



## INFORMATIONAL MEMORANDUM

TO: Transportation and Infrastructure Committee  
FROM: Henry Hash, Public Works Director *H.H.*  
BY: Ryan Larson, Senior Program Manager  
CC: Mayor Allan Ekberg  
DATE: February 28, 2020  
SUBJECT: Surface Water Fund - 2020 Annual Small Drainage Program  
Project No. 92041201  
Design Consultant Selection and Agreement

### ISSUE

Approve a contract with KPG, Inc. (KPG) to design the 2020 Annual Small Drainage Program.

### BACKGROUND

The Annual Small Drainage Program repairs and installs needed surface water infrastructure that is identified through maintenance activities as well as citizen complaints. For the 2020 Annual Small Drainage Program, staff is proposing the design of six projects for possible construction in 2020.

### DISCUSSION

The current MRSC Consultant Roster was reviewed and three firms were short-listed to provide design services. The firms were KPG, PACE, and Otak. The Summary of Qualifications for project design and construction management were evaluated from each firm and KPG was selected as the firm that best met the requirements. KPG has designed the Annual Small Drainage Program since 1991 and Public Works continues to be very satisfied with their work. KPG also worked on the 2019 Annual Small Drainage Program and is knowledgeable of the sites.

Public Works staff reviewed the list of known system deficiencies and compiled a list of six projects for design in 2020. One of the projects was substantially designed in 2018, but not constructed due to permitting. The design projects are:

1. 40<sup>th</sup> Ave S. Drainage System
2. Klickitat Dr. at 53<sup>rd</sup> Ave. S. (Replace Pipe)
3. S. 124<sup>th</sup> St. from 42<sup>nd</sup> Ave to 45<sup>th</sup> Ave
4. 57<sup>th</sup> Ave S at Golden Nugget (Rebuild CB)
5. 42<sup>nd</sup> Ave S. Drainage Structure - Permitting
6. 48<sup>th</sup> Ave S. from S 124<sup>th</sup> to S. 122<sup>nd</sup>

### FINANCIAL IMPACT

KPG's proposed fee for the 2020 Small Drainage Program's design contract is \$92,472.00 and the 2020 design budget is \$80,000. It is proposed that the funding shortfall of \$12,472.00 come from the available construction funds.

### RECOMMENDATION

Council is being asked to approve the design consultant agreement with KPG, Inc. in the amount of \$92,472.00 for the 2020 Small Drainage Program and consider this item on the Consent Agenda at the March 16, 2020 Regular Meeting.

### ATTACHMENTS

- Qualification Review
- Page 88, 2019 CIP
- KPG Consultant Agreement
- 2020 Small Drainage Project List

<b>2020 Small Drainage - Qualification Review</b> (1= Top Choice, 2 = Second Choice, 3 = Third Choice)	<b>KPG</b>	<b>PACE</b>	<b>OTAK</b>
<b>Relevant Project Experience</b>	1	2	2
<b>Experience with HPA/Creek Work</b>	1	2	1
<b>Small Scale Projects</b>	1	1	2
<b>Ability to keep project on schedule and within Budget</b>	1	1	2
<b>Project Team Availability of Key Team Members</b>	2	2	2
<b>Knowledge of City , Plan Process, Drainage System</b>	1	2	2
<b>Construction Engineering Experience</b>	1	1	1
<b>TOTALS</b> (Lowest Total Score is best)	8	11	12
<b>Firm Rank</b> (1 - 3, Lowest = Best)	1	2	3

## CITY OF TUKWILA CAPITAL PROJECT SUMMARY

2019 to 2024

**PROJECT:** Annual Small Drainage Program

Project No. 9XX41201

**DESCRIPTION:** Select, design, and construct small drainage projects throughout the City.

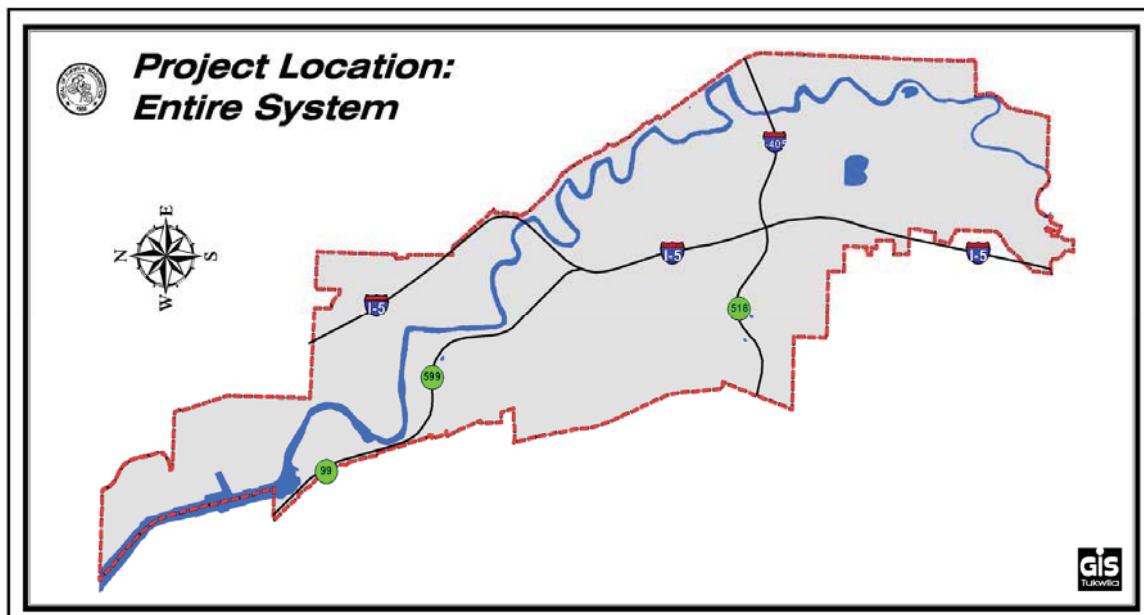
**JUSTIFICATION:** Provide drainage corrections for existing/ongoing drainage problems throughout the City, including culvert replacements, drain extensions, and pavement upgrades.

