



LAKEWOOD CITY COUNCIL SPECIAL MEETING

Monday, January 27, 2020

7:00 P.M.

City of Lakewood

City Council Chambers

6000 Main Street SW

Lakewood, WA 98499

CALL TO ORDER

ROLL CALL

NEW BUSINESS

(2) Motion No. 2020-06

Authorizing the execution of a professional services agreement with Parametrix, Inc., in an amount not to exceed \$1,937,728.00, for design services related to the JBLM-North Access Improvement project.

ADJOURNMENT

The Council Chambers is accessible to persons with disabilities. Persons requesting special accommodations or language interpreters should contact the City Clerk, 253-983-7705, as soon as possible in advance of the Council meeting so that an attempt to provide the special accommodations can be made.

<http://www.cityoflakewood.us>

City Hall will be closed 15 minutes after adjournment of the meeting.

REQUEST FOR COUNCIL ACTION

DATE ACTION IS REQUESTED: January 27, 2020	TITLE: Motion authorizing the City Manager to enter into a professional services agreement with Parametrix, Inc. in an amount not to exceed \$1,937,728.00 for design services related to the JBLM-North Access Improvement project.	TYPE OF ACTION: — ORDINANCE — RESOLUTION
REVIEW: January 27, 2020	ATTACHMENTS: Vicinity Map Scope and Budget	<u>X</u> MOTION 2020-06 — OTHER

SUBMITTED BY: Paul A. Bucich, P.E., Public Works Engineering Director/City Engineer.

RECOMMENDATION: It is recommended that the City Council authorize the City Manager to enter into a professional services agreement with Parametrix, Inc. in an amount not to exceed \$1,937,728.00 for design services related to the JBLM-North Access Improvement project.

DISCUSSION: The purpose of this project is to re-construct the North Gate Road, Edgewood Avenue, Washington Boulevard and Gravelly Lake Drive corridor beginning at the western city limit, extending east and south to Pacific Highway. The project will also reconstruct Vernon Avenue from Veterans Drive to Washington Boulevard. Improvements consist of complete roadway reconstruction with the addition of bicycle and pedestrian facilities, street lighting, storm drainage and intersection control improvements. **(Continued on Page 2)**

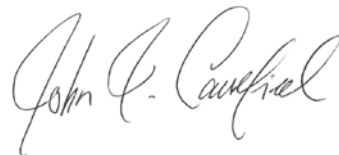
ALTERNATIVE(S): There is no practical alternative other than to conduct a new consultant selection process and negotiate a new fee.

FISCAL IMPACT: This project is funded from multiple sources; \$7,246,370 is secured and \$11,003,630 is unfunded.

A DCIP/DCCA grant application is . The remainder of the funds are derived from General Obligation Bond funds, General Fund, Surface Water Management funds and REET. The total budget immediately available is \$7,246,370 and can be reviewed in the table on page 2. **(Continued on Page 2)**

Troy Pokswinski
Prepared by

Paul A. Bucich
Department Director



City Manager Review

AGENDA BILL
PAGE 2

DISCUSSION: (Continued from Page 1)

As discussed in the attached Scope of Work, the consultant will deliver up to 90% level plans, contract provisions, and estimates. Roadway section, intersection options, and landscaping treatments will be evaluated and be brought before Council with a recommended option.

The agreement includes a \$100,000 management reserve for the City to execute additional services under this contract which are currently unknown. Studies required for the grant application process will be released with the call for grant applications.

Studies for traffic and economic analysis related to the grant application are included within this scope of work of this contract. Additional compensation will need to be authorized with a supplemental agreement for the consultant to progress the design from 90% level to a bid set and to provide advertisement and bidding assistance.

FISCAL IMPACT: (Continued from Page 1)

Project funding is detailed below:

Funding Source	Design Phase	Right of Way Phase	Construction Phase	Funding Source Total
GO Bonds	\$1,300,000	\$0	\$4,464,970	\$5,764,970
City (General Fund)	\$300,000	\$30,000	\$1,400	\$331,400
City (REET)	\$100,000	\$30,000	\$8,000	\$138,000
City (SWM)	\$300,000	\$0	\$712,000	\$1,012,000
TBD \$20 Vehicle Licensing Fee (now unfunded)	\$0	\$0	\$327,400	\$327,400
Unfunded (DCIP/DCCA)	\$0	\$0	\$10,676,230	\$10,676,230
Total	\$2,000,000	\$60,000	\$16,190,000	\$18,250,000



SCOPE OF WORK

City of Lakewood Washington BLVD & Gravelly Lake Drive Improvements

PROJECT UNDERSTANDING

The City of Lakewood (CITY) will be pursuing a Department of Defense Office of Economic Adjustment grant to reconstruct all/or portions of Northgate Road SW, Edgewood Avenue SW, Vernon Avenue SW, Washington Boulevard SW and Gravelly Lake Drive SW. The approximate project limits are shown in Exhibit D. The improvements will include up to ten (10) new roundabouts for intersection control and the following improvements:

- Curb, gutter, and sidewalk (both sides).
- Bicycle lanes (both sides).
- Center medians and planted swales (where appropriate).
- Associated storm drainage (both sides).
- Roadway reconstruction.
- Street Lighting.

