

**Riverside Public Utilities**  
**Open Capital Work Order Summary Report - Electric Fund**  
**March-20**

Project / Subproject or WO	Project Description	Board Approval Date	Board Approved Estimate <sup>(1)</sup>	Project Estimate <sup>(2)</sup>	Year to Date Total as of 3/31/2020	Life to Date Total as of 3/31/2020	Available Balance	Last Activity Date	Job Status (Based on Proj. Est.)		Project Status
									% Spent	% Completed	

Open Work Orders/Projects with Budgeted or Actual expenditures > \$200,000

**OVERHEAD**

Various	GO-165 Pole Replacements - Citywide	08/27/18	2,227,000	2,227,000	-	1,715,575	511,425	Various	77%	0%	In construction.
Various	GO-165 Pole Replacements - Citywide	06/10/19	2,301,305	2,301,305	-	180,186	2,121,120	Various	8%	0%	Pending start date
080022 / 01	Wood Streets Streetlights Phase I <sup>(5)</sup>	10/18/13	1,909,600	1,909,600	-	1,792,642	116,958	06/14/18	94%	95%	Pending Asbuilt plans. Due to Covid19 Minimum staffing order, Asbuilts plans will
1503112	Plaza substation - Circuit 450	01/28/19	2,174,000	2,174,000	188,007	1,168,040	1,005,960	3/5/2020	54%	60%	In construction.
1521822	Plaza Substation - Circuit 456	09/18/15	933,000	933,000	6,356	1,136,291	(203,291)	10/31/19	122%	95%	Completed, pending as-builts.
1523553	Wood Streets Streetlights Phase 2	02/13/17	2,300,000	2,300,000	-	2,122,524	177,476	01/31/19	92%	95%	Completed, pending as-builts.
1708708	Plaza Sub 4/12kV Conversion Circuit 441	08/12/19	2,038,000	2,038,000	11,758	66,160	1,971,840	10/31/19	3%	0%	In construction.
1708710	Plaza Substation - Circuit 458	04/09/18	1,170,000	1,170,000	-	665,196	504,804	06/17/19	57%	95%	Completed, pending as-builts.
1808449	Plaza Substation - Circuit 448	07/09/18	973,000	973,000	471	539,015	433,985	10/31/19	55%	90%	Completed, pending as-builts.
1808451	Plaza Substation - Circuit 443	03/29/18	415,000	415,000	26,357	390,912	24,088	10/31/19	94%	95%	Completed, pending as-builts.
<b>Subtotal of OVERHEAD</b>					<b>16,440,905</b>	<b>232,949</b>	<b>9,776,541</b>	<b>6,664,364</b>			

**UNDERGROUND**

1505212	Canyon Crest Area 1F (Phase 2)	01/28/19	1,430,000	1,430,000	20,563	1,374,708	55,292	10/31/19	96%	95%	Completed, pending as-builts.
1713398	Canyon Crest Area 1F (Phase 1)	01/08/18	739,000	739,000	-	743,429	(4,429)	03/21/19	101%	100%	Completed, pending as-builts.
1724058	Canyon Crest Area 2 Cable Rejuvenation Project	03/25/19	746,000	746,000	281,200	362,927	383,073	01/31/20	49%	95%	Pending as-built and final payment
1833153	Conduit and Structure Installation for the Cable Replacement Project	09/23/19	740,000	740,000	598,376	624,593	115,407	12/12/19	84%	0%	In Construction
1903658	Electrical Engineering Design Services for Pole/Vault Placement and Reconductor Project	11/25/19	435,000	435,000	-	-	435,000	09/10/19	0%	0%	Pending notice to proceed with Design. On hold due to Covid19
<b>Subtotal of UNDERGROUND</b>					<b>4,090,000</b>	<b>900,139</b>	<b>3,105,657</b>	<b>984,343</b>			

