

RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT
DESIGN & CONSTRUCTION AND FIVE YEAR CIP PROJECT SUMMARY - ZONE 4
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 Cost	Project Specific Funding					
					Tax Revenue	ADP Contrb		External Contrib	Tax Revenue	ADP Contrb			External Contrib
4-8-00011	03	HEACOCK CH-SUNNYMEAD LINE B	18,721,998	\$18,721,998	\$17,721,998	\$1,000,000	\$0	\$0	\$0	\$0	\$0	-	
4-8-00020	03	SAN JACINTO RIVER	70,000,000	800,000	789,807	10,193	0	0	0	0	0	(69,200,000)	
4-8-00020	04	SAN JACINTO RIVER	53,054,988	474,177	474,177	0	0	11,893,339	11,893,339	0	0	(40,687,472)	
4-8-00030	50	BAUTISTA CRK CH (RCHR G BASIN EXPANSIO	1,628,172	1,628,172	1,118,172	0	510,000	0	0	0	0	-	
4-8-00251	01	SAN JACINTO MDP LINE E-2 & E-2A	5,211,983	1,570,000	1,570,000	0	0	0	0	0	0	(3,641,983)	
4-8-00330	00	GREEN ACRES DAM & OUTLET	12,289,231	208,617	208,617	0	0	1,045,076	1,045,076	0	0	-	
4-8-00331	01	LAKEVIEW NUEVO MDP LATERAL D	6,583,687	117,924	112,978	4,946	0	6,465,763	6,465,763	0	0	-	
4-8-00345	01	HOMELAND MDP LINE 1 STAGE 1	41,667	41,667	41,211	456	0	0	0	0	0	-	
4-8-00400	01	MORENO MDP LINE F-2 & F-18	3,950,000	2,200,000	2,200,000	0	0	0	0	0	0	(1,750,000)	
4-8-00431	01	ROMOLAND MDP, LINE A-3 STAGE 1	11,985,719	239,116	239,116	0	0	11,746,603	11,746,603	0	0	-	
4-8-00614	02	SUNNYMEAD MDP LINE B-16A	1,819,967	251,150	95,106	156,044	0	1,568,817	1,568,817	0	0	-	
4-8-00731	03	SUNNYMEAD MDP LINE H-1A (Hubbard Street S	1,501,122	1,501,122	1,501,122	0	0	0	0	0	0	-	
4-8-00745	01	MORENO-ALESSANDRO INTRM FACILITY (DS	317,955	206,955	206,955	0	0	0	0	0	0	(111,000)	
4-8-00746	01	MORENO COTTONWOOD INTERIM BASIN	105,819	105,819	105,819	0	0	0	0	0	0	-	
4-8-00766	03	MORENO MDP LINE K-1 STG 3	2,581,500	500,000	\$277,717	222,283	0	581,500	581,500	0	0	(1,500,000)	
4-8-00993	99	SUNNYMEAD LINE M-11 EXTENSION (FLAMIN	326,545	61,928	\$61,928	0	0	264,617	264,617	0	0	-	
4-8-00010	02	PERRIS VALLEY CHANNEL	483,000					483,000	0	483,000	0	-	
4-8-00265	02	LITTLE LAKE MDP LINE B STG 2	6,804,257					3,544,733	3,544,593	140	0	-	
4-8-00410	01	MEAD VALLEY MDP LINE A	7,100,000					1,000,000	1,000,000	0	0	(6,100,000)	
4-8-00766	01	MORENO MDP LINE K-1 STG 1/2	2,500,000					625,000	625,000	0	0	(1,875,000)	
4-8-09061	00	PERRIS VALLEY MDP LINE E	8,395,598					2,950,000	0	2,950,000	0	(5,445,598)	
4-8-09077	00	GOOD HOPE DRAINAGE IMPROVEMENTS	6,500,000					1,500,000	1,500,000	0	0	(5,000,000)	
ZONE 4 TOTALS			\$221,903,208	\$28,628,645	\$26,724,723	\$1,393,922	\$510,000	\$43,668,448	\$40,235,308	\$3,433,140	\$0	14,295,062	(135,311,053)

FIVE YEAR CIP SUMMARY

FUND BALANCE FORWARD - JULY 1, 2017:

Zone 4 Fund	\$41,517,305
ADP Sub Fund	3,920,018
Total Fund Balance Forward	\$45,437,323

REVENUE:

Taxes	\$89,557,000
Interest	1,517,000
ADP Fees	100,000
Rental	8,000
Subtotal Revenue	91,182,000
External Contribution	510,000
Total Five Year Revenue	\$91,692,000
TOTAL FUNDS AVAILABLE	\$137,129,323

APPROPRIATIONS:

D&C Capital Projects Expense	\$74,780,701
Capital Project Cost Inflation @ 2.8%	2,093,860
Uncategorized//Other Contributions	100,000
Operating Expenses	38,066,167
Contingencies	2,800,000
Debt Service Payment - Promissory Note	14,433,500
Subtotal Appropriations	\$132,274,228

ENDING FUND BALANCE - JUNE 30, 2022:

Zone 4 Fund	4,531,263
ADP Sub Fund	323,831
Total Ending Fund Balance	4,855,095

**RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT
OPERATIONS & MAINTENANCE BUDGET AND FIVE YEAR CIP PROJECT SUMMARY - ZONE 4
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		
			Appropriated Project Cost	Project Specific Funding		Estimated Project Cost	Project Specific Funding	
				Tax Revenue	Outside Revenue		Tax Revenue	Outside Revenue
O&M MAINTENANCE (NON-CAPITAL PROJ) BUDGET - FY 2017-18:								
4-6-00000	00	ZONE 4 MAINTENANCE	\$4,451,726	\$4,451,726	\$0	\$17,806,904	\$17,806,904	\$0
UNCATEGORIZED /OTHER CONTRIBUTIONS:								
4-6-10020	00	HYDROGEO TECHNICAL ANALYSIS	100,000	100,000	0	0	0	0
MAINT (NON-CAPITAL PROJ) BUDGET SUBTOTALS			\$4,451,726	\$4,451,726	\$0	\$17,806,904	\$17,806,904	\$0
UNCATEGORIZED /OTHER CONTRIBUTIONS			100,000	100,000	0	0	0	0
ZONE 4 TOTALS			\$4,551,726	\$4,551,726	\$0	\$17,806,904	\$17,806,904	\$0

PROJECT NOTES FY 2017-2018

DESIGN & CONSTRUCTION/CIP PROJECTS

PROJ. NO.	STG.	DESCRIPTION
4-8-00010*	02	<p>PERRIS VALLEY CHANNEL – Open channel proposed in the adopted Perris Valley Channel MDP/ADP to provide flood protection to the city of Perris and also serve as the outlet for existing and proposed storm drains in the cities of Perris and Moreno Valley. The project has been included in the District's 5-year CIP to track Perris Valley ADP funds. Segments of the channel will be constructed when sufficient ADP funds become available.</p>
4-8-00011	03	<p>HEACOCK CHANNEL (aka SUNNYMEAD LINE B) – Stages 3 and 4 project design is led by March Joint Powers Authority (MJPA) in collaboration with the City of Moreno Valley, March Air Reserve Base, and the District. Heacock Channel runs along Heacock Street and extends from Cactus Avenue to Perris Valley Channel Lateral A.</p> <p>The project will remove residential and commercial properties from the floodplain located east of the channel along Heacock Street between Delphinium Avenue and Krameria Avenue and will reduce flooding along Heacock Street. The project will collect water along Heacock Street and convey it in an open channel heading south and discharge into existing Perris Valley Channel Lateral A.</p> <p>PROJECT OUTSIDE FUNDING:</p> <ul style="list-style-type: none"> - \$7.6m from March Air Reserve Base for Stage4 construction - \$1.8m in environmental mitigation costs funded by MJPA, City of Moreno Valley, and March Air Reserve Base
4-8-00020	03	<p>SAN JACINTO RIVER – District led project to develop a conceptual drainage improvement plan along the San Jacinto River from Ramona Expressway to Railroad Canyon. The goal of the plan is to provide flood protection to critical transportation facilities, alleviate drainage concerns in the city of Perris, advance implementation of the Western Riverside MSHCP, and accommodate certain land development activity within the floodplain fringe. Funding in the CIP is designated toward preparation of a master drainage plan and environmental analysis needed to comply with CEQA.</p>
4-8-00020	04	<p>SAN JACINTO RIVER – This project, a joint venture with the City of San Jacinto, was conceived as a multi-year plan to construct the ultimate levee system (approximately 1,200-foot river bottom width) between the existing Corps of Engineers levee 9,500 feet upstream of State Street and a point 8,200 feet downstream of Sanderson Avenue. Project not fully funded in CIP.</p>