In order to provide the best chance to receive funding for construction for these planned improvements, the City has selected Parametrix and BCRA (along with other key teaming partners) to advance the design for the reconstruction of these roadways to “shovel ready” by June 30, 2020. It is anticipated that the City will be awarded the construction grant on or before September 30, 2020, and that Advertisement for Bids will be posted on or about October 1, 2020. Parametrix is the prime consultant and BCRA is a subconsultant to Parametrix for contracting purposes. However, Parametrix and BCRA have created an integrated team to deliver this project and therefore the work in this scope of services is a shared responsibility and references to either or both firms is made below using the word, CONSULTANT.

The scope of this agreement includes services for the preparation of Plans, Specifications, and an Opinion of Cost to a 90% design level. Future services of work may be awarded to prepare final contract documents and for assistance during construction.

The attached schedule of delivery is based on receipt of a written Notice to Proceed by the City on or before February 10, 2020. The following milestones are critical to meeting the project schedule:

- Notice to Proceed no later than February 10, 2020.
- Receive Gravelly Lake Drive Survey from City no later than February 28, 2020.
- Confirmation of Channelization, Typical Sections, and Roundabout Geometry no later than March 10, 2020.
- 60% Design no later than May 1, 2020 and receipt of all City comments no later than May 8, 2020.

TASK 1 – PLANS, SPECIFICATIONS & ESTIMATE

Subtask 01 – Project Management

Approach

- Conduct daily design team huddles and weekly meetings to ensure continued progress on deliverables.
- Facilitate and attend weekly management team meetings with key CONSULTANT staff (PM, Deputy PM, and City staff/leadership) to provide continuous communication between the CONSULTANT and City teams and to provide complete transparency in the design development and project management process.
- Conduct project kick-off workshop at the City with CONSULTANT, City Staff, and City Leadership to:
 - Establish the vision and finalize a project charter.
 - Confirm the project management strategy.
 - Confirm project schedule and key milestones.
 - Confirm communication strategy.
 - Confirm the basis for design (initial road sections, design vehicles, etc.).
- Provide monthly invoices and progress reports.
- Prepare quality assurance memorandum and audit quality control procedures for the project.
- Utilize cloud-based tools to monitor project progress, scope, schedule, and budget (Microsoft Teams and integrated tools).
- Proactively manage change to provide a clear understanding of impacts to scope, schedule, and budget when challenges arise throughout the course of the project.

Assumptions

- Weekly meetings are estimated at 1 hour each with up to 1 hour for preparation and follow-up communication. Weekly meetings will typically be held at Parametrix's Puyallup Office and will use available technology resources (Microsoft Teams, other) to reduce travel time costs, improve reliability of attendance, and to ensure overall efficiency.
- Kick-off/Charter meeting will be at the City of Lakewood.
- Quality Assurance Memorandum will be a short document identifying the plan (people, approach, and schedule) for quality control reviews of various deliverables for the project.
- Progress reports (total of 5 included in budget estimate) will include bulleted description of work completed during the billing period and identification of any issues related to project schedule and budget.
- The budget estimate provides for continuous project management from Notice to Proceed on February 10, 2020, through June 30, 2020. Work contracted and completed after June 30, 2020, will require a supplement for additional project management time.

Deliverables

- Kick-off meeting agenda and notes (Cloud documents on Teams Site).
- Management Team notes and action items list – Cloud documents on Teams Site.
- Monthly invoice and progress reports (total of 5) – PDF delivered electronically.

Subtask 02 – Traffic Operations Analysis

Approach

- Collect tube counts to verify peak volume periods, and quantify vehicle volumes, travel speeds, and classifications to support public outreach and inform conceptual design decisions. Tube counts will be collected at the following locations:
 - Gravelly Lake Drive SW between Nyznza Road SW and Veterans Drive SW.
 - Gravelly Lake Drive SW between Veterans Drive SW and Washington Boulevard SW
 - Washington Boulevard SW west of Gravelly Lake Drive SW
 - Washington Boulevard SW east of Edgewood Avenue SW
- Collect intersection turning movement counts to support public outreach and conceptual design decisions regarding potential consolidation of intersections, restriction of certain turning movements, and roundabout solutions. AM and PM peak intersection turning movement counts will be collected at the following intersections:
 - Gravelly Lake Drive SW & Nyanza Road SW
 - Gravelly Lake Drive SW & Veterans Drive SW
 - Gravelly Lake Drive SW & Washington Boulevard SW
 - Gravelly Lake Drive SW & Pacific Highway SW
 - Washington Boulevard SW & Interlaaken Drive SW
 - Washington Boulevard SW & 83rd Avenue SW
 - Washington Boulevard SW & Lake City Boulevard SW
 - Washington Boulevard SW & Alameda Avenue SW
 - Washington Boulevard SW & Vernon Avenue SW
 - Washington Boulevard SW & Edgewood Avenue SW
 - Washington Boulevard SW & Northgate Road SW
 - Vernon Avenue SW & Kenwood Drive SW
- Conduct field visits to support credibility during public outreach and inform conceptual design decisions. Special attention will be given to identification of residential driveway operations, business driveway operations, and movement of trucks, pedestrians and bicycles within the corridor.
- Collect and review the most recently available 5-year period of traffic crash data.

