King County

1200 King County Courthouse
516 Third Avenue
Seattle, WA 98104

Meeting Agenda

King County Flood Control District

Boardmembers: Reagan Dunn, Chair; Dave Upthegrove, Vice Chair; Claudia Balducci, Rod Dembowski, Larry Gossett, Jeanne Kohl-Welles, Kathy Lambert, Joe McDermott, Pete von Reichbauer

10:30 AM | **Wednesday, October 30, 2019** | **Room 1001**

SPECIAL MEETING

To show a PDF of the written materials for an agenda item, click on the agenda item below.

1. Call to Order

2. Roll Call

3. Approval of Minutes of September 18, 2019 **pg 3**

Discussion and Possible Action

4. FCD Resolution No. FCD2019-12 **pg 5**

A RESOLUTION authorizing the chair to enter into a contract for professional services to prepare a programmatic environmental impact statement on the Lower Green River Corridor Plan.

5. FCD Resolution No. FCD2019-13 **pg 27**

A RESOLUTION relating to the operations and finances of the District, adopting the 2020 budget and authorizing improvements.

Public Hearing Required

6. FCD Resolution No. FCD2019-14 **pg 57**

A RESOLUTION relating to the finances of the King County Flood Control Zone District; authorizing a property tax levy to implement the District's 2020 budget; reserving banked capacity; and protecting up to $.25 per $1,000 of assessed value of the District's property tax levy from proration.

Sign language and communication material in alternate formats can be arranged given sufficient notice (296-1000).
TDD Number 296-1024.
ASSISTIVE LISTENING DEVICES AVAILABLE IN THE COUNCIL CHAMBERS.

7. FCD Resolution No. FCD2019-15 **pg 61**

A RESOLUTION amending the interlocal agreement between King County and the King County Flood Control Zone District to extend its term through December 31, 2020.

8. Adjournment

King County

1200 King County
Courthouse
516 Third Avenue
Seattle, WA 98104

Meeting Minutes

King County Flood Control District

Boardmembers: Reagan Dunn, Chair; Dave Upthegrove, Vice Chair; Claudia Balducci, Rod Dembowski, Larry Gossett, Jeanne Kohl-Welles, Kathy Lambert, Joe McDermott, Pete von Reichbauer

10:00 AM | **Wednesday, September 18, 2019** | **Room 1001**

SPECIAL MEETING
DRAFT MINUTES

1. Call to Order

The meeting was called to order at 10:46 a.m.

2. Roll Call

Present: 9 - Ms. Balducci, Mr. Dembowski, Mr. Dunn, Mr. Gossett, Ms. Kohl-Welles, Ms. Lambert, Mr. McDermott, Mr. Upthegrove and Mr. von Reichbauer

3. Approval of Minutes August 21, 2019

Supervisor Upthegrove moved to approve the minutes of the August 21, 2019 meeting as presented. Seeing no objection, the Chair so ordered.

Discussion and Possible Action

4. FCD Resolution No. FCD2019-11

A RESOLUTION relating to the operations and finances of the King County Flood Control Zone District; authorizing the expenditure of District funds for projects and activities in accordance with the Flood Reduction Grants.

A public hearing was held and closed. No one spoke.

Michelle Clark, Executive Director, King County Flood Control Zone District, presednted staff report and answered questions.

Kim Harper, Grant Administrator, Water and Land Resources Division answered questions.

A motion was made by Supervisor Upthegrove that this FCD Resolution be Passed. The motion carried by the following vote:

Yes: 9 - Ms. Balducci, Mr. Dembowski, Mr. Dunn, Mr. Gossett, Ms. Kohl-Welles, Ms. Lambert, Mr. McDermott, Mr. Upthegrove and Mr. von Reichbauer

5. Adjournment

The meeting adjourned at 11:06 a.m.

Approved this _____ day of _____

_____

Clerk's Signature

1200 King County Courthouse
516 Third Avenue
Seattle, WA 98104

KING COUNTY

Signature Report

FCD Resolution

Proposed No. FCD2019-12.1 **Sponsors**

A RESOLUTION authorizing the chair to enter into a contract for professional services to prepare a programmatic environmental impact statement on the Lower Green River Corridor Plan.

WHEREAS, King County Flood Control (District) Resolution 2016-05.2 expressed the District's desire to move forward with a Lower Green River Corridor Plan and State Environmental Policy Act programmatic environmental impact statement; now, therefore

BE IT RESOLVED BY THE BOARD OF SUPERVISORS OF THE KING COUNTY FLOOD DISTRICT:

SECTION 1. The chair of the King County Flood Control District is authorized to enter into an agreement with Parametrix, Inc. for professional environmental impact

13 statement preparation services to the District. The contract is contained in Attachment A

14 to this resolution.

15

KING COUNTY FLOOD CONTROL ZONE
DISTRICT
KING COUNTY, WASHINGTON

_____

Reagan Dunn, Chair

ATTEST:

_____

Melani Pedroza, Clerk of the Board

Attachments: A. Contract for Consultant Services King County Flood Control Zone District

CONTRACT FOR CONSULTANT SERVICES
KING COUNTY FLOOD CONTROL ZONE DISTRICT

This Contract is entered into by and between the King County Flood Control Zone District, a municipal corporation ("District") and Parametrix, Inc., whose principal office is located at 719 2nd Avenue, Suite 200, Seattle, WA 98104 ("Consultant").

WHEREAS, the District desires to have certain services performed for its citizens; and

WHEREAS, the District has selected the Consultant to perform such services pursuant to certain terms and conditions;

NOW, THEREFORE, in consideration of the mutual benefits and conditions set forth below, the parties agree as follows:

1. Scope of Services to be Performed by Consultant. The Consultant shall perform the services described in Exhibit "A" of this Contract. In performing the services, the Consultant shall comply with all federal, state and local laws and regulations applicable to the services. The Consultant shall perform the services diligently and completely and in accordance with professional standards of conduct and performance.

2. Compensation and Method of Payment. The Consultant shall request payment for work performed using the billing invoice form at Exhibit "C."

The District shall pay the Consultant:

[Check applicable method of payment]

_X_ According to the rates set forth in Exhibit "B."

_X_ A sum not to exceed $775,227.66.

__ Other (describe):

The Consultant shall complete and return to the District Exhibit "D," Tax Identification Number, prior to or along with the first billing invoice. The District shall pay the Consultant for services rendered within ten (10) days after Board voucher approval.

3. Duration of Contract. This Contract shall be in full force and effect for a period commencing on October 15, 2019 and ending April 15, 2020, unless sooner terminated or extended under the provisions of this Contract. Time is of the essence of this Contract in each and all of its provisions in which performance is required.

4. Ownership and Use of Documents. Any records, files, documents, drawings, specifications, data or information, regardless of form or format, and all other materials produced by the Consultant in connection with the services provided to the District, shall be the property of the District whether the project for which they were created is executed or not.

5. Independent Contractor. The Consultant and the District agree that the Consultant is an independent contractor with respect to the services provided pursuant to this Contract. The Consultant will be solely responsible for its acts and for the acts of its officers, officials, employees, sub-consultants and agents during the performance of this Contract. Nothing in this Contract shall be considered to create the relationship of employer and employee between the parties.

6. Indemnification. The Consultant shall defend, indemnify, and hold the District and its officers and employees harmless from all claims, demands, or suits at law or equity arising in whole or in part from the negligence of, or the breach of any obligation under this Agreement by, the Consultant or the Consultant's agents, employees, sub consultants, subcontractors or vendors, of any tier, or any other persons for whom the Consultant may be legally liable; provided that nothing herein shall require a Consultant to defend or indemnify the District and its officers and employees against and hold harmless the District and its officers and employees from claims, demands or suits based solely upon the negligence of, or breach of any obligation under this Agreement by the District, its agents, officers, employees, sub-consultants, subcontractors or vendors, of any tier, or any other persons for whom the District may be legally liable; and provided further that if the claims or suits are caused by or result from the concurrent negligence of (a) the Consultant or the Consultant's agents, employees, sub-consultants, subcontractors or vendors, of any tier, or any other persons for whom the Consultant is legally liable, and (b) the District, its agents, officers, employees, sub-consultants, subcontractors and or vendors, of any tier, or any other persons for whom the District may be legally liable, the defense and indemnity obligation shall be valid and enforceable only to the extent of the Consultant's negligence or the negligence of the Consultant's agents, employees, sub-consultants, subcontractors or vendors, of any tier, or any other persons for whom the Consultant may be legally liable. This provision shall be included in any Agreement between Consultant and any sub-consultant, subcontractor and vendor, of any tier. The foregoing indemnity is specifically and expressly intended to constitute 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. The provisions of this Section shall survive the expiration or termination of this Contract.

7. Insurance. The Consultant shall procure and maintain for the duration of this Contract, 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 officers, officials, employees, and agents.

A. Minimum Scope of Insurance. The Consultant shall obtain insurance of the types described below:

1. Automobile Liability insurance covering 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 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 District shall be named as an insured under the Consultant's Commercial General Liability insurance policy with respect to the work performed for the District.

3. Workers' Compensation coverage as required by the Industrial Insurance laws of the State of Washington.

4. Professional Liability insurance appropriate to the Consultant's profession.

B. Minimum Amounts of Insurance. The Consultant shall maintain the following insurance limits:

1. Automobile Liability insurance with a minimum combined single limit for bodily injury and property damage of $1,000,000 per accident.

2. Commercial General Liability insurance shall be written with limits no less than $1,000,000 each occurrence, $2,000,000 general aggregate.

3. Professional Liability insurance shall be written with limits no less than $1,000,000 per claim and $1,000,000 policy aggregate limit.

C. Other Insurance Provisions. The insurance policies are to contain, or be endorsed to contain, the following provisions for Automobile Liability, Professional Liability, and Commercial General Liability insurance:

1. The Consultant's insurance coverage shall be primary insurance as respects the District. Any insurance, self-insurance or insurance pool coverage maintained by the District shall be in excess of the Consultant's insurance and shall not contribute with it.

2. The Consultant's insurance shall be endorsed to state that coverage shall not be canceled by either party except after thirty (30) days prior written notice by certified mail, return receipt requested, has been given to the District.

D. Verification of Coverage. The Consultant shall furnish the District 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.

8. Record Keeping and Reporting.

A. The Consultant shall maintain accounts and records, including personnel, property, financial, and programmatic records, which sufficiently and properly reflect all direct and indirect costs of any nature expended and services performed pursuant to this Contract. The Consultant shall also maintain such other records as may be deemed necessary by the District to ensure proper accounting of all funds contributed by the District to the performance of this Contract.

B. The foregoing records shall be maintained for a period of seven (7) years after termination of this Contract, unless permission to destroy them is granted by the Office of the Archivist in accordance with Chapter 40.14 RCW and by the District.

9. Audits and Inspections. The records and documents with respect to all matters covered by this Contract shall be subject at all times to inspection, review or audit by the District during the performance of this Contract.

10. Termination.

A. The District reserves the right to terminate or suspend this Contract at any time, with or without cause, upon ten (10) business days prior written notice. In the event of termination or suspension, all finished or unfinished documents, data, studies, worksheets, models, reports or other materials prepared by the Consultant pursuant to this Contract shall promptly be submitted to the District.

B. In the event this Contract is terminated or suspended, the Consultant shall be entitled to payment for all services performed and reimbursable expenses incurred to the date of termination.

C. This Contract may be canceled immediately if the Consultant's insurance coverage is canceled for any reason, or if the Consultant is unable to perform the services called for by this Contract.

D. The Consultant reserves the right to terminate this Contract with not less than ten (10) business days written notice, or in the event that outstanding invoices are not paid within sixty (60) days.

E. This provision shall not prevent the District from seeking any legal remedies it may otherwise have for the violation or nonperformance of any provisions of this Contract.

11. Discrimination Prohibited. The Consultant shall not discriminate against any employee, applicant for employment, or any person seeking the services of the Consultant under this Contract, on the basis of race, color, religion, creed, sex, sexual orientation, age, national origin, marital status, or presence of any sensory, mental or physical disability.

12. Assignment and Subcontract. The Consultant shall not assign or subcontract any portion of the services contemplated by this Contract without the prior written consent of the District.

13. Conflict of Interest. The Consultant represents to the District that it has no conflict of interest in performing any of the services set forth in Exhibit "A." In the event that the Consultant is asked to perform services for a project with which it may have a conflict, Consultant will immediately disclose such conflict to the District.

14. Confidentiality. All information regarding the District obtained by the Consultant in performance of this Contract shall be considered confidential. Breach of confidentiality by the Consultant shall be grounds for immediate termination.

15. Non-appropriation of Funds. If sufficient funds are not appropriated or allocated for payment under this Contract for any future fiscal period, the District will so notify the Consultant and shall not be obligated to make payments for services or amounts incurred after the end of the current fiscal period. This Contract will terminate upon the completion of all remaining services for which funds are allocated. No penalty or expense shall accrue to the District in the event that the terms of the provision are effectuated.

16. Entire Contract. This Contract contains the entire agreement between the parties, and no other agreements, oral or otherwise, regarding the subject matter of this Contract shall be deemed to exist or bind either of the parties. Either party may request changes to the Contract. Changes which are mutually agreed upon shall be incorporated by written amendments to this Contract.

17. Notices. Notices to the District shall be sent to the following address:

Michelle Clark, Executive Director
516 Third Avenue, Room 1200, W-1201
Seattle, WA 98104
206-477-2985
Michelle.Clark@kingcounty.gov

Notices to the Consultant shall be sent to the following address:

Jeff Peacock, President and CEO

719 2nd Avenue, Suite 200
Seattle, WA 98104
206-394-3700

JPeacock@parametrix.com

18. Applicable Law; Venue; Attorneys' Fees. This Contract shall be governed by and construed in accordance with the laws of the State of Washington. In the event any suit, arbitration or other proceeding is instituted to enforce any term of this Contract, the parties specifically understand and agree that venue shall be exclusively in King County, Washington. The prevailing party in any such action shall be entitled to its attorneys' fees and costs of suit, which shall be fixed by the judge hearing the case and such fee shall be included in the judgment.

19. Severability. Any provision or part of this Contract held to be void or unenforceable under any law or regulation shall be deemed stricken and all remaining provisions shall continue to be valid and binding upon the District and the Consultant, who agree that the Contract shall be reformed to replace such stricken provision or part with a valid and enforceable provision that comes as close as reasonably possible to expressing the intent of the stricken provision.

KING COUNTY FLOOD CONTROL ZONE DISTRICT	CONSULTANT
_____	_____
Reagan Dunn, Chair King County Flood Control Zone District	Jeff Peacock, President & CEO Parametrix, Inc.

- Monthly invoice packages in a format as specified by the District
- Written notes from weekly strategy meetings or calls distributed to the project team for concurrence

EXHIBIT C
KING COUNTY FLOOD CONTROL ZONE DISTRICT BILLING INVOICE

To: King County Flood Control Zone District
Michelle Clark, Executive Director
516 Third Avenue, Room 1200, W-1201
Seattle, WA 98104
Phone: (206) 477-2985
michelle.clark@kingcounty.gov

Invoice Number: _____ Date of Invoice: _____

Consultant: _____

Mailing Address: _____

Telephone: ( ). _____

Contract Period:. _____ Reporting Period: _____

Amount requested this invoice: $ _____

Attach itemized description of services provided.

Specific Program: _____

_____
Authorized signature

For District Use Only

BUDGET SUMMARY

Total contract amount	$_____
Previous payments	$_____
Current request	$_____
Balance remaining	$._____

Approved for Payment by: _____ Date: _____

EXHIBIT D
KING COUNTY FLOOD CONTROL ZONE DISTRICT
Michelle Clark, Executive Director
516 Third Avenue, Room 1200, W-1201
Seattle, WA 98104
Phone: (206) 477-2985
michelle.clark@kingcounty.gov

TAX IDENTIFICATION NUMBER

In order for you to receive payment from the King County Flood Control Zone District ("District"), the consultant must have either a Tax Identification Number or a Social Security Number. The Internal Revenue Service Code requires a Form 1099 for payments to every person or organization other than a corporation for services performed in the course of trade or business. Further, the law requires the District to withhold 20% on reportable amounts paid to unincorporated persons who have not supplied us with their correct Tax Identification Number or Social Security Number.
Please complete the following information request form and return it to the District prior to or along with the submittal of the first billing invoice.

Please complete the following information request form and return it to the District prior to or along with the submittal of the first billing invoice.

Please check the appropriate category:

_____Corporation _____Partnership _____Government Consultant

_____Individual/Proprietor _____Other (explain)

TIN No.: _____

Social Security No.: _____

Print Name: _____

Title: _____

Business Name: _____

Business Address: _____

Business Phone: _____

Date: _____

Attachment A

SCOPE OF WORK

King County Flood District
Lower Green River Corridor Flood Hazard Management Plan
Programmatic Environmental Impact Statement

PROJECT UNDERSTANDING

The King County Flood Control District (District) is preparing a SEPA Programmatic Environmental Impact Statement (PEIS) for the Lower Green River Corridor Flood Hazard Management Plan. The intent of the services described below is to help the District determine revisions or additions to alternatives considered in the PEIS, to develop discipline-specific methodologies for evaluating the potential impacts that may result from these alternatives, to gather information on the affected environment and existing conditions, and to provide policy and communications support during this process.

Task 2 – Alternatives, Methodologies, and Affected Environment

The purpose of this task is to provide services prerequisite to preparation of the PEIS. All deliverables identified for this task will be submitted electronically, unless otherwise specified.

Task 2.1 – Project Management

The Consultant will update the brief Project Management Plan (PMP) that supplements the details necessary for this phase of services. For example, additional subconsultants will be providing services, requiring additional coordination and communication. The Consultant will:

- Prepare a schedule and update the schedule once during this phase of services.
- Manage delivery of services, including subconsultant work, within approved budget and schedule.
- Prepare monthly invoices that include a progress letter summarizing completed and upcoming work and status to budget and schedule.
- Participate in weekly strategy meetings or conference calls through this phase.
- Maintain project records.

Assumptions

- Previously authorized services included project management for 4 months (March to June 2019). These services encompass an additional 7 months (through May 2020).
- Milestone schedule will be prepared using Microsoft Project.
- There will be 24 weekly meetings/calls with an average of 1.5 consultant staff participating. Each meeting will be 30 minutes in duration with 30 minutes follow up for notes (1 hour total).