PROJECT NOTES FY 2017-2018

DESIGN & CONSTRUCTION/CIP PROJECTS

PROJ. NO.	STG.	DESCRIPTION
4-8-00030	50	<p>BAUTISTA CREEK CHANNEL (RECHARGE BASIN EXPANSION) – This project is a partnership between the District and Lake Hemet Municipal Water District (LHMWD) with both agencies contributing funding. This project will also receive funding from the Proposition 84 state grant administered by the California State Department of Water Resources. The goal of this project is to expand groundwater recharge within the area. There is currently an under-utilized 17.5 acres of open space located adjacent to Bautista Creek Channel; the project will divide the open space land into six (6) sub-basins. During wet weather, storm flows will be able to be diverted into these basins. During dry periods, surplus imported water will be piped into the new basins by LHMWD. Once constructed, LHMWD will be responsible for the ongoing operation and maintenance of the project.</p>
4-8-00251	01	<p>SAN JACINTO MDP LINES E-2 & E-2A – City of San Jacinto design-build project to provide flood protection to properties along State Street. The project consists of an underground storm drain ranging in pipe diameter from 30 to 72 inches that will collect 10-year storm runoff at Menlo Avenue and convey it north to the existing San Jacinto Line E improved channel. The District will contribute \$1.6 million toward design and construction of the project, and the Cities of San Jacinto and Hemet will fund the remaining portion of the cost, currently estimated at \$5.2 million.</p>
4-8-00265*	02	<p>LITTLE LAKE MDP LINE B – District led project to provide flood protection to residences along Meridian Street in the unincorporated Little Lake area. The project consists of an underground storm drain along Meridian Street ranging in pipe diameter from 36 to 84 inches that will collect runoff at Whittier Avenue and convey it to the existing storm drain at Florida Avenue. The project has been partially funded by the District in the 5-year CIP. The remaining portion of the project cost will be funded by the District as additional funding becomes available.</p>
4-8-00330	00	<p>GREEN ACRES DAM AND OUTLET – This project is led by the District. This project is located within the unincorporated portion of the County near the city of Hemet. The project will reduce flooding over areas located south of its location near the intersection of Cortrite Avenue and Los Limones Lane. Feasibility study has been completed and dam project footprint is established. Environmental reports, acquisition of right of way, and soliciting engineering consultants for detailed plans are currently underway. This project is funded by the District.</p>

PROJECT NOTES FY 2017-2018

DESIGN & CONSTRUCTION/CIP PROJECTS

PROJ. NO.	STG.	DESCRIPTION
4-8-00331*	01	LAKEVIEW MDP LATERAL D – The project is being led by the District. The goal of the project is to provide an outlet for Lakeview Dam which could allow the removal of a 100-year FEMA floodplain downstream of the dam. It may additionally allow reduction of portions of an Ordinance 457 floodplain that is currently affecting Water Avenue. The project collects flow from Lakeview Dam, conveys it to an underground pipe west down Water Avenue, and discharges into existing Nuevo Channel at Yucca Avenue and 11 th Street. This project is being funded by the District. Project not fully funded in CIP.
4-8-00345	01	HOMELAND MDP LINE 1 – Project builds over two miles of Line 1 (along Briggs Road and Watson road) from the Briggs Road detention basin to Juniper Flats basin, and Juniper Flats basin.
4-8-00365	01	SUNNYMEAD LINE M-11 EXTENSION (FLAMING ARROW STORM DRAIN) – This project will be a partnership between the District and the City of Moreno Valley. A cooperative agreement will establish the agency responsibilities. The budgeting premise is that the District will fund both design and construction. The goal of this project is to capture runoff that is flooding the properties along St. Christopher Lane. The project is a storm drain which will extend from Bay Street north and west to St. Christopher Lane.
4-8-00400	01	MORENO MDP LINE F-2 & F-18 – In order to reduce street flooding and provide flood protection to adjacent homes, project will replace existing Line F-2 with an underground storm drain capable of conveying 100-year flows. Line F-18 will convey flows in Alessandro Boulevard from Merwin Street to Redlands Boulevard, then in Line F-2 down Redlands Boulevard south to the existing Line F. City of Moreno Valley to administer design and construction of the project using FEMA grant funds and District funding per a cooperative agreement.
4-8-00410	01	MEAD VALLEY MDP LINE A – District led project that proposes the construction of a master planned open channel from Brown Street to Alexander Street to provide flood protection and serve as the outlet for the proposed drainage system in the unincorporated community of Mead Valley. Funding allocated in the District’s 5-year CIP is intended for the voluntary acquisition of properties along the facility alignment.
4-8-00431	01	ROMOLAND MDP, LINE A-3 – This is a District led project that will help complete the backbone of the Romoland storm drainage system that will allow removal or significant reduction of the FEMA floodplains that are currently affecting property owners in the area. The

