



KING COUNTY

1200 King County Courthouse
516 Third Avenue
Seattle, WA 98104

Signature Report

FCD Resolution

Proposed No. FCD2020-05.2

Sponsors

1 A RESOLUTION relating to the operations and finances of
2 the King County Flood Control Zone District; adopting a
3 revised 2020 budget, district oversight budget, capital
4 budget, six-year capital improvement program for 2020-
5 2025; and amending Resolution FCD2019-13.2

6 WHEREAS, the King County Flood Control Zone District ("the District")
7 adopted its 2020 work program, budget, operating budget, capital budget, and six-year
8 capital improvement program in Resolution FCD2019-13.2, and

9 WHEREAS, the District desires to respond to the damages as result of the flood
10 event of February 2020, and

11 WHEREAS, the District desires to reaffirm its commitment to countywide, multi-
12 benefit flood risk reduction projects, and

13 WHEREAS, the District desires to amend the 2020 WHEREAS, pursuant to
14 RCW 86.15.140, the District held a public hearing on the proposed supplemental budget
15 on March 10, 2020, and

16 WHEREAS, pursuant to RCW 86.15.110, the board of supervisors ("the Board")
17 has determined that the flood control improvements adopted by this resolution generally
18 contribute to the objectives of the District's comprehensive plan of development, and

19 WHEREAS, the Board desires to adopt amendments to the District's 2020

20 budget, operating budget, capital budget, and six-year capital improvement program;

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

23 SECTION 1. The Board adopts a revised 2020 budget for the District, as set forth
24 in Attachment B to this resolution, titled "2020 Amended Budget March 10, 2020," and
25 amends Section 1 of FCD2013-09.2 accordingly.

26 SECTION 2. The Board adopts a revised 2020 capital budget for the District,
27 consisting of the projects and expenditures Attachment D to this resolution, titled "2020
28 Amended Capital Budget March 10, 2020," and amends Section 1 of FCD2018-09.2
29 accordingly.

30 SECTION 3. The Board adopts a revised six-year capital improvement program
31 for the District, as set forth in Attachment E to this resolution, titled "2020-2025
32 Amended Six-Year CIP March 10, 2020," and amends Section 1 of FCD2018-09.2
33 accordingly.

34 SECTION 4. The Board adopts a revised 2020-2025 capital budget project list, as
35 set forth in Attachment H to this resolution, titled "2020-2025 Amended Six-Year CIP
36 Project Allocations March 10, 2020," and amends Section 1 of FCD2018-09.2
37 accordingly.

38 SECTION 5. A. The Board authorizes the extension, enlargement, acquisition or
39 construction of improvements, as applicable, as set forth on Attachments B, D, E and H
40 of this resolution.

41 B. The 2006 King County Flood Hazard Management Plan ("Flood Plan"), as
42 amended, serves as the comprehensive plan of development for flood control and

43 floodplain management, and has been prepared for the streams or watercourses upon
44 which the improvements will be enlarged, extended, acquired or constructed. The
45 improvements authorized herein generally contribute to the objectives of the Flood Plan.

46 C. For improvements that are to be constructed, preliminary engineering studies
47 and plans have been made, consisting of one or more of the following: the 2006 Flood
48 Plan, as amended, preliminary feasibility analyses, conceptual designs and design
49 manuals, and such plans and studies are on file with the county engineer.

50 D. Estimated costs for acquisitions and improvements together with supporting
51 data are set forth on Attachments B, C, D, E and H.

52 E. The improvements set forth in Attachments B, C, D, E and H are determined
53 to benefit the county as a whole, as well as the zone.

54

FCD Resolution was introduced on and passed as amended by the King County Flood Control District on 3/10/2020, by the following vote:

Yes: 8 - Mr. von Reichbauer, Ms. Lambert, Mr. McDermott, Mr. Dembowski, Mr. Upthegrove, Ms. Kohl-Welles, Ms. Balducci and Mr. Zahilay
No: 1 - Mr. Dunn

KING COUNTY FLOOD CONTROL ZONE
DISTRICT
KING COUNTY, WASHINGTON



Dave Upthegrove, Chair

ATTEST:



Melani Pedroza, Clerk of the District

Attachments: B. Amended Budget dated March 10, 2020, D. Capital Budget dated March 10, 2020, E. 6-Year CIP dated March 10, 2020, H. Project List dated March 10, 2020

King County Flood Control District

2020 Amended Budget

Attachment B

3/10/2020

Program	2020 Approved	2020 Supplemental	2020 Revised
Flood District Administration	913,238	0	913,238
Maintenance and Operation	13,464,210	0	13,464,210
Construction and Improvements	87,904,383	6,750,172	94,654,555
Bond Retirement and Interest	0	\$0	0
Total	102,281,831	6,750,172	109,032,003
Projected Capital Reserves - Cash Fund Balance ¹	79,476,019		91,786,094
Projected Capital Reserves - Budgetary Fund Balance ²	(53,994,284)		(60,744,456)

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 Amended Capital Budget

Attachment D

3/10/2020

Basin	Acquisition	Design	Construction	Contingency	Total
Snoqualmie River Basin	\$414,037	\$1,137,450	\$6,569,994	\$811,531	\$8,933,012
Cedar River Basin	\$673,453	\$2,461,440	\$4,698,137	\$0	\$7,833,030
Green River Basin	\$1,215,689	\$8,821,647	\$39,368,674	\$5,289,501	\$54,695,510
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 Programs	\$0	\$0	\$15,500,545	\$0	\$15,500,545
Total	\$2,332,179	\$13,580,516	\$72,540,829	\$6,201,032	\$94,654,555

King County Flood Control District

2020 - 2025 Amended Six-Year CIP

Attachment E

3/10/2020

Name	2020 Approved	2020 Supplemental	2020 Revised	2021	2022	2023	2024	2025	2020 - 2025 Total
Snoqualmie River Basin	8,733,012	200,000	8,933,012	10,963,585	18,763,277	13,555,407	27,126,341	27,324,575	106,666,196
Cedar River Basin	7,508,030	325,000	7,833,030	15,892,435	4,463,445	4,940,367	3,541,720	3,932,358	40,603,355
Green River Basin	53,280,510	1,415,000	54,695,510	85,805,463	76,741,492	10,806,094	8,565,231	5,092,073	241,705,863
White River Basin	1,171,209	-	1,171,209	1,259,966	8,672,705	8,508,038	136,895	190,000	19,938,813
Effectiveness Monitoring	330,232	-	330,232	890,956	834,056	892,524	804,751	585,512	4,338,030
Countywide Corridor Plan Implementation	-	-	-	-	-	-	-	-	-
Countywide Miscellaneous	100,000	-	100,000	392,592	396,870	401,276	405,815	410,489	2,107,042
Subregional Opportunity Fund	6,091,017	-	6,091,017	6,255,428	6,414,885	6,568,517	6,720,084	6,869,230	38,919,161
Grant Programs	10,690,373	4,810,172	15,500,545	21,879,132	22,467,680	23,072,061	23,692,699	24,330,033	130,942,150
Total	87,904,383	6,750,172	94,654,555	143,339,557	138,754,410	68,744,284	70,993,537	68,734,269	585,220,611

King County Flood Control District
 Chair's Preliminary Working Draft for Discussion Purposes Only
 2020 - 2025 Six-Year CIP Project Allocations
 Attachment H
 3/10/2020