Deliverables

- Draft and final milestone schedule
- Draft and final PMP update
- Monthly invoice packages in a format as specified by the District
- Written notes from weekly strategy meetings or calls distributed to the project team for concurrence

Task 2.2 – Scoping Comment Tracking

The Consultant will prepare a spreadsheet for internal use by the project team and the district. As a starting point, the Consultant will use the comment catalog prepared for the Scoping Summary Report. The purpose of the spreadsheet will be to ensure that comments are considered in determining revisions or additions to alternatives and methodologies for evaluating impacts.

Assumptions

- The tracking spreadsheet is a data management tool for tracking each comment response. It will be used by the Consultant and District as a reference to the formal response location within the final documentation.
- Not all comments received will need action at this time. For example, some may be more appropriate considered during the evaluation of impacts or development of mitigation. The spreadsheet will record the disposition of the comment accordingly.
- The tracking spreadsheet will be updated as needed and used as a tool throughout this phase of work with deliverable due at the end of the phase.

Deliverables

- Draft and final tracking spreadsheet

Task 2.3 – Opportunities, Constraints, and Methodologies

The purpose of this task is to provide discipline-specific insights that can confirm and inform the identification of the study area (upstream and downstream limits), questions for the local jurisdiction or other agencies with authority, and potential revisions and additions to the alternatives under consideration. This task will also allow identification and definition of the resources that will be analyzed within the study area and the consideration and review of the appropriate level of evaluation for a PEIS. The following discipline-specific insights will be provided (includes reference to SEPA elements of the environment [WAC 197-11-444] or King County Equity and Social Justice Strategic Plan [ESJSP]):

- Hydraulics/hydrology (SEPA 1.c.i – 1v)
- Land and shoreline use - includes land use and shoreline patterns, land use plans and growth; aesthetics; recreation; open space, agricultural activities and trends) (SEPA 2.b.i-vii)
- Equity and social justice (includes demographics, socioeconomics, and priority populations [low-income, people of color, those with limited English proficiency]; child and youth development; elderly; economic development and jobs; environmental health; health and human services; housing; information and technology; justice system; transportation and mobility (ESJSP)
- Public services – includes:

  - Transportation (transportation systems; vehicle traffic; water, rail, and air traffic; parking; movement and circulation of people and goods; traffic hazards) (SEPA 2.c.i,iii,v)
  - Utilities and services (fire; police; schools; parks and recreational facilities; maintenance; communications; water and stormwater; sewage and solid waste; other governmental services and utilities) (SEPA 2.d.i-ix)
- Aquatic biology and riparian habitat (SEPA 1.d)
- Water quality (SEPA 1.c.i,iii)
- Climate change (SEPA 1.b.iii)
- Cultural and historic resources (SEPA 2.b.vi)

Each discipline lead will review scoping comments received and available literature relevant to their area of expertise, and information provided for each reach by the project team. Each discipline lead will participate in six (6) meetings to discuss opportunities and constraints that could inform finalization of alternatives. The opportunities and constraints will be documented in meeting notes (taken by Parametrix but reviewed by the broader team).

Each discipline lead will also propose a methodology for the programmatic evaluation of impacts. The methodologies will include a definition of the resources that will be analyzed within the study area, information and data sources, geographic coverage, types of analysis (qualitative, quantitative, level of accuracy), and relevant regulations or standards. Methodologies will also describe how impacts and enhancements will be identified and evaluated[1]. The Consultant will develop an outline for either a methodologies report that consolidates the discipline-specific approaches or discipline-specific technical memorandums.

This task will also develop an annotated outline of the draft PEIS. The outline will describe the structure and content of the executive summary, EIS sections, and appendices. The outline will explain the target audiences for each portion of the EIS and level of writing (e.g., high school, college graduate, etc.). In addition to the outline, this task will develop the format for the PEIS for both printed and electronic distribution.

Assumptions

- Information provided will include reach-specific analyses and notes, list of available literature, as well as scoping comments received
- Each discipline lead will supplement the information provided with additional available literature as needed
- A draft outline for the technical memos will be developed by the Consultant and reviewed with the Flood Control District before the memos are prepared.
- Draft methodologies will be submitted and reviewed before affected environment and existing conditions data collection (Task 2.6) is completed.

[1] In this context “impacts” refer to effects resulting from the flood hazard management plan; “enhancements” refer to features or actions by the District or others that could offer environmental or other benefits provided they are consistent with flood hazard management plans’ purpose and need.

- Each meeting will be two (2) hours in duration with twelve (12) consultant staff attendance.

Deliverables

- Draft and final meeting notes
- Draft, revised draft, and final outline that can be used for either methodology report or discipline-specific technical memorandums
- Draft, revised draft, and final methodology memorandums in a format proposed by the Consultant and approved by the District
- Draft, revised draft, and final annotated outline of the draft PEIS

Task 2.4 Intergovernmental Communication Support (Optional)

Several comments received during scoping make specific suggestions to modify the existing or planned use of areas near the Green River for flood management and/or improved habitat. Other scoping comments ask the District to collaborate with other governments (local jurisdictions and regulatory agencies) to explore meeting the goals and objectives of the Flood Hazard Management Plan by means other than construction and maintenance of flood control structure or infrastructure. Such comments pertaining to alternatives being considered may raise matters outside of the Districts' authority and could benefit from formal communication with jurisdictions or agencies with established authority related to components or aspects of the Flood Hazard Management Plan. The purpose of this task is to support, if needed, correspondence or discussions with other governments as part of the basis for the District establishing the alternatives that will be evaluated in the PEIS. Documentation of this communication will be included in the projects' records. The Consultant will:

- Assist the District in deciding which, if any, governments would be engaged and assist the District to develop specific questions on matters under their authority related to Flood Hazard Management Plan.
- Participate in up to twelve (12) preparation meetings in which strategy and approach are detailed. These preparation meetings will be two (2) hours in duration include an average of three (3) Consultant staff.
- Draft up to twelve (12) letters for review and finalization by the District.
- Participate in up to six (6) meetings with the agencies. These meetings will be one (1) hour in duration and include one (1) Consultant staff.
- Prepare meeting records and assemble associated correspondence.
- Review feedback received and provide recommendations for follow-up. This step will be addressed in weekly strategy meetings/calls covered under Task 2.1.

Assumptions

- Correspondence or communications would be by District staff or representatives, with support from the Consultant.
- See details above regarding the number and duration of meetings and the number of staff attending each meeting.
- For budgeting purposes, meeting attendees are shown as Parametrix employees. If subject-area experts are needed, budget will be shifted from Parametrix to subs as needed to accommodate.

Deliverables

- Eight (8) draft, revised draft, and final preparation meeting notes that can also be used as agency meeting plans
- Eight (8) draft letters
- Four (4) draft and final agency meeting notes

Task 2.5 – Alternatives

The purpose of this task is to document development of the alternatives for evaluation in the draft PEIS. The Consultant will draw from information developed under task 2.3 and the interagency discussions under task 2.4 as well as information received during scoping to revise alternatives 1, 2, and 3 and potentially propose additional alternatives. In addition to refining and possibly proposing alternatives, the Consultant will identify features or measures suggested by others that are not reasonable based on likely effects, effectiveness, consistency with the Districts' acquisition and other policies, the plan's purpose and need, or other factors. The Consultant will meet with the District staff to discuss and evaluate revised and potential alternatives. Revisions to current alternatives and any additional alternatives will be developed through joint discussions by the Consultant, King County Water and Land Resource Division staff, and the District. Decisions on revisions or additions to the alternatives will be made by the District SEPA official.

Assumptions

- Up to two (2) additional alternatives may be proposed for detailed evaluation in the draft PEIS.
- Up to twelve (12) meetings to discuss alternatives will be attended by four Consultant staff.
- A draft outline of the alternatives technical memorandum will be reviewed by the Flood Control District before the memorandum is prepared.
- The memo will include GIS figures for the new and revised alternatives comparable to those used in scoping, as well as any revised typical sections. The Consultant will be responsible for preparing these figures.

Deliverables

- Up to twelve (12) draft and final alternatives meeting notes
- Draft, revised draft, and final technical memorandum on alternatives

Task 2.6 – Affected Environment

The purpose of this task is to develop discipline-specific descriptions of the affected environment that will be included in the EIS. Each discipline lead will also gather information on the affected environment and existing conditions for their subject. Future conditions for each subject within the projects' 30-year planning horizon will be described using established data and current scientific understanding. The following discipline-specific insights will be provided (includes reference to SEPA elements of the environment [WAC 197-11-444] or King County Equity and Social Justice Strategic Plan [ESJSP]):

- Hydraulics/hydrology (SEPA 1.c.i – 1v)
- Land use (land use and shoreline patterns, land use plans and growth; light and glare; aesthetics; recreation; agricultural activities) (SEPA 2.b.i-vii; 1.e.v)

- Equity and social justice (demographics, socioeconomics, and priority populations (low-income, people of color, those with limited English proficiency); child and youth development; elderly; economic development and jobs; environmental health; health and human services; housing; information and technology; justice system; transportation and mobility) (ESJSP)
- Public services – includes
    - Transportation (transportation systems; vehicle traffic; water, rail, and air traffic; parking; movement and circulation of people and goods; traffic hazards) (SEPA 2.c.i,iii,v)
    - Services and utilities (fire; police; schools; parks and recreational facilities; maintenance; communications; water and stormwater; sewage and solid waste; other governmental services and utilities) (SEPA 2.d.i-ix)
- Aquatic biology and riparian habitat (SEPA 1.d)
- Water quality (SEPA 1.c.i,iii)
- Climate change (SEPA 1.b.iii)
- Cultural and historic resources (SEPA 2.b.vi)
- Energy and natural resources (SEPA 1.e) will be generally described

The Consultant will develop GIS data layers with information on affected environment and existing conditions for evaluation and display on King County's iMap system.

Deliverables

- Draft, revised draft, and final affected environment in a format proposed by the Consultant and approved by the District

Task 2.7 – Aerial Image Acquisition and 3D Modeling

The purpose of this task is to obtain aerial imagery of the study area that will help with evaluating alternatives and in displaying project information for the public. The use of aerial imagery will reduce the labor for field work and provide adequate information for the PEIS. The imagery will be georeferenced and suitable for adding overlays of project related features or information.

IMAGERY COLLECTION

Miller Creek Associates (MCA) will be responsible for this task as described in the attached detailed proposal. This work is summarized as follows:

- Acquire aerial imagery for approximately 32 square miles based on flight plan option #1—80 percent forward overlap and approximately 2,180 raw images.
- Process each image's position and orientation
- Develop 3-dimensional model
- Export model for use by project team

Assumptions

- Aerial imagery will be acquired at a nominal resolution of 0.25-foot with five or less feet of error.

- Information delivered will be for graphical representation only and the accuracy of data presented will not be suitable for design.
- Because an airborne GPS will support the horizontal accuracy requirements of the project, no field surveyed ground control will be necessary.

Deliverables

- Natural color 3-dimensional image-based model in either *.fbx or .obj formats

SAMPLE VIDEO PRODUCTION

The Consultant will use the model to develop a video "fly through" of a sample project area. For the video data layers will be added to the 3-D model that describe existing flood control facilities by type and location. This task will help refine techniques that can be used in later phases to show proposed flood control facilities, results of hydraulic modeling, and other features. The following activities are associated with this task:

- Incorporate facility description data into 3-D model
- Produce "fly through" videos with and without existing flood control facilities highlighted.

Assumptions

- King County will provide electronic data describing the type and location of existing flood control facilities in the study area.
- Information delivered will be for graphical representation of existing conditions only. Representation of alternatives considered in the PEIS is not included at this time but could be added in a future authorization.

Deliverables

- Virtual video footage and flight path in electronic format compatible with the client's software.

Task 2.8 – Communications Support

The purpose of this task is to support the District in communicating with the public and stakeholders interested in the flood hazard management plan.

The Consultant (Parametrix and Lund-Faucett) will prepare materials and assist in preparations and presentation to the Advisory Committee. The materials and presentation will provide an update on the Flood Hazard Management Plan and PEIS.

For communication with the public the Consultant will prepare brief descriptions of what is happening and next steps. These descriptions will be suitable for posting on the plans' website or for general distribution by email.

Task 2.9 – Communications Specialist

The purpose of this task is to provide the District with strategic support in communication with various organizations on multiple topics related to the Plan. Support will also be provided for digital and social media communications. Work under this task may include:

<u>Communications:</u>

- Help develop and refine messaging and strategy

- Provide on-going public affairs counsel
- Participate in strategy meetings and other planning efforts
- Assist with relationship building and coalition activities
- Create and implement communications strategies
- Manage media relations

Digital and social media:

- Enhance and manage social media channels
- Create social media content for Facebook, Twitter & Instagram
- Design compelling social media page layouts and populating content
    - Graphic design to include social graphics, GIFs and imagery
- Develop a monthly editorial calendar to guide content posting and digital efforts
- Scheduled posting at 2-5 times per week on each social channel
- Deliver regular reports on performance
- Participation in regular client strategy and coordination calls as needed

Assumptions

- Work under this task will be as directed by the District.

Deliverables

- Deliverables under this task will be as directed by the District.

Task 2.10 - Hydraulic Modeling Peer Reviews

Understanding the response of the river to different flood management alternatives is foundational to all other impact analyses. The purpose of this task to ensure the hydraulic modeling used for the analysis to robust and accurate. The Consultant will provide peer reviews of the hydraulic modeling of Lower Green River PEIS to be performed by the District and its consultant, Northwest Hydraulic Consultants (NHC). The peer reviews include the following tasks:

- Review Existing Conditions Technical Memorandum, prepare a peer review memo, and check responses to peer review comments
- Review hydraulic models for alternative modeling and a technical memorandum on the hydraulic modeling and analysis of alternatives, and check responses to peer review comments
- Review a technical memorandum on the economics evaluation of alternatives, and check responses to peer review comments
- Review hydraulic models for up to two additional alternative variations and supplemental documentation, and check responses to peer review comments
- Four (4) 1-hour conference calls to discuss peer review comments after each peer review

Assumptions

- The peer review tasks are based on the King County Scope of Work, Project Name: Hydraulic Modeling Lower Green River PEIS, May 31, 2019.
- Dr. Henry Hu of WEST Consultants, Inc. will provide the peer review.

- Depending on the project schedule of the King County Hydraulic Modeling, the period of the hydraulic modeling peer reviews may go beyond January 2020.

Deliverables

- Review comments submitted electronically

Client: King County Flood Control District
Project: Lower Green River
Project No: 553-7543-802

ATTACHMENT B RATES AND BUDGET PARAMETRIX 9-23-19

Budget Summary				Parametrix		Lund Faucett		Gallatin Public Affairs		West Consulting		BERK Consulting		Historical Research Associates		Confluence		Globalwise	
Task/ Subtask	Description	Labor Dollars	Labor Hours	Labor Dollars	Labor Hours	Labor Dollars	Labor Hours	Labor Dollars	Labor Hours	Labor Dollars	Labor Hours	Labor Dollars	Labor Hours	Labor Dollars	Labor Hours	Labor Dollars	Labor Hours	Labor Dollars	Labor Hours
02	**Alternatives, Methodologies, and Affected Environment**																		
2.1	Project Management	$52,146.97	267	$52,146.97	267														
2.2	Scoping Comment Tracking	$14,446.71	110	$14,446.71	110														
2.3	Opportunities, Constraints, and Methodologies	$183,637.30	1,126	$73,109.27	420					$26,502.55	146	$12,263.81	80	$24,679.16	202	$28,272.51	178	$18,810.00	100
2.4	Interagency Discussions	$31,057.85	142	$31,057.85	142														
2.5	Alternatives	$65,597.62	298	$65,597.62	298														
2.6	Affected Environments	$225,535.51	1,616	$83,950.30	532					$12,437.14	76	$39,528.19	327	$32,507.80	301	$43,432.08	300	$13,680.00	80
2.7	Aerial Image Acquisition and 3D Modeling	$18,207.61	148	$18,207.61	148														
2.8	Communications Support	$10,617.42	57	$2,469.42	10	$8,148.00	47												
2.9	Communications Specialist	$106,782.92	480	$2,982.92	12			$103,800.00	468										
2.10	Hydraulic Modeling Peer Review	$32,958.23	174	$5,429.39	26					$27,528.85	148								
99	Unanticipated Services (additional)	$9,824.47	54	$9,824.47	54														
	Labor Totals	**$750,812.58**	**4,472**	**$359,222.49**	**2,019**	**$8,148.00**	**47**	**$103,800.00**	**468**	**$66,468.54**	**370**	**$51,792.00**	**407**	**$57,186.96**	**503**	**$71,704.60**	**478**	**$32,490.00**	**180**
	Direct Expenses	**$3,639.08**		**$1,216.00**		**$250.00**		**$0.00**		**$222.08**		**$249.00**		**$0.00**		**$687.00**		**$1,015.00**	
	Consultant Totals	**$754,451.66**		**$360,438.49**		**$8,398.00**		**$103,800.00**		**$66,690.62**		**$52,041.00**		**$57,186.96**		**$72,391.60**		**$33,505.00**	
	Miller Creek Associates	**$ 20,776.00**																	

Project Total:	**$775,227.66**

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1200 King County Courthouse
516 Third Avenue
Seattle, WA 98104

KING COUNTY

Signature Report

FCD Resolution

Proposed No. FCD2019-13.1 **Sponsors**

A RESOLUTION relating to the operations and finances of the District, adopting the 2020 budget and authorizing improvements.