**SUBSTATION**

1407577	Metal Gate Replacement	04/09/18	337,699	337,699	15,508	49,818	287,881	03/05/20	15%	95%	In construction
1601400	Springs, Freeman and Mt. View	07/25/16	5,530,000	5,530,000	442,341	5,453,953	76,047	02/06/20	99%	99%	Construction Completed-pending as-builts
1603079	Springs & Orangecrest Equip. Replacement Proj.	02/19/16	1,700,000	1,700,000	119,788	1,579,346	120,654	02/20/20	93%	60%	On hold
1808341	Substation Utility Storage Facility	06/11/18	407,385	407,385	41,900	244,714	162,671	12/31/19	60%	70%	On hold
1814007	Substation Capacitor Upgrade Project	01/22/18	5,306,000	5,306,000	811,922	4,838,008	467,992	03/05/20	91%	98%	Pending as-built
1816163	Substation Automation Upgrade Project	02/26/18	2,027,679	2,027,679	168,256	1,299,417	728,262	03/05/20	64%	60%	7 substations are in design - RERC Design Completed,Casa, Plaza & University Constructions are completed
1822052	Harvey Lynn Substation Site Expansion	10/22/18	2,100,000	2,100,000	657,310	1,856,222	243,778	03/05/20	88%	90%	Wall completed. Pending street improvement
1826061	Riverside power plants Arc Flash Mitigation	06/11/18	497,000	497,000	3,415	20,908	476,092	10/17/19	4%	3%	On hold
1826998	Multi-Substation Circuit Breaker Remote Racking Project	11/26/18	619,000	619,000	91,607	550,361	68,639	03/05/20	89%	99%	Construction complete pending as-built
1826767	Hunter Substation Replacement Project	01/14/19	2,000,000	2,000,000	405,882	595,367	1,404,633	02/18/20	30%	40%	Preliminary design and CEQA process
1822318	Multi Substation Transformer Upgrade/ Recondition	06/25/18	3,082,617	3,082,617	211,171	2,825,313	257,304	03/05/20	92%	95%	Completed pending as-built
1810532	Freeman Switchgear and Transformer Upgrade	11/05/18	5,463,000	5,463,000	1,409,905	1,496,209	3,966,791	03/05/20	27%	70%	Completed the construction of phase 1 and 2 Phase 3 is in construction
1906356	Multi Substation - 69kV Circuit Breakers Replacement	09/23/19	3,500,000	3,500,000	97,335	123,060	3,376,940	11/28/19	4%	10%	Ordered equipment for the first phase. Construction is on hold

