RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

DESIGN & CONSTRUCTION BUDGET AND FIVE YEAR CIP PROJECT SUMMARY - ZONE 1

FISCAL YEARS 2017-18 THROUGH 2021-22

Project Number	Stg No.	Project Title	Total Remaining Cost to Deliver Project	Budget Year 1 - FY 2017-18				CIP Years 2 through 5 - FY 2018-22				Total Post-CIP Balance	Total Unfunded Project Cost
				Project Appropriation	Project Specific Funding			Estimated Project Appropriation	Project Specific Funding				
					Tax Revenue	ADP Contrb	External Contrb		Tax Revenue	ADP Contrb	External Contrb		
1-8-00010	90	SANTA ANA RIVER STABILIZATION	$10,685,000	$99,452	$99,452	$0	$0	$10,585,548	$10,585,548	$0	$0	$0	$0
1-8-00042	90	SYCAMORE DAM OUTLET MODIFICATION	1,854,991	100,000	100,000	0	0	1,754,991	1,754,991	0	0	0	0
1-8-00045	90	WOODCREST DAM OUTLET MODIFICATION	2,216,529	690,223	690,223	0	0	1,526,306	1,526,306	0	0	0	0
1-8-00071	04	MONROE MDP - MONROE CHANNEL	3,077,804	3,077,804	3,077,804	0	0	0	0	0	0	0	0
1-8-00073	03	MONROE MDP LINE E STG 2 & 3	12,454,683	98,455	98,455	0	0	12,356,228	12,356,228	0	0	0	0
1-8-00234	01	JURUPA PYRITE MDP LATERAL A-2	338,332	338,332	338,332	0	0	0	0	0	0	0	0
1-8-00041	90	BOX SPRINGS DAM OUTLET MODIFICATION	981,842					981,842	981,842	0	0	0	0
1-8-00043	90	ALESSANDRO DAM OUTLET MODIFICATION	907,682					907,682	907,682	0	0	0	0
1-8-00044	90	PRENDA DAM OUTLET MODIFICATION	1,238,312					1,238,312	1,238,312	0	0	0	0
1-8-00046	90	HARRISON DAM OUTLET MODIFICATION	1,017,892					1,017,892	1,017,892	0	0	0	0
1-8-00071	05	MONROE MDP - MONROE CHANNEL	5,609,165					5,609,165	5,609,165	0	0	0	0
1-8-00180	90	MARY STREET DAM OUTLET MODIFICATION	1,209,202					1,209,202	1,209,202	0	0	0	0
1-8-00289	01	RUBIDOUX-DALY AVE SD	2,655,795					2,655,795	2,655,795	0	0	0	0
1-8-09020	01	UNIVERSITY MDP LINE 3	2,926,028					2,926,028	2,926,028	0	0	0	0
1-8-09033	01	JURUPA PYRITE MDP LINE A-1, STG 1	1,479,251					1,479,251	1,479,251	0	0	0	0
1-8-09035	01	PARAMOUNT ESTATES MDP LINES C & C-1	654,217					654,217	654,217	0	0	0	0
		ZONE 1 TOTALS	**$49,306,725**	**$4,404,267**	**$4,404,267**	**$0**	**$0**	**$44,902,458**	**$44,902,458**	**$0**	**$0**	**$0**	**$0**

FIVE YEAR CIP SUMMARY

FUND BALANCE FORWARD - JULY 1, 2017:

Zone 1 Fund	$24,443,740
ADP Sub Fund	612,960
Total Fund Balance Forward	**$25,056,701**

REVENUE:

Taxes	$53,018,000
Interest	837,000
ADP Fees	5,000
Rental	735,000
Subtotal Revenue	**54,595,000**
External Contribution	0
Total Five Year Revenue	**$54,595,000**
Total Funds Available	**$79,651,701**

APPROPRIATIONS:

D&C Capital Projects Expense	$50,263,548
Capital Project Cost Inflation @ 2.8%	1,407,379
Uncategorized//Other Contributions	1,150,000
Operating Expenses	24,329,000
Contingencies	1,100,000
Subtotal Appropriations	**$78,249,927**

ENDING FUND BALANCE - JUNE 30, 2022:

Zone 1 Fund	$763,335
ADP Sub Fund	638,436
Total Ending Fund Balance	**$1,401,771**

RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

OPERATIONS & MAINTENACE BUDGET AND FIVE YEAR CIP PROJECT SUMMARY - ZONE 1

FISCAL YEARS 2017-18 THROUGH 2021-22

Project Number	Stg No.	Project Title	Budget Year 1 - FY 2017-18			CIP Years 2 through 5 - FY 2018-22		
			Project Approriation	Project Specific Funding		Estimated Project Approriation	Project Specific Funding	
				Tax Revenue	External Contrib		Tax Revenue	External Contrib
O&M MAINTENANCE (NON-CAPITAL PROJ) BUDGET - FY 2017-18:								
1-6-00000	00	ZONE 1 MAINTENANCE	$3,025,950	$3,025,950	$0	$12,103,800	$12,103,800	$0
UNCATEGORIZED /OTHER CONTRIBUTIONS:								
1-6-10000	00	FLOOD CONTROL BASIN RETROFIT STUDY	50,000	50,000				
1-6-10020	00	HYDROGEOTECHNICAL ANALYSIS	100,000	100,000				
1-6-10021	00	MISCELLANEOUS WATERSHED PRTCTN PROJS				1,000,000	1,000,000	
		MAINT (NON-CAPITAL PROJ) BUDGET SUBTOTALS	$3,025,950	$3,025,950	$0	$12,103,800	$12,103,800	$0
		UNCATEGORIZED /OTHER CONTRIBUTIONS	150,000	150,000	0	1,000,000	1,000,000	0
		ZONE 1 TOTALS	**$3,175,950**	**$3,175,950**	**$0**	**$13,103,800**	**$13,103,800**	**$0**

PROJECT NOTES FY 2017-2018

DESIGN & CONSTRUCTION/CIP PROJECTS

PROJ. NO.	STG.	DESCRIPTION
1-8-00010	90	SANTA ANA RIVER STABILIZATION – Project will ensure that existing levees continue to provide protection to the City of Riverside. The U.S. Army Corps of Engineers (USACE) is expected to initiate restoration of the federally constructed reach of the Santa Ana River Levee system downstream of San Bernardino County line to Tequesquite. Exact form of project not set. Work will likely include repair of groins and toe protection and be funded by USACE. In conjunction with USACE's proposed rehabilitation of the federally constructed Santa Ana River Levee system, the non-federal segment, which begins at the county line and extends 6,165 feet north into San Bernardino County, may also require major reconstruction. This facility was originally constructed in 1938 by the County of Riverside, prior to the formation of the District. Work will include installation of approximately 6,165 lineal feet of grouted riprap revetment. Cost estimate for the District-funded portion is based on prorating USACE's costs for the federal portion of the project. Lump sum cost estimate includes planning, engineering and design, construction, construction management, and contingencies.
1-8-00041*	90	BOX SPRINGS DAM - OUTLET MODIFICATION – The District is the lead for this project. The goal for this project is to improve safety and operation of this 50+ year old dam by reconstructing the outlet structure to prevent sediment accumulation from blocking the outflow of the dam. The project will also explore several other improvements to the facility similar to those proposed for the Woodcrest Dam Outlet Modification project. This project is fully funded by the District.
1-8-00042	90	SYCAMORE DAM - OUTLET STRUCTURE MODIFICATIONS – The District is the lead for this project. The goal for this project is to construct several improvements to the facility to improve the safety and operation of the dam. The proposed improvements include the repair/reinforcement of the existing outlet channel, construction of a new debris rack structure, erosion controls on the embankment of the dam, construction of a safer access road into the facility, design for a safer routing of flood waters from the emergency spillway to Central Avenue, and the installation of a control section to measure outflow from the outlet pipe of the dam. Completion of this project is planned to follow the Woodcrest Dam Outlet Modification project. This project is fully funded by the District.
1-8-00043*	90	ALESSANDRO DAM OUTLET MODIFICATION – The District is the lead for this project. The goal for this project is to improve safety and operation of this 50+ year old dam by reconstructing the outlet

PROJECT NOTES FY 2017-2018

DESIGN & CONSTRUCTION/CIP PROJECTS

PROJ. NO.	STG.	DESCRIPTION
		structure to prevent sediment accumulation from blocking the outflow of the dam. The project will also explore several other improvements to the facility similar to those proposed for the Woodcrest Dam Outlet Modification project. This project is fully funded by the District.
1-8-00044*	90	PRENDA DAM OUTLET MODIFICATION – The District is the lead for this project. The goal for this project is to improve safety and operation of this 50+ year old dam by reconstructing the outlet structure to prevent sediment accumulation from blocking the outflow of the dam. The project will also explore several other improvements to the facility similar to those proposed for the Woodcrest Dam Outlet Modification project. This project is fully funded by the District.
1-8-00045	90	WOODCREST DAM OUTLET MODIFICATION – The District is the lead for this project. The goal for this project is to construct several improvements to the facility to improve the safety and operation of the dam. The proposed improvements include a new grated inlet structure to reduce potential for clogging of the outlet works, rehabilitation of the existing outlet gate assembly and control stem, implementation of an automated gate control system, rehabilitation of the outlet pipe, restoration of the outlet channel, erosion controls on the embankment slope, and extending the existing cutoff wall at the spillway. Once completed, this project will serve as an example for performing similar upgrades to the remaining Riverside Reservoir Dams. This project is fully funded by the District.
1-8-00046*	90	HARRISON DAM OUTLET MODIFICATION – The District is the lead for this project. The goal for this project is to improve safety and operation of this 50+ year old dam by reconstructing the outlet structure to prevent sediment accumulation from blocking the outflow of the dam. The project will also explore several other improvements to the facility similar to those proposed for the Woodcrest Dam Outlet Modification project. This project is fully funded by the District.
1-8-00071	04	MONROE MDP - MONROE CHANNEL – Cooperative project with the City of Riverside to replace end of life, City maintained, existing open channel with District maintained underground reinforced concrete box. District designed the project to contain 10-year storm capacity to reduce flooding along Monroe Street between California Avenue and Magnolia Avenue, and to accommodate future City funded enhancements to convert a portion of the channel alignment to a functional recreational paseo.