WHEREAS, pursuant to RCW 86.15.140, the King County Flood Control Zone District (District) held a public hearing on the proposed 2020 budget of the District on _____, 2019, and

WHEREAS, the board of supervisors (Board) desires to adopt the District's 2020 budget, and

WHEREAS, by Ordinance 15728, the King County council adopted the District's initial comprehensive plan of development for flood and stormwater control, which is titled "2006 King County Flood Hazard Management Plan," and by Resolution FCD2011-05.1, the District Board amended the initial plan to include a project in the city of Seattle (collectively, the District Comprehensive Plan), and

WHEREAS, pursuant to RCW 86.15.110, the Board must approve by resolution all flood control and storm water control improvements, prior to the extension, enlargement, acquisition or construction of such improvements, and

WHEREAS, RCW 85.15.110, further provides that such approval resolution must state whether the improvements are to be extended, enlarged, acquired or constructed; state that the comprehensive plan has been adopted; state that the improvements generally

contribute to the objectives of the comprehensive plan; state that the improvements will benefit the county as a whole; state the estimated costs of the improvements; and identify the data supporting the estimated costs, and

WHEREAS, the Board desires to approve improvements in the District's 2020 budget that are not in the District Comprehensive Plan, or that have been modified by the District's 2020 budget, in accordance with RCW 85.15.110, and

WHEREAS, the District reaffirms its commitment to the effective and efficient implementation of capital projects by contracting with King County, as its primary service provider, and other jurisdictions when appropriate;

NOW, THEREFORE, BE IT RESOLVED BY THE BOARD OF SUPERVISORS OF THE KING COUNTY FLOOD CONTROL ZONE DISTRICT:

SECTION 1. The Board hereby adopts the 2020 Budget for the District, as set forth in Attachments A ("Work Program"), B ("2020 Annual Budget"), C ("2020 Annual Operating Budget"), D ("2020 Annual Capital Budget"), E ("2020 - 2025 Six-Year CIP"), F ("2020 Annual District Oversight Budget"), G ("2020 Subregional Opportunity Fund Allocations") and H ("2020-2025 Six-Year CIP Project Allocations"); provided that King County, or other jurisdictions contracted to implement projects, work shall submit predesign reports for capital projects to the District executive director, and shall seek approval from the executive director of project charters. Furthermore, King County shall provide to the District executive committee thirty percent design project reports for authorization to proceed with sixty percent design.

SECTION 2. The Board approves the extension, enlargement, acquisition or construction, as applicable, of the improvements that are included in the District

43 Comprehensive Plan, that are included in the District Comprehensive Plan but have been
44 modified by Attachments C, D and H to this resolution, or that are not included in the
45 District Comprehensive Plan but are identified in Attachments C, D and H to this
46 resolution (collectively, the "Improvements"). The District Comprehensive Plan includes
47 the streams or water courses upon which the Improvements will be enlarged, extended,
48 acquired or constructed. The Board determines that the Improvements generally
49 contribute to the objectives of the District Comprehensive Plan and will be of benefit to
50 the county as a whole.

51 SECTION 3. The estimated costs of the Improvements are stated in Attachments
52 C, D and H to this Resolution and the supporting data for the estimated costs are on file
53 with the director of the King County water and land resources division.

54 SECTION 4. For Improvements that will be constructed, preliminary engineering
55 studies and plans either have been prepared or will be prepared, and have been filed or
56 will be filed, with the director of the King County water and land resources division.

57 SECTION 5. The Board authorizes the executive committee to modify project
58 budgets and schedules identified in Attachment H.

59 SECTION 6. The Board directs King County water and land resources division to
60 develop recommendations for the weir on Lake Sawyer.

61 SECTION 7. The Board directs King County water and land resources division to
62 convert seven temporary term limited positions to full time positions to District project
63 delivery goals.

64 SECTION 8. The Board directs King County water and land resources division to
65 prioritize the Middle Fork Snoqualmie Sediment Management study and the following

capital projects for implementation in the 2020-2025 capital improvement program as a condition for using District funds to pay for five new capital project staff positions: Middle Fork Snoqualmie PL 84-99 study, Tukwila - 205 Gunter Floodwall and other capital projects ready for implementation.

SECTION 9. The Board directs King County water and land resources division to provide a monthly report to the District executive director on the status of recruitment and hiring of all vacant and newly authorized positions funded by the District. If any of the five newly created capital project staff positions remain unfilled by August 1, 2020, the District may consider reallocating the Operating Budget to achieve project delivery goals through alternative contracting methods.

SECTION 10. The Board directs King County water and land resources division to provide a monthly report to the District executive director on the status of inspections of all facilities monitored and maintained by King County as a service provider to the District.

SECTION 11. The Board directs King County water and land resources division to positions provide a report on all facilities monitored and maintained by King County as a service provider to the District that have been altered as the result of a capital project by any entity other than the rivers and floodplain management section of King County water and land resources division by March 31, 2020.

SECTION 12. Section 3.6 of the interlocal agreement between the District and King County provides that King County shall notify the District executive director in writing if the county needs to modify or reprioritize capital projects. King County's notifications to the District executive director should include information regarding

89 variations within project budgets of more than twenty percent in the "acquisition",
90 "design", "construction", "contingency" and "total" expenditure categories, shown on
91 Attachment D to this resolution.
92

KING COUNTY FLOOD CONTROL ZONE DISTRICT
KING COUNTY, WASHINGTON

_____

Reagan Dunn, Chair

ATTEST:

_____

Melani Pedroza, Clerk of the Board

Attachments: A. King County Flood Control District 2019 Work Program, B. 2020 Annual Budget, C. 2020 Annual Operating Budget, D. 2020 Annual Capital Budget, E. 2020-2025 Six-Year CIP, F. 2020 Annual District Oversight Budget, G. 2019 Subregional Opportunity Fund Allocation, H 2020-2025 Six-Year CIP Project Allocations

Attachment A

King County Flood Control District 2019 Work Program

The District work program is comprised of three categories: district oversight and policy development, operations, and capital improvements. The Flood Control District contracts with King County for operations and capital improvements.

- District Oversight and Policy Development
  - Policy direction to guide Advisory Committee and King County as service provider
  - Financial planning, budgeting, levy rate, bonding (if any)
  - Administration of contracts
  - Asset management
  - Capital improvement priorities
  - Capital improvement implementation evaluation
  - Public awareness priorities
  - Post flood event review and evaluation
  - Federal and state legislative agenda
  - Legal services, financial management, and Washington State audit

- Operations Work Program
  - Annual Maintenance
  - Flood Hazards Plan, Grants, Outreach
  - Flood Hazard Studies, Maps, Technical Services
  - Flood Preparation, Flood Warning Center, Post Flood Recovery
  - Program Management, Supervision, Finance, Budget
  - Program Implementation,
  - District Planning, Outreach, Policy and Technical Services

- Capital Improvement Program (CIP)
  - Capital Improvement Projects Acquisitions and Elevations
  - Programmatic capital funding (Subregional Opportunity Fund, Cooperative Watershed Management Grants, Flood Reduction Grants)

2020 Priorities:

<u>Management & Budget</u>

- Seek federal assistance with US Army Corps issues
- Align capital expenditure schedules
- Provide budget issue requests to Advisory Committee
- Examining how to increase efficiency and efficacy in flood control capital project planning and delivery including a staffing analysis for District administration, an evaluation of the District's financial plan.

Policy Development

- Develop policy framework for monitoring and maintaining flood protection facilities
- Develop prioritization framework for Cooperative Watershed Management grant program
- Equity and Social Justice Policy
- Evaluate Home Elevation Program to recommend policy changes to make program more effective and accessible for residents at risk of flooding

Capital Projects

- Establish reporting format for delineating that portion a project's capital budget that meets habitat mitigation requirements and that portion dedicated to habitat restoration benefits
- Reports from WLRD on capital project progress

Real Estate

- Purchase property from willing sellers necessary for the capital project at the Gaco-Mitchell and Gunter portions of the Tukwila 205 levee
- Update facility inventory and real estate records
- Address property title issues

Reports

- Monthly hiring report
- Monthly inventory maintenance/inspection report

Planning and Studies

- Middle Fork Snoqualmie Planning Process
- Lower Green River Planning Process
- 2020 Flood Hazard Management Plan Update Process
- Levee Breach Study to evaluate and identify gaps in evacuation and shelter in place plans in areas impacted by a levee breech
- South Fork Skykomish Flood Study
- Greenwater and Lower Snoqualmie CMZs
- Evaluation of future flooding scenarios in partnership with the University of Washington
- Small stream flood studies
- Lake Saywer Weir analysis

Grants

- Monitor Opportunity Fund Project Implementation
- Monitor WRIA/CWM Grant progress and identify leveraging opportunities
- Develop prioritization framework for WRIA/CWM Grant Program
- Outreach for Flood Reduction Grants Program including funding opportunities for dam inundation mapping

Communications

- Develop new and updated District website
- Review and approve communications plans by Service Provider for planning processes, advisory committees, large wood, flood awareness, and special initiatives
- Conduct media outreach and response on identified priorities

- Participate in public meetings on priorities

King County ILA Service Provider Work Plan

Resource Management, Annual Maintenance, and Facility Monitoring

Program Summary: Coordinate facility and property maintenance for the District, which includes 500 flood protection facilities covering 119 linear miles and approximately 800 acres of land managed for flood mitigation purposes. Facility inspections and assessments may lead to proposed repairs in the capital program. Inspections and assessments also help to increase the potential for federal funding assistance for future flood damages.

Annual Maintenance Program:

- Manage work authorizations and coordinate with Department of Transportation (DOT) Road Services Division, Washington Conservation Corps, work crews from the Road Division, Earth Corps, the Department of Juvenile and Adult Detention's Community Work Program, or contractors on completion of maintenance activities:
    - Facility mowing
    - Access gate maintenance
    - Access road maintenance
    - Noxious and non-native plant removal
    - Irrigation and watering
    - Interpretive sign installation and maintenance.
- Coordinate design of facility and acquisition property re-vegetation projects.
- Coordinate design and implementation of volunteer planting and other land stewardship projects.
- Provide land and resource management including management of lands for appropriate levels of public access.
- Inspect, assess and, if necessary, remove hazardous trees.
- Collect and remove garbage from fee-simple owned property.

Flood Protection Facility Assessment and Monitoring Program

- Develop methods for facility inventory/assessment program.
- Conduct annual, spring and fall, facility assessments.
- Conduct, or assist with, post-flood damage assessments.
- Produce annual report on facility conditions.

Facility Maintenance and Repair Program

- Conduct or assist with facility assessments, consistent with the facility assessment and monitoring program.
- Coordinate with the U.S. Army Corps of Engineers (Corps) on PL 84-99 levee inspections including vegetation management, permitting, and mitigation (as necessary).
- Support or lead staff on the Green River Pump Station Operation and Maintenance Program.

Sediment Management, Large Woody Debris, In-stream Management Program

- Coordinate sediment management program/project actions to reduce flood risks.
- Coordinate large woody debris program/project actions to reduce flood risks.
- Monitor other in-stream hazards and coordinate associated flood risk reduction actions.

Flood Hazard Plan, Grants, Repetitive Loss Mitigation, and Public Outreach

Program Summary: Manage repetitive loss area mitigation coordination, public outreach, flood hazard management planning, and grant preparation. Repetitive loss mitigation is generally achieved by buying or elevating at-risk homes. While buyouts and elevations are funded via the capital program, the planning, prioritization, and the Federal Emergency Management Agency (FEMA) grant submittals are funded via the operating program. Most operating costs for grant development are reimbursable if the FEMA grant is awarded. Public outreach for specific capital projects is funded through the capital program; basin-wide outreach regarding on-going and planned capital projects is considered an operating expense.

Repetitive Loss Area Mitigation Planning

Program

- Track repetitive loss area and repetitive loss property information.
- Provide ongoing program database updates, including tracking property owner communications, interest, and staff recommendations for mitigation options.
- Manage and administer King County's Home Buyout and Elevation Program consistent with District acquisition policies.

Public Outreach and Communications Program

- Provide increased citizen preparedness for floods.
- Provide community outreach support for capital projects.
- Conduct annual basin-wide meetings and outreach regarding the full range of floodplain management activities, whether on-going or planned.
- Support media relation activities.
- Coordinate citizen involvement, and prepare and facilitate public meetings.
- Coordinate updates to webpage and other outreach and educational materials.
- Coordinate outreach to landowners with facility easements regarding maintenance work.
- Coordinate with the District to implement communications protocols.

Community Rating System (CRS) and federal Disaster Mitigation Act Coordination

- Manage the CRS program consistent with the newly adopted federal CRS manual, including coordination with other CRS jurisdictions in King County through the CRS Users Group.
- Complete annual CRS recertification documentation.
- Coordinate/manage updates and process to the planning and regulatory processes for future flood plan updates, King County's Regional Hazard Mitigation Plan, King County Comprehensive Plan, Shoreline Master Plan, and Critical Areas Ordinance. This includes coordination with other jurisdictions.

Grants Program

If resources are available, the following types of grant activities may be included:

- Develop grant applications for FEMA hazard mitigation assistance grants as well as post-flood funding. Develop other grant applications to support capital project implementation.
- Administer the biennial Washington State Department of Ecology Flood Control Assistance Account Program (FCAAP) grant process and track successful grants to ensure timely reporting.
- Coordinate and assist with preparation of applications for all state and federal flood hazard mitigation grant processes.

Provide grant application technical assistance to cities and other stakeholders, as needed. Grant prioritization within WLRD shall be based on the following considerations, in order of significance:

- The impacts to public safety.
- The portion of the project directly related to flood reduction.
- The risks of potential damage to infrastructure, including but not limited to businesses, homes, farms, and roads.
- Efficiency of staffing hours.

In addition to grant alerts to the District, WLRD shall transmit a grant overview report to the District by June 30 of each year including information with a description of grants for which WLRD has applied and how the above priorities were taken into consideration.

Flood Hazard Studies, Maps, and Technical Studies

Program Summary: Generate technical information used to characterize, quantify, and delineate flood risks, as well as to develop and implement strategies and actions to reduce those risks. Flood hazard technical information types include hydrologic and hydraulic studies, floodplain and channel migration zone maps, geologic studies, geographic information system (GIS) land use data, dam operations studies, risk assessments and flood hazard management corridor working maps. These technical assessments are used to inform the capital project feasibility, prioritization, and design process funded by the capital program.

- Conduct independently or with consultant contracts, as needed, the following technical study and mapping projects:
    - Floodplain delineation and mapping
    - Channel migration zone delineation and mapping
    - Channel monitoring
    - Gravel removal studies and analysis
    - Risk assessments
    - Hydraulic modeling
    - Landslide hazard mapping in areas that may intersect major river floodplains.
- Coordinate with FEMA and other local, state and federal agencies on mapping studies and products.
- Maintain accessible flood study and flood hazard data in a floodplain mapping library.

Flood Preparation, Flood Warning Center and Post Flood Recovery Program

Program Summary: Implement a comprehensive approach to preparing and educating citizens for flood events, coordinating emergency response and regional flood warning center operations during flood events, and ensuring consistency across basins for post-flood recovery actions. Post-flood damage assessments may result in capital projects to repair damaged facilities. Flood and post- flood activities are tracked with a unique project number so that expenditures may be submitted for any federal assistance that becomes available following a federal disaster declaration.

Flood Preparedness

- Coordinate flood hazard education program, communication tools (brochures, web content, customer service bulletins, etc.) to increase the awareness of flood risks and prepare citizens for flood events. This includes base-level participation in the regional Take Winter by Storm campaign.
- Track and disseminate flood hazard technical information to other King County departments (Department of Transportation (DOT), Department of Permitting and Environmental Review (DPER), etc.) and other local, state, and federal agencies.
- Coordinate annual flood awareness month and associated public information program strategy (meetings, websites, other) designed to increase the public's awareness of locally available resources and information.

Regional Flood Warning Center

- Staff the Regional Flood Warning Center monitoring and emergency first responder flood patrols during flood events.
- Coordinate with the following agencies in support of the Regional Flood Warning Center operations:
    - Local governments
    - City of Seattle and Corps on dam operations
    - National Weather Service on weather forecasts and flood predictions
    - King County Office of Emergency Management for coordinated emergency response activities
    - United Sates Geological Survey (USGS) on river gauging contract and gauge upgrades
    - King County DOT on road closures and emergency flood damage and repair response activities.

- Coordinate flood emergency response activities.

Post-Flood Recovery Operations Program

- Complete preliminary damage assessments, and develop and track FEMA public assistance Project Worksheet completion, expenditures and general documentation.
- Coordinate with FEMA and Corps on flood damage repairs and federal funding opportunities; determine eligibility.
- Identify projects and complete grant applications for post-disaster FEMA Hazard Mitigation Grant Program opportunities.

Program Management, Supervision; Finance, Budget and General Administration

Program Summary: Provide supervisory, budgeting, contract administration, and administrative services for the District.

Management and Supervision Tasks

- Manage the technical and business operations of the District work program and staff.
- Develop annual operating and capital budgets, work programs and staff allocations.
- Provide supervision, technical assistance and quality control/assurance to staff.
- Carry out responsibilities for hiring, management performance, developing training expectations and recommending effective discipline and termination.
- Ensure programs and projects are completed to carry out the goals and objectives of the River and Floodplain Management Program.
- Work collaboratively with other government and regulatory agencies, departments within King County, and the public to address environmental policies and issues related to floodplain management principles, goals and objectives.

Finance and Budget Operations

- Develop annual capital and operating budget.
- Track and report annual capital and operating budget, revenue and expenditures.
- Process approved reimbursement requests for Subregional Opportunity Fund, Water Resource Inventory Area (WRIA) Cooperative Watershed Management grants, and Flood Reduction grants.
- Provide grant and cost-share reporting, billing and documentation.
- Provide contract and procurement management, support and strategy. (Note: contract administration for specific capital projects is charged to the capital project budget rather than the operating budget.)
- Support capital project managers/engineers with detailed project expenditures, revenues, scheduling, contract management and other finance needs in support of CIP implementation.
- Contract record-keeping consistent with county, state, and federal policies and requirements.

General Administration

- Records maintenance.
- Copying, filing, correspondence, and scheduling.
- Meeting preparation, coordination and support.
- Photo-documentation management.
- General program administrative support.

Compliance

- Provide access to records including but not limited to contracts, invoices, timesheets.
- Respond to annual District audits, King County Council audits, state audits, grant-related audits, and quarterly procurement audits.
- File semi-annual and Annual Report with the Board of Supervisors and Executive Director in printed and electronic form for posting to the District website.
- Notify Executive Director in writing when project scope, budget or schedule change from the adopted capital improvement plan.
- Notify Executive Director of grant requests 30 days prior to grant due date or submittal

- Notify Executive Director of grant award within 10 days of grant approval.
- Work with Executive Committee and Executive Director to support the District's work with Advisory Committee.