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

No.	Title	Basin	Type of Project	2016 Inception to Date Expenditure	2019 Inception to Date Budget	2019 Available Budget	2020 Supplemental	2020 Revised	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	WLEFD SF SKYKAMSH REPAIRS MIT	SF Skykamsch	FCD Acqur/Elev	\$638,668	\$1,145,004	\$506,726	(4,597,730)	\$466,736	\$76,381	\$0	\$0	\$0	\$115,927	\$115,927			\$1,261,331	Basin. This project will elevate or bypass individual structures in the South Fork Skykamsch Basin to eliminate the risk of flooding or erosion damage during future flood events.
2	WLEFD SKY W RVR DR FLOOD STUDY	SE Skykamsch	FCD Const	\$2,856	\$79,381	\$79,381	(173,361)	\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$61,237	Skykamsch. This project would improve infrastructure at the mouth of Mabney homes and property within the Town of Skykamsch.
3	WLEFD SKYKAMSH LE DOWN 2016 REPAIR	SF Skykamsch	FCD Const	\$85,402	\$150,000	\$64,598	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$150,000	Skykamsch. Approximately 30-footing section of missing armor rock immediately downstream of the bridge. Further flooding may compromise or severely damage
4	WLEFD TAMBOR LN EROSION BUNYONTS	SF Skykamsch	FCD Acqur/Elev	\$1,899,242	\$2,409,874	\$480,632	(5,095,672)	\$766,632	\$0	\$0	\$0	\$0	\$0	\$400,000			\$2,899,874	Skykamsch. This project will continue to acquire and remove homes along a stretch of the Skykamsch River that are endangered by erosive forces as well as
5	WLEFD TAMBORLANE 2016 REPAIR	SE Skykamsch	FCD Const	\$11,115	\$18,040	\$4,925	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$16,040	Skykamsch. Project will back the privately-built roadway to reconstruct rock wall into stable retention geometry. Will likely be implemented by the Strle Team.
6	WLEFD TAMBORLANE 2016 REPAIR	SF Skykamsch	FCD Const	\$0	\$600,000	\$600,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$600,000	Skykamsch. Revestment is approximately 300 LF along left bank of South Fork Skykamsch River. Unstable section of vertical stacked rock is approximately 150 feet long (line verification). Failure has occurred previously in this section of
7	WLEFL 428TH AVE SE BR FEASIBILITY	Upper Shoq	FCD Const	\$309,028	\$309,028	\$0	\$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 52nd Street, and Raining
8	WLEFL CIRCLE RIV RANCH RISK RED	Upper Shoq	FCD Const	\$127,235	\$646,165	\$412,940	\$133,624	\$238,176	\$4,053,508	\$0	\$0	\$0	\$0	\$4,428,846			\$4,889,013	North Bend. Reduce neighborhood isolation from flooding. Develop a set of alternatives for improvements to 428th Avenue SE, SE 52nd Street, and Raining
9	WLEFL MF SNO CORRIDOR IMP	Upper Shoq	FCD Const	\$854	\$954	\$0	\$0	\$1,162,248	\$1,191,900	\$0	\$0	\$0	\$0	\$3,970,008			\$3,970,008	North Bend. Reduce neighborhood isolation from flooding. Develop a set of alternatives for improvements to 428th Avenue SE, SE 52nd Street, and Raining
10	WLEFL MF SNO CORRIDOR PLAN	Upper Shoq	FCD Const	\$1,502,409	\$1,824,912	\$329,503	\$27,585	\$0	\$0	\$0	\$0	\$0	\$0	\$27,585			\$1,852,497	North Bend. Middle Fork Snohomish Corridor Planning, scheduled for completion in 2019.
10	WLEFL MF SNO PLB#4#	Upper Shoq	FCD Const	\$0	\$0	\$0	\$75,000	\$75,000	\$0	\$0	\$0	\$0	\$0	\$150,000			\$150,000	North Bend. Upgrade the Middle Fork Snohomish levees to meet the US Army Corps of Engineers L&S-98 participation standards.
11	WLEFL MF RESIDENTIAL FLD MTGN	Upper Shoq	FCD Acqur/Elev	\$0	\$0	\$0	\$120,000	\$255,000	\$1,680,000	\$1,680,000	\$1,680,000	\$1,680,000	\$2,285,000	\$8,400,000			\$8,400,000	North Bend. Replace five existing rusted out 48" corrugated metal pipes on Norman Creek under 428th Ave SE with a new precast concrete box culvert. The
12	WLEFL1 NORMAN CREEK DS CULV	Upper Shoq	Agreement	\$725,392	\$724,000	\$1,418	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$724,000	North Bend. Replace five existing rusted out 48" corrugated metal pipes on Norman Creek under 428th Ave SE with a new precast concrete box culvert. The
13	WLEFL1 NORMAN CREEK US 2024 CULV	Upper Shoq	Agreement	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$350,000	\$750,000	\$0	\$1,100,000			\$1,100,000	North Bend. Replace five existing rusted out 48" corrugated metal pipes on Norman Creek under 428th Ave SE with a new precast concrete box culvert. The
14	WLEFL1 NORTH FORK BRIDGE 2016 REPAIR	Upper Shoq	Agreement	\$177,742	\$177,742	\$0	\$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
15	WLEFL1 NORTH FORK BRIDGE FEASIBILITY	Upper Shoq	Agreement	\$0	\$200,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$200,000	North Fork Bridge by retrofitting the existing structure with deep foundations or alternative risk mitigation strategies.
16	WLEFL1 RECORD OFFICE 2016 REPAIR	Upper Shoq	Agreement	\$29,181	\$897,835	\$568,654	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$897,835	Snohomish. Repair downstream 200 linear feet of facility which is missing face rock and toe rock. A significant scour hole has formed around a City of Snohomish
17	WLEFL1 REIF RD LEVEE IMPROVEMENTS	Upper Shoq	FCD Const	\$0	\$0	\$0	\$0	\$285,428	\$316,421	\$385,897	\$457,218	\$1,427,014	\$1,427,014	\$1,427,014			\$1,427,014	North Bend. Replace five existing rusted out 48" corrugated metal pipes on Norman Creek under 428th Ave SE with a new precast concrete box culvert. The
18	WLEFL1 BENDIGO UPR SETBACK NORTH BEND	Upper Shoq	Agreement	\$0	\$50,000	\$50,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$4,200,000			\$4,200,000	North Bend. Upgrade the Middle Fork Snohomish levees to meet the US Army Corps of Engineers L&S-98 participation standards.
19	WLEFL1 REING RD ELEVATION	Upper Shoq	Agreement	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$150,000			\$150,000	North Bend. Upgrade the Middle Fork Snohomish levees to meet the US Army Corps of Engineers L&S-98 participation standards.
20	WLEFL1 REING RD RVTMT 2016 REPAIR	Upper Shoq	FCD Const	\$391,568	\$1,200,000	\$808,432	\$4,057,657	\$25,462	\$0	\$0	\$0	\$0	\$0	\$4,083,119			\$5,263,119	North Bend. Repair three primary damage sites just upstream and directly across from the Skokholm confluence totaling ~265 linear feet. Construction is anticipated in 2020.

No.	Title	Basin	Type of project	2018 Inception to Date Expenditure	2019 Inception to Date Budget	2019 Available Budget	2020 Adopted	2020 Supplemental	2020 Revised	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
21	WLF1 RIBARY CREEK	Upper Shoq	FCD Const.	\$0	\$36,492	\$36,492	\$150,000	\$150,000	\$450,000	\$3,238,016	\$3,238,016	\$0	\$0	\$0	\$8,162,501	\$0	\$0	\$8,162,501	North Bend. Address flooding from Ribary Creek at Bendigo Blvd in North Bend. Flooded area is approximately 100' wide and 100' deep.
22	WLF1 SF CIB MED TERM	Upper Shoq	FCD Const.	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$43,000,000	\$0	\$0	\$43,000,000	North Bend. Implement projects identified in the Capital Investment Strategy. Approved as policy direction by the Executive Committee.
23	WLF1 SF CIB LONG TERM	Upper Shoq	FCD Const.	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$57,100,000	\$0	\$0	\$57,100,000	North Bend. Implement projects identified in the Capital Investment Strategy. Approved as policy direction by the Executive Committee.
24	WLF1 SF SNO CORRIDOR PLAN	Upper Shoq	FCD Const.	\$2,573,493	\$2,573,493	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,573,493	North Bend. Site levee deficiencies have been identified in this levee segment. The project will design and reconstruct the impaired segment of levee in place.
25	WLF1 SF SNO LEVEE REMEDIATION	Upper Shoq	FCD Const.	\$173,977	\$388,000	\$214,023	\$0	\$0	\$0	\$277,790	\$1,031,796	\$0	\$0	\$0	\$1,756,526	\$0	\$0	\$2,147,526	North Bend. Total breach of levee - erosion and lateral channel migration is ongoing. No immediately adjacent private property or infrastructure. Continued erosion could threaten 25th Ave embankment of bridge.
26	WLF1 SHAKE MILL LB 2016 REPAIR	Upper Shoq	FCD Const.	\$88,601	\$3,550,000	\$3,161,389	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$3,550,000	North Bend. Between 49th St Bridge and Tea Creek, several locations on levee are in poor condition. The project will repair approximately 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 roadway.
27	WLF1 SHAKE MILL RB 2016 REPAIR	Upper Shoq	FCD Const.	\$1,090	\$51,090	\$50,000	\$100,000	\$200,000	\$369,910	\$0	\$0	\$0	\$0	\$0	\$660,910	\$0	\$0	\$712,000	North Bend. Road approximately 25' from toe of the facility with missing toe rock and shallow scour scallop into bank that is approximately 1-2 feet deep. S levee is a relatively short flood containment levee that protects 50+ homes in the View Park Neighborhood of North Bend from flooding. Project scheduled for completion by January 2015 flood event.
28	WLF1 S VIEW RMA 2017 REPAIR	Upper Shoq	FCD Const.	\$136,754	\$386,754	\$260,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$386,754	North Bend. Placeholder funding to partner with WSDOT to expand bridge SR202 opening over South Fork Shoquame and Ribary Creek to improve conveyance and reduce upstream flood impacts. Supported by North Bend. Requires stable or increasing annual funding contribution of this project is being evaluated in the SF Socialization Corridor Plan.
29	WLF1 SR202 SF BRIDGE LENGTHEN	Upper Shoq	FCD Const.	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$100,000	\$100,000	\$0	\$0	\$100,000	North Bend. Prepare a Concept Development Report (CDR) to analyze and select best span/alignment replacement bridge and road-lifting option as the current bridge does not provide enough hydraulic opening due to the transport of large debris.
30	WLF1 TATE CR SCOUR FEASIBILITY	Upper Shoq	Agreement	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$150,000	\$0	\$0	\$150,000	\$0	\$0	\$150,000	North Bend. Flood damage repairs from January 2015 flood event. Locations include Mason-Theson Ellis and Mason-Theson Extension (Middle Fork Shoquame); North Park (North Fork Shoquame); and Record Office, Shoquame. This project will continue to acquire or elevate flood-prone structures in the Upper Shoquame basin to reduce the risk of flood, erosion, and channel migration damage. Partnership with City of Shoquame to elevate homes and structures.
31	WLF1 UPPER SNOQ 2015 FLOOD REPAIR	Upper Shoq	FCD Const.	\$555,771	\$556,761	\$1,008	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$556,761	North Bend. Flood damage repairs from January 2015 flood event. Locations include Mason-Theson Ellis and Mason-Theson Extension (Middle Fork Shoquame); North Park (North Fork Shoquame); and Record Office, Shoquame. This project will continue to acquire or elevate flood-prone structures in the Upper Shoquame basin to reduce the risk of flood, erosion, and channel migration damage. Partnership with City of Shoquame to elevate homes and structures.
32	WLF1 UPR SNO RES. ELD MITIGTN	Upper Shoq	FCD Acqui/Elev	\$11,411,070	\$17,177,550	\$1,305,960	\$1,756,037	\$1,756,037	\$2,295,725	\$2,384,628	\$2,335,567	\$2,506,834	\$2,583,893	\$13,944,513	\$26,862,063	\$0	\$0	\$26,862,063	North Bend. Ensure South Fork Shoquame River levees meet the standards of the US Army Corps of Engineers Ft. Belknap program in order to receive future assistance from the Corps in the event of flood damage to the levee.
33	WLF1 USACE PL 84-99 SF SNO	Upper Shoq	FCD Const.	\$4,769	\$333,377	\$328,608	\$0	\$0	\$0	\$303,454	\$0	\$0	\$0	\$0	\$1,048,089	\$0	\$0	\$1,048,089	Redmond. Alternate flooding on this sole access road by replacing the existing drainage to alleviate neighborhood flooding by constituting a drainage structure to lower the Shoquame River.
34	WLF1 28TH AVE NEAR SR 202 FLD IMPRVMT	Lower Shoq	Agreement	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$540,000	\$540,000	\$0	\$0	\$540,000	Redmond. Alternate flooding on this sole access road by replacing the existing drainage to alleviate neighborhood flooding by constituting a drainage structure to lower the Shoquame River.
35	WLF1 30TH AVE SE & SE 43RD PL FLD IMPRVMT	Lower Shoq	Agreement	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$500,000	\$500,000	\$0	\$0	\$500,000	Redmond. Alternate flooding on this sole access road by replacing the existing drainage to alleviate neighborhood flooding by constituting a drainage structure to lower the Shoquame River.
36	WLF1 CITY SNOQ HOME ELEVATIONS	Lower Shoq	Agreement	\$0	\$0	\$0	\$1,118,000	\$1,118,000	\$0	\$0	\$0	\$0	\$0	\$0	\$1,118,000	\$0	\$0	\$1,118,000	Redmond. Alternate flooding on this sole access road by replacing the existing drainage to alleviate neighborhood flooding by constituting a drainage structure to lower the Shoquame River.
37	WLF1 DUTCHMAN RD REPAIR	Lower Shoq	FCD Const.	\$0	\$48,953	\$48,953	\$0	\$0	\$200,000	\$500,000	\$0	\$0	\$0	\$0	\$700,000	\$0	\$0	\$748,953	Redmond. Alternate flooding on this sole access road by replacing the existing drainage to alleviate neighborhood flooding by constituting a drainage structure to lower the Shoquame River.
38	WLF1 28TH AVE NEAR SR 202 FLD IMPRVMT	Lower Shoq	Agreement	\$143,386	\$150,000	\$6,614	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$150,000	\$0	\$0	\$150,000	Redmond. Alternate flooding on this sole access road by replacing the existing drainage to alleviate neighborhood flooding by constituting a drainage structure to lower the Shoquame River.
39	WLF1 30TH AVE SE & SE 43RD PL FLD IMPRVMT	Lower Shoq	FCD Acqui/Elev	\$995,448	\$979,963	\$174,357	\$0	\$0	\$115,214	\$118,670	\$122,200	\$125,897	\$129,674	\$611,695	\$1,981,488	\$0	\$0	\$1,981,488	Redmond. Alternate flooding on this sole access road by replacing the existing drainage to alleviate neighborhood flooding by constituting a drainage structure to lower the Shoquame River.
40	WLF1 30TH AVE SE & SE 43RD PL FLD IMPRVMT	Lower Shoq	FCD Acqui/Elev	\$1,289,531	\$1,895,671	\$426,440	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,895,671	\$0	\$0	\$1,895,671	Redmond. Alternate flooding on this sole access road by replacing the existing drainage to alleviate neighborhood flooding by constituting a drainage structure to lower the Shoquame River.
41	WLF1 30TH AVE SE & SE 43RD PL FLD IMPRVMT	Lower Shoq	FCD Const.	\$6,326,158	\$7,365,814	\$1,038,656	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$7,365,814	\$0	\$0	\$7,365,814	Redmond. Alternate flooding on this sole access road by replacing the existing drainage to alleviate neighborhood flooding by constituting a drainage structure to lower the Shoquame River.
42	WLF1 30TH AVE SE & SE 43RD PL FLD IMPRVMT	Lower Shoq	FCD Acqui/Elev	\$2,201,472	\$3,043,659	\$842,137	\$272,863	\$272,863	\$300,450	\$546,363	\$579,837	\$562,754	\$579,837	\$0	\$2,492,068	\$0	\$0	\$2,492,068	Redmond. Alternate flooding on this sole access road by replacing the existing drainage to alleviate neighborhood flooding by constituting a drainage structure to lower the Shoquame River.
43	WLF1 30TH AVE SE & SE 43RD PL FLD IMPRVMT	Lower Shoq	Agreement	\$0	\$0	\$0	\$432,000	\$432,000	\$0	\$0	\$0	\$0	\$0	\$0	\$432,000	\$0	\$0	\$432,000	Redmond. Alternate flooding on this sole access road by replacing the existing drainage to alleviate neighborhood flooding by constituting a drainage structure to lower the Shoquame River.
44	WLF1 30TH AVE SE & SE 43RD PL FLD IMPRVMT	Lower Shoq	FCD Const.	\$1,643,026	\$1,916,294	\$273,268	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,916,294	\$0	\$0	\$1,916,294	Redmond. Alternate flooding on this sole access road by replacing the existing drainage to alleviate neighborhood flooding by constituting a drainage structure to lower the Shoquame River.
45	WLF1 30TH AVE SE & SE 43RD PL FLD IMPRVMT	Lower Shoq	Agreement	\$894,807	\$595,899	\$291	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$595,899	\$0	\$0	\$895,098	Redmond. Alternate flooding on this sole access road by replacing the existing drainage to alleviate neighborhood flooding by constituting a drainage structure to lower the Shoquame River.