- Conduct level of service analysis for the intersections listed above.
- Prepare memorandum to document methods and results of data collection and summarize findings for level of service analysis. A qualitative assessment of anticipated impacts, or not, associated with intersection modifications considered during the Conceptual Design process will also be included.

Assumptions

- Tube counts will be collected for 7 consecutive days.
- Turn movement counts will be collected for the AM (6:30 – 8:30 AM) and PM (3:30 – 5:30 PM) periods (total of 4 hours) for 1 mid-week day (Tuesday – Thursday). All AM turn movement counts will be collected on the same day, and all PM turn movement counts will be collected on the same day. The AM turn movement counts do not need to be collected on the same day as the PM turn movement counts. In addition to the turn movement count summary sheets, raw video files will be provided.
- Level of service analysis will be completed for the AM and PM peak hours, for the existing year, future-year baseline, and future-year build conditions.
- Signal and Stop Controlled intersections will be analyzed using Synchro and Roundabout controlled intersections will be analyzed using Sidra.

Deliverables

- Tube Counts – Appendix in Traffic Memorandum.
- Turning Movement Count Summary Sheets – Appendix in Traffic Memorandum.
- Turning Movement Count Videos – Electronic format delivered electronically.
- Crash Data Summary – Included in Traffic Memorandum.
- Traffic Memorandum – Draft and Final PDFs delivered electronically.

Subtask 03 – Survey

Approach

- CONSULTANT will perform surveying work associated with topographic mapping of approximately 1,500 feet of Vernon Avenue SW, from Veteran’s Drive SW to Washington Boulevard SW. The extents of mapping for these segments will generally be full right-of-way (ROW) width. Information will also be gathered along intersecting side streets, approximately 50 feet beyond the ROW of Vernon Avenue SW. In addition, sufficient monuments will be recovered in order to show accurate ROW lines on the base map. Parcel lines in the immediate vicinity will also be shown per available records or Geographic Information System (GIS) data.
- CONSULTANT will obtain invert data on available storm and sewer structures encountered within the limits. In addition, conductible underground utilities will be picked up, based on paint markings provided by a private locate company subcontracted by CONSULTANT.
- CONSULTANT will perform surveying work associated with topographic mapping at key intersections along Washington Boulevard to supplement existing mapping provided by the City for the purposes of grading the intersections.

- CONSULTANT will combine mapping provided by the City with new survey data collected on Vernon Avenue SW and tie in mapping previously created for the Veteran's Drive SW project to create a seamless topographic map for use by the design team. CONSULTANT will collect sufficient topographic data to confirm that mapping data provided by various sources are using consistent datums (horizontal and vertical).
- CONSULTANT will locate monumentation throughout the project limits and will independently verify that the ROW limits shown in the various mapping sources is supported and consistent. CONSULTANT will directly coordinate with other surveyors that have completed mapping products to be used on the project.

Assumptions

- Survey will be developed using CONSULTANT's symbols, layers, and linetype standards.
- CONSULTANT survey crews will have unrestricted access to make measurements. CONSULTANT survey crews will knock on doors to request access where existing hedges, fencing, or yards extend private property owners' perceived "private" spaces into the CITY's ROW and use their judgement before entering such spaces if no one answers the door.
- CONSULTANT survey crews will work within the rights of RCW 47.01.170 to enter upon private land for the purpose of surveying for this project's purposes and will leave CONSULTANT standard door hanger notifications if desired by the CITY.
- Datums will be NAD 83/11 Horizontal, and NAVD 88 Vertical.

Deliverables

- Survey topographic base map with researched ROW lines – Civil 3D format delivered electronically.

Subtask 04 – Geotechnical

Approach

- CONSULTANT staff will coordinate the Geotechnical Subconsultant-prepared exploration plans with the Geotechnical Subconsultant and the CITY's Project Manager.
- CONSULTANT staff will review Geotechnical Subconsultant deliverables and coordinate similar reviews by CITY staff.

Assumptions

- See Subtask 04SC for scope of Geotechnical Subconsultant work.

Deliverables

- See Subtask 04SC for scope of Geotechnical Subconsultant deliverables.

Subtask 04SC – Geotechnical Engineering

Approach

- See attached scope of work from PanGeo Inc. (PanGeo) for the scope of the Geotechnical Subconsultant work.

Assumptions

- See attached scope of work from PanGeo for the assumptions of the Geotechnical Subconsultant work.

Deliverables

- See attached scope of work from PanGeo for the deliverables of the Geotechnical Subconsultant work.

Subtask 05 – Utility Coordination

Approach

- CONSULTANT will request and provide to the CITY if requested record information provided from the utilities known to be present in the corridor (UTILITIES).
- CONSULTANT will coordinate and facilitate a coordination meeting with the CITY and UTILITIES. CONSULTANT will provide a roll plot of utility mapping available at the time of the coordination meeting with known/potential conflicts noted.
- CONSULTANT will provide to the CITY and meeting attendees an electronic copy of the meeting sign-in sheet, meeting notes, and a copy of the roll plot with updates based on information provided at the coordination meeting.
- CONSULTANT will provide design information to UTILITIES as necessary to facilitate relocation of utility facilities.