King County Flood Control District Program Implementation

Program Summary: Implement flood hazard management programs and coordinate capital improvement projects for the District. Teams of staff are organized by river basin, supported by countywide technical services and countywide planning services, and will be responsible for identifying, implementing, and tracking flood risk reduction program and project actions within a given basin. Staff also coordinate four basin technical committees with partner jurisdictions and maintain relationships with communities and other agencies.

Basin Team and Basin Technical Committee Program

- Staff and coordinate regular Basin Technical Committees.
- Implement work program to guide private property owner and community outreach necessary to complete capital improvement projects.
- Develop ongoing relationships with cities, agencies, and stakeholders within the basin, and ensure consistency across basins.
- Coordinate on acquisition priorities with Acquisition Unit consistent with District acquisition policies.
- Coordinate and support logjam investigation and response/action.
- Respond to, investigate and provide technical assistance for enforcement on complaints and general inquiries. Conduct citizen and/or landowner contact, communication and outreach.
- Conduct annual public meetings about large wood.
- Coordinate with the DOT Road Services Division on construction crew scheduling.
- Provide quarterly project reporting to management.
- Address and seek resolution on basin-specific floodplain management issues.

King County Flood Control District Advisory Committee Coordination

- Provide staff support to the Flood Control District Advisory Committee and the Board of Supervisors, as requested by the Executive Director.
- Track basin technical committee meetings, issues, and cross-basin policy issues.
- Coordinate public process across the District to ensure consistent outreach across basins.
- Report District activities, accomplishments, revenues and expenditures through an annual report.
- Respond to Advisory Committee and Board of Supervisors requests for information regarding rate structure options, and other issues.

Flood Control District Committee Support

- Provide presentations and updates as requested by the Executive Director at meetings of the Executive Committee and Board of Supervisors.

Floodplain Management Planning

- Support Board discussions of policy issues, building on materials previously developed for

the Citizens Committee.

- Support Board engagement in capital project planning efforts, including the development of goals and evaluating alternative flood risk reduction actions. Participate in basin planning and coordination efforts such as the Lower Snoqualmie Flood-Fish-Farm work group.

Agriculture Needs Assistance

- Provide technical and modeling assistance and permitting support for farm pad proposals.
- Manage compensatory storage bank.
- Provide assistance to identify and pursue mitigation opportunities for barn and other farm structure elevations.
- Implement recommendations of the Farm/Flood Task Force as directed by District Executive Committee.
- Coordinate outreach to farmers and the King County Agriculture Commission to gather input on the unique needs of agriculture lands within flood hazard areas.

Capital Improvement Program Implementation

Program Summary: The vast majority of the proposed District work program and budget is dedicated to the implementation of major maintenance and capital projects. This work includes managing and implementing major maintenance, repair and new flood protection facility design, permitting and construction; home buyouts and acquisitions; home and barn elevations; and farm pad cost-share assistance.

The capital projects include those projects to be completed by jurisdictions through the Subregional Opportunity Fund program with funding allocated proportional to assessed value of each jurisdiction, grants recommended through the WRIA cooperative watershed management program, and the flood reduction grant program.

Construction of flood protection infrastructure has paved the way for considerable residential, commercial and industrial economic development in flood hazard areas. The flood protection infrastructure has reduced the frequency of flooding and severity of erosion, and contained flood flows within levees that has allowed for significant economic growth by promoting development of historical floodplains, as exemplified by the industrial and commercial development lining the lower Green River. However, these areas will always face the potential risk that the flood protection facilities could be overwhelmed, resulting in serious flood damage, significant impacts to the regional economy, or personal injury and death. While the costs of flood protection facility construction and maintenance are borne by the public, the value to the economy is a regional benefit.

The CIP will complete high priority and regionally significant flood hazard management capital improvement projects to significantly protect public safety and reduce flood risks to the regional economy, transportation corridors, and public and private infrastructure and property. These capital improvement projects include retrofits and repairs to levees and revetments; levee setbacks to improve slope stability and increase flood conveyance and capacity; and targeted acquisition of repetitive loss properties and other at-risk developments.

The CIP will provide project design, construction and management on the following project implementation elements, consistent with WLR Division's Project Management Manual:

- Scope and Concept
    - Identify problem, alternatives, recommended solution and project goals.

- Feasibility
    - Identify and conduct studies, analysis, cost estimates, resource needs, landowner issues.

- Acquisition
    - Obtain the necessary property rights to perform the work.

- Design and Permitting
    - Address all elements of the project (e.g. geomorphic, constructability)
    - Complete all federal, state and local permitting requirements (e.g. Corps, Endangered Species Act (ESA))
    - Survey
        - Conduct pre- and post-construction ("as-built") survey
    - AutoCAD
        - Develop design plan set
    - Hydraulic Modeling
        - Conduct pre- and post-project modeling
        - Complete Letter of Map Revision (LOMR) for constructed projects, when/if warranted
    - Ecological
        - Conduct pre- and post-construction monitoring
        - Complete pre-project feasibility studies/analysis
        - Provide project design support
        - Complete biological assessments/evaluations
            - Individual
            - Programmatic
        - Complete Section 7 ESA consultation
        - Coordinate or support permitting and permit agency outreach
    - State Environmental Policy Act (SEPA)
        - Complete individual project SEPA review
        - Complete programmatic SEPA review
    - Geotechnical Engineering Support/Geologist/Geotechnical
        - Provide sediment management monitoring, analysis and modeling
        - Conduct pre- and post-construction monitoring
        - Conduct pre-project feasibility studies/analysis
        - Provide project design support
    - Engineering (may include Project Management function as well)
        - Lead design engineer for projects
        - Manage construction of projects
        - Obtain resources for projects; make task assignments
        - Track and report project scope, schedule, and budget

        - Develop plan set for construction, or bid documentation support
        - Provide overall project quality assurance and quality control oversight
    - Project Management
        - Obtain resources for projects; make task assignments
        - Track and report project scope, schedule, and budget
        - Provide overall project quality assurance and quality control oversight
        - Monitoring and Adaptive Management o
            Pre-project baseline information o
            Construction Monitoring
            - Conduct pre- and post-construction monitoring
            - Provide monitoring reports to DPER and other agencies as required.

Central Costs/Overhead and Reimbursement from Capital

- This category includes use-based and FTE-based overhead costs from the Water and Land Resources Division of the Department of Natural Resources and Parks and King County. Examples include use-based charges for the Prosecuting Attorney's Office, risk management, and the financial management system, as well as FTE-based charges for building rent and utilities. When staff loan out from the operating fund to the capital fund, the capital fund reimburses the operating fund for FTE-related overhead charges.

King County Flood Control District

2020 Annual Budget

Attachment B

10/14/2019

Program	2018 Actuals	2019 Approved	2019 Revised	2020 Requested
Flood District Administration	774,817	886,638	886,638	913,238
Maintenance and Operation	8,909,077	12,839,055	13,370,743	13,464,210
Construction and Improvements	44,595,640	79,817,269	151,567,324	84,227,923
Bond Retirement and Interest	$0	$0	$0	$0
Total	54,279,534	93,542,962	165,824,705	98,605,371
Projected Capital Reserves - Cash Fund Balance [1]	81,912,806	56,841,663	89,876,187	76,527,264
Projected Capital Reserves - Budgetary Fund Balance [2]	(24,627,592)	(53,649,615)	(19,491,612)	(53,311,491)

[1] The cash fund balance assumes an expenditure rate of 28% of the capital budget in 2019, informed by prior year actuals.

[2] The budgetary fund balance assumes 100% expenditure of all budgeted amounts and is used to understand budgetary commitment.

King County Flood Control District

2020 Annual Operating Budget

Attachment C

10/14/2019

	2018 Actuals	2019 Approved	2019 Revised	2020 Requested
Annual Maintenance	$1,926,807	3,327,451	3,327,451	$3,305,056
Flood Hazards Plan, Grants, Outreach	$781,155	675,380	1,080,380	$675,380
Flood Hazard Studies, Maps, Technical Services	$882,230	2,598,916	2,686,497	$3,383,416
Flood Preparation, Flood Warning Center	$336,560	1,127,992	1,167,099	$991,042
Program Management, Supervision, Finance, Budget	$1,242,993	1,727,017	1,727,017	$1,727,017
Program Implementation	$822,928	246,986	246,986	$246,986
Overhead / Central Costs	$2,916,405	3,135,313	3,135,313	$3,135,313
Total	**$8,909,077**	**$12,839,055**	**$13,370,743**	**$13,464,210**

King County Flood Control District

2020 Annual Capital Budget

Attachment D

10/14/2019

Basin	Acquisition	Design	Construction	Contingency	Total
Snoqualmie River Basin	$414,037	$937,450	$6,569,994	$811,531	$8,733,012
Cedar River Basin	$673,453	$2,386,440	$3,377,137	$0	$6,437,030
Green River Basin	$1,215,689	$8,821,647	$37,953,674	$5,289,501	$53,280,510
White River Basin	$29,000	$829,747	$312,462	$0	$1,171,209
Effectiveness Monitoring	$0	$330,232	$0	$0	$330,232
Countywide Corridor Plan Implementation	$0	$0	$0	$0	$0
Countywide Miscellaneous	$0	$0	$0	$100,000	$100,000
Opportunity Fund	$0	$0	$6,091,017	$0	$6,091,017
Grant Fund	$0	$0	$3,274,741	$0	$3,274,741
WRIA Grant Funding	$0	$0	$4,810,172	$0	$4,810,172
Total	**$2,332,179**	**$13,305,516**	**$62,389,197**	**$6,201,032**	**$84,227,923**

King County Flood Control District

2020 - 2025 Six-Year CIP

Attachment E

10/14/2019

Name	2018 Actuals	2019 Approved	2019 Revised	2020 Requested	2021	2022	2023	2024	2025	2020 - 2025 Total
Snoqualmie River Basin	$15,985,846	$9,695,656	20,021,652	8,733,012	10,963,585	18,763,277	13,555,407	27,126,341	27,324,575	106,466,196
Cedar River Basin	$8,609,669	$9,274,753	22,015,617	6,437,030	12,171,435	2,441,445	4,940,367	3,541,720	3,932,358	33,464,355
Green River Basin	$6,759,173	$44,438,561	$64,046,578	53,280,510	85,805,463	76,741,492	10,806,094	8,565,231	5,092,073	240,290,863
White River Basin	$1,604,341	$2,392,600	2,635,621	1,171,209	1,259,966	8,672,705	8,508,038	136,895	190,000	19,938,813
Effectiveness Monitoring	$508,737	($431,365)	543,400	330,232	890,956	834,056	892,524	804,751	585,512	4,338,030
Countywide Corridor Plan Im	$0	($142,610)	-	-	-	-	-	-	-	-
Countywide Miscellaneous	$137,597	$850,000	1,394,971	100,000	392,592	396,870	401,276	405,815	410,489	2,107,042
Subregional Opportunity Fun	$3,643,555	$5,889,245	20,394,282	6,091,017	6,255,428	6,414,885	6,568,817	6,720,084	6,869,230	38,919,461
Flood Reduction Grants	$2,082,721	$3,166,261	8,859,103	3,274,741	3,363,133	3,448,863	3,531,622	3,612,948	3,693,134	20,924,441
WRIA Grants	$5,263,999	$4,684,168	11,656,100	4,810,172	4,939,566	5,072,440	5,208,889	5,349,008	5,492,896	30,872,971
Total	$44,595,640	79,817,269	151,567,324	84,227,923	126,042,124	122,786,033	54,413,034	56,262,793	53,590,266	497,322,173

King County Flood Control District

2020 Annual District Oversight Budget

Attachment F

10/14/2019

	2019 Adopted	2019 Revised	2020 Proposed
Management & Support	$290,310	$290,310	$299,020
Rent and Equipment	$12,299	$12,299	$12,668
Legal Services	$100,850	$100,850	$103,875
Accounting	$103,669	$103,669	$106,779
State Auditor	$20,762	$20,762	$21,385
Other Professional Services	$250,745	$250,745	$258,268
Expenses	$18,449	$18,449	$19,002
Insurance	$89,554	$89,554	$92,241
Total	**$886,638**	**$886,638**	**$913,238**

King County Flood Control District

2019 Subregional Opportunity Fund Allocations

Attachment G

10/14/2019

Jurisdiction	Opportunity Fund Allocation	Project Name	Project Description
Algona	$10,000	DEFERRING	
Auburn	$96,211	DEFERRING	
Beaux Arts	$10,000	DEFERRING	
Bellevue	$609,377	Meydenbauer Basin/NE 8th St. & 100th Ave NE Conveyance Improvement	Amendment adding budget to project that will reduce the flooding frequency at this intersection.
Black Diamond	$10,000	SR 169 & North Commercial Stormwater Treatment Facility	Design, permit and construct a vault to treat stormwater along SR 169.
Bothell	$61,647	DEFERRING	
Burien	$73,032	DEFERRING	
Carnation	$10,000	DEFERRING	
Clyde Hill	$28,225	Clyde Hill 2020 Storm Sewer Improvement Program	
Covington	$27,085	DEFERRING	
Des Moines	$43,468	DEFERRING	
Duvall	$12,508	DEFERRING	
Enumclaw	$15,182	Battersby Avenue Culvert Replacement	Amendment adding budget to project that will replace culverts to reduce flooding frequency of road and downtown area.
Federal Way	$112,149	DEFERRING	
Hunts Point	$11,790	2020 Operation & Maintenance	Remove sediment and debris; early detection of potential storm system problems.
Issaquah	$110,714	DEFERRING	
Kenmore	$47,378	DEFERRING	
Kent	$189,789	Lake Fenwick Aerator Upgrade	Amendment to add budget to project that will improve water quality of lake.
King County	$489,970	Natural Drainage Flood Program	Amendment adding budget that will be used to implement stormwater control improvements that address flooding problems.
Kirkland	$278,134	Spinney Homestead Regional Facility	Design a regional facility in the Forbes Creek Basin
Lake Forest Park	$30,834	L60 Culvert Replacement	Amendment to add budget to replace a structurally deficient and partial fish barrier culvert on Lyon Creek at NE 178th St.
Maple Valley	$39,340	Jenkins Creek Witte Road Culvert Replacement	Replace existing undersized culvert under Witte Road with concrete box culvert.
Medina	$42,664	Medina Park Stormwater Pond Improvements	Amendment adding budget to complete permitting, removing organic sediment, and installing outlet control device in upper pond.
Mercer Island	$141,177	Lincoln Landing Stormwater & Park Improvements Design	Amendment adding budget to design stormwater, shoreline and park improvements at a street end park.
Milton	$10,000	DEFERRING	
Newcastle	$34,624	S-038 Storm Conveyance Rehabilitation Program	Repair or replace degrading or failing stormwater infrastructure.
Normandy Park	$16,273	DEFERRING	
North Bend	$13,709	DEFERRING	
Pacific	$10,000	DEFERRING	
Redmond	$208,317	Willows Road Culverts	Amendment to add budget to replace undersized culvert with larger, fish passable box culvert.
Renton	$182,600	NE 16th and Jefferson Avenue NE Stormwater Green Connections	Improve conveyance and water quality along NE 16th St. and Jefferson Ave NE - install pipe, catch basins, bioretention facilities.
Sammamish	$177,027	DEFERRING	
SeaTac	$56,668	DEFERRING	
Seattle	$2,614,258	Broadview 12th Ave NW Drainage & Flooding Improvements	Amendment to add budget to design and implement drainage improvements to address the highest priority areas of surface water flooding in the west branch of Mohlendorph basin.
Shoreline	$114,074	Pump Station 26 Replacement	Amendment to add budget and extend timeframe to replace aging pump station
Skykomish	$10,000	DEFERRING	
Snoqualmie	$30,847	DEFERRING	
Tukwila	$60,871	1. Riverton Creek Plapgate Removal 2. East Marginal Way S. Stormwater Outfalls	1. Rehabilitate habitat within Riverton Creek and improve its connection to Duwamish River 2. Install treatment facilities to reconstruct a conveyance system and improve water quality in Duwamish River
Woodinville	$37,940	DEFERRING	
Yarrow Point	$13,135	2020 NE 42nd St. Stormwater	
Jurisdiction Totals	**$6,091,017**		

Deferrals	$976,656
Projects	$5,114,361

King County Flood Control District
Chair's Preliminary Working Draft for Discussion Purposes Only
2020 - 2025 Six-Year CIP Project Allocations
Attachment H
10/14/2019

Capital Investment Strategy Project
Grant/External Revenue Awarded
Cost Share Contribution to Others
Added in 2019
Proposed New Add in 2020