No.	Title	Basin	Type of project	2018 Inception Date	2019 Inception Date	2019 Available Budget	2020 Adopted	2020 Supplemental	2020 Revised	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
44	WLFL3 SNO 2019 BANK REPAIR	Lower Shoq	Agreement	\$226,149	\$2,200,000	\$1,872,851	\$0	\$0	\$0	\$0	\$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 roadway and extend MSE retaining wall. This project will repair an existing failing roadway and extend MSE retaining wall. This project will repair an existing failing roadway and extend MSE retaining wall.
45	WLFL3 SE FISH HATCHERY RD	Lower Shoq	Agreement	\$466,163	\$466,163	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$466,163	Fall City. Reduce neighborhood erosion from 20-30 homes. Prevent slope failure of slope access roadway that would isolate 20-30 homes.
46	WLFL3 FISH HATCHERY RD BR #618 REPAIR	Lower Shoq	Agreement	\$0	\$0	\$0	\$400,000	\$0	\$60,000	\$60,000	\$0	\$0	\$0	\$0	\$700,000	\$0	\$0	\$700,000	Duval. Strengthen the bridge structure to stabilize it after the most recent flood event. This project will repair an existing failing roadway and extend MSE retaining wall. This project will repair an existing failing roadway and extend MSE retaining wall.
46	WLFL3 SINNEMAQUALE 2011 REPR	Lower Shoq	FCD Const.	\$12,439,513	\$12,508,516	\$69,003	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$12,508,516	Duval. Large capital project to repair 1000 linear feet of the Sinneema Quale upper elevation. Projects SR 303, two regional fiber optic lines, and Sinneema Quale upper elevation. Projects SR 303, two regional fiber optic lines, and Sinneema Quale upper elevation.
47	WLFL3 SHOQUALMIE VALLEY FEAS	Lower Shoq	Agreement	\$0	\$0	\$0	\$0	\$0	\$0	\$250,000	\$250,000	\$0	\$0	\$0	\$500,000	\$0	\$0	\$500,000	Carrollton. This project will repair an existing failing roadway and extend MSE retaining wall. This project will repair an existing failing roadway and extend MSE retaining wall.
48	WLFL3 STOSSEL RB 2018 REPAIR	Lower Shoq	FCD Const.	\$307,886	\$1,107,886	\$300,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,107,886	Carrollton. This project will repair an existing failing roadway and extend MSE retaining wall. This project will repair an existing failing roadway and extend MSE retaining wall.
49	WLFL3 STOSSEL LONG TERM REPAIR	Lower Shoq	FCD Const.	\$0	\$0	\$0	\$50,000	\$0	\$50,000	\$150,000	\$170,000	\$500,000	\$2,800,000	\$0	\$3,370,000	\$0	\$0	\$3,370,000	Carrollton. This project will repair an existing failing roadway and extend MSE retaining wall. This project will repair an existing failing roadway and extend MSE retaining wall.
50	WLFL3 TOLT PIPELINE PROTECTION	Lower Shoq	FCD Const.	\$10,442,073	\$10,778,068	\$435,995	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$10,778,068	Carrollton. This project will repair an existing failing roadway and extend MSE retaining wall. This project will repair an existing failing roadway and extend MSE retaining wall.
51	WLFL3 DUVAL SLOUGH 2017 IMPRV	Lower Shoq	Agreement	\$777,937	\$400,000	\$172,083	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$400,000	Duval. This project will repair an existing failing roadway and extend MSE retaining wall. This project will repair an existing failing roadway and extend MSE retaining wall.
52	WLFL3 FRESH LEVEE 2016 REPAIR	Tolt	FCD Const.	\$164,558	\$300,360	\$195,802	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$300,360	Carrollton. This project will repair an existing failing roadway and extend MSE retaining wall. This project will repair an existing failing roadway and extend MSE retaining wall.
53	WLFL3 GIRL SCOUT LEVEE 2016 REPAIR	Tolt	FCD Const.	\$160,086	\$311,000	\$150,904	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$311,000	Carrollton. This project will repair an existing failing roadway and extend MSE retaining wall. This project will repair an existing failing roadway and extend MSE retaining wall.
54	WLFL3 HOLMBERG 2018 REPAIR	Tolt	FCD Const.	\$0	\$25,000	\$25,000	\$25,000	\$0	\$25,000	\$450,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$500,000	Carrollton. This project will repair an existing failing roadway and extend MSE retaining wall. This project will repair an existing failing roadway and extend MSE retaining wall.
55	WLFL3 HOLMBERG FEASIBILITY	Tolt	FCD Const.	\$62,156	\$283,969	\$201,813	\$84,222	\$0	\$84,222	\$0	\$0	\$0	\$0	\$0	\$84,222	\$0	\$0	\$348,191	Carrollton. This project will repair an existing failing roadway and extend MSE retaining wall. This project will repair an existing failing roadway and extend MSE retaining wall.
56	WLFL3 LOWER FRESH LEVEE SETBACK	Tolt	FCD Const.	\$237	\$478,684	\$478,627	\$100,000	\$0	\$100,000	\$700,000	\$480,000	\$700,000	\$14,650,000	\$100,000	\$17,100,000	\$0	\$0	\$17,578,664	Carrollton. This project will repair an existing failing roadway and extend MSE retaining wall. This project will repair an existing failing roadway and extend MSE retaining wall.
57	WLFL3 LOWER TOLT RIVER ACQUISITION	Tolt	FCD Acqui/Elev	\$259,475	\$744,475	\$215,000	(\$180,000)	\$0	(\$180,000)	\$0	\$0	\$0	\$0	\$0	(\$180,000)	\$0	\$0	\$554,475	Carrollton. This project will repair an existing failing roadway and extend MSE retaining wall. This project will repair an existing failing roadway and extend MSE retaining wall.
58	WLFL3 REINLENGER LEVEE 2017 REPAIR	Tolt	FCD Const.	\$139,912	\$511,000	\$171,068	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$511,000	Carrollton. This project will repair an existing failing roadway and extend MSE retaining wall. This project will repair an existing failing roadway and extend MSE retaining wall.
59	WLFL3 RIO VISTA PROPERTY ACQ	Tolt	FCD Acqui/Elev	\$203	\$500,000	\$489,797	(\$449,797)	\$0	(\$449,797)	\$0	\$449,797	\$0	\$0	\$0	\$0	\$0	\$0	\$500,000	Carrollton. This project will repair an existing failing roadway and extend MSE retaining wall. This project will repair an existing failing roadway and extend MSE retaining wall.
60	WLFL3 SAN SOULI NRRHOOD BUYOUT	Tolt	FCD Acqui/Elev	\$4,350,533	\$4,953,353	\$593,820	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$4,953,353	Carrollton. This project will repair an existing failing roadway and extend MSE retaining wall. This project will repair an existing failing roadway and extend MSE retaining wall.
61	WLFL3 SAN SOULI REACH IMPROVANTS	Tolt	FCD Const.	\$0	\$160,000	\$160,000	\$25,000	\$0	\$25,000	\$80,000	\$700,000	\$700,000	\$623,000	\$0	\$2,340,000	\$0	\$0	\$2,950,000	Carrollton. This project will repair an existing failing roadway and extend MSE retaining wall. This project will repair an existing failing roadway and extend MSE retaining wall.
62	WLFL3 SEDIMENT TIGHT FEAS	Tolt	FCD Const.	\$5,499	\$402,805	\$396,306	\$39,553	\$0	\$39,553	\$15,648	\$0	\$0	\$0	\$0	\$54,201	\$0	\$0	\$467,006	Carrollton. This project will repair an existing failing roadway and extend MSE retaining wall. This project will repair an existing failing roadway and extend MSE retaining wall.
63	WLFL3 SR 303 BR IMPROVANTS FEAS	Tolt	FCD Const.	\$1,104	\$395,900	\$394,796	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$395,900	Carrollton. This project will repair an existing failing roadway and extend MSE retaining wall. This project will repair an existing failing roadway and extend MSE retaining wall.
64	WLFL3 TOLT 2015 FLOOD REPAIRS	Tolt	FCD Const.	\$46,909	\$46,909	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$46,909	Carrollton. This project will repair an existing failing roadway and extend MSE retaining wall. This project will repair an existing failing roadway and extend MSE retaining wall.
65	WLFL3 TOLT CR LONG TERM	Tolt	FCD Const.	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	Carrollton. This project will repair an existing failing roadway and extend MSE retaining wall. This project will repair an existing failing roadway and extend MSE retaining wall.
66	WLFL3 TOLT CR LONG TERM	Tolt	FCD Const.	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	Carrollton. This project will repair an existing failing roadway and extend MSE retaining wall. This project will repair an existing failing roadway and extend MSE retaining wall.
67	WLFL3 TOLT CORRIDOR PLAN	Tolt	FCD Const.	\$1,138,802	\$1,138,857	\$14,855	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,153,657	Carrollton. This project will repair an existing failing roadway and extend MSE retaining wall. This project will repair an existing failing roadway and extend MSE retaining wall.
68	WLFL3 TOLT R LEVEE L.O.S. ANALYSIS	Tolt	FCD Const.	\$156,789	\$413,464	\$256,715	\$276,651	\$0	\$276,651	\$31,031	\$0	\$0	\$0	\$0	\$309,682	\$0	\$0	\$723,166	Carrollton. This project will repair an existing failing roadway and extend MSE retaining wall. This project will repair an existing failing roadway and extend MSE retaining wall.