**STATUS:** Projects for this annual program are taken from Small Drainage Project List.

**MAINT. IMPACT:** Reduces maintenance.

**COMMENT:** Ongoing project, only one year shown in first column. Construction expenses may occur over two calendar years.

FINANCIAL (in \$000's)	Through 2017	Estimated 2018	2019	2020	2021	2022	2023	2024	BEYOND	TOTAL
<b>EXPENSES</b>										
Design	50	80	80	80	80	80	80	80	80	690
Streamgages/Monitor	31	35	35	35	36	36	36	36	40	320
Const. Mgmt.	90	45	80	80	80	80	80	80	80	695
Construction	448	600	515	515	514	513	514	514	513	4,646
<b>TOTAL EXPENSES</b>	<b>619</b>	<b>760</b>	<b>710</b>	<b>710</b>	<b>710</b>	<b>709</b>	<b>710</b>	<b>710</b>	<b>713</b>	<b>6,351</b>
<b>FUND SOURCES</b>										
Awarded Grant										0
Proposed Grant		65								65
Mitigation Actual										0
Mitigation Expected										0
Utility Revenue	619	695	710	710	710	709	710	710	713	6,286
<b>TOTAL SOURCES</b>	<b>619</b>	<b>760</b>	<b>710</b>	<b>710</b>	<b>710</b>	<b>709</b>	<b>710</b>	<b>710</b>	<b>713</b>	<b>6,351</b>





**CONSULTANT AGREEMENT FOR  
ENGINEERING SERVICES**

**THIS AGREEMENT** is entered into between the City of Tukwila, Washington, hereinafter referred to as “the City”, and KPG, Inc., hereinafter referred to as “the Consultant”, in consideration of the mutual benefits, terms, and conditions hereinafter specified.

1. **Project Designation.** The Consultant is retained by the City to perform engineering services in connection with the project titled ‘2020 Small Drainage Program’.
2. **Scope of Services.** The Consultant agrees to perform the services, identified on Exhibit “A” attached hereto, including the provision of all labor, materials, equipment and supplies.
3. **Duration of Agreement; Time for Performance.** This Agreement shall be in full force and effect for a period commencing upon execution and ending December 31, 2020, unless sooner terminated under the provisions hereinafter specified. Work under this Agreement shall commence upon written notice by the City to the Consultant to proceed. The Consultant shall perform all services and provide all work product required pursuant to this Agreement no later than December 31, 2020 unless an extension of such time is granted in writing by the City.
4. **Payment.** The Consultant shall be paid by the City for completed work and for services rendered under this Agreement as follows:
  - A. Payment for the work provided by the Consultant shall be made as provided on Exhibit “B” attached hereto, provided that the total amount of payment to the Consultant shall not exceed \$92,472.00 without express written modification of the Agreement signed by the City.
  - B. The Consultant may submit vouchers to the City once per month during the progress of the work for partial payment for that portion of the project completed to date. Such vouchers will be checked by the City and, upon approval thereof, payment shall be made to the Consultant in the amount approved.
  - C. Final payment of any balance due the Consultant of the total contract price earned will be made promptly upon its ascertainment and verification by the City after the completion of the work under this Agreement and its acceptance by the City.
  - D. Payment as provided in this section shall be full compensation for work performed, services rendered, and for all materials, supplies, equipment and incidentals necessary to complete the work.
  - E. The Consultant’s records and accounts pertaining to this Agreement are to be kept available for inspection by representatives of the City and the state of Washington for a period of three (3) years after final payments. Copies shall be made available upon request.

5. **Ownership and Use of Documents.** All documents, drawings, specifications and other materials produced by the Consultant in connection with the services rendered under this Agreement shall be the property of the City whether the project for which they are made is executed or not. The Consultant shall be permitted to retain copies, including reproducible copies, of drawings and specifications for information, reference and use in connection with the Consultant's endeavors. The Consultant shall not be responsible for any use of the said documents, drawings, specifications or other materials by the City on any project other than the project specified in this Agreement.
6. **Compliance with Laws.** The Consultant shall, in performing the services contemplated by this Agreement, faithfully observe and comply with all federal, state, and local laws, ordinances and regulations, applicable to the services rendered under this Agreement.
7. **Indemnification.** The Consultant shall defend, indemnify and hold the City, its officers, officials, employees and volunteers harmless from any and all claims, injuries, damages, losses or suits including attorney fees, arising out of or resulting from the acts, errors or omissions of the Consultant in performance of this Agreement, except for injuries and damages caused by the sole negligence of the City.

Should a court of competent jurisdiction determine that this Agreement is subject to RCW 4.24.115, then, in the event of liability for damages arising out of bodily injury to persons or damages to property caused by or resulting from the concurrent negligence of the Consultant and the City, its officers, officials, employees, and volunteers, the Consultant's liability hereunder shall be only to the extent of the Consultant's negligence. It is further specifically and expressly understood that the indemnification provided herein constitutes the Consultant's waiver of immunity under Industrial Insurance, Title 51 RCW, solely for the purposes of this indemnification. This waiver has been mutually negotiated by the parties. The provisions of this section shall survive the expiration or termination of this Agreement.