Assumptions

- CONSULTANT budget estimate includes preparation for and attendance at:
 - One (1) quarterly utility coordination meeting at the CITY.
 - Up to three (3) additional coordination meetings with Lakewood Water District.
 - One (1) additional coordination meeting with Puget Sound Energy.
- The CITY will schedule utility coordination meetings and serve as the primary point of contact for UTILITIES that will be required to relocate facilities.

Deliverables

- Utility record information – PDF delivered electronically.
- Roll plot for utility coordination meeting – One hard copy.
- Utility coordination meeting sign-in sheet, meeting notes, and update roll plot – PDFs delivered electronically.

Subtask 06 – Public Outreach & Stakeholder Coordination

Approach

- CONSULTANT will work closely with the client to develop an outreach plan including media, collateral, identify key stakeholders, and plan public meetings that meet the project schedule.
 - Stakeholder Meeting and Coordination – Meet with neighborhood groups to share information about the project and to inform them of the improvements.

- One-on-One Meetings – Meet with City-identified and self-identified stakeholders to share information and listen to concerns regarding access.
- Graphics – Develop graphics and collateral to support public outreach.
- CONSULTANT will assist and re-purpose graphics and exhibits for use by the CITY in presenting the project to the City Council at a Study Session. CONSULTANT staff (up to two) may attend the Study Session to support CITY staff.

Assumptions

- The CITY will host all surveys and project websites.
- Collateral materials include renderings and exhibits that visually depict what the finished project may look like. The budget estimate shows the level of effort that is included in preparing renderings and exhibits. The CONSULTANT will inform the City when the budget is nearing exhaustion and will not complete additional effort under this task without prior authorization.
- CONSULTANT budget estimate includes preparation for and attendance of up to two (2) neighborhood meetings, up to two (2) one-on-one meetings and support for one (1) Council Study Session. Additional coordination will be provided upon request and approval of a supplement for the additional work.

Deliverables

- A narrative description of the outreach plan including specific collateral.
- Collateral material for stakeholder and one-on-one meetings.
- Stakeholder and one-on-one meeting notes, as applicable.

Subtask 07 – Environmental Approvals – NEPA and SEPA

Approach

CONSULTANT will complete documentation for environmental approvals related to potential federal funding and the Washington State Environmental Policy Act (SEPA).

- As an eligibility requirement for federal funding from the US Department of Defense (DOD) Office of Economic Adjustment (OEA), CONSULTANT will assemble documentation to meet DOD's National Policy Article II. Environmental National Policy Requirements including information to support a National Environmental Policy Act (NEPA) Documented Categorical Exclusion (DCE). It is currently anticipated that a DCE checklist covering typical environmental elements (e.g., biological resources, water quality, air quality, noise, environmental justice, land use, cultural/historical resources, etc.) will be required. CONSULTANT will coordinate with OEA to determine the types of documentation necessary, but it is anticipated that studies and discipline reports will be required for certain elements including but not limited to cultural and historical resources for Section 106 concurrence, hazardous materials, endangered species, and environmental justice.
- CONSULTANT will complete documentation necessary to support the City in complying with SEPA. A SEPA checklist will be completed for a SEPA determination which is anticipated to be a Determination of Non-Significance (DNS) or a Mitigated DNS. Alternatively, the CITY, as the SEPA agency, could also opt to adopt the NEPA documentation for the purposes of SEPA.

Assumptions

- A Documented Categorical Exclusion will be the appropriate level of documentation for NEPA; DOD OEA will be the NEPA lead agency (or designate such as Washington Military Department).
- A DNS or MDNS will be SEPA determination; the CITY will be the SEPA lead agency.
- No impacts to wetlands or waters will occur as part of the project.
- No endangered species or critical habitats are present within the area. A Biological Assessment will not be required. A brief Letter of No Effect may be prepared if required by OEA (included in budget).
- The project will not have impacts to 6(f) properties (parks or other locations that have received Land and Water Conservation Funding).
- The project will have no adverse effects to 4(f) properties. A technical report for 4(f) is not included in the scope and budget.
- A hazardous materials desktop and windshield survey will be completed for the entire alignment. Site investigations including soil sampling may be conducted at up to three locations. Sampling locations would be selected based on visual indication of contamination. Up to three borings would be performed at each site, with up to two samples analyzed from each bore. Up to one potential follow-up sample at each bore would be analyzed contingent upon initial sample results. Sampling will not occur below paved/impervious surfaces. Right-of-Entry (ROE)/site owner approval will be obtained by the City prior to site entry. A hazardous materials technical memorandum will be written to summarize any findings. A Phase I/II Environmental Site Assessment for ROW acquisition is not included in this scope.
- The project will have no significant impact to environmental justice populations.
- The project will have no adverse impacts to cultural or historical resources.
- No hot-spot or other air quality modeling will be required.
- The alignment improvements are not anticipated to require noise survey or modeling. However, the CONSULTANT will provide a noise survey and modeling if required for Grant/NEPA approval. If a noise study is necessary, a supplement will be prepared for review and approval by the City (anticipated budget for this work is included in the management reserve).
- This scope includes only NEPA and SEPA compliance. No environmental permits (federal, state, or local) will be acquired as part of this scope.
- Deliverables listed below will have no more than two rounds of review by the CITY and by OEA.