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Project / Subproject or WO	Project Description	Board	Board	Project	Year to Date	Life to Date	Available	Last	Job Status		Project Status
		Approval	Approved		Total	Total			Activity	(Based on Proj. Est.)	
		Date	Estimate <sup>(1)</sup>	Estimate <sup>(2)</sup>	as of	as of	Balance	Date	% Spent	% Completed	
1927285	La Colina Switchgear 3&4 Replacement Project	06/10/19	480,000	480,000	78,753	83,251	396,749	09/23/19	17%	0%	In design
1927495	Plaza & Riverside Line Relay Replacement Project	06/10/19	492,000	492,000	201,210	201,210	290,790	03/05/20	41%	60%	In construction
1910518	Substation Protection Support for Multiple Substations, with Stantec Consulting Services Inc.	11/25/19	480,000	480,000	1,812	8,732	471,268	09/23/19	2%	10%	Developing standards for the first two relays
2002530	Multi Substation Transformer Upgrade and Reconditioning	02/24/20	1,883,000	1,883,000	-	-	1,883,000	02/24/20	0%	0%	Project is on hold
Subtotal of SUBSTATION				35,905,380	4,758,115	21,225,889	14,679,491				
RECURRING/OBLIGATION TO SERVE											
070016 / 07	Tract 29596 Krameria Ave <sup>(4)</sup>	07/20/07	500,000	500,000	-	468,292	31,708	03/13/14	94%	95%	In construction.
1024305	Electric SCADA System Upgrades	06/27/16	2,938,307	2,938,307	-	2,737,329	200,978	08/10/16	93%	99%	Completed, pending closure.
1309568	Distribution Automation Program	01/18/13	960,000	960,000	76	685,936	274,064	09/30/19	71%	65%	In construction.
1423748	Freeman Substation to Orangecrest Substation	10/22/18	1,265,000	1,265,000	434,394	664,871	600,129	03/13/20	53%	60%	In construction Phase
1503115	Freeman-Kaiser-Harvey Lynn	12/18/15	300,000	300,000	-	226,521	73,479	12/27/18	76%	50%	Drilling contractor meeting w/crews, pending start date
1518525	Jurupa Avenue - New Tract 28987	11/06/15	320,000	320,000	14,001	27,741	292,259	03/05/20	9%	0%	In construction.
1524282	Land Mobile Radio (LMR) system (Electric Portion)	09/26/16	3,000,000	1,650,000	68,377	1,761,329	(111,329)	10/28/19	107%	95%	Completed, pending closure.
1611216	Citywide Streetlight L.E.D. Conversion	07/25/16	1,150,000	1,150,000	76,582	791,218	358,782	03/05/20	69%	70%	ON HOLD
1709454	12 kV Electrical Feeders for the California Air Resources Board Project	01/14/19	757,000	757,000	508,771	747,838	9,162	02/06/20	99%	95%	Meter and Service expected to be energized by May 1, 2020.
1711020	Fiber Management System and Professional Services Project	08/26/19	650,000	650,000	268,216	297,086	352,914	03/05/20	46%	40%	IT dept. Installing software.
1719921	Magnolia Avenue Fiber Installation	04/24/17	2,189,489	2,189,489	191,407	2,228,068	(38,579)	03/05/20	102%	100%	Completed, pending as-builts.
1722321	Norte Vista Sidwalk Improvements Project	02/12/18	888,000	888,000	79,331	746,064	141,936	01/28/20	84%	95%	In construction.
1725687	Wells-Arlanza Sidewalk Improvements Project	01/08/18	460,000	460,000	-	418,894	41,106	06/01/19	91%	95%	In construction.
1819765	Canyon Crest Areas 3 and 4 for Cable Rejuvenation	07/22/19	1,479,000	1,479,000	320,390	352,755	1,126,245	02/20/20	24%	0%	In construction.
1822537	Smart Grid Communication System Project	07/22/19	459,000	459,000	21,031	46,138	412,862	03/05/20	10%	20%	Consultant study / report in progress
1917203	Auto Center Reliability Project	04/22/19	250,000	250,000	133,455	169,287	80,713	02/06/20	68%	12%	ON HOLD
1807494	Magnolia Ave Street Improvemnts Project from Buchanan St to Banbury Dr	12/09/19	382,000	382,000	2,164	7,687	374,313	11/14/19	2%	2%	In Construction. PW is lead on Project.
1816079	Magnolia Ave Street Improvemnts Project from Buchanan St to Banbury Dr	12/09/19	378,000	378,000	2,332	35,728	342,272	11/14/19	9%	5%	In Construction. PW is lead on Project.
1826227	Magnolia Ave Street Improvemnts Project from Buchanan St to Banbury Dr	12/09/19	602,000	602,000	4,782	14,090	587,910	11/14/19	2%	5%	In Construction. PW is lead on Project.
Subtotal of RECURRING/OBLIGATION TO SERVE				17,577,796	2,125,311	12,426,872	5,150,924				
System Automation											
1707248	Advanced Metering Infrastructure - Electric	06/12/17	8,678,650	8,678,650	1,210,147	1,447,752	7,230,898	08/26/19	17%	35%	Alpha phase complete; Beta set-up and testing underway
1619634	Operational Data Management System - Electric	05/09/16	4,907,000	2,474,500	26,641	2,510,050	(35,550)	03/09/20	101%	85%	In implementation phase
1911437	Citywide Geographic Information System Tech. Upgrade Project	12/10/18	1,206,521	480,000	-	-	480,000	11/07/18	0%	1%	Board approval 12/10/18
1914017	Cyber Security Upgrade Project RERC and Springs	03/25/19	220,024	220,024	-	179,491	40,533	06/17/19	82%	10%	Board approved 4/25. Equipment on hand.
1916742	Phase 1 LED Conversion	06/24/19	8,560,000	8,560,000	31,579	31,859	8,528,141	02/27/19	0%	0%	ON HOLD