8. **Insurance.** The Consultant shall procure and maintain for the duration of the Agreement, insurance against claims for injuries to persons or damage to property which may arise from or in connection with the performance of the work hereunder by the Consultant, its agents, representatives, or employees. Consultant's maintenance of insurance as required by the agreement shall not be construed to limit the liability of the Consultant to the coverage provided by such insurance, or otherwise limit the City's recourse to any remedy available at law or in equity.

A. **Minimum Amounts and Scope of Insurance.** Consultant shall obtain insurance of the types and with the limits described below:

1. **Automobile Liability** insurance with a minimum combined single limit for bodily injury and property damage of \$1,000,000 per accident. Automobile Liability insurance shall cover all owned, non-owned, hired and leased vehicles. Coverage shall be written on Insurance Services Office (ISO) form CA 00 01 or a substitute form providing equivalent liability coverage. If necessary, the policy shall be endorsed to provide contractual liability coverage.

2. Commercial General Liability insurance with limits no less than \$1,000,000 each occurrence, \$2,000,000 general aggregate. Commercial General Liability insurance shall be written on ISO occurrence form CG 00 01 and shall cover liability arising from premises, operations, independent contractors and personal injury and advertising injury. The City shall be named as an insured under the Consultant's Commercial General Liability insurance policy with respect to the work performed for the City.
  3. Workers' Compensation coverage as required by the Industrial Insurance laws of the State of Washington.
  4. Professional Liability with limits no less than \$1,000,000 per claim and \$1,000,000 policy aggregate limit. Professional Liability insurance shall be appropriate to the Consultant's profession.
- B. Other Insurance Provision.** The Consultant's Automobile Liability and Commercial General Liability insurance policies are to contain, or be endorsed to contain that they shall be primary insurance with respect to the City. Any Insurance, self-insurance, or insurance pool coverage maintained by the City shall be excess of the Consultant's insurance and shall not be contributed or combined with it.
- C. Acceptability of Insurers.** Insurance is to be placed with insurers with a current A.M. Best rating of not less than A:VII.
- D. Verification of Coverage.** Consultant shall furnish the City with original certificates and a copy of the amendatory endorsements, including but not necessarily limited to the additional insured endorsement, evidencing the insurance requirements of the Consultant before commencement of the work. Certificates of coverage and endorsements as required by this section shall be delivered to the City within fifteen (15) days of execution of this Agreement.
- E. Notice of Cancellation.** The Consultant shall provide the City with written notice of any policy cancellation, within two business days of their receipt of such notice.
- F. Failure to Maintain Insurance.** Failure on the part of the Consultant to maintain the insurance as required shall constitute a material breach of contract, upon which the City may, after giving five business days notice to the Consultant to correct the breach, immediately terminate the contract or, at its discretion, procure or renew such insurance and pay any and all premiums in connection therewith, with any sums so expended to be repaid to the City on demand, or at the sole discretion of the City, offset against funds due the Consultant from the City.
9. **Independent Contractor.** The Consultant and the City agree that the Consultant is an independent contractor with respect to the services provided pursuant to this Agreement. Nothing in this Agreement shall be considered to create the relationship of employer and employee between the parties hereto. Neither the Consultant nor any employee of the Consultant shall be entitled to any benefits accorded City employees by virtue of the services provided under this Agreement. The City shall not be responsible for withholding or otherwise deducting federal income tax or social security or for contributing to the state industrial insurance program, otherwise assuming the duties of an employer with respect to the Consultant, or any employee of the Consultant.

10. **Covenant Against Contingent Fees.** The Consultant warrants that he has not employed or retained any company or person, other than a bonafide employee working solely for the Consultant, to solicit or secure this contract, and that he has not paid or agreed to pay any company or person, other than a bonafide employee working solely for the Consultant, any fee, commission, percentage, brokerage fee, gifts, or any other consideration contingent upon or resulting from the award or making of this contract. For breach or violation of this warrant, the City shall have the right to annul this contract without liability, or in its discretion to deduct from the contract price or consideration, or otherwise recover, the full amount of such fee, commission, percentage, brokerage fee, gift, or contingent fee.
11. **Discrimination Prohibited.** The Consultant, with regard to the work performed by it under this Agreement, will not discriminate on the grounds of race, religion, creed, color, national origin, age, veteran status, sex, sexual orientation, gender identity, marital status, political affiliation or the presence of any disability in the selection and retention of employees or procurement of materials or supplies.
12. **Assignment.** The Consultant shall not sublet or assign any of the services covered by this Agreement without the express written consent of the City.
13. **Non-Waiver.** Waiver by the City of any provision of this Agreement or any time limitation provided for in this Agreement shall not constitute a waiver of any other provision.
14. **Termination.**
  - A. The City reserves the right to terminate this Agreement at any time by giving ten (10) days written notice to the Consultant.
  - B. In the event of the death of a member, partner or officer of the Consultant, or any of its supervisory personnel assigned to the project, the surviving members of the Consultant hereby agree to complete the work under the terms of this Agreement, if requested to do so by the City. This section shall not be a bar to renegotiations of this Agreement between surviving members of the Consultant and the City, if the City so chooses.
15. **Applicable Law; Venue; Attorney's Fees.** This Agreement shall be subject to, and the Consultant shall at all times comply with, all applicable federal, state and local laws, regulations, and rules, including the provisions of the City of Tukwila Municipal Code and ordinances of the City of Tukwila. In the event any suit, arbitration, or other proceeding is instituted to enforce any term of this Agreement, the parties specifically understand and agree that venue shall be properly laid in King County, Washington. The prevailing party in any such action shall be entitled to its attorney's fees and costs of suit. Venue for any action arising from or related to this Agreement shall be exclusively in King County Superior Court.
16. **Severability and Survival.** If any term, condition or provision of this Agreement is declared void or unenforceable or limited in its application or effect, such event shall not affect any other provisions hereof and all other provisions shall remain fully enforceable. The provisions of this Agreement, which by their sense and context are reasonably intended to survive the completion, expiration or cancellation of this Agreement, shall survive termination of this Agreement.