Deliverables

- Draft and Final DCE with related NEPA discipline reports. Note that Cultural and Historical Resources Survey and Report will be a subconsultant task.
- Draft and Final SEPA checklist (unless NEPA documentation used for SEPA).

Subtask 07SC – Environmental Subconsultants

Approach

- See attached scope of work from Cultural Resource Consultants for the scope of the cultural and historic resources Subconsultant work.

Assumptions

- See attached scope of work from Cultural Resource Consultants for the assumptions of the cultural and historic resources Subconsultant work.

Deliverables

- See attached scope of work from Cultural Resource Consultants for the deliverables of the cultural and historic resources Subconsultant work.

Subtask 08 – Preliminary Design (30%)

Approach

- CONSULTANT will advance to a 30% level of design the preferred concepts identified by the CITY.
- CONSULTANT will conduct a lighting analysis to identify required street light standards and fixture types, locations, and electrical service needs. The basis of this design and the results will be summarized in an Illumination Technical Memorandum for review and concurrence by the CITY.
- CONSULTANT will prepare a Design Memorandum to document the design guidelines that will be used for the project.
 - Key issues to be addressed in the Design Memorandum:
 - Project limits and funding.
 - Widths and surfacing for lanes, bike facilities, medians, sidewalk, etc.
 - Coordination with other planned projects and/or utility upgrades.
 - Initial stormwater management strategy and necessary mitigation to meet minimum requirements.
 - ROW needs.
 - Traffic forecast assumptions.
 - Traffic analysis (Traffic Memorandum by reference).
 - Access management.
 - The Design Memorandum will also address the following specific design criteria to be used as the basis for completing formal design of the Project:
 - Roadway classifications.
 - Posted speed.
 - Design speed.
 - Design vehicle.
 - Curb return radii.
 - Lane widths.
 - Planting strip widths.
 - Sidewalk widths.

- Clear zone.
- Illumination light levels and uniformity (Illumination Memorandum by reference).
- Documentation of roundabout (RBT) geometrics (speed curves, turning movements, etc.).
- CONSULTANT will prepare roll plots showing the 30% design including:
 - RBT geometrics.
 - Channelization.
 - Typical roadway sections.
 - Anticipated surfacing and material depth requirements.
 - The 30% design will include sufficient grading information at the Interlaaken Drive SW intersection to establish the project footprint in that location to confirm ROW needs and for use in preparing legal descriptions and exhibits for the purchase of ROW by the City.
- CONSULTANT will prepare an initial bid list to establish anticipated items of work for measurement and payment in the Contract.

Assumptions

- AGI32 Lighting analysis software will be used for lighting analysis.
- Design Memorandum will be produced to CONSULTANT document design standards and will be delivered electronically.
- Following completion of the DRAFT Preliminary Roll Plots, the CITY will meet with the CONSULTANT to conduct an “over-the-shoulder” (OTS) review. The OTS review is shown on the attached project schedule and is a critical milestone necessary for delivery of the shovel ready plans by June 30, 2020.
- The preliminary design roll plots will be used to confirm the scope of the road improvements and will be the basis for design refinement. Additional changes to roadway sections, alignment, profiles, and/or intersection control after completion of the 30% design may delay the project schedule.
- The design and subsequent plans will be produced using AutoCAD Civil 3D version 2018 or later.
- RBT geometry will meet National Cooperative Highway Research Program (NCHRP) Report 672: Roundabouts: An Informational Guide – Second Edition.

Deliverables

- Illumination Technical Memorandum – PDF delivered electronically.
- Design Memorandum –PDF delivered electronically.
- 30% Roll Plots – Draft and Final corrected versions delivered electronically.
- Initial bid item list.
- Legal Exhibits and Descriptions for ROW acquisition – PDF delivered electronically.

Subtask 09 – 60% Design

Approach

- CONSULTANT will advance the approved 30% design to a 60% level of design and will prepare 60% plans. The anticipated plan sheet index and number of sheets is included as Exhibit E. The sheet index was created based on similar projects recently completed in the City and the number of sheets is based on the anticipated project limits that include approximately 15,000 linear feet.
- CONSULTANT will prepare a DRAFT Stormwater Site Plan.
- CONSULTANT will prepare a 60% design level opinion of cost. The CONSULTANT and CITY will meet to establish the desired measurement and payment for each of the bid items that are anticipated to be included in the project. The CONSULTANT and CITY will also confirm the presentation and format of quantity tabulation supporting documentation.
- CONSULTANT will prepare legal descriptions and exhibits for use by the CITY for ROW acquisition.
- CONSULTANT will submit the 60% deliverables to the CITY. The CITY will review and return comments to the CONSULTANT within 1 week (5 working days) of receipt of the 60% deliverables. The CONSULTANT will incorporate the CITY's comments into the 90% deliverables.