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69	WV.F1.9 TOLL R MILE 1.1 ACC	Toll	FCD Acqui/Elev	\$4,120,926	\$4,306,106	\$1,057,781	(550,781)		\$850,781	\$0	\$0	\$0	\$0	\$0	\$600,000			\$5,106,106	Caravan. Acquisition funding for high risk properties in levee setback project. Levees will be demolished by the State through adoption of the Toll Corridor Plan.
70	WV.F1.3 TOLL R NATURAL AREA ACO	Toll	FCD Acqui/Elev	\$2,550,314	\$2,665,987	\$54,753	\$1,350,247		\$1,350,247	\$0	\$985,000	\$0	\$0	\$0	\$2,035,247			\$4,640,314	Caravan. Capital investment strategy: acquire at-risk homes from willing sellers. Caravan. Capital investment strategy: acquire at-risk homes from willing sellers. Evaluate feasibility of levee relocation from flooding. Evaluate feasibility of levee relocation from flooding.
71	WV.F1.3 TOLL R RD ELEVATION FEASIBILITY	Toll	FCD Const	\$49,508	\$250,000	\$200,492	\$0		\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$250,000	Caravan. Capital investment strategy: acquire at-risk homes from willing sellers. Caravan. Capital investment strategy: acquire at-risk homes from willing sellers. Evaluate feasibility of levee relocation from flooding. Evaluate feasibility of levee relocation from flooding.
72	WV.F1.3 TOLL R RD IMPROVEMENTS	Toll	FCD Const	\$0	\$0	\$0	\$0		\$50,045	\$1,043,547	\$225,102	\$1,043,547	\$1,452,853	\$0	\$2,883,629			\$2,883,629	Caravan. Capital investment strategy: acquire at-risk homes from willing sellers. Caravan. Capital investment strategy: acquire at-risk homes from willing sellers. Evaluate feasibility of levee relocation from flooding. Evaluate feasibility of levee relocation from flooding.
73	WV.F1.4 UPPER DREW LEVEE SETBACK	Toll	FCD Const	\$0	\$0	\$0	\$50,000		\$50,000	\$159,050	\$175,059	\$1,200,000	\$1,800,000	\$0	\$17,884,189			\$17,884,189	Caravan. Capital investment strategy: acquire at-risk homes from willing sellers. Caravan. Capital investment strategy: acquire at-risk homes from willing sellers. Evaluate feasibility of levee relocation from flooding. Evaluate feasibility of levee relocation from flooding.
74	WV.F1.4 ALPINE MANOR NEIGHBORHOOD BUYOUTS	Raging	FCD Acqui/Elev	\$1,733,659	\$1,853,450	\$99,801	\$0		\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$1,853,450	Caravan. Capital investment strategy: acquire at-risk homes from willing sellers. Caravan. Capital investment strategy: acquire at-risk homes from willing sellers. Evaluate feasibility of levee relocation from flooding. Evaluate feasibility of levee relocation from flooding.
75	WV.F1.4 RAGING MOUTH TO BR 2017 REPAIR	Raging	FCD Const	\$257,426	\$500,000	\$242,574	\$0		\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$500,000	Caravan. Capital investment strategy: acquire at-risk homes from willing sellers. Caravan. Capital investment strategy: acquire at-risk homes from willing sellers. Evaluate feasibility of levee relocation from flooding. Evaluate feasibility of levee relocation from flooding.
76	WV.F1.4 RAGING SCOUR REPAIR 2017	Raging	Agreement	\$25,062	\$80,000	\$54,938	\$0		\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$80,000	Caravan. Capital investment strategy: acquire at-risk homes from willing sellers. Caravan. Capital investment strategy: acquire at-risk homes from willing sellers. Evaluate feasibility of levee relocation from flooding. Evaluate feasibility of levee relocation from flooding.
77	Shogunville-South Park-Skywayman Subarea		Agreement	\$73,308,000	\$84,471,452	\$18,824,851	\$3,743,012	\$200,000	\$9,853,012	\$19,865,585	\$19,785,277	\$13,255,407	\$27,274,241	\$27,274,241	\$109,695,196	\$89,229,000	\$95,900,000	\$99,237,648	Caravan. Capital investment strategy: acquire at-risk homes from willing sellers. Caravan. Capital investment strategy: acquire at-risk homes from willing sellers. Evaluate feasibility of levee relocation from flooding. Evaluate feasibility of levee relocation from flooding.
78	WV.F1.5 RAGING SCOUR REPAIR 2017	Raging	Agreement	\$25,062	\$80,000	\$54,938	\$0		\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$80,000	Caravan. Capital investment strategy: acquire at-risk homes from willing sellers. Caravan. Capital investment strategy: acquire at-risk homes from willing sellers. Evaluate feasibility of levee relocation from flooding. Evaluate feasibility of levee relocation from flooding.
79	WV.F1.5 RAGING SCOUR REPAIR 2017	Raging	Agreement	\$25,062	\$80,000	\$54,938	\$0		\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$80,000	Caravan. Capital investment strategy: acquire at-risk homes from willing sellers. Caravan. Capital investment strategy: acquire at-risk homes from willing sellers. Evaluate feasibility of levee relocation from flooding. Evaluate feasibility of levee relocation from flooding.
80	WV.F1.5 ALLEN LK OUTLET IMPROVMENT	Sammarsh	Agreement	\$0	\$0	\$400,000	\$0		\$400,000	\$1,400,000	\$1,000,000	\$0	\$0	\$0	\$2,800,000			\$2,800,000	Caravan. Capital investment strategy: acquire at-risk homes from willing sellers. Caravan. Capital investment strategy: acquire at-risk homes from willing sellers. Evaluate feasibility of levee relocation from flooding. Evaluate feasibility of levee relocation from flooding.
81	WV.F1.5 GEORGE DAVIS CRK CITY OF SAMMAMISH	Sammarsh	Agreement	\$0	\$0	\$400,000	\$0		\$400,000	\$0	\$0	\$0	\$0	\$0	\$400,000			\$400,000	Caravan. Capital investment strategy: acquire at-risk homes from willing sellers. Caravan. Capital investment strategy: acquire at-risk homes from willing sellers. Evaluate feasibility of levee relocation from flooding. Evaluate feasibility of levee relocation from flooding.
82	WV.F1.5 WILLIAMS CRK FLOOD REST	Sammarsh	FCD Const	\$2,255,441	\$3,520,977	\$1,265,536	\$0		\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$3,520,977	Caravan. Capital investment strategy: acquire at-risk homes from willing sellers. Caravan. Capital investment strategy: acquire at-risk homes from willing sellers. Evaluate feasibility of levee relocation from flooding. Evaluate feasibility of levee relocation from flooding.
83	WV.F1.5 BEAR CRK FLOOD EROSION REDMOND	Lk Wash Tribes	Agreement	\$0	\$0	\$550,000	\$0		\$550,000	\$550,000	\$0	\$0	\$0	\$0	\$1,100,000			\$1,100,000	Caravan. Capital investment strategy: acquire at-risk homes from willing sellers. Caravan. Capital investment strategy: acquire at-risk homes from willing sellers. Evaluate feasibility of levee relocation from flooding. Evaluate feasibility of levee relocation from flooding.
84	WV.F1.6 ISSAQUAH TRIB FEAS	Lk Wash Tribes	Agreement	\$160,000	\$350,000	\$200,000	\$0		\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$350,000	Caravan. Capital investment strategy: acquire at-risk homes from willing sellers. Caravan. Capital investment strategy: acquire at-risk homes from willing sellers. Evaluate feasibility of levee relocation from flooding. Evaluate feasibility of levee relocation from flooding.
84	WV.F1.6 FACTORIA BLVD DRAINAGE	Lk Wash Tribes	Agreement	\$0	\$0	\$1,071,000	\$0		\$1,071,000	\$3,721,000	\$2,022,000	\$0	\$0	\$0	\$6,814,000			\$6,814,000	Caravan. Capital investment strategy: acquire at-risk homes from willing sellers. Caravan. Capital investment strategy: acquire at-risk homes from willing sellers. Evaluate feasibility of levee relocation from flooding. Evaluate feasibility of levee relocation from flooding.
85	WV.F1.6 LOWER COAL CRK PH I	Lk Wash Tribes	Agreement	\$5,401,689	\$10,461,992	\$5,059,923	\$600,000		\$600,000	\$3,000,000	\$200,000	\$285,000	\$1,310,000	\$1,432,358	\$4,127,358			\$14,586,950	Caravan. Capital investment strategy: acquire at-risk homes from willing sellers. Caravan. Capital investment strategy: acquire at-risk homes from willing sellers. Evaluate feasibility of levee relocation from flooding. Evaluate feasibility of levee relocation from flooding.
85	WV.F1.6 MAY VALLEY DRAINAGE IMPROVMENT	Lk Wash Tribes	FCD Const	\$0	\$380,000	\$380,000	\$150,000		\$150,000	\$0	\$0	\$0	\$0	\$0	\$150,000			\$330,000	Caravan. Capital investment strategy: acquire at-risk homes from willing sellers. Caravan. Capital investment strategy: acquire at-risk homes from willing sellers. Evaluate feasibility of levee relocation from flooding. Evaluate feasibility of levee relocation from flooding.
86	WV.F1.6 BYERS 2020 EMERGENCY ACTION	Cedar	FCD Acqui/Elev	\$0	\$0	\$0	\$0		\$25,000	\$0	\$0	\$0	\$0	\$0	\$25,000			\$25,000	Caravan. Capital investment strategy: acquire at-risk homes from willing sellers. Caravan. Capital investment strategy: acquire at-risk homes from willing sellers. Evaluate feasibility of levee relocation from flooding. Evaluate feasibility of levee relocation from flooding.
87	WV.F1.6 CDR PRE-CONST STRITGS ACO	Cedar	FCD Acqui/Elev	\$2,611,789	\$4,330,532	\$1,719,743	\$0		\$0	\$0	\$0	\$0	\$0	\$1,200,000	\$1,200,000			\$5,530,532	Caravan. Capital investment strategy: acquire at-risk homes from willing sellers. Caravan. Capital investment strategy: acquire at-risk homes from willing sellers. Evaluate feasibility of levee relocation from flooding. Evaluate feasibility of levee relocation from flooding.
88	WV.F1.6 CEDAR LEVEE SETBACK FEAS COGAR CONTRAS	Cedar	FCD Const	\$1,850,907	\$1,987,587	\$136,680	\$0		\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$1,987,587	Caravan. Capital investment strategy: acquire at-risk homes from willing sellers. Caravan. Capital investment strategy: acquire at-risk homes from willing sellers. Evaluate feasibility of levee relocation from flooding. Evaluate feasibility of levee relocation from flooding.