17. **Notices.** Notices to the City of Tukwila shall be sent to the following address:

City Clerk  
City of Tukwila  
6200 Southcenter Boulevard  
Tukwila, WA 98188

Notices to Consultant shall be sent to the following address:

KPG, P.S.  
3131 Elliott Avenue, Suite 400  
Seattle, WA 98121

18. **Entire Agreement; Modification.** This Agreement, together with attachments or addenda, represents the entire and integrated Agreement between the City and the Consultant and supersedes all prior negotiations, representations, or agreements written or oral. No amendment or modification of this Agreement shall be of any force or effect unless it is in writing and signed by the parties.

DATED this \_\_\_\_\_ day of \_\_\_\_\_, 2020.

CITY OF TUKWILA

CONSULTANT

\_\_\_\_\_  
Mayor, Allan Ekberg

By:\_\_\_\_\_

Printed Name:Nelson Davis, KPG

Title: Principal

Attest/Authenticated:

Approved as to Form:

\_\_\_\_\_  
City Clerk, Christy O’Flaherty

\_\_\_\_\_  
Office of the City Attorney



## EXHIBIT A

### City of Tukwila

### 2020 Small Drainage Program

### Scope of Work

February 13, 2020

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## PROJECT DESCRIPTION

The Consultant shall prepare final Plans, Specifications and Estimates for the 2020 Small Drainage Program. The project will include the following sites:

Site 1: 13601 40<sup>th</sup> Ave S Drainage System

*Replace and install new storm drain system approximately 90' of 18" CMP and 80' of 12" concrete pipe along with three drainage structures. Tie into the existing system at 40<sup>th</sup> Ave S. This site may require an HPA, SEPA and City of Tukwila Special Permissions Permit with project limits within Type 3 Watercourse Buffer.*

Site 2: Klickitat Dr. @ 53<sup>rd</sup> Ave S Drainage System

*Replace and install new storm drain system approximately 180' of 18" CMP.. Tie into the existing system along Klickitat Dr. This site may require an HPA, SEPA and City of Tukwila Special Permissions Permit with project limits within Type 3 Watercourse Buffer.*

Site 3: S 124<sup>th</sup> St from 42<sup>nd</sup> Ave to 45<sup>th</sup> Ave Drainage System

*Install storm drain system approximately 750' on the northside of S 124<sup>th</sup> St. Tie into the existing system.*

Sites 4: 57<sup>th</sup> Ave S @ Golden Nugget Drainage Structure

*Bring Type II Manhole up to grade by removing approximately 8' of existing 24" riser rings. Add 48" barrel sections and new manhole ring and cover.*

Sites 5: 42<sup>nd</sup> Ave S Drainage Structure

*Install a new drainage structure with bird cage inlet to reduce plugging and overflows onto 42<sup>nd</sup> Ave S. This site may require an HPA and SEPA. Project was designed as part of the 2019 Small Drainage Program, but there were insufficient funds for construction and permitting had not been completed.*

Sites 6: 48<sup>th</sup> Ave S from S 124<sup>th</sup> St to S 122<sup>nd</sup> St Drainage System

*Install storm drain system approximately 820' starting the northside of S 124<sup>th</sup> St and down 48<sup>th</sup> Ave S. Tie into the existing system along S 122<sup>nd</sup> St.*

The Consultant shall provide necessary surveying, project design, quantity and cost estimates, and utility coordination required to complete final bid documents. It is anticipated that sites will be bid as a single bid package for the 2020 Small Drainage Program as budget or other considerations allow.

The Consultant shall provide surveyed base maps with horizontal utility locations, or base maps created from field measurements, ortho-photography, and GIS data as necessary for each site. If necessary, surveyed base maps will include right-of-way line work based on available public records. Project horizontal and vertical datum will be NAD83/2011 and NAVD88 respectively on all sites.

The Consultant shall prepare an easement document, legal description, and exhibit for Site 5. The City will perform negotiations to obtain signature and record the easement.

The Consultant shall prepare a SEPA checklist, HPA application, and Special Permissions Permit where required. No additional permits are anticipated.

It is the Consultants understanding that none of the 2020 Small Drainage Program sites require biological assessments, additional permits beyond those listed, wetland delineations, geotechnical review, detention facilities, or water quality treatment facilities. The budget assumes a straightforward approval process with no special studies or extensive coordination. Aside from Site 5, all work will be completed within City rights of way or easements and no easement acquisition is anticipated.

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## **SCOPE OF WORK**

### **TASK 1 – 2020 Small Drainage Program Design**

#### **1.1 MANAGEMENT/COORDINATION/ADMINISTRATION**

- The Consultant shall provide continuous project management and administration for the duration of the Project. (Estimate 8 months).
- Hold project coordination meetings with the City to update progress and review submittals. Assume (3) meetings.
- The Consultant shall provide monthly status reports and billings.
- The Consultant shall provide independent QA/QC reviews by senior in-house staff of all deliverables prior to submittal to the City.