Assumptions

- Due to the need to maintain project schedule, the CONSULTANT will not stop work while the CITY is reviewing the 60% submittal.
- Depending on the complexity of the comments from the CITY on the 60% submittal, a review meeting may be scheduled and attended by up to 10 CONSULTANT staff to ensure transparency.
- The budget estimate includes up to four (4) exhibits with corresponding legal descriptions.
- The 60% plans will be produced at half-size (11 inches by 17 inches).

Deliverables

- DRAFT Stormwater Site Plan – PDF delivered electronically.
- 60% Plans –PDF delivered electronically.
- 60% Opinion of Probable Cost – MS Excel format.

Subtask 10 – 90% Design

Approach

- CONSULTANT will advance the design to a 90% level and will prepare 90% plans. The anticipated plan sheet index and number of sheets is anticipated to remain the same as the 60% plans. The 90% plans will be developed for use in CONSTRUCTION after the final review by the CITY.
- CONSULTANT will prepare the FINAL Stormwater Site Plan.
- CONSULTANT will prepare a 90% design level opinion of cost. The CONSULTANT will provide DRAFT quantity tabulations to support the estimate in the format agreed to under Subtask 09.

- CONSULTANT will prepare Contract Specifications including legal boilerplate, technical specifications, and appendices that may include labor rates, studies, reports, or other information beneficial and/or necessary for completion of the work.
- CONSULTANT will submit the 90% deliverables to the CITY.

Assumptions

- Contract specifications will follow the 2020 WSDOT Standard Specifications for Road, Bridge, and Municipal Construction. All legal boilerplate and CITY general special provisions that are to be used in the project will be delivered to the CONSULTANT with the 60% review comments.
- The Contract Documents will be published using the CONSULTANT publication standards unless CITY standards are provided with the 60% review comments.

Deliverables

- FINAL Stormwater Site Plan – PDF delivered electronically.
- 90% Plans –PDF delivered electronically.
- 90% Opinion of Probable Cost – MS Excel format.
- 90% Contract Specifications – MS Word and PDF delivered electronically.
- Supporting documentation for quantity tabulations – format as agreed upon in Subtask 09.

END OF SCOPE OF SERVICES

Exhibit E SHEET INDEX

Sheet Index	Sheets
Cover, Vicinity Map, Sheet Index	2
Legend & Symbols	1
Horizontal Control Plan	4
Typical Roadway Sections (up to 6)	3
Demolition & TESC (aka Site Prep)	17
Roadway Plan & Profile	34
Roundabout Grading Plan	10
Splitter Island Grading Plan	20
Roundabout Details	20
Storm Drain Plan & Profile	34
Channelization Plan	18
Signing Plan	18
Landscape Plan	18
Irrigation Plan	18
Illumination Plan	19
Driveway Details	4
Misc. Details	4
Contingency Sheets (unspecified)	<u>6</u>
Totals	250

Project Budget Washington Blvd. & Gravelly Lake Drive																																	
						Rates with 179.52 OH + 30% Fixed Fee:																											
Phase	Task	Description	Total Cost	Labor Dollars	Labor Hours	Darby Watson	Austin Fisher	Happy Longfellow	Chuck Schott	Shane Phelps	Brian Woodburn	Dmitri V. Suslikov	Cameron Woodcock	Emily Ensrud	Jason Ceralde	Zach Johnson	Michael Hall	Josh Ahmann	Justina Everhart	Adam Romey	Trey Parry	Kevin House	Matt Craig	Eddie Soto	Kathy Taylor	Darren Sandeno	Jennifer Dvorak	Daryl Schneider	Pat Krych				
01		Engineering Design Services	\$1,937,728	\$1,453,089	8,701	104	395	160	284	88	142	788	564	540	360	100	40	90	136	54	32	247	552	75	496	420	300	300	540				
	01	Project Management & QA/QC	\$243,245	\$183,045	719	20	305	160	80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
		Weekly Management Team Meetings (21 weeks)			84		84																										
		Progress Reports (5 mos)			55		5																										
		Project Management - General (5 mos)			256	8	168																										
		Change Management			52	4	24																										
		Quality Assurance (plan and audits)			272	8	24	160	80																								
02		Traffic Operations Analysis	\$28,576	\$24,336	142	0	0	0	0	0	142	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
		Traffic Counts (12 TMC's, 4 Tubes)			8						8																						
		LOS Analysis (12 intersections, AM and PM peak)			50						50																						
		Field Visit (4 plus prep/travel)			10						10																						
		Crash Data (collect and review)			24						24																						
		Traffic Memo (draft and final - 3 pags, plus figures)			50						50																						
03		Survey	\$54,990	\$49,990	412	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
		RW Research and Resolution (Vernon)			106																												
		Topo (Vernon)			100																												
		Topo - Supplemental			156																												
		Prepare Base Map			50																												
04		Geotechnical	\$49,987	\$3,834	16	0	8	0	0	0	0	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
		Exploration Plan and Deliverables (PMX Hours only)			16		8				8																						
05		Utility Coordination	\$16,740	\$0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
		See BCRA Proposal			0																												
06		Public Outreach & Stakeholder Coord.	\$62,647	\$58,780	302	84	18	0	0	0	0	0	24	0	0	100	0	0	0	0	0	16	0	0	0	60	0	0	0				
		Stakeholder Coordination:																															
		Stakeholder Plan			26	16	2									4										4							
		Stakeholder Meetings (2)			60	24	4															16				16							
		One-on-One Meetings (2)			24	16	8																										
		Graphics Support			172	12							24			96											40						
		Council Study Session			20	16	4																										
07		Environmental Approvals/NEPA/SEPA	\$90,749	\$63,815	460	0	0	0	0	88	0	0	0	0	0	0	40	90	136	54	32	0	0	0	0	0	0	0	0				
		SEPA Checklist			24					4							4	16															
		NEPA CE Documentation			320					64							40	74	100	26													
		HazMat Recon & Field Write Up			100					8							8	20	28	32													
		Section 106 - Cultural/Historic			16					12							4																