No.	Title	Basin	Type of project	2018 Inception to Date Expenditure	2018 Inception to Date Budget	2019 Available Budget	2020 Adopted	2020 Supplemental	2020 Revised	2021 Forecasted	2022 Forecasted	2023 Forecasted	2024 Forecasted	2025 Forecasted	6-Year CIP Total	CIP Yr 7-10	CIP 10+ Year	Project Life Total	Comments	
88	WVLF CEDAR C/S MED. TERM	Cedar	FCD Acq/Elev	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$22,000,000	\$22,000,000	\$22,000,000	Remov. Elevate or acquire highest risk and repetitive loss properties from willing sellers. Elevate or purchase approximately 25 homes each year.	
89	WVLF CEDAR C/S LONG TERM	Cedar	FCD Acq/Elev	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$35,000,000	\$35,000,000	\$35,000,000	Remov. Implement project identified in the Capital Investment Strategy. Approved in 2017. Implement projects identified in the Capital Investment Strategy. Approved in 2017.	
90	WVLF CEDAR RES FLOOD MITIGATION	Cedar	FCD Acq/Elev	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$800,000	\$800,000	\$800,000	Approved as policy decision by the Executive Committee.		
91	WVLF CEDAR R. REP LOSS MITIGATN	Cedar	FCD Acq/Elev	\$3,182,200	\$3,182,200	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$3,182,200	Remov. Acquire frequently-flooded homes. Placeholder funding until District Board approves funding policy.	
92	WVLF CRT SITE A BANK	Cedar	FCD Const.	\$92	\$290,000	\$289,908	\$68,302	\$68,302	\$68,302	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$68,302	Remov. Upgrade existing bridge. Repair eroded section of left bank with bioengineered revegetation to stabilize toe of bank and to prevent large scale bank failure.	
93	WVLF CRT SITE A BANK	Cedar	FCD Const.	\$0	\$0	\$0	\$0	\$300,000	\$300,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$300,000	This emergency action will armor up to 300 feet river bank in order to stabilize the bank. 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.	
94	WVLF CEDAR R. TRAIL SITE 2	Cedar	Agreement	\$9,829,478	\$12,085,498	\$2,256,020	\$901,051	\$901,051	\$901,051	\$445,679	\$111,267	\$114,695	\$500,000	\$500,000	\$2,172,602	\$0	\$0	\$14,236,100	Remov. 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.	
95	WVLF CEDAR R. GRAVEL REMOVAL	Cedar	Agreement	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$100,000	\$100,000	\$0	\$0	\$0	\$100,000	Remov. Levee improvements necessary to satisfy levee certification engineering requirements.	
96	WVLF CEDAR R. DUNNSTREAM 2024 IMPV	Cedar	Agreement	\$0	\$0	\$3,750,000	\$1,250,000	\$1,250,000	\$1,250,000	\$0	\$0	\$0	\$0	\$0	\$0	\$1,250,000	\$0	\$0	\$5,000,000	Remov. 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 is coordinated with the City of Seattle. Also coordinated with the City of Everett and the City of Edmonds.
97	WVLF CITY OF RENTON LEVEE CERTIFICATION	Cedar	Agreement	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	Remov. Capital Investment Strategy. Subtask levee, excavate side-channel to reduce pressure on levee; reconstruct, reinforce and/or extend levee; install up to 3 properties.	
98	WVLF FBD CORRIDOR IMPLEMENTATION	Cedar	FCD Acq/Elev	\$5,224,475	\$5,511,784	\$87,309	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$5,311,784	Remov. Levee improvements necessary to satisfy levee certification engineering requirements.	
99	WVLF HERZMAN LEVEE SETBACK	Cedar	FCD Const.	\$348,270	\$1,268,478	\$920,208	\$287,337	\$287,337	\$287,337	\$3,828,982	\$69,818	\$0	\$0	\$0	\$0	\$0	\$0	\$4,183,137	Remov. Feasibility study. Status of activities to be determined as part of feasibility study. Includes raise road, partial removal of Jan Road levee, construction of side channel, and migration of at-risk properties. Construction phase for mitigation in 2021 and other improvements in 2023.	
100	WVLF J. VAN RENTON NEIGHBORHOOD	Cedar	FCD Const.	\$34,384	\$1,494,731	\$1,450,347	\$622,137	\$622,137	\$622,137	\$4,845,422	\$329,271	\$0	\$0	\$0	\$0	\$0	\$0	\$5,780,581	Remov. Levee improvements necessary to satisfy levee certification engineering requirements. City of Renton to 1) quantify economic damage potential 2) determine infrastructure modifications to improve flood resiliency and sediment storage potential, and 3) conduct cost-benefit analysis.	
101	WVLF LOWER CEDAR FEASIBILITY STUDY	Cedar	FCD Const.	\$942	\$400,000	\$398,658	\$0	\$0	\$0	\$120,000	\$0	\$0	\$0	\$0	\$0	\$120,000	\$0	\$520,000	Remov. Capital Investment Strategy. Issue in place as subtask Jones Road; construction to be completed in 2021.	
102	WVLF LOWER JONES ROAD NEIGHBORHOOD	Cedar	FCD Const.	\$608,559	\$1,898,468	\$1,289,908	\$0	\$0	\$0	\$681,352	\$235,089	\$4,540,782	\$1,631,720	\$0	\$7,086,924	\$0	\$0	\$8,987,350	Remov. Construction delayed to 2024 to accommodate Jan Rd construction in 2021 or 2022.	
103	WVLF MADSEN CR RENTON	Cedar	Agreement	\$0	\$635,000	\$635,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$635,000	Remov. Achieve 100-year level flood protection for properties south of SR 169 and 25-year level flood protection for properties north of SR 169.	
104	WVLF MAPLEWOOD FEASIBILITY STUDY	Cedar	FCD Const.	\$179,145	\$490,248	\$311,101	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$480,248	Remov. Capital Investment Strategy. Conduct site specific amphibole risk assessment in 2021. The project will include remediation 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 2015 Section 6, the revenue must be used for the purpose of the project.	
105	WVLF ISSAQUAH MAY VALLEY IMPV	Cedar	Agreement	\$0	\$100,000	\$100,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$100,000	Remov. Consider options for A project. Consider options for B project. Consider options for C project. Consider options for D project. Consider options for E project. Consider options for F project. Consider options for G project. Consider options for H project. Consider options for I project. Consider options for J project. Consider options for K project. Consider options for L project. Consider options for M project. Consider options for N project. Consider options for O project. Consider options for P project. Consider options for Q project. Consider options for R project. Consider options for S project. Consider options for T project. Consider options for U project. Consider options for V project. Consider options for W project. Consider options for X project. Consider options for Y project. Consider options for Z project.	
106	WVLF RIVERBEND MHP ACQ	Cedar	FCD Acq/Elev	\$4,382,685	\$5,231,042	\$698,157	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$5,231,042	Remov. Roundabout or additional travel lanes with a travel signal at the intersection of the project. The project will include remediation 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 2015 Section 6, the revenue must be used for the purpose of the project.	
107	WVLF MADSEN CR CULVERT 2017	Cedar	Agreement	\$206,205	\$1,100,000	\$893,795	\$1,470,000	\$1,470,000	\$1,470,000	\$0	\$0	\$0	\$0	\$0	\$0	\$1,470,000	\$0	\$2,970,000	Remov. Prepare Concept Development Report to analyze and select best culvert replacement and re-earthing option; and analyze upstream and downstream options.	
108	WVLF SR 169 FEASIBILITY STUDY	Cedar	FCD Const.	\$176,693	\$648,895	\$478,167	\$138,933	\$138,933	\$138,933	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$648,895	Remov. 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.	
109	WVLF SAMMICH SUBAREA	Cedar	FCD Const.	\$3,827,939	\$5,082,686	\$2,015,937	\$7,505,030	\$7,505,030	\$7,505,030	\$19,862,535	\$4,463,445	\$4,840,367	\$3,541,720	\$3,923,358	\$3,923,358	\$32,000,000	\$35,400,000	\$35,989,696,351	Remov. Pending final FCD decision to move forward with preliminary design.	
110	WVLF BRISQOUCHE LEVEE SETBACK	Green	Agreement	\$21,072,608	\$33,330,271	\$2,257,685	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$23,330,271	Remov. Feasibility study for four locations completed by the City of Kent. Final recommendations 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 2015 Section 6, the revenue must be used for the purpose of the project.	
111	WVLF BRISQOUCHE LEVEE SETBACK	Green	Agreement	\$1,036,876	\$380,506	\$380,506	\$1,926,876	\$1,926,876	\$1,926,876	\$133,241,331	\$8,647	\$0	\$0	\$0	\$0	\$0	\$0	\$23,331,639	Remov. The 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 train take system, and replacement of the screen spray system. 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.	