1.2 Previously obtained mapping for Site 5 will be utilized. The Consultant shall prepare a topographic base map for Sites 1,2,3,4, and 6.

1.3 For Site 1, the Consultant shall prepare 50%, 90%, and final design.

1.4 For Site 2, the Consultant shall prepare 50%, 90%, and final design.

1.5 For Site 3, the Consultant shall prepare 50%, 90%, and final design.

1.6 For Site 4, the Consultant shall prepare 50%, 90%, and final design.

1.7 The Consultant has previously prepared designs for Site 5. Minor updates and revisions are anticipated after WDFW permitting review and will be included in the Bid Documents.

1.8 For Site 6, the Consultant shall prepare 50%, 90%, and final design.

- 1.9 The Consultant shall prepare 50% & 90% plan review submittals for all sites.
- 1.10 The Consultant shall prepare a SEPA checklist for the 2020 Small Drainage Program containing information on all sites requiring SEPA review. This is anticipated to be Sites 1,2, and 5. Site 5 draft SEPA was previously prepared, but not submitted during the 2019 SDP Design.
- 1.11 The Consultant shall prepare HPA Permit Application and coordinate with Washington Department of Fish and Wildlife to obtain HPA where required. This is anticipated to be Sites 1,2, and 5.
- 1.12 The Consultant shall prepare City Special Permissions Permit for the 2020 Small Drainage Program containing information on all sites requiring Special City review. This is anticipated to be Sites 1 and 2 where project site location is within existing Type 3 watercourse Stream buffer.
- 1.13 The Consultant shall prepare the Contract Specification per 2020 WSDOT Standard Specifications for the 90% Review Submittal and the Bid Documents.
- 1.14 The Consultant shall calculate quantities and prepare Engineers Estimate of Probable Construction Cost for each review submittal and the Bid Documents.
- 1.15 The Consultant shall distribute 50% review submittals to franchise utility owners to identify potential conflicts within the Project limits.
- 1.16 The Consultant shall prepare final Bid Documents for the proposed improvements including the following:
  - Plans shall be prepared with such provisions in such detail as to permit field layout and construction within a degree of accuracy acceptable to the City and per industry standards.
  - Details will be prepared for items not available as standard details from the City, State, or WSDOT standard drawings.
  - The plans shall illustrate complete details of construction of the proposed improvements including limits of construction and removals, proposed invert elevations, rim elevations and required construction materials.
  - Drainage designs will be determined through consultation with City staff and from previous experience rather than detailed basin modeling.
- 1.17 The Consultant shall provide bid period services to include responses to bidder inquiries, preparation of addenda, attendance at bid opening, preparation of bid tabulation, and recommendation to award or reject the apparent low bidder. The budget assumes a straight forward review process with the low bidder receiving the contract award.

- *Assumptions*

- No federal funding is anticipated for the Project engineering or construction.
- No utility upgrades are anticipated in the project design.
- Drainage & Water Quality Reports will not be required.
- Geotechnical Engineering services will not be required.

- Environmental Documentation will not be required.
  - Potholing of existing underground utilities will not be required.
  - City to obtain easement approval and record easement for Site 5.
  - The \$150 processing fee for the HPA application will be paid by the Consultant and reimbursed by the City through the invoice process.
  - Any fees for BXWA.com will be paid by the City.
- *Deliverables*
    - SEPA Checklist for Sites 1,2, and 5.
    - HPA Online Application for Sites 1,2, and 5.
    - 50% review submittal with Plans and Estimate (pdf).
    - 90% review submittal with Plans, Specifications, and Estimate (6 sets + pdf).
    - Bid Documents and Engineer's Estimate (6 sets ½ size plans, specs, and estimate)
    - Coordinate upload of Plans and Specifications to Builders Exchange.

### **Additional Services**

The City of Tukwila may require other services of the consultant. These services could include additional design, right of way, utility potholing, environmental documentation, construction phase services, or other work tasks not included in the scope of work. At the time these services are required, the Consultant will provide the City with a detailed scope of work and an hour and fee estimate. The Consultant will not proceed with the work until the City has authorized the work and issued a Notice to Proceed.

Client City of Tukwila  
 Project 2020 Small Drainage Program  
 KPG PROJECT NUMBER: 20025  
 DATE: 2/10/2020