Project Budget Washington Blvd. & Gravelly Lake Drive							Marcus Vasey	Don Proctor	Michael Tsun	Beth May	Jared Kemnitz	Steve Sharpe	Scott Spees	Josh Kelly	Heidi Still	Kassie Winters	Amanda Lucas				Cultural Resource Consultants										
						Engineer III	Senior Engineer	Senior Engineer	Engineer II	Survey Supervisor	Survey Technical Lead	Surveyor III	Surveyor II	Sr. Project Controls Specialist	Project Accountant	Word Processing Specialist	Design Subconsultant	Utility Locates Subcontractor	Geotechnical Subconsultant	Environmental Subconsultant	Economic Analysis Subconsultant	Traffic Count Subconsultant	Management Reserve Fund	Direct Expenses Mileage, Survey Equipment	Direct Expenses						
Rates with 179.52 OH + 30% Fixed Fee:						\$126.50	\$213.79	\$157.70	\$112.29	\$184.10	\$119.35	\$114.83	\$89.30	\$130.28	\$102.51	\$110.07															
Phase	Task	Description	Total Cost	Labor Dollars	Labor Hours																										
01		Engineering Design Services	\$1,937,728	\$1,453,089	8,701	540	120	260	260	80	176	100	100	164	20	74	304,329	2,500	44,720	13,150	0	4,240	100,000	14,700	1,000						
	01	Project Management & QA/QC	\$243,245	\$183,045	719	0	0	0	0	0	0	0	0	124	20	10	\$ 58,199.72	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,000.00	\$ 1,000.00						
		Weekly Management Team Meetings (21 weeks)			84												\$ 28,403.70						\$ 1,000.00	\$ 1,000.00							
		Progress Reports (5 mos)			55									20	20	10	\$ 2,671.94														
		Project Management - General (5 mos)			256									80			\$ 19,771.84														
		Change Management			52									24			\$ 1,433.68														
		Quality Assurance (plan and audits)			272												\$ 5,918.56														
	02	Traffic Operations Analysis	\$28,576	\$24,336	142	0	0	0	0	0	0	0	0	0	0	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4,240.00	\$ -	\$ -	\$ -						
		Traffic Counts (12 TMC's, 4 Tubes)			8																\$ 4,240.00										
		LOS Analysis (12 intersections, AM and PM peak)			50																										
		Field Visit (4 plus prep/travel)			10																										
		Crash Data (collect and review)			24																										
		Traffic Memo (draft and final - 3 pags, plus figures)			50																										
	03	Survey	\$54,990	\$49,990	412	0	0	0	0	64	136	100	100	12	0	0	\$ -	\$ 2,500.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,500.00	\$ -						
		RW Research and Resolution (Vernon)			106					40	24	20	20	2			\$ 2,500.00						\$ 2,500.00								
		Topo (Vernon)			100					4	32	30	30	4																	
		Topo - Supplemental			156					12	40	50	50	4																	
		Prepare Base Map			50					8	40			2																	
	04	Geotechnical	\$49,987	\$3,834	16	0	0	0	0	0	0	0	0	0	0	0	\$ 1,433.68	\$ -	\$ 44,720.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -						
		Exploration Plan and Deliverables (PMX Hours only)			16												\$ 1,433.68	\$ 44,720.00													
	05	Utility Coordination	\$16,740	\$0	0	0	0	0	0	0	0	0	0	0	0	0	\$ 16,740.42	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -						
		See BCRA Proposal			0												\$ 16,740.42														
	06	Public Outreach & Stakeholder Coord.	\$62,647	\$58,780	302	0	0	0	0	0	0	0	0	0	0	0	\$ 2,867.36	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,000.00	\$ -						
		Stakeholder Coordination:															\$ 2,150.52						\$ 1,000.00								
		Stakeholder Plan			26																										
		Stakeholder Meetings (2)			60																										
		One-on-One Meetings (2)			24																										
		Graphics Support			172																										
		Council Study Session			20												\$ 716.84														
	07	Environmental Approvals/NEPA/SEPA	\$90,749	\$63,815	460	0	0	0	0	0	0	0	0	0	0	20	\$ 3,584.20	\$ -	\$ -	\$ 13,150.00	\$ -	\$ -	\$ -	\$ 10,200.00	\$ -						
		SEPA Checklist			24																		\$ 10,200.00								
		NEPA CE Documentation			320											16	\$ 2,867.36														
		HazMat Recon & Field Write Up			100											4															
		Section 106 - Cultural/Historic			16												\$ 716.84			\$ 13,150.00											