PROJECT NOTES FY 2017-2018

DESIGN & CONSTRUCTION/CIP PROJECTS

PROJ. NO.	STG.	DESCRIPTION
1-8-00071*	05	MONROE MDP - MONROE CHANNEL – District led project to upgrade and provide additional capacity to a portion of the City of Riverside's existing open channel from California Avenue to Colorado Avenue. The new rectangular channel will be a 10-year facility, thereby, providing a higher level flood protection to the area. The project is fully funded by the District.
1-8-00073	03	MONROE MDP LINE E – Stages 2 and 3 have been combined into one City design-build project funded by the District. This project will reduce flooding along Gratton Street, Hermosa Drive, as well as Dufferin Avenue within the extents defined below for each stage. The proposed system will be an underground storm drain that will collect stormwater along Hermosa Road and Gratton Street and convey it in an underground storm drain heading northwest along Gratton Street where it will discharge into existing underground Monroe MDP Line E storm drain at Lincoln Avenue. It includes Line E-2 along Hermosa Drive east of Gratton Street and Line E-5 along Dufferin Avenue east of Gratton Street.
1-8-00180*	90	MARY STREET DAM OUTLET MODIFICATION – The District is the lead for this project. The goal for this project is to improve safety and operation of this 50+ year old dam by reconstructing the outlet structure to prevent sediment accumulation from blocking the outflow of the dam. The project will also explore several other improvements to the facility similar to those proposed for the Woodcrest Dam Outlet Modification project. This project is fully funded by the District.
1-8-00234	01	JURUPA-PYRITE MDP LINE A-2 – The District is the lead for this project that will provide interim drainage improvements at the end of Bellmore Street in Jurupa Valley. The improvements would collect flows at the end of Bellmore Street and convey them westerly under Agate Street to an existing outlet within street right of way. The project is being funded by the District.
1-8-00289*	01	RUBIDOUX-DALY AVE SD – District led project to reduce flooding in the Rubidoux Village area north of Mission Boulevard. The underground storm drain in Daly Avenue proposes to collect 100-year runoff at 34th Street and convey to the existing storm drain in Mission Boulevard. The storm drain system ranges in pipe diameter from 18 to 60 inches. The project is fully funded by the District.
1-8-09020*	01	UNIVERSITY MDP LINE 3 – District led project to provide 100-year flood protection and remove the existing FEMA mapped Zone A

PROJECT NOTES FY 2017-2018

DESIGN & CONSTRUCTION/CIP PROJECTS

PROJ. NO.	STG.	DESCRIPTION
		floodplain along Blaine Street. When completed, the project would remove the flood insurance requirement for 26 homes on the south side of Blaine Street. The proposed system includes a detention basin at the upstream end to reduce capture and reduce runoff and approximately 2,900 feet of 30-inch underground storm drain pipe in Blaine Street. The project is fully funded by the District.
1-8-09033*	01	JURUPA PYRITE MDP LINE A-1 – District led project to reduce flooding along Kim Lane and Agate Street. The underground storm drain ranging in pipe diameter from 36 to 54 inches proposes to collect 100-year storm runoff from Agate Street and convey it to the natural wash west of Pedley Road. The project is fully funded by the District.
1-8-09035*	01	PARAMOUNT ESTATES MDP LINES C AND C-1 – District led project to provide flood protection to the neighborhood west of Opal Street. The underground storm drain proposes to collect 100-year storm runoff from the existing culverts under the railroad and convey it to the District's existing Sunnyslope Channel on the north side of State Highway 60. The project is fully funded by the District.

* Projects with an asterisk following the Project Number are not included in the FY 2017-2018 budget (CIP Year One), but are included in Years Two through Five of the CIP.

PROJECT NOTES FY 2017-2018

OPERATIONS & MAINTENANCE (NON-CAPITAL PROJECTS)

PROJ. NO.	STG.	DESCRIPTION
1-6-00000	00	GENERAL ZONE 1 MAINTENANCE – Annual maintenance of all Zone 1 projects, except major restoration or reconstruction.

PROJECT NOTES FY 2017-2018

UNCATEGORIZED/OTHER CONTRIBUTIONS

PROJ. NO.	STG.	DESCRIPTION
1-6-10000	00	FLOOD CONTROL BASIN RETROFIT STUDY – The District is evaluating existing infrastructure to determine feasibility of stormwater/urban runoff capture. The result of this study could help determine partnerships with Water Districts within Riverside County and help utilize stormwater and urban runoff as resource.
1-6-10020	00	HYDROGEOTECHNICAL ANALYSIS – Resources allocated to hire geotechnical engineers to test existing District facilities for groundwater recharge potential.
1-6-10021	00	MISCELLANEOUS WATERSHED PROTECTION PROJECTS – Resources allocated to the identification and development of potential partnerships for future multi-benefit projects addressing flood hazard reduction, water conservation, water quality and/or other water resource needs.