Task No.	Task Description	Labor Hour Estimate											Total Hours and Labor Fee Estimate by Task		
		Principal	Engineering Mgr	Sr. Engineer	Urban Design Mgr	Project Engineer	Project Engineer	Project Land. Arch.	Design Engineer	Sr. Admin	Engineering Technician	Survey Crew II	Office Admin	Hours	Fee
			Sr. Const Mgr		Senior Project Engineer	Project Surveyor		Sr. CAD Technician		CAD Technician		Transportation Planner	Landscaper Technician		
		232	210	184	166	140	128	117	115	100	216	92			
<b>Task 1 - 2020 Small Drainage Program Design</b>															
1.1	Management / Coordination / Administration	2	2	4					4			8	20	\$ 2,816.00	
1.2	Survey & Base Maps		4			16		40			40		100	\$ 16,400.00	
1.3	Site 1 - 40th Ave S Design		2	4		24		16					54	\$ 7,188.00	
1.4	Site 2 - Kicklat @ 53rd Ave S Design		2	4		24		16					54	\$ 7,188.00	
1.5	Site 3 - S 124th St Design		2	4		32		20					66	\$ 8,776.00	
1.6	Site 4 - Golden Nugget Design		2	4		8		8					26	\$ 3,612.00	
1.7	Site 5 - 42nd Ave review minor updates					4							4	\$ 560.00	
1.8	Site 6 - 48th Ave S Design		2	4		32		20					66	\$ 8,776.00	
1.9	50%, 90%, and Bid Submittals					16		22					58	\$ 6,814.00	
1.10	Prepare SEPA Checklist; Sites 1.2					16							24	\$ 3,040.00	
1.11	Prepare HPA / WDFW coordination; Sites 1.2, 5					24							32	\$ 4,160.00	
1.12	Prepare City Special Permit; Sites 1.2					16							20	\$ 2,640.00	
1.13	Prepare Specifications	2	2	4	20	8		10				4	28	\$ 4,520.00	
1.14	Quantity and Cost Estimating	2	2	4		8		4				2	30	\$ 4,310.00	
1.15	Utility Coordination		2	2	8	8		4				4	14	\$ 1,772.00	
1.16	Finalize Bid Documents		2	2		4		4				2	10	\$ 1,228.00	
1.17	Bid Period Services				28	240	0	164	4		40	18	642	\$ 88,672.00	
<b>Task Total</b>		<b>6</b>	<b>20</b>	<b>32</b>	<b>28</b>	<b>240</b>	<b>0</b>	<b>164</b>	<b>4</b>	<b>90</b>	<b>40</b>	<b>18</b>	<b>642</b>	<b>\$ 88,672.00</b>	
<b>Total Labor Hours and Fee</b>		<b>6</b>	<b>20</b>	<b>32</b>	<b>28</b>	<b>240</b>	<b>0</b>	<b>164</b>	<b>4</b>	<b>90</b>	<b>40</b>	<b>18</b>	<b>642</b>	<b>\$ 88,672.00</b>	
<b>Reimbursable Direct Non-Salary Costs</b>															
												Mileage at current IRS rate	\$ 300.00		
												Utility Locate Service	\$ 2,500.00		
												HPA Application Fee	\$ 200.00		
												Reproduction Allowance	\$ 800.00		
												<b>Total Reimbursable Expense</b>	<b>\$ 3,800.00</b>		
												<b>Total Estimated Budget</b>	<b>\$ 92,472.00</b>		

## 2020 SMALL DRAINAGE PROJECT LIST

February 18, 2020

<i>Priority Ranking</i>	<i>Problem Statement</i>	<i>Project Description</i>	<i>Cost</i>	
1 (New)  <b>2020 – Design</b>	13601 40 <sup>th</sup> Ave S. – The existing 18” CMP that conveys a portion of Southgate Creek has rusted out and is full of roots. Storm flows have eroded around the existing pipe. Lining is not feasible due to the excessive roots within the pipe.	Replace approximately 90 feet of 18” CMP and 80 feet of 12” concrete pipe. Project may require an HPA and SEPA.	<i>Construction</i>	\$75,000
			<i>Eng/Cont 25%</i>	<u>18,750</u>
			<i>Total</i>	\$93,750
1 (New)  <b>2020 – Design</b>	Klickitat Drive at 53 <sup>rd</sup> Ave. S. - The existing 18” CMP that drains to 53 <sup>rd</sup> Ave S. intersection has failed, and a small sinkhole has formed behind the guardrail.	Replace and install approximately 180’ of 18” storm drainpipe and tie into existing structure at intersection of 53 <sup>rd</sup> Ave. S. and Klickitat Drive. May require an HPA and Tukwila Special Permission.	<i>Construction</i>	\$60,000
			<i>Eng/Cont 25%</i>	<u>15,000</u>
			<i>Total</i>	\$ 75,000
3  <b>2020 – Design</b>	Allentown on S. 124 <sup>th</sup> – This street has no formal drainage system along the majority of the roadway leading to runoff into yards from right-of-way.	Install approximately 750’ of new 12” storm pipe and catch basins along north side of S. 124 <sup>th</sup> between 42 <sup>nd</sup> Ave. S. and 45 <sup>th</sup> Ave S.	<i>Construction</i>	\$190,000
			<i>Eng/Cont 25%</i>	<u>47,500</u>
			<i>Total</i>	\$237,500
3  <b>2020 – Design</b>	57 <sup>th</sup> Ave South off Interurban Ave behind the Golden Nugget. Existing drainage structure has 8 feet of riser rings that do not permit sufficient access to structure for maintenance.	Bring Type II manhole up to grade by removing 8 feet of 24” riser rings. Add 48” manhole riser sections and new manhole ring & cover.	<i>Construction</i>	\$ 25,000
			<i>Eng/Cont 25%</i>	<u>6,250</u>
			<i>Total</i>	\$ 31,250
1  <b>2020 – Design</b>	14811 42 <sup>nd</sup> Ave South – Inlet to pipe on this property frequently plugs up with debris, then overflows onto 42 <sup>nd</sup> Ave South, creating localized flooding.	Install a type 2 CB on storm pipe DR13258 (the inlet pipe for the flow running across this property) with a beehive rack on top and trash rack on the inlet pipe to the new structure.	<i>Construction</i>	\$50,000
			<i>Eng/Cont 25%</i>	<u>12,500</u>
			<i>Total</i>	\$86,250
3  <b>2020 – Design</b>	Allentown along 48 <sup>th</sup> Ave. S. 49 <sup>th</sup> – This street has no formal drainage system along the majority of the roadway leading to runoff into yards from right-of-way..	Install storm drain system approximately 820’ starting the northside of S 124th St and down 48th Ave S. and tie into the existing system along S 122nd St.	<i>Construction</i>	\$ 200,000
			<i>Eng/Cont 25%</i>	<u>50,000</u>
			<i>Total (Each)</i>	\$ 250,000