Project Budget Washington Blvd. & Gravelly Lake Drive																																
Rates with 179.52 OH + 30% Fixed Fee:					\$295.99	\$299.16	\$303.14	\$225.92	\$191.59	\$171.38	\$180.05	\$137.95	\$67.63	\$105.64	\$88.28	\$150.95	\$149.50	\$107.16	\$130.74	\$113.35	\$259.19	\$154.11	\$170.02	\$160.39	\$204.10	\$223.23	\$175.99	\$192.06				
08	Preliminary Design (30%)			\$195,822	\$178,905	989	0	16	0	0	0	0	240	0	60	0	0	0	0	0	0	121	232	60	116	40	100	0	0			
		Preliminary Roll Plots					848		4				184		60							100	200	60	100	40	100					
		Design Memorandum					40		4				24									8										
		OTS #1 - 30% Design					48		8				16									8	16									
		Revised/Updated Preliminary Roll Plots					53						16									5	16		16							
09	60% Design			\$673,019	\$539,928	3,469	0	16	0	120	0	0	360	360	300	200	0	0	0	0	0	30	200	15	200	160	120	200	360			
		Draft Stormwater Site Plan					0																									
		60% Plans			Hrs/Sheet	14.7	3,169			120			280	360	300	200						30	200	15	200	160	60	200	280			
		60% Opinion of Cost					240		16				80														60		80			
		Right of Way Acquisition Legal Exhbits					60																									
10	90% Design			\$421,951	\$350,457	2,192	0	32	0	84	0	0	180	180	180	160			0	0	0	80	120	0	180	160	80	100	180			
		Final Stormwater Site Plan					0																									
		90% Plans			Hrs/Sheet	7.6	1,648		8		60		60	180	180	160						40	80		180	80		60	140			
		90% Contract Specifications					296		16		24		80									40				40	40					
		90% Opinion of Cost					248		8				40										40			40	40	40	40			
MR	Management Reserve Fund			\$100,000	\$0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
		Initial Management Reserve Allocation					0																									

Project Budget Washington Blvd. & Gravelly Lake Drive					Marcus Vasey		Don Proctor		Michael Tsun		Beth May		Jared Kemnitz		Steve Sharpe		Scott Spees		Josh Kelly		Heidi Still		Kassie Winters		Amanda Lucas		BCRA		APS		Pan Geo		Cultural Resource Consultants		Leland Consulting		Idax		Mngt. Reserve		Parametrix		BCRA	
					Engineer III		Senior Engineer		Senior Engineer		Engineer II		Survey Supervisor		Survey Technical Lead		Surveyor III		Surveyor II		Sr. Project Controls Specialist		Project Accountant		Word Processing Specialist		Design Subconsultant		Utility Locates Subcontractor		Geotechnical Subconsultant		Environmental Subconsultant		Economic Analysis Subconsultant		Traffic Count Subconsultant		Management Reserve Fund		Direct Expenses Mileage, Survey Equipment		Direct Expenses	
					Rates with 179.52 OH + 30% Fixed Fee:		\$126.50		\$213.79		\$157.70		\$112.29		\$184.10		\$119.35		\$114.83		\$89.30		\$130.28		\$102.51		\$110.07																	
	08	Preliminary Design (30%)	\$195,822	\$178,905	989	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	\$ 16,917.28	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -		
		Preliminary Roll Plots			848																		\$ 1,433.68																					
		Design Memorandum			40																	4	\$ 11,275.24																					
		OTS #1 - 30% Design			48																		\$ 3,491.52																					
		Revised/Updated Preliminary Roll Plots			53																		\$ 716.84																					
	09	60% Design	\$673,019	\$539,928	3,469	360	80	160	160	16	40	0	0	12	0	0	\$ 133,091.14	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
		Draft Stormwater Site Plan			0												\$ 26,419.96																											
		60% Plans	Hrs/Sheet	14.7	3,169	360	80	160	160							4	\$ 94,477.86																											
		60% Opinion of Cost			240											4	\$ 11,476.48																											
		Right of Way Acquisition Legal Exhbits			60					16	40					4	\$ 716.84																											
	10	90% Design	\$421,951	\$350,457	2,192	180	40	100	100	0	0	0	0	16	0	40	\$ 71,494.70	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
		Final Stormwater Site Plan			0												\$ 13,873.52																											
		90% Plans	Hrs/Sheet	7.6	1,648	180	40	100	100								\$ 39,873.50																											
		90% Contract Specifications			296											16	\$ 10,498.48																											
		90% Opinion of Cost			248												\$ 7,249.20																											
	MR	Management Reserve Fund	\$100,000	\$0	0	0	0	0	0	0	0	0	0	0	0	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
		Initial Management Reserve Allocation			0																																							