No.	Title	Basin	Type of project	2018 Inception to Date Expenditure	2019 Inception to Date Budget	2019 Available Budget	2020 Requested	2021 Forecasted	2022 Forecasted	2023 Forecasted	2024 Forecasted	2025 Forecasted	6-Year CIP Total	CIS Year 7-10	CIS 10+ Year	Project Life Total	Comments
1	WLFL0 SF SKYKMSH REP LOSS MIT	SF Skykomish	FCD Acqu/Elev	$638,668	$1,145,404	$506,736	($456,736)	$456,736	$0	$0	$0	$115,927	$115,927			$1,261,331	Baring. This project will elevate or buyout individual structures in the South Fork Skykomish Basin to eliminate the risk of flooding or erosion damage during future flood events.
2	WLFL0 SKY W RVR DR FLOOD STUDY	SF Skykomish	FCD Const	$2,856	$81,237	$78,381	($78,381)	$78,381	$0	$0	$0	$0	$0			$81,237	Skykomish. This project would improve infrastructure at the mouth of Maloney Creek and on the SF Skykomish River to reduce the frequency of flooding of homes and property within the Town of Skykomish.
3	WLFL0 SKYKOMISH LB DOWN 2016 REPAIR	SF Skykomish	FCD Const	$85,402	$150,000	$64,599	$0	$0	$0	$0	$0	$0	$0			$150,000	Skykomish. Approximately 50-foot-long section of missing armor rock immediately downstream of the bridge. Further flooding may compromise or severely damage facility.
4	WLFL0 TIMBER LN EROSN BUYOUTS	SF Skykomish	FCD Acqu/Elev	$1,959,242	$2,409,874	$450,632	($365,632)	$0	$765,632	$0	$0	$0	$400,000			$2,809,874	Skykomish. This project will continue to acquire and remove homes along a stretch of the Skykomish River that are endangered by erosive forces as well as inundation in some places.
5	WLFL0 TIMBERLANE 2016 REPAIR	SF Skykomish	FCD Const	$11,115	$16,040	$4,925	$0	$0	$0	$0	$0	$0	$0			$16,040	Skykomish. Project will lay back the privately-built rockery to reconstruct rock wall into stable revetment geometry. Will likely be implemented by the Strike Team.
6	WLFL0 TIMBERLANE 2019 REPAIR	SF Skykomish	FCD Const	$0	$600,000	$600,000	$0	$0	$0	$0	$0	$0	$0			$600,000	Skykomish. Revetment is approximately 300 LF along left bank of South Fork Skykomish River. Unstable section of vertical stacked rock is approximately 150 LF (needs verification). Failure has occurred previously in this section of revetment.
7	WLFL1 428TH AVE SE BR FEASIBILITY	Upper Snoq	FCD Const	$309,028	$309,028	$0	$0	$0	$0	$0	$0	$0	$0			$309,028	North Bend. Reduce neighborhood isolation from flooding. Develop a set of alternatives for improvements to 428th Avenue SE, SE 92nd Street, and Reinig Road to reduce the frequency of community isolation caused by floodwaters overtopping these roadways.
8	WLFL1 CIRCLE RVR RANCH RISK RED	Upper Snoq	FCD Const	$127,225	$540,165	$412,940	$133,524	$238,175	$4,052,588	$4,560	$0	$0	$4,428,848			$4,969,013	North Bend. This project will determine a preferred action to reduce long term risks from channel migration in the Circle River Ranch Neighborhood on the South Fork Snoqualmie River. Being conducted concurrent with South Fork Snoqualmie Corridor Plan.
9	WLFL1 MF SNO CORRIDOR IMP	Upper Snoq	FCD Const	$954	$954	$0	$0	$1,162,249	$1,196,980	$1,232,889	$377,890	$0	$3,970,008			$3,970,962	North Bend. Placeholder for corridor plan implementation project(s)
10	WLFL1 MF SNO CORRIDOR PLAN	Upper Snoq	FCD Const	$1,502,409	$1,824,912	$322,503	$27,585	$0	$0	$0	$0	$0	$27,585			$1,852,497	North Bend. Middle Fork Snoqualmie Corridor Planning, scheduled for completion in 2018.
10	WLFL1 MF SNO PL84-99	Upper Snoq	FCD Const	$0	$0	$0	$75,000	$75,000	$0	$0	$0	$0	$150,000			$150,000	North Bend. Upgrade the Middle Fork Snoqualmie levees to meet the US Army Corps of Engineers PL84-99 certification standards.
11	WLFL1 MF RESIDENTIAL FLD MTGTN	Upper Snoq	FCD Acqu/Elev	$0	$0	$0	$120,000	$525,000	$1,830,000	$1,830,000	$1,830,000	$2,265,000	$8,400,000			$8,400,000	North Bend. Replace two existing rusted out 48" corrugated metal pipes on Norman Creek under 428th Ave SE with a new precast concrete box culvert. The new culvert will reduce the time it takes to drain the flood waters off of private property by increasing the capacity of the crossing. Currently when the North Fork Snoqualmie River overflows water backs up against 428th and impedes use of the roadway as the Norman Creek crossing is the normal outflow for this flood water once the North Fork has overtopped the adjacent levees.
12	WLFL1 NORMAN CREEK DS CULV	Upper Snoq	Agreement	$722,582	$724,000	$1,418	$0	$0	$0	$0	$0	$0	$0			$724,000	North Bend. Replace two existing rusted out 48" corrugated metal pipes on Norman Creek under 428th Ave SE with a new precast concrete box culvert. The new culvert will reduce the time it takes to drain the flood waters off of private property by increasing the capacity of the crossing. Currently when the North Fork Snoqualmie River overflows water backs up against 428th and impedes use of the roadway as the Norman Creek crossing is the normal outflow for this flood water once the North Fork has overtopped the adjacent levees.
13	WLFL1 NORMAN CREEK US 2024 CULV	Upper Snoq	Agreement	$0	$0	$0	$0	$0	$0	$350,000	$750,000	$0	$1,100,000			$1,100,000	North Bend. Improve SE 92nd Street, east of 428th Street, and alleviate roadway flooding by installing a new box culvert.
14	WLFL1 NORTH FORK BRIDGE 2016 REPAIR	Upper Snoq	Agreement	$177,742	$177,742	$0	$0	$0	$0	$0	$0	$0	$0			$177,742	North Bend. The North Fork Bridge was originally built in 1951 and is extremely vulnerable to scour as the channel thalweg migrates. In order to keep the bridge safe and reliable during a flood, it is important to protect the piers and abutments from scour failure.
15	WLFL1 NORTH FORK BRIDGE FEASIBILITY	Upper Snoq	Agreement	$0	$200,000	$0	$0	$0	$0	$0	$0	$0	$0			$200,000	North Bend. Initiate feasibility study to mitigate the risk of scour damage to the North Fork Bridge by retrofitting the existing structure with deep foundations or alternative risk mitigation strategies.
16	WLFL1 RECORD OFFICE 2016 REPAIR	Upper Snoq	Agreement	$29,181	$987,835	$958,654	$0	$0	$0	$0	$0	$0	$0			$987,835	Snoqualmie. Repair downstream 200 lineal feet of facility which is missing face rock and toe rock. A significant scour hole has formed around a City of Snoqualmie stormwater outfall pipe at the downstream end of facility. Potential erosion impact to Park Ave SE in City of Snoqualmie, an area included in the City's planned "Riverwalk" park and trail project. Project implemented by City of Snoqualmie as part of Riverwalk project, construction is scheduled for 2020.
17	WLFL1 REIF RD LEVEE IMPROVEMENTS	Upper Snoq	FCD Const	$0	$0	$0	$0	$0	$265,438	$318,421	$385,937	$457,218	$1,427,014			$1,427,014	North Bend. Conduct a feasibility study to determine ways of preventing the overtopping of the Reif Rd Levee. Potential solutions include: repair and/or raise levee in place / setback levee / gravel removal / home elevations.
18	WLFL1 BENDIGO UPR SETBACK NORTH BEND	Upper Snoq	Agreement	$0	$50,000	$50,000	$0	$0	$0	$0	$0	$4,200,000	$4,200,000			$4,250,000	North Bend. Cost-share of $8.4M levee setback project. The overtops at a 20-year or greater flood, inundating undeveloped property, railway lines and roadways. Project would reconnect 25 acres of floodplain and construct a new levee that meets current engineering guidelines. City has submitted grant application for the remaining $4.2 million
19	WLFL1 REINIG RD ELEVATION	Upper Snoq	Agreement	$0	$0	$0	$0	$0	$0	$0	$50,000	$100,000	$150,000			$150,000	Snoqualmie. Elevate low section of Reinig Rd to alleviate flooding that blocks roadway.
20	WLFL1 REINIG RD RVTMNT 2016 REPAIR	Upper Snoq	FCD Const	$391,568	$1,200,000	$808,432	$4,057,657	$25,462	$0	$0	$0	$0	$4,083,119			$5,283,119	North Bend. Repair three primary damage sites just upstream and directly across from the South Fork Snoqualmie confluence totaling ~285 lineal feet. Construction is anticipated in 2020.
21	WLFL1 RIBARY CREEK	Upper Snoq	FCD Const	$0	$36,492	$36,492	$150,000	$450,000	$2,338,618	$3,223,883	$0	$0	$6,162,501			$6,198,993	North Bend. Address flooding from Ribary Creek at Bendigo Blvd in North Bend as the Snoqualmie levees prevent drainage to the river during high flows.
22	WLFL1 SF CIS MED TERM	Upper Snoq	FCD Const	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$43,000,000		$43,000,000	North Bend. Implement projects identified in the Capital Investment Strategy, approved as policy direction by the Executive Committee.
23	WLFL1 SF CIS LONG TERM	Upper Snoq	FCD Const	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0		$57,100,000	$57,100,000	North Bend. Implement projects identified in the Capital Investment Strategy, approved as policy direction by the Executive Committee.
24	WLFL1 SF SNO CORRIDOR PLAN	Upper Snoq	FCD Const	$2,573,493	$2,573,493	$0	$0	$0	$0	$0	$0	$0	$0			$2,573,493	North Bend. SF Snoqualmie Corridor planning process and development of capital investment strategy.

No.	Title	Basin	Type of project	2018 Inception to Date Expenditure	2019 Inception to Date Budget	2019 Available Budget	2020 Requested	2021 Forecasted	2022 Forecasted	2023 Forecasted	2024 Forecasted	2025 Forecasted	6-Year CIP Total	CIS Year 7-10	CIS 10+ Year	Project Life Total	Comments
25	WLFL1 SF SNO LEVEE REMEDIATION	Upper Snoq	FCD Const	$173,977	$388,000	$214,023	$0	$727,790	$1,031,736	$0	$0	$0	$1,759,526			$2,147,526	North Bend. Six levee deficiencies have been identified in this leveed segment. The project will design and reconstruct the impaired segment of levee in place.
26	WLFL1 SHAKE MILL LB 2016 REPAIR	Upper Snoq	FCD Const	$388,601	$3,550,000	$3,161,399	$0	$0	$0	$0	$0	$0	$0			$3,550,000	North Bend. Total breach of levee - erosion and lateral channel migration is ongoing. No immediately adjacent private property or infrastructure. Continued erosion could threaten 428th Ave embankment or bridge.
27	WLFL1 SHAKE MILL RB 2016 REPAIR	Upper Snoq	FCD Const	$1,090	$51,090	$50,000	$100,000	$360,910	$0	$0	$0	$0	$460,910			$512,000	North Bend. Between 428th St Bridge and Tate Creek, several locations on levee where toe-rock dislodged and corresponding minor bank erosion along 50-60 feet of river bank. Actual gaps range between 6-10 feet. Missing toe rock compromises levee integrity, increasing its vulnerability to further scour and potential failure. Failure of this facility could result in damage to a heavily used county road (428th Ave SE). Scheduled for 2018 construction.
28	WLFL1 SI VIEW RM4 2017 REPAIR	Upper Snoq	FCD Const	$136,754	$396,754	$260,000	$0	$0	$0	$0	$0	$0	$0			$396,754	North Bend. Repair approximately 25 lineal feet of the facility with missing toe rock and shallow scour scallop into bank that is approximately 1-2 feet deep. Si View Levee is a relatively short flood containment levee that protects 50+ homes in the Si View Park Neighborhood of North Bend from flooding. Project scheduled for 2018 construction.
29	WLFL1 SR202 SF BRIDGE LENGTHEN	Upper Snoq	FCD Const	$0	$0	$0	$0	$0	$0	$0	$0	$100,000	$100,000			$100,000	North Bend. Placeholder funding to partner with WSDOT to expand bridge SR202 opening over South Fork Snoqualmie and Ribary Creek to improve conveyance and reduce upstream flood impacts. Supported by North Bend. Requires state or federal funding. Relative contribution of this project is being evaluated in the SF Snoqualmie Corridor Plan.
30	WLFL1 TATE CR SCOUR FEASIBILITY	Upper Snoq	Agreement	$0	$0	$0	$0	$0	$0	$150,000	$0	$0	$150,000			$150,000	North Bend. Prepare a Concept Development Report (CDR) to analyze and select best span/alignment replacement bridge and road-raising option as the current bridge does not provide enough hydraulic opening due to the transport of sediments and water overtops the approaches during floods.
31	WLFL1 UPPER SNOQ 2015 FLOOD REPAIR	Upper Snoq	FCD Const	$555,771	$556,781	$1,009	$0	$0	$0	$0	$0	$0	$0			$556,781	North Bend. Flood damage repairs from January 2015 flood event. Locations include Mason-Thorson Ells and Mason-Thorson Extension (Middle Fork Snoqualmie); North Park (North Fork Snoqualmie); and Record Office, Meadowbrook, and Railroad (Snoqualmie mainstem).
32	WLFL1 UPR SNO RES FLD MITIGTN	Upper Snoq	FCD Acqu/Elev	$11,411,570	$12,717,550	$1,305,980	$1,756,037	$2,295,755	$2,364,628	$2,435,567	$2,508,634	$2,583,893	$13,944,513			$26,662,063	Snoqualmie. This project will continue to acquire or elevate flood-prone structures in the Upper Snoqualmie basin to reduce the risk of flood, erosion, and channel migration damage. Partnership with City of Snoqualmie to elevate homes and cost-share acquisition of homes where City is planning to construct the Riverwalk project.
33	WLFL1 USACE PL 84-99 SF SNO	Upper Snoq	FCD Const	$4,769	$333,377	$328,608	$0	$352,868	$363,454	$0	$0	$0	$716,322			$1,049,699	North Bend. Ensure eleven South Fork Snoqualmie River levees meet the standards of the US Army Corps of Engineers PL 84-99 program in order to receive future assistance from the Corps in the event of flood damage to the levees..
34	WLFL2 264TH AVE NE AT SR 202 FLD IMPRVMNT	Lower Snoq	Agreement	$0	$0	$0	$0	$0	$0	$0	$0	$540,000	$540,000			$540,000	Redmond. Alleviate flooding on this sole access road by replacing the existing culverts and raising the roadway to elminate over-topping.
35	WLFL2 334TH AVE SE & SE 43RD PL FLD IMPRVMNT	Lower Snoq	Agreement	$0	$0	$0	$0	$0	$0	$0	$0	$500,000	$500,000			$500,000	Improve drainage to alleviate neighborhood flooding by constructing a drainage system to flow to the Snoqualmie River.
35	WLFL2 CITY SNOQ HOME ELEVATIONS	Lower Snoq	Agreement	$0	$0	$0	$1,118,000	$0	$0	$0	$0	$0	$1,118,000			$1,118,000	City of Snoqualmie: Elevate several flood-prone homes in the areas around Walnut St and Northern St.
36	WLFL2 DUTCHMAN RD REPAIR	Lower Snoq	FCD Const	$0	$48,593	$48,593	$0	$200,000	$500,000	$0	$0	$0	$700,000			$748,593	Duvall. Repair approximately 200 feet of revetment. Dutchman Road in this location provides the sole access to residences and business on the west side of the Snoqualmie Valley downstream of Duvall. Continued erosion of the revetment could result in erosion of the road (West Snoqualmie Valley Road NE) which would severely limit access to the downstream property owners during or following a flood event.
37	WLFL2 L SNO SCOUR REPAIR 2017	Lower Snoq	Agreement	$143,386	$150,000	$6,614	$0	$0	$0	$0	$0	$0	$0			$150,000	Fall City. The foundation of the main-span pier is exposed and is vulnerable to destabilization during a flood. Add scour mitigation measures to protect footing. Bridge crosses the Snoqualmie River at Duvall and is the city's primary route.
38	WLFL2 FARM PAD PROGRAM	Lower Snoq	FCD Acqu/Elev	$805,446	$979,803	$174,357	$0	$115,214	$118,670	$122,230	$125,897	$129,674	$611,685			$1,591,488	Carnation. This project provides technical and cost-sharing assistance to agricultural landowners in the Lower Snoqualmie floodplain to help them better withstand the impacts of flooding. Specific project actions include farm pads and elevation or flood proofing of agricultural structures.
39	WLFL2 L SNO REP LOSS MITGTION	Lower Snoq	FCD Acqu/Elev	$1,269,231	$1,695,671	$426,440	$0	$0	$0	$0	$0	$0	$0			$1,695,671	Carnation. Funding as possible local match for FEMA grants to elevate or acquire at-risk structures.
40	WLFL2 L SNO/ALDAIR CORRDOR PLN	Lower Snoq	FCD Const	$6,326,158	$7,365,814	$1,039,656	$0	$0	$0	$0	$0	$0	$0			$7,365,814	Fall City. Cost-shared contribution to multiple levee setbacks and high priority flood risk reduction acquisitions in the Fall City reach of the Lower Snoqualmie. Projects reduce flood and erosion risk to revetments, roads, and landowners. FCD expenditure leverages habitat restoration funding from other sources.
41	WLFL2 LWR SNO RESDL FLD MITGTN	Lower Snoq	FCD Acqu/Elev	$2,201,472	$3,043,609	$842,137	$272,863	$530,450	$546,363	$562,754	$579,637	$0	$2,492,068			$5,535,677	Carnation. This project provides technical and cost-sharing assistance to residential and agricultural landowners in the Lower Snoqualmie floodplain to help them better withstand the impacts of flooding. Specific project actions include farm pads, elevations of homes, and elevation or flood proofing of agricultural structures.
41	WLFL2 MUD CREEK SEDIMENT FACILITY	Lower Snoq	Agreement	$0	$0	$0	$432,000	$0	$0	$0	$0	$0	$432,000			$432,000	Snoqualmie: Design and permit a sediment facility to minimize sediment deposition, flooding, and channel avulsions at this site.
42	WLFL2 SE 19TH WAY REVETMENT	Lower Snoq	FCD Const	$1,643,036	$1,916,294	$273,258	$0	$0	$0	$0	$0	$0	$0			$1,916,294	Fall City. Rebuild revetment to protect road access to high value agricultural operations and lands. Construction is complete.
43	WLFL2 SE DAVID POWELL RD DOWNSTREAM	Lower Snoq	Agreement	$594,807	$595,098	$291	$0	$0	$0	$0	$0	$0	$0			$595,098	Fall City. Reduce neighborhood isolation from flooding. Prevent slope failure of sole access roadway that would isolate 150 homes.
44	WLFL2 L SNO 2019 BANK REPAIR	Lower Snoq	Agreement	$226,149	$2,200,000	$1,973,851	$0	$0	$0	$0	$0	$0	$0			$2,200,000	Fall City. The river is scouring the road away and David Powell Road is collapsing into the river. This project will repair an existing failing revetment and extend MSE wall to prevent undercutting of the riverbank and roadway.
45	WLFL2 SE FISH HATCHERY RD	Lower Snoq	Agreement	$496,163	$496,163	$0	$0	$0	$0	$0	$0	$0	$0			$496,163	Fall City. Reduce neighborhood isolation from flooding. Prevent slope failure of sole access roadway that would isolate 20-30 homes.
46	WLFL2 FISH HATCHERY RD BR #61B REPAIR	Lower Snoq	Agreement	$0	$0	$0	$80,000	$620,000	$0	$0	$0	$0	$700,000			$700,000	Duvall. Strengthen the bridge structure to stabilize it after the most recent flood event, rebuild the east approach roadway to address the current issue and to protect it against major flood events in the future, and restore the eroded creek bed and riverbank profile to buffer the bridge against scour.
46	WLFL2 SINNEMA QUAALE 2011 REPR	Lower Snoq	FCD Const	$12,439,513	$12,508,516	$69,003	$0	$0	$0	$0	$0	$0	$0			$12,508,516	Duvall. Large capital project to repair 1000 linear feet of the Sinnema Quaale Upper revetment. Protects SR 203, two regional fiber optic lines, and Snoqualmie Valley Trail. Construction is complete.
47	WLFL2 SNOQUALMIE VALLEY FEAS	Lower Snoq	Agreement	$0	$0	$0	$0	$250,000	$250,000	$0	$0	$0	$500,000			$500,000	Duvall. Regional flooding in the Snoqualmie Valley cuts off access to eastern cities. Determine which major roadway(s) that cross the Snoqualmie Valley would be the most cost effective to improve in the valley with chronic flood issues impacting over 25,000 daily drivers.