<i>Priority Ranking</i>	<i>Problem Statement</i>	<i>Project Description</i>	<i>Cost</i>
3	Rip rap has been washed out from the end of outfalls at flapgates #27, #28 and #29 in Gateway Park.  Add root wads	Replace rip rap, add root wads, HPA needed.	Construction      \$50,000 Eng/Cont 25% <u>12,500</u>  Total                      \$ 62,500
4  (Hold, See note)	Christensen Road at Kinko's – Need to connect storm systems on Christensen to solve pump problem during high river events.  Need to check invert elevations	Install 12" pipe between catch basins behind building.  <b>Note: This site is currently in for a development permit. Engineer has been told about issue and is proposing a piped system that drains both to Christensen Rd and to APE. High flows will be able to flow from Christensen to APE if needed if system is built.</b>	Construction Eng/Cont 15%  Total
3	56 <sup>th</sup> Ave at one-way street, bubbling problems at the catch basin.	Replace 150 feet of 12" storm pipe and (2) Type II manholes.	Construction      \$ 35,000 Eng/Cont 25% <u>8,750</u>  Total                      \$ 46,250
3	Resident at 10349 Beacon Ave S. has roadway runoff entering her property causing damage to her septic system. Surveyed in 2008.	There are three possible solutions to resolve this issue; 1) obtain easements from private property owners to construct new drainage system to the west, 2) construct a deep storm line to Ryan Way, 3) install several infiltration structures along the flow path. The preferred method will need to be determined during design.	Construction      \$ 80,000 Eng/Cont 25% <u>20,000</u>  Total                      \$ 100,000
3	Allentown along 49 <sup>th</sup> Ave. S. – This street has no formal drainage and has problems with runoff into yards from right-of-way.	Install new drainage systems	Construction      \$ 175,000 Eng/Cont 25% <u>43,750</u>  Total (Each)        \$ 218,750
3	Trail #14 at S. 168 <sup>th</sup> & 53 <sup>rd</sup> – Install storm system under sidewalk to get rid of deep ditch to residence there. From dead end of S. 168 <sup>th</sup> to storm line on 53 <sup>rd</sup> .	Install (2) Type I catch basins and 400 feet of 12" pipe. Remove deep ditch on north side of home's property.	Construction      \$ 100,000 Eng/Cont 25% <u>25,000</u>  Total                      \$ 125,000

<b>Priority Ranking</b>	<b>Problem Statement</b>	<b>Project Description</b>	<b>Cost</b>
3	S. 124 <sup>th</sup> from 43 <sup>rd</sup> to corner of 42 <sup>nd</sup> , north side of street.	Construct 275' of 12" pipe and approximately 5 Type I catch basins.	Construction \$ 80,000 Eng/Cont 25% <u>25,000</u> Total \$ 105,000
3	On 34 <sup>th</sup> & Military Road – Root plugged, old culvert tile pipe.	Replace 18" pipe from Military Road (through old gas station) to 34 <sup>th</sup> , then to corner of S. 144 <sup>th</sup> Street (Approximately 485 ft and 5 Type II manholes)	Construction \$ 125,000 Eng/Cont 25% <u>31,250</u> Total \$ 152,525
3	Old broken pipe from ditch on 45 <sup>th</sup> Ave. S. to S. 137 <sup>th</sup> – Mismatched pipes, junk system.	Replace approximately 450 feet of 12" pipe and add (8) catch basins on east side of 45 <sup>th</sup> .	Construction \$ 130,000 Eng/Cont 25% <u>32,500</u> Total \$ 162,500
3	At the NE corner of 33 <sup>rd</sup> Ave S. and S. 132 <sup>nd</sup> , 3306 S. 132 <sup>nd</sup> manufactured home has 12" CMP/concrete culvert tile pipe running through yard to manhole under deck and then out to pond in neighbor's yard then to 34 <sup>th</sup> live stream	Replace/re-route system, HPA needed. Approximately 125' of 12" pipe and two type I CBs needed.	Construction \$ 40,000 Eng/Cont 35% <u>12,687</u> Total \$52,687
3	38 <sup>th</sup> Ave & S. 130 <sup>th</sup> to dead end – Needs new drainage system. Old mismatched pipe, deep ditches, steep driveways. Water running into home on lower side of road.	Install new 12" storm system with catch basins and thickened edges to get water to new catch basins. Approximately 470 ft. of 12" pipe and 8 Type I CBs needed.	Construction \$137,500 Eng/Cont 25% <u>34,375</u> Total \$175,875
4	S. 150 <sup>th</sup> creek outfall to catch basin on S. 150 <sup>th</sup> (off Macadam Road). Undersized inlet "debris plugs", south of Baptist church.	Install new cone grate and Type II manhole.	Construction \$ 25,000 Eng/Cont 15% <u>3,750</u> Total \$ 28,750  *Design completed in 2016



