Per Core	\$	150.00
Coring @ \$75, Per Core (6-inch)	Per Core	\$	75.00
Nuclear Density Gauge	Per Day	\$	40.00
Nuclear Density Gauge	Per Month	\$	400.00
Thin Lift Gauge	Per Day	\$	60.00
Data Logger/Transducers/Piezometer	Per Each	\$	600.00
Falling Weight Deflectometer	Per Hour	\$	275.00
GPS Unit	Per Day	\$	50.00
Geophysical Equipment Rental	Per Day	\$	250.00
Dropweight Cone Penetrometer	Per Day	\$	75.00
Water Level Indicator	Per Day	\$	20.00