PROJECT NOTES FY 2017-2018

DESIGN & CONSTRUCTION/CIP PROJECTS

PROJ. NO.	STG.	DESCRIPTION
		project is approximately two miles in length and will collect water along Valera Lane and convey it in an open channel heading west and then it will collect water along Palomar Road in an underground storm drain heading south and discharge into the existing downstream open channel Romoland MDP Line A. The project is 100% funded by the District. The project has an executed cooperative agreement with the City of Menifee. The project also requires major relocations of Eastern Municipal Water District and Southern California Edison facilities. District will fund for those relocations under separate funding agreements.
4-8-00614	02	SUNNYMEAD MDP LINE B-16A – District lead project in the city of Moreno Valley to reduce flooding problems along Kitching Street and the surrounding community. Line B-16A will collect runoff from Kalmia Avenue and convey it south along Kitching Street in an underground storm drain which discharges to an existing storm drain at Ironwood Avenue. Implementation of the project may also reduce erosion and sediment accumulation along Kitching Street. The District will design and construction the project, and the City will take over the maintenance after construction. District is funding the design and construction of the storm drain, and additional coordination with the City regarding right of way acquisition and street improvements are ongoing.
4-8-00731*	03	SUNNYMEAD MDP LINE H-1A – This project will provide 100-year flood protection and prevent flooding along Hubbard Street and adjacent streets (especially Wilson Place and Dunlavy Court). An underground storm drain will intercept flows along Hubbard Street and convey them south to an existing drain at Ironwood Avenue. City of Moreno Valley to administer design and construction using District funding via cooperative agreement.
4-8-00745	01	MORENO-ALESSANDRO INTERIM FACILITY – The District is the lead of the interim facility that aims to minimize sediment accumulation in the parking lot of Discovery Church in Moreno Valley. The budget allows for the District to design the facility and provide construction funding. The City of Moreno Valley will construct, obtain the right of way necessary, and operate and maintain the project.
4-8-00746	01	MORENO COTTONWOOD INTERIM BASIN – City of Moreno Valley led project designed and partially funded by the District. The project will capture sediment from an eroding wash and help prevent the flooding of a downstream neighborhood cul-de-sac on Cedar Court. The project consists of a sediment basin located north of Cottonwood

PROJECT NOTES FY 2017-2018

DESIGN & CONSTRUCTION/CIP PROJECTS

PROJ. NO.	STG.	DESCRIPTION
		Avenue, just west of Martha Crawford Street. Flows will be collected from a wash to the north and discharged into an existing culvert within Cottonwood Avenue. The District has an agreement with the City to provide construction plans and to fund the project (not to exceed \$100,000) while the City is responsible for the right of way, environmental permitting, construction, and maintenance of this facility.
4-8-00766	01	MORENO MDP LINE K-1 – Project will convey 100-year flows in Stage 2 from Juniper Avenue down Pettit Street, then in Stage 1 west in Ironwood Avenue past Moreno Beach Drive to Line K. Project will reduce local flooding by conveying flows toward Nason Basin and provide an adequate outlet for future storm drains upstream. This project is being led by the City of Moreno Valley using funding from FEMA grants and \$625,000 requested from the District.
4-8-00766	03	MORENO MDP LINE K-1 AND LINE K-4 – In order to improve the floodplain and reduce flood risk to adjacent homes, this underground storm drain will convey 100-year flows in Line K-4 in Locust Avenue to Line K-1 south in Carrie Lane, west in Kalmia Avenue, then south in Pettit Street to an outlet just past Juniper Avenue. The City is lead for this project. In a 2014 cost share agreement between the District and the City of Moreno Valley, the District committed to contribute \$500,000 for design and construction. Pursuant to the City request in 2016, additional funds have been budgeted for this project pending an updated cost share agreement. The District anticipates that portions of the project will be accepted for ownership, operation, and maintenance under a separate agreement in the future.
4-8-09061	00	PERRIS VALLEY MDP LINE E – This project is anticipated to be led by the City of Perris and it involves the construction of an open channel on the north side of Ramona Expressway to provide alleviating the flooding at the intersection of Ramona Expressway and Perris Boulevard, and serve as an outlet for existing storm drains that have been constructed in the area. The project will collect runoff in the vicinity of Brennan Avenue and convey it eastward to Perris Valley Channel at Oleander Avenue. The District has partially funded \$3 million toward the \$8.4 million estimated to deliver the project.
4-8-09077	00	GOOD HOPE OLIVE STREET STORM DRAIN – District led project to provide flood protection for the neighborhood south of Olive Street between Quail Drive and Theda Street in the unincorporated Good Hope community. The project consists of an underground storm drain that will collect storm flows along Olive Street and convey them to an

PROJECT NOTES FY 2017-2018

DESIGN & CONSTRUCTION/CIP PROJECTS

PROJ. NO.	STG.	DESCRIPTION
		existing culvert at Highway 74 just east of Theda Street. Funding allocation programmed in the 5-year CIP is designated for further engineering scoping, analysis, and design along with a partial earmark for phased construction.

* 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
4-6-00000	00	GENERAL ZONE 4 MAINTENANCE – Annual maintenance of all Zone 4 projects, except major restoration or reconstruction.

PROJECT NOTES FY 2017-2018

UNCATEGORIZED/OTHER CONTRIBUTIONS

PROJ. NO.	STG.	DESCRIPTION
4-6-10020	00	HYDROGEO TECHNICAL ANALYSIS – Resources allocated to hire geotechnical engineers to test existing District facilities for groundwater recharge potential.