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					Total	Total			% Spent	% Completed	
					as of 3/31/2020	as of 3/31/2020					
1718078	Streetlight Replacement Proj- Phase 3	07/22/19	1,849,000	1,849,000	9,861	109,550	1,739,450	03/05/20	6%	50%	In Construction.
Subtotal of SYSTEM AUTOMATION				22,262,174	1,278,227	4,278,702	17,983,472				
OTHER PROJECT											
1104202	CIS Replacement	06/01/12	9,200,000	8,859,000	49,680	8,756,071	102,929	06/24/19	99%	95%	Completed, pending closure.
Subtotal of OTHER PROJECT				8,859,000	49,680	8,756,071	102,929				
RTRP											
050009/01	Riverside Transmission Reliability Project (RTRP) (6)	01/20/06	71,605,521	71,605,521	4,163,176	37,382,350	34,223,171	03/09/20	52%	15%	Phase I construction (69kV) in progress, Remaining project pieces in Planning and
Subtotal of RTRP				71,605,521	4,163,176	37,382,350	34,223,171				
GRAND TOTAL ELECTRIC FUND - Open Work Orders				176,740,776	13,507,596	96,952,082	79,788,694				

**Notes:**

(1) Board approved estimate is the total approved amount of the work order which can include operating & maintenance costs as well as combined Electric & Water projects.

(2) Project estimate reflects Electric capital portion only.

(4) Work includes both WO 0704432 & 0704434

(5) Work includes both WO 809099 & 0809101

(6) Work includes WO 642975, WO 2006768 & WO 2001119.

WO 2006768 has a Board Approval 11-25-19 with Estimate of 4,109,600 (which is within the amount of 71,605,521)

WO 2001119 has a Board Approval 08-26-19 with Estimate of 585,000 (which is within the amount of 71,605,521)

Items in BLUE represent work orders with no activity in the last 60 days.

Riverside Public Utilities  
Closed Capital Work Order Summary Report - Electric Fund  
March-19

Project / Subproject or WO	Project Description	Start Date	End Date	Board Approved Estimate	Final Project Cost	Variance	% Variance
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**CLOSED Capital Work Orders with Budget or Actual Expenditures > \$200,000**

**Underground**

1409723	Conduit and Cable Replacement for Canyon Crest Area Circuit 1215	11/6/2015	2/12/2020	\$ 1,175,000	\$ 1,045,071	\$ 129,929	11.06%
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*1) Note on Final Project Cost:*

The Project was completed under budget due to RPU field forces preplanning and efficient work practices.

*2) Impact to Customer Service:*

The planned routine replacement of aging, and obsolete underground Facilities in the Canyon Crest residential service area improves reliability and prevents unscheduled outages.

*3) Impact to System Reliability:*

This work is identified as part of the Electric System Master plan and Utility 2.0 and improves system Capacity, safety and reliability.

**Substation**

1816638	Freeman Substation & Mt. View Substation	5/14/2018	2/6/2020	\$ 4,202,827	\$ 4,108,439	\$ 94,388	2.25%
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*1) Note on Final Project Cost:*

The project was completed on schedule and within the budget estimate.