No.	Title	Basin	Type of project	2018 Inception to Date Expenditure	2019 Inception to Date Budget	2019 Available Budget	2020 Adopted	2020 Supplemental	2020 Revised	2021 Forecasted	2022 Forecasted	2023 Forecasted	2024 Forecasted	2025 Forecasted	6-Year CIP Total	CS Year 7-10	CS 10-Year	Project Life Total	Comments
115	WV.FL6.BRPS.HIGH-USE ENGINES	Green	FCD Const	\$215,646	\$1,484,646	\$1,269,000	\$3,849,130		\$3,949,130	\$33,949	\$33,949	\$0	\$0	\$0	\$3,983,079			\$5,467,725	Remain. 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 on diesel with three larger pump engines which run on natural gas.
116	WV.FL6.BRPS.SUPPORT SYS UPGRADES	Green	FCD Const	\$0	\$0	\$0	\$1,149		\$1,149	\$183,181	\$940,317	\$876,479	\$12,074	\$0	\$2,013,200			\$2,013,200	Remain. This project will design and build the second phase of renovations to the Black River pump station, replacing support systems such as engine control panels, cooling systems, oils, and bolts.
117	WV.FL6.COVINGTON CR BLACK DIAMOND	Green	Agreement	\$0	\$0	\$0	\$291,500		\$291,500	\$0	\$0	\$0	\$0	\$0	\$2,393,500			\$2,393,500	Remain. This project will construct a new 1.5 mile long, 10-foot wide concrete bridge over the Covington Creek and replace with a bridge to eliminate obstructions for river flow and allow passage for migrating salmon.
117	WV.FL6.GALLIWDYSTRA.FEASIBILITY	Green	FCD Const	\$0	\$330,000	\$330,000	\$330,000		\$330,000	\$0	\$0	\$0	\$0	\$0	\$330,000			\$0	Remain. This project will conduct a feasibility study to raise the levee providing 100-year flood protection on plus 3 feet of floodwood. Canceled and incorporated into Galli-Dystra 2024 RFP.
118	WV.FL6.GALLIWDYSTRA.2020 REPAIR	Green	FCD Const	\$0	\$200,000	\$200,000	\$207,314		\$207,314	\$1,750,783	\$0	\$0	\$0	\$0	\$1,958,097			\$2,158,097	Remain. This project will acquire strategic real estate upon which future large levee construction projects will be located. Canceled and incorporated into Galli-Dystra 2024 RFP.
119	WV.FL6.GREEN.PRE-CONST ACO	Green	FCD Acqui/Elev	\$383,751	\$10,368,856	\$9,975,105	\$0		\$0	\$5,000,000	\$5,000,000	\$5,000,000	\$5,000,000	\$5,000,000	\$25,000,000			\$35,368,856	Remain. This project will result in actions to mitigate environmental damage from levee cresting during 2008-9 (as required by permitting agencies) to maintain the levee (0.25% annual crest) flood. This segment of the levee has the highest factor of safety rating of the Horseshoe Bend levee.
120	WV.FL6.GREEN.A.PL.84.88 MITIGATN.	Green	FCD Const	\$5,173,981	\$5,660,542	\$486,561	\$0		\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$5,660,542	Remain. This project will reconstruct the Horseshoe Bend Levee at the Bates 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 water (0.25% annual crest) flood. This segment of the levee has the highest factor of safety rating of the Horseshoe Bend levee.
121	WV.FL6.HSB.BREDA.SETBACK KENT	Green	Agreement	\$804,130	\$4,758,953	\$3,924,623	\$2,451,377		\$2,451,377	\$6,381,110	\$43,708	\$0	\$0	\$0	\$10,856,186			\$15,815,149	Remain. This project will reconstruct the Horseshoe Bend Levee at the Bates 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 water (0.25% annual crest) flood. This segment of the levee has the highest factor of safety rating of the Horseshoe Bend levee.
122	WV.FL6.HSB.MCCDY.REALIGNMENT KENT	Green	Agreement	\$4,138	\$400,000	\$395,862	\$116,138		\$116,138	\$233,980	\$764,908	\$0	\$0	\$0	\$3,215,027			\$3,616,027	Remain. This project will reconstruct the Horseshoe Bend Levee at the Bates 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 water (0.25% annual crest) flood. This segment of the levee has the highest factor of safety rating of the Horseshoe Bend levee.
123	WV.FL6.HSB.NURSING HOME SETBACK	Green	FCD Const	\$0	\$0	\$0	\$0		\$0	\$100,000	\$2,000,000	\$500,000	\$0	\$0	\$2,600,000			\$2,600,000	Remain. This project will reconstruct the Horseshoe Bend Levee at the Bates 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 water (0.25% annual crest) flood. This segment of the levee has the highest factor of safety rating of the Horseshoe Bend levee.
124	WV.FL6.INTERIM SWIF IMPLEMENTATION	Green	FCD Const	\$66,887	\$85,000	\$19,113	\$0		\$0	\$0	\$0	\$0	\$0	\$0	\$85,000			\$85,000	Remain. New project to implement interim SWIF adopted by Board of Supervisors. The Nursing Home levee is over-strengthened and does not meet current engineering standards. The economic consequence of levee failure or overtopping to the Green River project area is estimated to be approximately \$10 million. This project will reconstruct the levee at RM 25.5 (over steepened slopes from 1:25 to 1:7H:1V for 225 feet). The Horseshoe Bend Levee is currently in poor condition and requires major maintenance. The project will reconstruct the levee at RM 25.5 (over steepened slopes from 1:25 to 1:7H:1V for 225 feet). This is barely above the minimum FOS (1:0) from the US Army Corps of Engineers manual.
125	WV.FL6.LONES.LEVEE SETBACK	Green	Agreement	\$0	\$0	\$0	\$500,000		\$1,650,000	\$0	\$0	\$0	\$0	\$0	\$1,650,000			\$1,650,000	Remain. This project will reconstruct the levee at RM 25.5 (over steepened slopes from 1:25 to 1:7H:1V for 225 feet). The Horseshoe Bend Levee is currently in poor condition and requires major maintenance. The project will reconstruct the levee at RM 25.5 (over steepened slopes from 1:25 to 1:7H:1V for 225 feet). This is barely above the minimum FOS (1:0) from the US Army Corps of Engineers manual.
125	WV.FL6.LOWER RUSSELL ACO KENT	Green	Agreement	\$1,059,834	\$1,023,656	\$316,170	\$0		\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$1,023,656	Remain. This project will reconstruct the levee at RM 25.5 (over steepened slopes from 1:25 to 1:7H:1V for 225 feet). The Horseshoe Bend Levee is currently in poor condition and requires major maintenance. The project will reconstruct the levee at RM 25.5 (over steepened slopes from 1:25 to 1:7H:1V for 225 feet). This is barely above the minimum FOS (1:0) from the US Army Corps of Engineers manual.
126	WV.FL6.LWR GRN R CORRIDOR PLANES	Green	FCD Const	\$293,117	\$1,743,249	\$1,510,132	\$0		\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$1,023,656	Remain. This project will reconstruct the levee at RM 25.5 (over steepened slopes from 1:25 to 1:7H:1V for 225 feet). The Horseshoe Bend Levee is currently in poor condition and requires major maintenance. The project will reconstruct the levee at RM 25.5 (over steepened slopes from 1:25 to 1:7H:1V for 225 feet). This is barely above the minimum FOS (1:0) from the US Army Corps of Engineers manual.
127	WV.FL6.LWR RUSSELL LEVEE SETBACK	Green	FCD Const	\$12,147,579	\$17,462,524	\$5,314,955	\$26,447,505		\$26,447,505	\$4,116,794	\$6,556,982	\$12,710	\$0	\$0	\$36,836,581			\$54,308,529	Remain. This project will reconstruct the levee at RM 25.5 (over steepened slopes from 1:25 to 1:7H:1V for 225 feet). The Horseshoe Bend Levee is currently in poor condition and requires major maintenance. The project will reconstruct the levee at RM 25.5 (over steepened slopes from 1:25 to 1:7H:1V for 225 feet). This is barely above the minimum FOS (1:0) from the US Army Corps of Engineers manual.
128	WV.FL6.MILWAUKEE.LEVEE #2-KENT	Green	Agreement	\$296,589	\$19,400,000	\$19,105,411	\$0		\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$19,400,000	Remain. This project will reconstruct the levee at RM 25.5 (over steepened slopes from 1:25 to 1:7H:1V for 225 feet). The Horseshoe Bend Levee is currently in poor condition and requires major maintenance. The project will reconstruct the levee at RM 25.5 (over steepened slopes from 1:25 to 1:7H:1V for 225 feet). This is barely above the minimum FOS (1:0) from the US Army Corps of Engineers manual.
129	WV.FL6.OLD.JEFFS FARM REVETMENT	Green	FCD Const	\$221,299	\$928,802	\$605,504	\$50,525		\$50,525	\$3,040,810	\$81,853	\$0	\$0	\$0	\$3,173,198			\$4,000,000	Remain. This project will reconstruct the levee at RM 25.5 (over steepened slopes from 1:25 to 1:7H:1V for 225 feet). The Horseshoe Bend Levee is currently in poor condition and requires major maintenance. The project will reconstruct the levee at RM 25.5 (over steepened slopes from 1:25 to 1:7H:1V for 225 feet). This is barely above the minimum FOS (1:0) from the US Army Corps of Engineers manual.
130	WV.FL6.GREEN SCOUR REPAIR 2017	Green	Agreement	\$47,524	\$150,000	\$102,476	\$0		\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$150,000	Remain. This project will reconstruct the levee at RM 25.5 (over steepened slopes from 1:25 to 1:7H:1V for 225 feet). The Horseshoe Bend Levee is currently in poor condition and requires major maintenance. The project will reconstruct the levee at RM 25.5 (over steepened slopes from 1:25 to 1:7H:1V for 225 feet). This is barely above the minimum FOS (1:0) from the US Army Corps of Engineers manual.
131	WV.FL6.GREEN R IMPROVEMENT 2024	Green	Agreement	\$0	\$0	\$0	\$0		\$0	\$0	\$0	\$0	\$100,000	\$0	\$100,000			\$100,000	Remain. This project will reconstruct the levee at RM 25.5 (over steepened slopes from 1:25 to 1:7H:1V for 225 feet). The Horseshoe Bend Levee is currently in poor condition and requires major maintenance. The project will reconstruct the levee at RM 25.5 (over steepened slopes from 1:25 to 1:7H:1V for 225 feet). This is barely above the minimum FOS (1:0) from the US Army Corps of Engineers manual.
131	WV.FL6.NEVAUKUM CR FLOOD CONVEYANCE REST	Green	Agreement	\$0	\$0	\$0	\$0		\$0	\$68,000	\$0	\$0	\$0	\$0	\$68,000			\$68,000	Remain. This project will reconstruct the levee at RM 25.5 (over steepened slopes from 1:25 to 1:7H:1V for 225 feet). The Horseshoe Bend Levee is currently in poor condition and requires major maintenance. The project will reconstruct the levee at RM 25.5 (over steepened slopes from 1:25 to 1:7H:1V for 225 feet). This is barely above the minimum FOS (1:0) from the US Army Corps of Engineers manual.