<i>Priority Ranking</i>	<i>Problem Statement</i>	<i>Project Description</i>	<i>Cost</i>	
4	56 <sup>th</sup> Ave S & S. 141 <sup>st</sup> to S. 139 <sup>th</sup> problem area – Problem ditch. Long berms need new drainage system to prevent homes from being flooded.	Install approx. 600 feet of 12” storm main and (4-6) catch basins from S. 141 <sup>st</sup> to S. 139 <sup>th</sup> . Fill ditch, both sides of 56 <sup>th</sup> Ave South.	Construction Eng/Cont 25%	\$165,000 <u>41,250</u>
			Total	\$206,250
4	S. 133 <sup>rd</sup> & S. 134 <sup>th</sup> – Clean rocks and other debris out of 30” CMP pipe on west branch of Southgate Creek.	Debris plugs low flow pipe, hard to keep clean. NPDES issue and private property issue.	Construction Eng/Cont 25%	
			Total	
4	West Valley Hwy at the CAT Rental Store – Railroad tracks to the ditch.	Replace 650 feet of 12” pipe and install (5) Type I catch basins. Crossing OK, need R-O-W survey.	Construction Eng/Cont 25%	\$175,000 <u>43,750</u>
			Total	\$218,750
4	S. 143 <sup>rd</sup> & Interurban Ave South – Problem ditch from pipe on S 143 <sup>rd</sup> to flapgate manhole on river. Almost impossible to clean and is a maintenance headache.	Install approx. 500 feet of 36” storm main, (1) manhole point to point and fill ditch to river.	Construction Eng/Cont 25%	\$125,000 <u>31,250</u>
			Total	\$156,250
4	On S. 133 <sup>rd</sup> from Macadam Bridge to Weir Box on S. 134 <sup>th</sup> – Need to pipe problem ditch. Problem with trees, loose leaves, plugged ditch and storm structure, flooding over roadway and surrounding area.	Install 600 feet of 24” pipe and (3) Type II manholes.	Construction Eng/Cont 25%	\$150,000 <u>37,500</u>
			Total	\$187,500
4	On 37 <sup>th</sup> Ave South from S. 126 <sup>th</sup> to S. 128 <sup>th</sup> , then down S. 126 <sup>th</sup> to creek – Old mismatched pipe is broken, junk system etc.	Replace 750 feet of 12” pipe and install (12) catch basins.	Construction Eng/Cont 25%	\$200,000 <u>50,000</u>
			Total	\$250,000

<i>Priority Ranking</i>	<i>Problem Statement</i>	<i>Project Description</i>	<i>Cost</i>
4	On S. 130 <sup>th</sup> at East Marginal Way on west side – Old mismatched pipe is broken, junk system etc.  From East Marginal Way to 34 <sup>th</sup> – Both sides of road, new system.	Replace pipe from ditch on north side crossing with 950 feet of 12” pipe and (15) catch basins, including angle across street.	Construction \$250,000 Eng/Cont 25% <u>59,375</u>  Total \$309,375
5	Off S. 135 <sup>th</sup> between 37 <sup>th</sup> and 35 <sup>th</sup> – Local crawl space flooding due to no drainage in private alley.	Install drainage and hook up homes. Work on Private Alleyway, need petition from property owners for project to proceed.	Construction Eng/Cont 15%  Total
4	Large Contech pot style vault at Gilliam Creek crossing on S. 154 <sup>th</sup> – vault needs better access for pot cleaning and replacement.	Pull lid from vault and add 2-3 feet riser section asphalt area. Add fences and gates for vehicle access for cleaning.	Construction \$ 25,000 Eng/Cont 25% <u>6,250</u>  Total \$31,250
4	Dead end of S. 109 <sup>th</sup> and 50 <sup>th</sup> – Gravel driveway, home below this issue could be a problem with any directing water over bank.	Water runs off S. 109 <sup>th</sup> to 50 <sup>th</sup> , gravel driveway, washing ruts and flooding home. No easy fix – asphalt, pipe, catch basin, berm to bank??	Construction Eng/Cont 20%  Total

## **CIPP LINING PROJECTS**

<i>Priority Ranking</i>	<i>Problem Statement</i>	<i>Project Description</i>	<i>Cost</i>
2	Southcenter Blvd @ 61 <sup>st</sup> Ave South – Storm main needs to be lined between DR04298 and DR04276 to prevent root intrusion.	Approximately 110’ of 18” pipe. There is also a repair that needs to be made 20’ from the south end of this pipe where a guardrail post punctured the top of the pipe.	Construction \$ 30,000 Eng/Cont 25% <u>7,500</u>  Total \$37,500
2	S. 140 <sup>th</sup> Street @ 38 <sup>th</sup> Ave South – Storm main needs to be lined between DR04742 and DR04743 and DR04744 to prevent root intrusion.	Approximately 200’ of 12” pipe.	Construction \$ 50,000 Eng/Cont 25% <u>12,500</u>  Total \$62,500

2	S. 152 <sup>nd</sup> Street @ 42 <sup>nd</sup> Ave South – Storm main needs to be lined between DR02222 and DR02223 and DR01867 to prevent root intrusion.	Approximately 170' of 12" pipe.	Construction \$ 42,500 Eng/Cont 25% <u>10,625</u>  Total \$53,125
2	S. 130 <sup>th</sup> Street @ 33 <sup>rd</sup> Place South – Storm main needs to be lined between DR04373 and DR04372 and DR04371 and DR04370 to prevent root intrusion.	Approximately 120' of 12" pipe.	Construction \$ 30,000 Eng/Cont 25% <u>7,500</u>  Total \$37,500
2	40 <sup>th</sup> Ave South @ Southcenter Blvd – Storm main needs to be lined between DR01533 and DR01532 to prevent root intrusion.	Approximately 45' of 8" pipe.	Construction \$ 30,000 Eng/Cont 25% <u>7,500</u>  Total \$37,500