No.	Title	Basin	Type of project	2018 Inception to Date Expenditure	2019 Inception to Date Budget	2019 Available Budget	2020 Requested	2021 Forecasted	2022 Forecasted	2023 Forecasted	2024 Forecasted	2025 Forecasted	6-Year CIP Total	CIS Year 7-10	CIS 10+ Year	Project Life Total	Comments
48	WLFL2 STOSSEL RB 2018 REPAIR	Lower Snoq	FCD Const	$907,886	$1,107,886	$200,000	$0	$0	$0	$0	$0	$0	$0			$1,107,886	Carnation. This completed project repaired approximately 250 feet of damage identified in late March 2018 to a section of the Stossel Bridge Right Bank Revetment on the Snoqualmie River, downstream of the City of Carnation.
49	WLFL2 STOSSEL LONG TERM REPAIR	Lower Snoq	FCD Const	$0	$0	$0	$50,000	$150,000	$170,000	$500,000	$2,500,000	$0	$3,370,000			$3,370,000	CarnationPlaceholder costs for long-term facility improvement project to prevent erosion undermining 310th Ave NE.
50	WLFL2 TOLT PIPELINE PROTECTION	Lower Snoq	FCD Const	$10,342,073	$10,778,068	$435,995	$0	$0	$0	$0	$0	$0	$0			$10,778,068	Carnation. This project will repair approximately 800 linear feet of the Winkelman (formerly RM 13.5) revetment. Erosion along the right bank of the Snoqualmie River channel threatens to undermine the Seattle Public Utilities water supply line at this location south of Duvall. Construction is complete.
51	WLFL2 DUVALL SLOUGH 2017 IMPRV	Lower Snoq	Agreement	$277,937	$400,000	$122,063	$0	$0	$0	$0	$0	$0	$0			$400,000	Duvall. These two bridges are subject to having the roadway approach fill wash out during a flood. Excavate approaches and rebuild approaches to prevent loosing approaches during flooding. A similar repair was done on Woodinville-Duvall Bridge No. 1136D.
52	WLFL3 FREW LEVEE 2016 REPAIR	Tolt	FCD Const	$164,558	$360,360	$195,802	$0	$0	$0	$0	$0	$0	$0			$360,360	Carnation. Face rock displaced along approximately 50 feet of levee face. Some core material appears to have been lost, resulting in an over steepened bank relative to upstream and downstream undamaged levee sections. Top of damaged face approximately 6 feet from edge of gravel trail. Continued erosion will cut off popular riverside trail. Potential impact to highway if facility breaches during a major flood. Construction is complete.
53	WLFL3 GIRL SCOUT LEVEE 2016 REPAIR	Tolt	FCD Const	$160,096	$311,000	$150,904	$0	$0	$0	$0	$0	$0	$0			$311,000	Carnation. Repair approximately 20 feet of face and toe rock dislodged from Girl Scout Camp levee revetment below side channel confluence with mainstem. Missing face and toe rock compromises levee integrity, increasing its vulnerability to further scour and potential failure. Scheduled for 2018 construction.
54	WLFL3 HOLBERG 2019 REPAIR	Tolt	FCD Const	$0	$25,000	$25,000	$25,000	$450,000	$0	$0	$0	$0	$475,000			$500,000	Carnation. Facility failure has consequences for property owners immediately landward of facility. Potential for high flows and erosive damage to residences and property.
55	WLFL3 HOLBERG FEASIBILITY	Tolt	FCD Const	$62,156	$263,969	$201,813	$84,222	$0	$0	$0	$0	$0	$84,222			$348,191	Carnation. Feasibility study to determine the nature and extent of levee improvements necessary to remove four homes in unincorporated King County from the regulatory Channel Migration Zone as mapped in the March 2017 Draft Tolt River Channel Migration study
56	WLFL3 LOWER FREW LEVEE SETBACK	Tolt	FCD Const	$237	$478,664	$478,427	$100,000	$700,000	$850,000	$700,000	$14,650,000	$100,000	$17,100,000			$17,578,664	Carnation. Capital Investment Strategy: Design, based on level of service analysis, the highest priority levee setback for flood risk reduction. Phase 2 construction estimated in CIS at $14.5M-$16.7M
57	WLFL3 LOWER TOLT RIVER ACQUISITION	Tolt	FCD Acqu/Elev	$529,475	$744,475	$215,000	($190,000)	$0	$0	$0	$0	$0	($190,000)			$554,475	Carnation. Acquisition between the Swiftwater development and the river for the future setback of the Upper Frew Levee
58	WLFL3 REMLINGER LEVEE 2017 REPAIR	Tolt	FCD Const	$139,912	$311,000	$171,088	$0	$0	$0	$0	$0	$0	$0			$311,000	Carnation. Damage is approximately 60 lineal feet of the facility with missing toe rock and undermined face rock near the Snoqualmie Valley Trail. The damage is at the downstream end of Remlinger facility and a breach or continued erosion would increase flooding impacts on portions of the Remlinger property. Construction complete.
59	WLFL3 RIO VISTA PROPERTY ACQ	Tolt	FCD Acqu/Elev	$203	$500,000	$499,797	($449,797)	$0	$449,797	$0	$0	$0	$0			$500,000	Carnation. Capital Investment Strategy: Acquire 2 at-risk homes from willing sellers; acquire remaining 14 homes as funds become available.
60	WLFL3 SAN SOUCI NBRHOOD BUYOUT	Tolt	FCD Acqu/Elev	$4,359,533	$4,953,353	$593,820	$0	$0	$0	$0	$0	$0	$0			$4,953,353	Carnation. This project will buyout remaining properties and remove all homes and privately-constructed rubble levee at upstream end of the community access road, ultimately completing project initiated 20 years ago by others. Approximately 20 homes removed from high hazard areas within and just upstream and downstream of San Souci neighborhood.
61	WLFL3 SAN SOUCI REACH IMPRVMNTS	Tolt	FCD Const	$0	$160,000	$160,000	$25,000	$90,000	$700,000	$700,000	$825,000	$0	$2,340,000			$2,500,000	Carnation. Capital Investment Strategy: Construct Tolt Road NE road elevation in one location. Remove illegal revetment and roads in San Souci neighborhood.
62	WLFL3 SEDIMENT MGMT FEAS	Tolt	FCD Const	$6,499	$402,805	$396,306	$38,553	$15,648	$0	$0	$0	$0	$54,201			$457,006	Carnation. Capital Investment Strategy: Conduct sediment management feasibility study and develop a plan. Update and include upper watershed sediment production estimates
63	WLFL3 SR 203 BR IMPRVMNTS FEAS	Tolt	FCD Const	$1,104	$395,900	$394,796	$0	$0	$0	$0	$0	$0	$0			$395,900	Carnation. Capital Investment Strategy: Initiate study (with potential future design and construct) to add bridge span(s), raise the highway and relocate King County Parks parking area.
64	WLFL3 TOLT 2015 FLOOD REPAIRS	Tolt	FCD Const	$46,909	$46,909	$0	$0	$0	$0	$0	$0	$0	$0			$46,909	Carnation. Flood damage repairs from January 2015 flood event. Locations include Frew, Upper Frew, Remlinger, and Girl Scout Camp.
65	WLFL3 TOLT CIS MED TERM	Tolt	FCD Const	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$56,250,000		$56,250,000	Carnation. Implement projects identified in the Capital Investment Strategy, approved as policy direction by the Executive Committee.
66	WLFL3 TOLT CIS LONG TERM	Tolt	FCD Const	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0		$28,800,000	$28,800,000	Carnation. Implement projects identified in the Capital Investment Strategy, approved as policy direction by the Executive Committee.
67	WLFL3 TOLT CORRIDOR PLAN	Tolt	FCD Const	$1,138,802	$1,153,657	$14,855	$0	$0	$0	$0	$0	$0	$0			$1,153,657	Carnation. The corridor plan for the lower 6 miles of the Tolt River will develop a prioritized implementation strategy for near-term and long-term floodplain management actions. Scheduled for adoption in 2017.
68	WLFL3 TOLT R LEVEE L.O.S. ANALYSIS	Tolt	FCD Const	$156,769	$413,484	$256,715	$278,651	$31,031	$0	$0	$0	$0	$309,682			$723,166	Carnation. Capital Investment Strategy: Conduct a detailed hydraulic analysis to optimize the elevation of new levees to maximize flood risk reduction benefits
69	WLFL3 TOLT R MILE 1.1 ACQ	Tolt	FCD Acqu/Elev	$4,120,326	$4,306,106	$185,781	($50,781)	$850,781	$0	$0	$0	$0	$800,000			$5,106,106	Carnation. Acquisition funding for high risk properties in levee setback project area. Project priorities will be determined by the Board through adoption of the Tolt Corridor Plan.
70	WLFL3 TOLT R NATURAL AREA ACQ	Tolt	FCD Acqu/Elev	$2,550,314	$2,605,067	$54,753	$1,350,247	$0	$685,000	$0	$0	$0	$2,035,247			$4,640,314	Carnation. Capital investment strategy: acquire at-risk homes from willing sellers.
71	WLFL3 TOLT R RD ELEVATION FEASIBILITY	Tolt	FCD Const	$49,508	$250,000	$200,492	$0	$0	$0	$0	$0	$0	$0			$250,000	Carnation. Reduce neighborhood isolation from flooding. Evaluate feasibility of elevating sections of Tolt River Road.
72	WLFL3 TOLT R RD NE IMPROVEMENTS	Tolt	FCD Const	$0	$0	$0	$0	$53,045	$109,273	$225,102	$1,043,347	$1,432,863	$2,863,628			$2,863,628	Carnation. Capital Investment Strategy: Initiate design for elevation of one road location to reduce or eliminate isolation. Implement additional road elevations as funds become available.
73	WLFL3 UPPER FREW LEVEE SETBACK	Tolt	FCD Const	$0	$0	$0	$50,000	$159,090	$175,099	$1,200,000	$1,500,000	$14,800,000	$17,884,189			$17,884,189	Carnation. Capital Investment Strategy: Initiate the levee setback design in order to apply for grant funding. Levee setback to increase sediment storage and floodwater conveyance; protect adjacent development; reduce damage to trail bridge.
74	WLFL4 ALPINE MANOR NEIGHBORHOOD BUYOUTS	Raging	FCD Acqu/Elev	$1,753,659	$1,853,460	$99,801	$0	$0	$0	$0	$0	$0	$0			$1,853,460	Fall City. Acquisition of single-family homes and future acquisition of mobile home park at risk of channel migration along the Raging River in the Alpine Manor neighborhood.
75	WLFL4 RAGING MOUTH TO BR 2017 REPAIR	Raging	FCD Const	$257,426	$500,000	$242,574	$0	$0	$0	$0	$0	$0	$0			$500,000	Fall City. Repair 150 lineal feet of discontinuous damage and missing toe rock. The levee protects the landward area from flooding and serves as the road embankment for Dike Rd, an access road to the Fall City boat launch. The damaged levee section is immediately adjacent to the Twin Rivers golf course barn, which would experience greater flooding if the levee were breached. Scheduled for 2018 construction.

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76	WLFL4 RAGING SCOUR REPAIR 2017	Raging	Agreement	$25,062	$80,000	$54,938	$0	$0	$0	$0	$0	$0	$0			$80,000	Fall City. This bridge has a history of scour damage. One of the arch foundations is exposed. Repair scour mitigation measures to protect the footing. It serves only one house but is a designated King County Landmark.
77	**Snoqualmie-South Fork Skykomish Subtotal**			$74,399,800	$94,421,452	$19,821,651	$8,733,012	$10,963,585	$18,763,277	$13,555,407	$27,126,341	$27,324,575	$106,466,196	$99,250,000	$85,900,000	$386,037,648	
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80	WLFL5 ALLEN LK OUTLET IMPRVMNT	Sammamish	Agreement	$0	$0	$0	$400,000	$1,400,000	$1,000,000	$0	$0	$0	$2,800,000			$2,800,000	Sammamish. To address chronic flooding on this sole access roadway with approximately 200 properties, look at upstream and downstream retention/detention options; study road-raining options; prepare Concept Development Report, analyze and select best options.
80	WLFL5 GEORGE DAVIS CRK CITY OF SAMMAMISH	Sammamish	Agreement	$0	$0	$0	$400,000	$0	$0	$0	$0	$0	$400,000			$400,000	Sammamish: This project will restore access to one river mile of high quality kokanee salmon habitat and reduce the risk of flooding by reducing sediment deposition.
81	WLFL5 SAMMAMISH R BANK REPAIRS	Sammamish	FCD Const	$1,632,936	$1,180,065	($452,871)	$0	$0	$0	$0	$0	$0	$0			$1,180,065	Woodinville. Repair and stabilize two short sections of the right riverbank near I-405 to protect the regional Sammamish River trail. Work is being coordinated with Parks. Full permitting will be required as work will be below OHW, plus an updated easement will be required from WSDOT and FHWA due to I-405 proximity. Construction is targeted for summer 2016 and will likely require detouring trail users to adjacent roads.
82	WLFL5 WILLOWMOOR FLDPLAIN REST	Sammamish	FCD Const	$2,255,441	$3,520,977	$1,265,536	$0	$0	$0	$0	$0	$0	$0			$3,520,977	Redmond. Willowmoor Floodplain Restoration Project seeks to reduce the frequency and duration of high lake levels in Lake Sammamish while maintaining downstream Sammamish River flood control performance and enhancing habitat. The project will reconfigure the Sammamish transition zone to ensure ongoing flow conveyance, downstream flood control, potential extreme lake level reduction, habitat conditions improvement, and reduction of maintenance impacts and costs. In June 2016 the Executive Committee approved a motion (2016-04) authorizing 30% design of the split-channel alternative including various design elements such as variable depth pools, cold water supplementation, and other elements itemized in the motion. Project costs will be updated when the 30% design is complete in December 2018.
83	WLFL6 BEAR CRK FLOOD EROSION REDMOND	Lk Wash Tribs	Agreement	$0	$0	$0	$550,000	$550,000	$0	$0	$0	$0	$1,100,000			$1,100,000	Redmond: Protect Avondale Rd from an embankment that has been scoured by floodwaters from Bear Creek.
84	WLFL6 ISSAQUAH TRIB FEAS	Lk Wash Tribs	Agreement	$150,000	$350,000	$200,000	$0	$0	$0	$0	$0	$0	$0			$350,000	Issaquah. Prepare a feasibility analysis report which will include, but is not limited to, surveying, geotechnical analysis, traffic analysis, and hydraulic analysis to idenify potential solutions to bridge deficiencies, including a constructed hydraulic opening with piles that collect debris and pose risks to the stability of the bridge.
85	WLFL6 LOWER COAL CRK PH I	Lk Wash Tribs	Agreement	$5,401,669	$10,461,592	$5,059,923	$600,000	$300,000	$200,000	$285,000	$1,310,000	$1,432,358	$4,127,358			$14,588,950	Bellevue. Increase conveyance capacity at the five box culvert crossings. Disconnect local storm drainage outfall from Coal Creek and redirect them to Lake Washington. Implemented by City of Bellevue. Expenditure forecast to be updated based on current project schedule.
86	WLFL6 MAY VALLEY DRAINAGE IMPRVMNT	Lk Wash Tribs	FCD Const	$0	$380,000	$380,000	$150,000	$0	$0	$0	$0	$0	$150,000			$530,000	Newcastle. As recommended in the May Creek Basin Plan, two sediment trap facilities will be constructed on May Creek tributaries (Cabbage and Country Creeks) to limit sediment loading. FCD funding is for initial feasibility analysis, landowner outreach, and acquisition of property from willing sellers for a future sediment facility. 2020 funding is for permitting and design of a sediment facility.
87	WLFL7 CDR PRE-CONST STRTGC ACQ	Cedar	FCD Acqu/Elev	$2,611,789	$4,330,532	$1,718,743	$0	$0	$0	$0	$0	$1,200,000	$1,200,000			$5,530,532	Renton. This project will acquire strategic real estate upon which several large Flood Control District capital projects are dependent, namely the levee setback projects at the Herzman, Jan Rd, Rhode, Getchman, and Rutledge-Johnson Lower Jones Rd levee segments. Acquisition funding related to these projects is now included in the individual capital projects.
88	WLFL7 CEDAR LEVEE SETBACK FEAS (Cedar Corridor	Cedar	FCD Const	$1,850,907	$1,987,587	$136,680	$0	$0	$0	$0	$0	$0	$0			$1,987,587	Renton. This six-year flood risk reduction capital investment strategy will cover the Cedar River valley from Landsburg Road SE (River Mile 22) to Lake Washington. Project complete. Closeout in 2020.
89	WLFL7 CEDAR CIS MED TERM	Cedar	FCD Acqu/Elev	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$22,000,000		$22,000,000	Renton. Elevate or acquire highest risk and repetitive loss properties from willing sellers. Elevate or purchase approximately 2 homes each year.
90	WLFL7 CEDAR CIS LONG TERM	Cedar	FCD Acqu/Elev	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0		$35,400,000	$35,400,000	Renton.Implement projects identified in the Capital Investment Strategy, approved as policy direction by the Executive Committee.
91	WLFL7 CEDAR RES FLOOD MITIGATION	Cedar	FCD Acqu/Elev	$0	$0	$0	$0	$0	$0	$0	$0	$800,000	$800,000			$800,000	Renton. Implement projects identified in the Capital Investment Strategy, approved as policy direction by the Executive Committee.
92	WLFL7 CEDAR R REP LOSS MITGATN	Cedar	FCD Acqu/Elev	$3,182,200	$3,182,200	$0	$0	$0	$0	$0	$0	$0	$0			$3,182,200	Renton. Acquire frequently-flooded homes. Placeholder funding until District adopts acquisition policy.
93	WLFL7 CRT SITE A BANK	Cedar	FCD Const	$92	$290,000	$289,908	$68,302	$0	$0	$0	$0	$0	$68,302			$358,302	Renton. Capital Investment Strategy: Repair eroded section of left bank with bioengineered revetment to stabilize toe of bank and to prevent large scale bank failure.
94	WLFL7 CEDAR RVR GRAVEL REMOVAL	Cedar	Agreement	$9,829,478	$12,065,498	$2,236,020	$501,051	$445,679	$111,267	$114,605	$500,000	$500,000	$2,172,602			$14,238,100	Renton. The project will ensure the minimum required 100-year flood conveyance capacity along the lower 1.25 miles of the Cedar River. Project is a required maintenance action for the Army Corps of Engineers 205 Flood Control Project. Project costs were updated in March 2016.
95	WLFL7 CEDAR R DWNSTREAM 2024 IMPV	Cedar	Agreement	$0	$0	$0	$0	$0	$0	$0	$100,000	$0	$100,000			$100,000	Renton. Improve Cedar Grove Road near Byers Road SE and alleviate roadway flooding by raising the road through the application of a thick layer of overlay.
96	WLFL7 CITY OF RENTON LEVEE CERTIFICATION	Cedar	Agreement	$0	$3,750,000	$3,750,000	$1,250,000	$0	$0	$0	$0	$0	$1,250,000			$5,000,000	Renton. Levee improvements necessary to satisfy levee certification engineering recommendations.
97	WLFL7 FBD CORRIDOR IMPLEMENTATION	Cedar	FCD Acqu/Elev	$5,224,475	$5,311,784	$87,309	$0	$0	$0	$0	$0	$0	$0			$5,311,784	Renton. Washington State Floodplains by Design grant from the Department of Ecology. The project will buyout residents in high risk areas, increase the capacity for flood storage, and provide corresponding environmental improvements. The project has cost-share funding from the City of Seattle. Also funds design elements of the Herzman project and Riverbend.
98	WLFL7 HERZMAN LEVEE SETBACK	Cedar	FCD Const	$346,270	$1,266,476	$920,206	$287,337	$3,828,982	$66,818	$0	$0	$0	$4,183,137			$5,449,613	Renton. Capital Investment Strategy: Setback levee; excavate side-channel to reduce pressure on revetment; reconstruct, reinforce and/or extend revetment; acquire up to 5 properties.
99	WLFL7 JAN ROAD NEIGHBORHOOD	Cedar	FCD Const	$34,384	$1,484,731	$1,450,347	$622,137	$4,845,422	$828,271	$0	$0	$0	$6,295,830			$7,780,561	Renton. Capital Investment Strategy: Suite of solutions to be determined as part of feasibility study. Includes raise road, partial removal of Jan Road levee, construction of side channel, and mitigation of at-risk properties. Construction phased for mitigation in 2021 and other improvements in 2023.
100	WLFL7 LOWER CEDAR FEASIBILITY STUDY	Cedar	FCD Const	$342	$400,000	$399,658	$0	$120,000	$0	$0	$0	$0	$120,000			$520,000	Renton. Capital Investment Strategy: Conduct feasibility study of Lower Cedar reach in City of Renton to 1) quantity economic damage potential 2) determine infrastructure modifications to improve flood resiliency and sediment storage potential, and 30 conduct cost-benefit analysis.