No.	Title	Basin	Type of project	2018 Inception to Date Expenditures	2019 Inception to Date Budget	2019 Available Budget	2020 Adopted	2020 Supplemental	2020 Revised	2021 Forecasted	2022 Forecasted	2023 Forecasted	2024 Forecasted	6%+ CIP Total	CS Year 7-10	CS 10-Year	Project Life Total	Comments
132	WVFLS PORTER LEVEE	Green	FCD Const	\$720,000	\$720,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$720,000	Aurum. 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 will be completed in 2020. The project will be completed in 2020. This neighborhood does not have to drive in the morning to avoid floodwaters.
133	WVFLS RUSSELL RD UPPER KENT	Green	Agreement	\$6,054,711	\$6,082,173	\$27,462	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$6,082,173	Kent. Project 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.
134	WVFLS 108TH ST DRAINAGE IMPVMT	Green	Agreement	\$0	\$0	\$461,000	\$461,000	\$0	\$0	\$0	\$0	\$0	\$0	\$461,000	\$0	\$0	\$461,000	Barnes. Replace an existing damaged and underlined pipe that runs under eleven approximately 30' of additional flood protection.
135	WVFLS 180TH ST BRIDGE FLOODWALL EXT	Green	Agreement	\$65,378	\$65,378	\$65,378	\$65,378	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$65,378	Kent. Project provides increased level of protection to 1.5 miles of Lower Green River. Alternative addressed by the project. The project is needed to prevent a potential roadway failure and Green River road collapse. The project will provide an adjacent King County arterial road and utilities (such as water, natural gas, telecommunications and power) under the road.
136	WVFLS SIGNATURE PT REVETMENT KENT	Green	Agreement	\$89,843	\$300,000	\$210,157	\$1,445,000	\$0	\$1,445,000	\$35,777,500	\$36,777,500	\$0	\$0	\$0	\$0	\$0	\$35,300,000	Upper Green River. Project will construct a 0.15 mile floodwall and slope stabilization project. The project will provide an adjacent King County arterial road and utilities (such as water, natural gas, telecommunications and power) under the road.
137	WVFLS TITUS PIT RVTMNT 2018 REPAIR	Green	Agreement	\$167,738	\$250,000	\$82,262	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$250,000	Upper Green River. Project will construct a 0.15 mile floodwall and slope stabilization project. The project will provide an adjacent King County arterial road and utilities (such as water, natural gas, telecommunications and power) under the road.
138	WVFLS TUK-205 RATOLO FLOODWALL	Green	FCD Const	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,650,000	\$300,000	\$0	\$1,650,000	\$0	\$1,650,000	\$1,650,000	Upper Green River. Project will construct a 0.15 mile floodwall and slope stabilization project. The project will provide an adjacent King County arterial road and utilities (such as water, natural gas, telecommunications and power) under the road.
139	WVFLS TUK-205 GUNTER FLOODWALL	Green	FCD Const	\$0	\$0	\$0	\$2,000,000	\$18,250,000	\$18,250,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$34,500,000	Upper Green River. Project will construct a 0.15 mile floodwall and slope stabilization project. The project will provide an adjacent King County arterial road and utilities (such as water, natural gas, telecommunications and power) under the road.
140	WVFLS TUK-205 USACE GACO-SEGALE	Green	FCD Const	\$762,860	\$15,732,418	\$14,969,458	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$15,732,418	Upper Green River. Project will construct a 0.15 mile floodwall and slope stabilization project. The project will provide an adjacent King County arterial road and utilities (such as water, natural gas, telecommunications and power) under the road.
141	WVFLS SOUTH PARK PUMPSTATION	Seattle	Agreement	\$1,819,777	\$1,787,004	(32,773)	\$4,717,896	\$0	\$4,717,896	\$0	\$0	\$0	\$0	\$4,717,896	\$0	\$0	\$6,555,000	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.
142	WVFLS PUGET WAY CULVERT	Seattle	Agreement	\$0	\$1,800,000	\$1,800,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,800,000	Paget Way SW in Seattle. Replace an aging and underlined creek culvert under the street.
143	WVFLS PARK DRAINAGE IMPROVEMENTS	Seattle	Agreement	\$412,895	\$1,000,000	\$587,005	\$9,075,000	\$0	\$9,075,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$17,105,000	Seattle. The South Park Drainage Conveyance Improvement 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.
144	WVFLS TUK-205 USACE GACO-SEGALE	Green	FCD Const	\$500,000	\$500,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$500,000	Tukwila. Erosion and slumping of Tukwila Trail treatment caused by the recent Green River flood resulted in approximately 200 feet of damage to the treatment.
145	WVFLS TUK-205 USACE GACO-SEGALE	Green	FCD Const	\$31,726,697	\$115,041,998	\$83,315,301	\$53,730,310	\$1,415,000	\$54,885,310	\$35,855,853	\$78,241,482	\$10,826,890	\$3,995,237	\$5,092,872	\$0	\$0	\$357,547,892	Tukwila. Improve the drainage system to alleviate neighborhood flooding. May include additional funding to complete demolition and asbestos abatement at a well.
146	WVFLS 217TH AVE SE SR 164 FLD IMPVMT	Green	Agreement	\$0	\$0	\$0	\$29,200	\$0	\$29,200	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$29,200	Enumclaw. Improve the drainage system to alleviate neighborhood flooding. May include additional funding to complete demolition and asbestos abatement at a well.
147	WVFLS 217TH AVE SE SR 164 FLD IMPVMT	White	Agreement	\$0	\$0	\$0	\$29,200	\$0	\$29,200	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$29,200	Enumclaw. Improve the drainage system to alleviate neighborhood flooding. May include additional funding to complete demolition and asbestos abatement at a well.
148	WVFLS ANDERSON PARK ACQUISITION	White	FCD Acq/Elev	\$0	\$100,000	\$100,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$100,000	Enumclaw. Park is still by White River. Relocate, redevelopable and inaccessible southern portion of park in Pierce County from the City of Enumclaw.
149	WVFLS BUTTE AVE FLOOD MITIGATION	White	Agreement	\$184,089	\$470,000	\$285,911	\$0	\$0	\$0	\$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 residences and businesses in the Cities of Pacific and Algona. The project will also reduce long term road closures that have occurred in the past due to flooding.
150	WVFLS BUTTE AVE FLOOD MITIGATION	White	FCD Const	\$29,828,084	\$24,064,419	\$7,763,665	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$24,064,419	Tukwila. Require flood elevations that impact residential neighborhoods in the City of Pacific (200 homes, with \$52 million of assessed and \$13 million content). The 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 residences and businesses in the Cities of Pacific and Algona. The project will also reduce long term road closures that have occurred in the past due to flooding.
151	WVFLS RIGHT BANK LEVEE SETBACK	White	FCD Const	\$12,234,692	\$13,843,157	\$1,608,465	\$295,835	\$7,172,705	\$6,508,038	\$136,895	\$0	\$0	\$0	\$17,087,459	\$0	\$0	\$30,950,936	Tukwila. \$10.5 million budget reallocation. Funding was submitted 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 well.
152	WVFLS SLEPPY CREEK ACQ	White	FCD Acq/Elev	\$10,377	\$180,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$180,000	Seattle. Make and maximize the best use of the project. The project will design and permit a stormwater pump station which will significantly reduce flood risks to residences and businesses in the Cities of Pacific and Algona. The project will also reduce long term road closures that have occurred in the past due to flooding.
153	WVFLS CHARLIE JONES US CULVERT	White	Agreement	\$84,413	\$180,000	\$105,587	\$400,000	\$100,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$580,000	Aurum. This project will analyze culvert replacement and road-raising options and implement the preferred option.
154	WVFLS CHARLIE JONES DS CULVERT	White	Agreement	\$0	\$0	\$0	\$150,000	\$1,500,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,650,000	Aurum. This project will analyze culvert replacement and road-raising options and implement the preferred option.
155	WVFLS STUCK R DR 2019 REPAIR	White	FCD Const	\$0	\$200,000	\$200,000	\$446,374	\$0	\$446,374	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$646,374	Upper Green River. Project will construct a 0.15 mile floodwall and slope stabilization project. The project will provide an adjacent King County arterial road and utilities (such as water, natural gas, telecommunications and power) under the road.
156	WVFLS STUCK R DR 2019 REPAIR	White	FCD Const	\$38,957,655	\$39,897,976	\$940,321	\$1,171,209	\$0	\$1,171,209	\$7,283,068	\$6,672,705	\$0,506,038	\$136,895	\$191,000	\$0	\$0	\$58,999,889	Upper Green River. Project will construct a 0.15 mile floodwall and slope stabilization project. The project will provide an adjacent King County arterial road and utilities (such as water, natural gas, telecommunications and power) under the road.