*2) Impact to Customer Service:*

The replacement of the aging substation transformer that exceeded its design life reduces the risk of transformer failure in-service and improves the reliability of electric service to thousands of customers

*3) Impact to System Reliability:*

The new transformers are expected to provide reliable services to our customers for 40 years and will improve safety at the substation.

**Total Electric Fund - Closed Work Orders**

<u>\$ 5,377,827</u>	<u>\$ 5,153,510</u>	<u>\$ 224,317</u>
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**Riverside Public Utilities**  
**Open Capital Work Order Summary Report - Water Fund**  
**March-20**

Project / Subproject or WO	Project Description	Board Approval Date	Board Approved Estimate <sup>(1)</sup>	Project Estimate <sup>(2)</sup>	Year to Date	Life to Date	Available Balance	Last Activity Date	Job Status (Based on Proj. Est.)		Project Status
					Total as of 03/31/2020	Total as of 03/31/2020			% Spent	% Completed	

Open Work Orders/Projects with Budgeted or Actual expenditures > \$200,000

**DISTRIBUTION PIPELINE**

1615173	Water Cust. Development - 58 Magnolia Ctr.	(3)	(3)	237,767	-	262,912	(25,145)	03/31/18	111%	90%	Completed, pending as-builts/mapping
1726679	Iowa Ave 12-inch Water Main Extension	09/24/18	353,000	353,000	7,961	310,131	42,869	12/12/19	88%	90%	Final grade not set. FF still need to set final domestic services and vaults, after Public Works final grading.
1905091	Iowa Ave 12-inch Water Main Extension	09/24/18	269,000	269,000	-	77,879	191,121	06/20/19	29%	90%	Blow off hydrants and air valve need final placement once final grade complete. Waiting for UCR for right-of-way approval.
2016734	Water Service Lateral Replacement Program FY2019/20	01/13/20	750,000	750,000	-	-	750,000	12/11/19	0%	0%	In implementation phase
2007552	Scheuer Well Supply Main Replacement Project	01/13/20	788,000	788,000	83,766	83,766	704,234	03/05/20	11%	11%	In construction
1912417	Royal Palm Water Main Replacement Project	03/09/20	323,000	323,000	25,098	47,013	275,987	11/28/19	15%	0%	Field forces on hold
1731943	Jo Jo Way Water Main Replacement Project	03/23/20	492,000	492,000	2,772	35,589	456,411	03/07/20	7%	5%	Approved by Board on April 13, 2020
<b>Subtotal of DISTRIBUTION PIPELINE</b>				<b>3,212,767</b>	<b>119,597</b>	<b>817,290</b>	<b>2,395,477</b>				

**DISTRIBUTION FACILITIES**

1402756	Mission Inn Booster Station Project	09/23/19	2,120,000	2,120,000	224,741	383,264	1,736,736	11/28/19	18%	25%	Bid Award scheduled for Board Approval - 9/23/19
1403310	Mission Inn Rezoning Pipeline Project	09/23/19	3,625,000	3,625,000	1,149,717	1,368,164	2,256,836	03/11/20	38%	70%	Bid Award scheduled for Board Approval - 9/23/19
1524282	Land Mobile Radio (LMR) system (Wtr Portion)	09/26/16	3,000,000	1,350,000	68,377	1,283,051	66,949	04/26/19	95%	95%	Completed,pending commisioning.
1706279	Wells & Cypress Water Main Replacement	06/24/19	2,450,000	2,450,000	1,414,202	1,530,785	919,215	03/12/20	62%	95%	Under construction by City Forces
1904589	Potable Water Emergency Interconnection with the City of Norco	03/25/19	340,000	340,000	88,468	148,464	191,536	02/01/20	44%	100%	Field forces complete
<b>Subtotal of DISTRIBUTION FACILITIES</b>				<b>9,885,000</b>	<b>2,945,505</b>	<b>4,713,728</b>	<b>5,171,272</b>				