No.	Title	Basin	Type of project	2018 Inception to Date Expenditure	2019 Inception to Date Budget	2019 Available Budget	2020 Requested	2021 Forecasted	2022 Forecasted	2023 Forecasted	2024 Forecasted	2025 Forecasted	6-Year CIP Total	CIS Year 7-10	CIS 10+ Year	Project Life Total	Comments
101	WLFL7 LOWER JONES ROAD NEIGHBORHOOD	Cedar	FCD Const	$608,558	$1,898,466	$1,289,908	$0	$681,352	$235,089	$4,540,762	$1,631,720	$0	$7,088,924			$8,987,390	Renton. Capital Investment Strategy: Raise in place or setback Jones Road; excavate and stabilize right bank to increase conveyance capacity; reinforce one revetment; remove portion of another revetment; acquire 8 at risk properties Construction delayed to 2024 to accommodate Jan Rd construction in 2021 or 2022.
102	WLFL7 MADSEN CR RENTON	Cedar	Agreement	$0	$635,000	$635,000	$0	$0	$0	$0	$0	$0	$0			$635,000	Renton. Design and implement phase I improvements to Madsen Creek to achieve 100-year level flood protection for properties south of SR 169 and 25-year level flood protection for properties north of SR 169.
103	WLFL7 MAPLEWOOD FEASIBILITY STUDY	Cedar	FCD Const	$179,145	$490,246	$311,101	$0	$0	$0	$0	$0	$0	$0			$490,246	Renton. Capital Investment Strategy: Conduct site specific landslide risk assessment study; conduct a feasibility study to evaluate opportunities to modify the Erickson Levee. Pending results of landslide hazard analysis, FCD will consider options for a project.
104	WLFL7 ISSAQUAH MAY VALLEY IMPV	Cedar	Agreement	$0	$100,000	$100,000	$0	$0	$0	$0	$0	$0	$0			$100,000	Issaquah. Construct intersection improvements which could be either a roundabout or additional travel lanes with a travel signal at the intersection of Issaquah Hobart Road SE and SE May Valley Road.
105	WLFL7 RIVERBEND MHP ACQ	Cedar	FCD Acqu/Elev	$4,362,885	$5,231,042	$868,157	$0	$0	$0	$0	$0	$0	$0			$5,231,042	Renton. This project represents the Flood District contribution to a larger project that relocates mobile home park tenants and initiates preliminary engineering design for potential levee setback / realignment to reduce flood heights, velocities and channel migration risk in this reach. Disappropriate remainder after FCD portion of scope is complete.
106	WLFL7 MADSEN CR CULVERT 2017	Cedar	Agreement	$206,205	$1,100,000	$893,795	$1,470,000	$0	$0	$0	$0	$0	$1,470,000			$2,570,000	Renton. To address a culvert failure affecting approximately 10 properties, prepare Concept Development Report to analyze and select best culvert replacement and road-raising option; and analyze upstream and downstream retention/detention impacts.
107	WLFL7 SR 169 FEASIBILITY STUDY	Cedar	FCD Const	$170,603	$646,800	$476,197	$138,203	$0	$0	$0	$0	$0	$138,203			$785,003	Renton. Conduct feasibility study in coordination with WSDOT to evaluate flood risk reduction opportunities, such as elevating SR 169, upgrading the local drainage infrastructure, and / or installation of back flow prevention gates. Funding added in 2019 pending FCD decision to move forward with preliminary design.
108	**Cedar-Sammamish Subtotal**			$38,047,379	$60,062,996	$22,015,617	$6,437,030	$12,171,435	$2,441,445	$4,940,367	$3,541,720	$3,932,358	$33,464,355	$22,000,000	$35,400,000	$150,927,351	
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111	WLFL8 BRISCOE LEVEE SETBACK	Green	Agreement	$21,072,606	$23,330,271	$2,257,665	$0	$0	$0	$0	$0	$0	$0			$23,330,271	Kent. Floodwall construction at four locations completed by the City of Kent. Final expenditures for the remainder of 2017 will include reimbursement for property acquisition and riparian plantings. The revised 2017 financial plan includes revenue of $4.1 million for the sale of the Rivers Edge Business Park. Per FCD 2016-20 Section 6, this revenue makes expenditure authority available for the Lower Russell Levee Setback project. The Briscoe project will be closed out once the District's ILA with Kent expires in 2018.
112	WLFL8 BRPS CONTROL BLDG RPLCMT	Green	FCD Const	$106	$380,506	$380,400	$1,926,876	$7,813,278	$13,241,331	$9,647	$0	$0	$22,991,133			$23,371,639	Renton. This project will design and build the second phase of renovations to the Black River pump station. Major components include replacement of the control building, replacement of the trash rake system, and replacement of the screen spray system.
113	WLFL8 BRPS FISH PASS IMPRVMNTS	Green	FCD Const	$0	$0	$0	$0	$992,079	$3,782,881	$4,107,257	$3,453,157	$92,073	$12,427,447			$12,427,447	Renton. This project will design and build the fourth phase of renovations to the Black River pump station, revising and replacing the obsolete fish passage systems.
114	WLFL8 BRPS HIGH-USE ENGINES	Green	FCD Const	$215,646	$1,484,646	$1,269,000	$3,949,130	$33,949	$0	$0	$0	$0	$3,983,079			$5,467,725	Renton. This project will design and build the first phase of renovations to the Black River pump station, replacing the three smaller pump engines which run much more frequently than the other, larger pump engines.
115	WLFL8 BRPS SUPPORT SYS UPGRADES	Green	FCD Const	$0	$0	$0	$1,149	$183,181	$940,317	$876,479	$12,074	$0	$2,013,200			$2,013,200	Renton. This project will design and build the third phase of renovations to the Black River pump station, replacing support systems such as engine control panels, cooling systems, oilers and hoists.
116	WLFL8 COVINGTON CR BLACK DIAMOND	Green	Agreement	$0	$0	$0	$291,500	$2,002,000	$0	$0	$0	$0	$2,293,500			$2,293,500	Black Diamond: Reline the three 6-foot diameter culverts to extend the useful life and install headwalls to improve channelization through the culverts.
116	WLFL8 GALLI-DYKSTRA FEASIBILITY	Green	FCD Const	$0	$330,000	$330,000	($330,000)	$0	$0	$0	$0	$0	($330,000)			$0	Auburn. Conduct a feasibility study to raise the levee providing 100-year flood protection plus 3 feet of freeboard. Canceled and incorporated into Galli-Dykstra 2020 Repair.
117	WLFL8 GALLI-DYKSTRA 2020 REPAIR	Green	FCD Const	$0	$200,000	$200,000	$207,314	$1,750,783	$0	$0	$0	$0	$1,958,097			$2,158,097	Auburn. Complete Phase 1 repair per a request from the City of Auburn. Elevate 3500 feet levee reach to meet FEMA levee certification requirements.
118	WLFL8 GREEN PRE-CONST ACQ	Green	FCD Acqu/Elev	$393,751	$10,368,856	$9,975,105	$0	$5,000,000	$5,000,000	$5,000,000	$5,000,000	$5,000,000	$25,000,000			$35,368,856	Tukwila. This project will acquire strategic real estate upon which future large Flood Control District capital projects are dependent, thereby reducing risks to construction schedules for those projects.
119	WLFL8 GREEN R PL84-99 MITIGATN	Green	FCD Const	$5,173,981	$5,660,542	$486,561	$0	$0	$0	$0	$0	$0	$0			$5,660,542	Auburn. This project will result in actions to mitigate environmental damage from tree cutting during 2008-9 (as required by permitting agencies) to maintain eligibility for US Army Corps of Engineers PL84-99 program. The current mitigation effort is the Teufel project scheduled for 2018 construction.
120	WLFL8 HSB BREDA SETBACK KENT	Green	Agreement	$834,330	$4,758,953	$3,924,623	$2,431,377	$8,381,110	$43,709	$0	$0	$0	$10,856,196			$15,615,149	Kent. New project to implement interim SWIF adopted by Board of Supervisors. This project will reconstruct the Horseshoe Bend Levee at the Breda reach (RM 24.46-24.72) to a more stable configuration in order to reduce flood risk to the surrounding areas. The project will also raise levee crest elevations to contain the 500-year (0.2% annual chance) flood. This segment of the levee has the lowest factor of safety rating of the Horseshoe Bend levee.
121	WLFL8 HSB MCCOY REALIGNMENT KENT	Green	Agreement	$4,138	$400,000	$395,862	$116,138	$2,333,980	$764,909	$0	$0	$0	$3,215,027			$3,615,027	Kent. New project to implement interim SWIF adopted by Board of Supervisors. This PL 84-99 levee segment contains a 'Minimally acceptable' rating by the USACE due to a slope deficiency at RM 24.3 (over steepened slopes from 1.3 to 1.7H:1V for 500 feet). The City of Kent constructed a secondary containment levee in this reach, set back from the river's edge, which is currently not part of the federal levee. The only remaining structure between the two levees is a Puget Sound Energy facility. The Horseshoe Bend Levee Certification Report calculated Factor of Safety (FOS) values for rapid drawdown of 1.08 and 1.55 at about RM 24.3 and RM 24.4, respectively. River bed scour in this reach between 1986 and 2011 is 2.7 feet at RM 24.24. Funding of $400,000 covers the cost of major modification to the federal levee so that the City of Kent's secondary containment levee can be incorporated into the federal levee project.