No.	Title	Basin	Type of Project	2018 Inception to Date Expenditure	2019 Inception to Date Budget	2019 Available Budget	2020 Adopted	2020 Supplemental	2020 Revised	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	
157	WV FLOOD REDUCTION GRANTS	Countywide	Grant	\$5,890,154	\$17,852,257	\$6,659,103	\$5,890,201		\$5,890,201	\$3,000,000	\$3,000,700	\$3,163,571	\$3,248,671	\$3,336,050	\$21,709,203			\$29,561,460	Competitive grant program for flood reduction projects. Increases as a proportion of total flood hazard area by restoring shorelines and retooling or	
158	WV FLOOD REDUCTION GRANTS	Countywide	Grant	\$0	\$0	\$0	\$0		\$3,000,000	\$3,000,700	\$3,163,571	\$3,248,671	\$3,336,050	\$15,629,002				\$15,629,002	Focuses on riparian coastal flood hazard areas to increase resiliency to sea level rise in coastal flood hazard areas by restoring shorelines and retooling or	
159	WV FLOOD REDUCTION GRANTS	Countywide	Grant	\$0	\$0	\$0	\$0		\$3,000,000	\$3,000,700	\$3,163,571	\$3,248,671	\$3,336,050	\$15,629,002				\$15,629,002	Focuses on riparian coastal flood hazard areas to increase resiliency to sea level rise in coastal flood hazard areas by restoring shorelines and retooling or	
160	WV FLOOD REDUCTION GRANTS	Countywide	Grant	\$0	\$0	\$0	\$0		\$3,000,000	\$3,000,700	\$3,163,571	\$3,248,671	\$3,336,050	\$15,629,002				\$15,629,002	Focuses on riparian coastal flood hazard areas to increase resiliency to sea level rise in coastal flood hazard areas by restoring shorelines and retooling or	
161	WV FLOOD REDUCTION GRANTS	Countywide	Grant	\$20,647,848	\$32,303,948	\$11,656,100	\$4,810,172	\$4,810,172	\$9,620,344	\$9,679,132	\$10,144,880	\$10,417,777	\$10,688,016	\$10,965,792	\$61,745,541			\$84,049,889	Focuses on riparian coastal flood hazard areas to increase resiliency to sea level rise in coastal flood hazard areas by restoring shorelines and retooling or	
162	WV FLOOD REDUCTION GRANTS	Countywide	Grant	\$2,395,821	\$2,929,221	\$549,400	\$300,232		\$300,232	\$890,956	\$834,056	\$892,524	\$864,751	\$885,512	\$4,338,030			\$7,267,251	Focuses on riparian coastal flood hazard areas to increase resiliency to sea level rise in coastal flood hazard areas by restoring shorelines and retooling or	
163	WV FLOOD REDUCTION GRANTS	Countywide	Grant	\$34,918,901	\$56,311,183	\$20,394,202	\$6,081,017		\$6,081,017	\$6,255,438	\$6,414,885	\$6,568,517	\$6,720,884	\$6,869,230	\$38,919,161			\$64,230,344	Focuses on riparian coastal flood hazard areas to increase resiliency to sea level rise in coastal flood hazard areas by restoring shorelines and retooling or	
164	WV FLOOD REDUCTION GRANTS	Countywide	Grant	\$748,397	\$1,050,317	\$353,875	\$100,000		\$100,000	\$142,992	\$148,870	\$151,276	\$155,615	\$160,489	\$857,042			\$1,669,535	Focuses on riparian coastal flood hazard areas to increase resiliency to sea level rise in coastal flood hazard areas by restoring shorelines and retooling or	
165	WV FLOOD REDUCTION GRANTS	Countywide	Grant	\$413,042	\$1,050,317	\$353,875	\$100,000		\$100,000	\$142,992	\$148,870	\$151,276	\$155,615	\$160,489	\$857,042			\$1,669,535	Focuses on riparian coastal flood hazard areas to increase resiliency to sea level rise in coastal flood hazard areas by restoring shorelines and retooling or	
166	WV FLOOD REDUCTION GRANTS	Countywide	Grant	\$26,113,024	\$71,026,901	\$24,847,696	\$7,211,642	\$4,810,172	\$12,021,814	\$12,021,814	\$12,021,814	\$12,021,814	\$12,021,814	\$12,021,814	\$12,021,814	\$70,820,837			\$127,260,000	Focuses on riparian coastal flood hazard areas to increase resiliency to sea level rise in coastal flood hazard areas by restoring shorelines and retooling or
167	WV FLOOD REDUCTION GRANTS	Countywide	Grant	\$248,709,700	\$440,273,031	\$151,997,700	\$7,004,393	\$7,004,393	\$14,008,786	\$14,008,786	\$14,008,786	\$14,008,786	\$14,008,786	\$14,008,786	\$14,008,786	\$868,220,811			\$1,248,043,842	Focuses on riparian coastal flood hazard areas to increase resiliency to sea level rise in coastal flood hazard areas by restoring shorelines and retooling or
168	WV FLOOD REDUCTION GRANTS	Countywide	Grant	\$0	\$0	\$0	\$0		\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$0	Focuses on riparian coastal flood hazard areas to increase resiliency to sea level rise in coastal flood hazard areas by restoring shorelines and retooling or	
169	WV FLOOD REDUCTION GRANTS	Countywide	Grant	\$0	\$0	\$0	\$0		\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$0	Focuses on riparian coastal flood hazard areas to increase resiliency to sea level rise in coastal flood hazard areas by restoring shorelines and retooling or	
170	WV FLOOD REDUCTION GRANTS	Countywide	Grant	\$0	\$0	\$0	\$0		\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$0	Focuses on riparian coastal flood hazard areas to increase resiliency to sea level rise in coastal flood hazard areas by restoring shorelines and retooling or	
171	WV FLOOD REDUCTION GRANTS	Countywide	Grant	\$0	\$0	\$0	\$0		\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$0	Focuses on riparian coastal flood hazard areas to increase resiliency to sea level rise in coastal flood hazard areas by restoring shorelines and retooling or	
172	WV FLOOD REDUCTION GRANTS	Countywide	Grant	\$0	\$0	\$0	\$0		\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$0	Focuses on riparian coastal flood hazard areas to increase resiliency to sea level rise in coastal flood hazard areas by restoring shorelines and retooling or	
173	Grand Total			\$248,709,700	\$440,273,031	\$151,997,700	\$7,004,393	\$7,004,393	\$14,008,786	\$14,008,786	\$14,008,786	\$14,008,786	\$14,008,786	\$14,008,786	\$868,220,811			\$1,248,043,842		