**WATER SUPPLY**

1722078	Jackson St - Phase 1 & 2 Water Sites Retrofit	04/24/17	434,370	434,370	7,739	249,035	185,335	03/05/20	57%	34%	In design / on hold
<b>Subtotal of WATER SUPPLY</b>				<b>434,370</b>	<b>7,739</b>	<b>249,035</b>	<b>185,335</b>				

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					Total as of 03/31/2020	Total as of 03/31/2020			% Spent	% Completed	

**WELL PROJECTS**

1709464	Warren 4R Potable Water Well	09/08/19	788,474	788,474	929,349	1,013,441	(224,967)	03/06/20	129%	90%	In the final equipping phase
1623725	Portable/Irrigation Well Replacement	12/09/19	2,100,000	2,100,000	166,512	245,531	1,854,469	03/05/20	12%	25%	Bid awarded; construction to start
1921584	Groundwater Well Rehabilitation Project	10/28/19	318,000	318,000	260,357	266,814	51,186	03/11/20	84%	100%	In Construction
1921585	Groundwater Well Rehabilitation Project	10/28/19	449,000	449,000	133,890	140,680	308,320	03/11/20	31%	90%	In Construction
2008392	Gage 46-1 Water Treatment Plant Modification Project	10/28/19	850,000	850,000	277	277	849,723	11/28/19	0%	0%	Planning report in review
<b>Subtotal of WATER SUPPLY</b>				<b>4,505,474</b>	<b>1,490,385</b>	<b>1,666,743</b>	<b>2,838,731</b>				

**SYSTEM AUTOMATION**

1619634	Operational Data Management System - Water	05/09/16	4,907,000	1,332,500	122,133	1,351,565	(19,065)	07/01/19	101%	85%	In implementation phase.
1707248	Advanced Metering Infrastructure - Water	06/12/17	3,660,000	460,000	1,262,870	5,866	454,134	08/26/19	1%	2%	ON HOLD
1909378	SCADA	06/24/19	1,550,222	1,550,222	217,931	283,050	1,267,172	02/18/20	18%	25%	In Design
<b>Subtotal of SYSTEM AUTOMATION</b>				<b>3,342,722</b>	<b>1,602,934</b>	<b>1,640,481</b>	<b>1,702,241</b>				

**OTHERS**

1202806	Riverside North Aquifer Storage & Recovery	10/07/11	1,800,000	1,800,000	-	447,714	1,352,286	07/01/17	25%	10%	Environmental phase led by SBVWD
1504840	Santa Ana River Habitat Conservation	09/05/14	325,000	325,000	-	134,256	190,744	06/30/17	41%	50%	In design
<b>Subtotal of OTHERS</b>				<b>2,125,000</b>	<b>-</b>	<b>581,970</b>	<b>1,543,030</b>				

**GRAND TOTAL OF WATER FUND - Open Work Orders**

<b>23,505,333</b>	<b>6,166,159</b>	<b>9,669,247</b>	<b>13,836,086</b>
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**NOTE:**

- (1) Board approved estimate is the total approved amount of the work order which can include operating & maintenance costs as well as combined Electric & Water projects.
- (2) Project estimate reflects Water portion only.
- (3) 100% Customer funded project

Items in blue represent work orders with no activity in the last 60 days.

**Other:** Work Order#s 1921584, 1921585, 2008392 are not included in this Open Report.  
(They will be included in the March 2020 report)

Riverside Public Utilities  
Closed Capital Work Order Summary Report - Water Fund  
March-20

Project / Subproject or WO	Project Description	Start Date	End Date	Board Approved Estimate	Final Project Cost	Variance	% Variance
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**CLOSED Capital Work Orders with Budget or Actual Expenditures > \$200,000**

Please note: No Closed Work Orders over \$200,000 to  
report for the month of March 2020

<b>Total Water Fund - Closed Work Orders</b>				<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>
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