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122	WLFL8 HSB NURSING HOME SETBACK	Green	FCD Const	$0	$0	$0	$0	$100,000	$2,000,000	$500,000	$0	$0	$2,600,000			$2,600,000	Kent. New project to implement interim SWIF adopted by Board of Supervisors. The Nursing Home levee is over-steepened and does not meet current engineering standards. The economic consequence of levee failure or overtopping to the lower Green River valley is extensive and could cause tens of millions of dollars in damage. This capital project area contains a 'Minimally Acceptable' deficiency by the US Army Corps of Engineers at RM 25. 5 (over steepened slopes from 1. 25 to 1. 7H:1V for 225 feet). The Horseshoe Bend Levee Certification Report calculated a Factor of Safety (FOS) value for rapid drawdown of 1. 01 at RM 25. 57 (Section F). This is barely above the minimum FOS (1. 0) from the US Army Corps of Engineers manual.
123	WLFL8 INTERIM SWIF IMPLEMENTATION	Green	FCD Const	$66,887	$85,000	$18,113	$0	$0	$0	$0	$0	$0	$0			$85,000	Kent. Coordination and planning activities to implement recommendations of interim SWIF. Maintenance work associated with the interim SWIF is included in the operating budget.
124	WLFL8 LONES LEVEE SETBACK	Green	Agreement	$0	$0	$0	$500,000	$0	$0	$0	$0	$0	$500,000			$500,000	Contribute the partial cost of a levee repair ($500,000) to a $6.4 million levee setback project, funding is to be focused on flood reduction purpoes. By relocating the levee, flood risks as well as future repair costs for the Flood Control District are reduced.
124	WLFL8 LOWER RUSSELL ACQ KENT	Green	Agreement	$1,059,834	$1,023,656	($36,178)	$0	$0	$0	$0	$0	$0	$0			$1,023,656	Kent. Acquisitions by the City of Kent for the Lower Russell levee setback project.
125	WLFL8 LWR GRN R CORRIDOR PLAN/EIS	Green	FCD Const	$233,117	$1,743,249	$1,510,132	$0	$0	$0	$0	$0	$0	$0			$1,743,249	Kent. Lower Green River Corridor Planning and Environmental Impact Statement.
126	WLFL8 LWR RUSSELL LEVEE SETBACK	Green	FCD Const	$12,147,579	$17,462,534	$5,314,955	$26,447,505	$4,116,794	$6,358,982	$12,710	$0	$0	$36,935,991			$54,398,525	Kent. Remove and replace the existing flood containment system of levee and revetments along the right (east) bank of the Green River between river mile 17.85 (S 212th St) and river mile 19.25 (S 231st Way) in the City of Kent to provide long-term flood protection and improve riparian and aquatic habitat. Increased expenditure authority to match interim SWIF adopted by Board of Supervisors.
127	WLFL8 MILWAUKEE LEVEE #2-KENT	Green	Agreement	$296,589	$19,400,000	$19,103,411	$0	$0	$0	$0	$0	$0	$0			$19,400,000	Kent. Prepare an analysis and study of design and construction alternatives to provide flood protection, scour protection, enable levee certification and secure necessary land rights.
128	WLFL8 OLD JEFFS FARM REVETMENT	Green	FCD Const	$221,298	$826,802	$605,504	$50,525	$3,040,810	$81,863	$0	$0	$0	$3,173,198			$4,000,000	Auburn. This project will conduct a feasibility analysis of channel migration hazards from river mile 21.1 to 21.7. Alternative selection is pending; alternative 1 is assumed as a placeholder.
129	WLFL8 GREEN SCOUR REPAIR 2017	Green	Agreement	$47,524	$150,000	$102,476	$0	$0	$0	$0	$0	$0	$0			$150,000	Auburn. This project will address scour damage to the bridge, which is on the primary through route of the Green River Valley Rd. The bridge is also a King County landmark.
130	WLFL8 GREEN R IMPROVEMENT 2024	Green	Agreement	$0	$0	$0	$0	$0	$0	$0	$100,000	$0	$100,000			$100,000	Auburn. Improve SE Green Valley Road near SE Auburn Black Diamond Road and alleviate roadway flooding by raising the road through the application of a thick layer of overlay.
131	WLFL8 PORTER LEVEE	Green	FCD Const	$720,000	$720,000	$0	$0	$0	$0	$0	$0	$0	$0			$720,000	Auburn. Contribute the cost of a repair ($720,000) to a $7 million levee setback project. By relocating the levee, flood risks as well as future repair costs for the Flood Control District are reduced. In response to community concerns, the project also includes funding to elevate the road so that the school bus serving this neighborhood does not have to drive in the oncoming lane to avoid floodwaters.
132	WLFL8 RUSSELL RD UPPER KENT	Green	Agreement	$6,054,711	$6,082,173	$27,462	$0	$0	$0	$0	$0	$0	$0			$6,082,173	Kent. Project is to improve the levee by providing a minimum of 3 feet of freeboard above the predicted 500-year flood event and improve slope stability. These segments of the Russell Road Upper Levee have over-steepened slopes and therefore lack adequate structural stability to provide adequate safety.
132	WLFL8 S 106TH ST DRAINAGE IMPVMNT	Green	Agreement	$0		$0	$451,000	$0	$0	$0	$0	$0	$451,000			$451,000	Burien: Replace an existing damaged and undersized pipe that runs under eleven properties to prevent stormwater flooding.
133	WLFL8 S 180TH ST BRIDGE FLOODWALL EXT	Green	Agreement	$0	$65,378	$65,378	$0	$0	$0	$0	$0	$0	$0			$65,378	Tukwila. The project will increase the height of a flood wall to provide approximately 30" of additional flood protection.
134	WLFL8 SIGNATURE PT REVETMENT KENT	Green	Agreement	$89,843	$300,000	$210,157	$1,445,000	$26,777,500	$26,777,500	$0	$0	$0	$55,000,000			$55,300,000	Kent. Signature Pointe is a revetment/levee on the Green River between river mile 22.06 and 23.18 that does not meet the FEMA requirements for accreditation due to inadequate freeboard. This project includes development of a project charter and an alternatives analysis to select an alternative to achieve increased flood protection, embankment and toe protection in a manner that can be certified and accredited.
135	WLFL8 TITUS PIT RVTMNT 2018 REPAIR	Green	Agreement	$167,738	$250,000	$82,262	$0	$0	$0	$0	$0	$0	$0			$250,000	Kent. Repair of the recent damage to the Titus Pit RB revetment is needed to prevent a potential revetment failure and Green River road collapse. The revetment protects an adjacent King County arterial road and utilities (such as water, natural gas, telecommunication and power) under the road.
136	WLFL8 TUK-205 RATOLO FLOODWALL	Green	FCD Const	$0	$0	$0	$0	$0	$1,500,000	$300,000	$0	$0	$1,800,000			$1,800,000	Tukwila. New project to implement interim SWIF adopted by Board of Supervisors. This project will construct a 0.15 mile floodwall and sloped embankment to protect adjacent businesses from flooding. The floodwall alignment (including embankment slope, factors of safety, and necessary real estate) will be finalized during the project design phase.
137	WLFL8 TUK-205 GUNTER FLOODWALL	Green	FCD Const	$0	$0	$0	$2,000,000	$16,250,000	$16,250,000	$0	$0	$0	$34,500,000			$34,500,000	Tukwila. New project to implement interim SWIF adopted by Board of Supervisors. This project will construct a facility to bring this levee segment in compliance with certification requirements for structural stability and raise the levee to roughly the 500 year event.
137	WLFL8 TUK-205 USACE GACO-SEGALE	Green	FCD Const	$762,960	$15,732,418	$14,969,458	$0	$0	$0	$0	$0	$0	$0			$15,732,418	Tukwila. US Army Corps led project to replace 3500 ft. of Tukwila 205 levee in-place replacement to bring up to 500-year level of protection per the adopted interim SWIF. The USACE will share remaining 2/3 of the cost; this allocation is the local share of 1/3 of total cost. Requires cooperation agreement.
138	WLFLS SOUTH PARK PUMPSTATION	Seattle	Agreement	$1,819,777	$1,787,004	($32,773)	$4,717,996	$0	$0	$0	$0	$0	$4,717,996			$6,505,000	Seattle. Cost-share construction of pump station to reduce flooding in industrial area. Allocation of funds by year may be revised based on updated project schedule. Implemented by the City of Seattle. Expenditure forecast to be updated based on current project schedule.
139	WLFLS PUGET WAY CULVERT	Seattle	Agreement	$0	$1,800,000	$1,800,000	$0	$0	$0	$0	$0	$0	$0			$1,800,000	Seattle. This project will replace an aging and undersized creek culvert under Puget Way SW in Seattle.
140	WLFLS S PARK DRAINAGE IMPROVEMENTS	Seattle	Agreement	$412,995	$1,000,000	$587,005	$9,075,000	$7,030,000	$0	$0	$0	$0	$16,105,000			$17,105,000	Seattle. The South Park Drainage Conveyance Improvements Project will install a formal conveyance system in the streets, to get flows to the pump station. The conveyance improvements will work in conjunction with the Pump Station.
141	WLFL8 TUKWILA RVTMT 2019 REPAIR	Green	FCD Const	$0	$500,000	$500,000	$0	$0	$0	$0	$0	$0	$0			$500,000	Tukwila. Erosion and slumping of Tukwila Trail revetment caused by the recent Green River flood resulted in approximately 200 feet of damage to the revetment.
142	**Green-Duwamish Subtotal**			$51,795,409	$115,841,988	$64,046,578	$53,280,510	$85,805,463	$76,741,492	$10,806,094	$8,565,231	$5,092,073	$240,290,863	$0	$0	$356,132,852	

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145	WLFL9 212TH AVE SE @ SR 164 FLD IMPRVMNT	Green	Agreement	$0	$0	$0	$0	$0	$0	$0	$0	$190,000	$190,000			$190,000	Enumclaw. Improve the drainage system to alleviate neighborhood flooding. May require improvements outside of the road right-of-way.
144	WLFL9 212TH AVE SE MITIGATION	White	Agreement	$0	$0	$0	$29,000	$36,000	$0	$0	$0	$0	$65,000			$65,000	Enumclaw. TBD
145	WLFL9 ANDERSON PARK ACQUISITION	White	FCD Acqu/Elev	$0	$100,000	$100,000	$0	$0	$0	$0	$0	$0	$0			$100,000	Enumclaw. Park is split by the White River; acquire undevelopable and inaccessible southern portion of park in Pierce County from the City of Enumclaw.
146	WLFL9 BUTTE AVE FLOOD MITIGATION	White	Agreement	$194,089	$470,000	$275,911	$0	$0	$0	$0	$0	$0	$0			$470,000	Pacific. This project will reduce flood risks to residences and businesses in the Cities of Pacific and Algona by addressing backwatering and drainage problems in Government Canal from high river flows. The project will design and permit a stormwater pump station which will significantly reduce flood risks to approximately five hundred homes and businesses. The completed project will also reduce long-term road closures that have occurred in the past due to flooding.
147	WLFL9 COUNTYLINE TO A STREET	White	FCD Const	$23,828,084	$24,004,419	$176,335	$0	$0	$0	$0	$0	$0	$0			$24,004,419	Tukwila. Reduces flood elevations that impact residential neighborhoods in the City of Pacific (200 homes, with $52 million of assessed and $13 million content value), improves sediment storage and enhances habitat.
148	WLFL9 RIGHT BANK LEVEE SETBACK	White	FCD Const	$12,234,992	$13,843,157	$1,608,165	$295,835	$973,966	$7,172,705	$8,508,038	$136,895	$0	$17,087,439			$30,930,596	Pacific. Construct a new levee setback in the City of Pacific, extending from BNSF railroad bridge embankment to endpoint at Butte Ave. by White River Estates neighborhood.
149	WLFL9 SLIPPERY CREEK ACQ	White	FCD Acqu/Elev	$10,377	$180,000	$0	$0	$0	$0	$0	$0	$0	$0			$180,000	Greenwater. In mid-2018 budget reallocation, funding was authorized to acquire a vacant property located outside flood hazard area on the north side of Highway 410. Subsequent site visits identified multiple unpermitted structures and a well; additional funding necessary to complete demolition and asbestos abatement at a remote and inaccessible location.
150	WLFL9 CHARLIE JONES US CULVERT	White	Agreement	$84,413	$190,000	$105,587	$400,000	$100,000	$0	$0	$0	$0	$500,000			$690,000	Auburn. This project will analyze culvert replacement and road-raising options and implement the preferred option.
151	WLFL9 CHARLIE JONES DS CULVERT	White	Agreement	$0	$0	$0	$0	$150,000	$1,500,000	$0	$0	$0	$1,650,000			$1,650,000	Auburn. This project will analyze culvert replacement and road-raising options and implement the preferred option.
152	WLFL9 STUCK R DR 2019 REPAIR	White	FCD Const	$0	$200,000	$200,000	$446,374	$0	$0	$0	$0	$0	$446,374			$646,374	Auburn. Loss of facing rock along 130' of the lower half of the embankment. Some of the gravel fill under the rock has eroded as well, leaving a near-vertical face supporting the rock remaining on the upper slope. The rock that slid down is currently providing scour protection at the toe.
153	**White Subtotal**			$36,351,955	$38,987,576	$2,465,998	$1,171,209	$1,259,966	$8,672,705	$8,508,038	$136,895	$190,000	$19,938,813	$0	$0	$58,926,389	
154																	
155																	
156	WLFLX CORRIDOR PLN DESIGN/CONST PLACEHOLD	Countywide	FCD Const	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0			$0	Placeholder for corridor plan implementation project(s)
157	**Countywide Corridor Plan Imp Subtotal**			$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	
158																	
159																	
160	WLFLG FLOOD REDUCTION GRANTS	Countywide	Grant	$8,993,154	$17,852,257	$8,859,103	$3,274,741	$3,363,133	$3,448,863	$3,531,622	$3,612,948	$3,693,134	$20,924,441			$38,776,698	Competitive grant program for flood reduction projects. Increases as a proportion of total FCD tax revenue.
161	WLFLG WRIA GRANTS	Countywide	Grant	$20,647,848	$32,303,948	$11,656,100	$4,810,172	$4,939,566	$5,072,440	$5,208,889	$5,349,008	$5,492,896	$30,872,971			$63,176,919	Cooperative Watershed Management Grant Program; priorities recommended by watershed groups. Increase based on assumed inflation rate.
162	WLFLM EFFECTIVENESS MONITORING	Countywide	FCD Const	$2,385,821	$2,929,221	$543,400	$330,232	$890,956	$834,056	$892,524	$804,751	$585,512	$4,338,030			$7,267,251	Evaluation of capital projects to determine effectiveness and identify project design improvements.
163	WLFLO SUBREGNL OPPRTNTY FUND	Countywide	Grant	$34,916,901	$55,311,183	$20,394,282	$6,091,017	$6,255,428	$6,414,885	$6,568,817	$6,720,084	$6,869,230	$38,919,461			$94,230,644	Allocation to all King County jurisdictions for flooding, water quality, or watershed management projects. Increases as a proportion of total FCD tax revenue.
164	WLFLX CONST MATERIALS STOCKPILE	Countywide	FCD Const	$0	$500,000	$500,000	$0	$0	$0	$0	$0	$0	$0			$500,000	Stockpile role for future flood damage repairs.
165	WLFLX CENTRAL CHARGES	Countywide	FCD Const	$748,397	$1,011,493	$263,096	$100,000	$142,592	$146,870	$151,276	$155,815	$160,489	$857,042			$1,868,535	Central charges related to the FCD's capital fund.
166	WLFLX FLOOD EMERGENCY CONTGNCY	Countywide	FCD Const	$419,042	$1,050,917	$631,875	$0	$250,000	$250,000	$250,000	$250,000	$250,000	$1,250,000			$2,300,917	Contingency for emergency response actions during a flood event.
167	**Countywide Subtotal**			$68,111,164	$110,959,019	$42,847,856	$14,606,162	$15,841,675	$16,167,114	$16,603,128	$16,892,606	$17,051,261	$97,161,945	$0	$0	$208,120,964	
168																	
169	**Grand Total**			**$268,705,708**	**$420,273,031**	**$151,197,700**	**$84,227,923**	**$126,042,124**	**$122,786,033**	**$54,413,034**	**$56,262,793**	**$53,590,266**	**$497,322,173**	**$121,250,000**	**$121,300,000**	**$1,160,145,204**	

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1200 King County Courthouse
516 Third Avenue
Seattle, WA 98104

KING COUNTY

Signature Report

FCD Resolution

Proposed No. FCD2019-14.1 **Sponsors**

A RESOLUTION relating to the finances of the King County Flood Control Zone District; authorizing a property tax levy to implement the District's 2020 budget; reserving banked capacity; and protecting up to $.25 per $1,000 of assessed value of the District's property tax levy from proration.

WHEREAS, every year, King County faces threats from flooding, the impacts of which are far-reaching and pose significant threats to public health and safety and economic activities throughout the county, and

WHEREAS, the one hundred-year floodplain in the county covers more than 25,000 acres or almost forty square miles, and

WHEREAS, more than five hundred flood protection facilities throughout the county protect property with an estimated assessed value of more than $7,000,000,000, and

WHEREAS, flood control facilities provide vital protection to the regional economy, and

WHEREAS, one of the most fundamental functions of government is to protect citizens and public and private property from the ravages of natural disasters, such as flooding, and

WHEREAS, the board of supervisors of the King County Flood Control Zone District ("District"), after holding a hearing on _____, 2019, and after duly considering all relevant testimony presented, desires to increase its property tax revenue from the previous year by one percent, in addition to the additional amounts permitted under RCW 84.55.010, if any, resulting from new construction, improvements to property, newly constructed wind turbine, solar, biomass and geothermal facilities, any increase in the value of state-assessed property, any annexations that have occurred, and refunds made, and

WHEREAS, the board of supervisors finds it necessary to protect the District's tax levy from prorationing by imposing up to $0.25 per $1,000 of assessed value of the levy outside of the $5.90 per $1,000 assessed value limitation under RCW 85.52.043(2), and

WHEREAS, the board of supervisors duly considering all relevant evidence and testimony presented, determined that the District requires a regular levy in the amount of $57,819,986, which includes an increase in property tax revenue from the previous year, and amounts resulting from the addition of new construction and improvements to property and any increase in the value of state-assessed property, and amounts authorized by law as a result of any annexations that have occurred and refunds made, in order to discharge the expected expenses and obligations of the district and in its best interest;

NOW, THEREFORE, BE IT RESOLVED BY THE BOARD OF SUPERVISORS OF THE KING COUNTY FLOOD CONTROL ZONE DISTRICT:

SECTION 1. The District's actual levy amount from the previous year was

$59,540,737. An increase in the regular property tax levy is hereby authorized for the levy to be collected in the 2020 tax year. The dollar amount of the increase over the actual levy amount from the previous year shall be $1,720,751, which is a percentage increase of one percent from the previous year. This increase is exclusive of additional revenue resulting from new construction, improvements to property, newly constructed wind turbine, solar, biomass and geothermal facilities, any increase in the value of state-assessed property, any annexations that have occurred, and refunds made.

SECTION 2. As authorized by RCW 84.55.092, the District continues to reserve its "banked capacity" for future regular tax levies of the District.

SECTION 3. Pursuant to RCW 84.52.815, the District shall protect the property tax levy of Section 1 of this Resolution from prorationing under RCW 84.52.010 by imposing up to $0.25 per $1,000 of assessed value of such tax levy outside of the $5.90

55 per $1,000 of assessed value limitation under RCW 84.52.043, if the taxes raised by such

56 tax levy would otherwise be prorated under RCW 84.52.010.

57

KING COUNTY FLOOD CONTROL ZONE DISTRICT
KING COUNTY, WASHINGTON

_____

Reagan Dunn, Chair

ATTEST:

_____

Melani Pedroza, Clerk of the Board

Attachments: None

1200 King County Courthouse
516 Third Avenue
Seattle, WA 98104

KING COUNTY

Signature Report

FCD Resolution

Proposed No. FCD2019-15.1 **Sponsors**

A RESOLUTION amending the interlocal agreement between King County and the King County Flood Control Zone District to extend its term through December 31, 2020.

WHEREAS, King County ("County") and the King County Flood Control Zone District ("District") have entered into an "Interlocal Agreement Between King County and the King County Flood Control Zone District Regarding Flood Protection Services", and

WHEREAS, the County and the District desire to amend the Agreement to extend its term to December 31, 2020;

NOW, THEREFORE, BE IT RESOLVED BY THE BOARD OF SUPERVISORS OF THE KING COUNTY FLOOD CONTROL ZONE DISTRICT:

SECTION 1. The Board of Supervisors approves the Second Amendment to the "Interlocal Agreement Between King County and the King County Flood Control Zone

15 District Regarding Flood Protection Services," which is Attachment A to this resolution,

16 and authorizes the chair of the Board of Supervisors to sign the amendment.

17

KING COUNTY FLOOD CONTROL ZONE DISTRICT
KING COUNTY, WASHINGTON

_____

Reagan Dunn, Chair

ATTEST:

_____

Melani Pedroza, Clerk of the Board

Attachments: A. Second Amendment to Interlocal Agreement Between King County and the Flood Control Zone District Regarding Flood Protection Services

SECOND AMENDMENT TO
INTERLOCAL AGREEMENT BETWEEN
KING COUNTY AND THE KING COUNTY FLOOD CONTROL ZONE DISTRICT
REGARDING FLOOD PROTECTION SERVICES

THIS SECOND AMENDMENT to the "Interlocal Agreement between King County and the King County Flood Control Zone District Regarding Flood Protection Services" ("Agreement"), is entered into by KING COUNTY, a home rule charter County in the State of Washington ("County") and KING COUNTY FLOOD CONTROL ZONE DISTRICT, a quasi-municipal corporation of the State of Washington ("District"), and shall be effective upon execution by both Parties.

The Parties agree to amend the Agreement as follows:

1. The text of Section 13.1 is deleted and replaced with the following:

This Agreement shall take effect January 1, 2016 and shall remain in effect through December 31, 2020.

All other terms of the Agreement not amended by this Second Amendment shall remain in full force and effect.

IN WITNESS WHEREOF, the Parties have caused this Second Amendment to be executed by their authorized representatives.

KING COUNTY

_____
Dow Constantine
King County Executive
Dated: _____

Approved as to Form:
Dan Satterberg
King County Prosecuting Attorney

By:_____
Senior Deputy Prosecuting Attorney
Dated:_____

KING COUNTY FLOOD CONTROL ZONE DISTRICT

_____
Reagan Dunn
Chair of the Board of Supervisors
Dated: _____

Approved as to Form:
Attorney for the District

_____
Charlotte Archer
Inslee, Best, Doezie & Ryder, P.S.
Dated:_____