



RIVERSIDE PUBLIC UTILITIES

Board Memorandum

BOARD OF PUBLIC UTILITIES

DATE: SEPTEMBER 23, 2019

GENERAL MANAGER'S REPORT

ITEM NO: 15

Riverside Public Utilities

Open Work Orders Greater than \$200,000

As of August 31, 2019

Riverside Public Utilities
Open Capital Work Order Summary Report - Electric Fund
August-19

Project / Subproject or WO	Project Description	Board Approval Date	Board Approved Estimate ⁽¹⁾	Project Estimate ⁽²⁾	Year to Date Total as of 8/31/2019	Life to Date Total as of 8/31/2019	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	09/25/17	1,125,000	1,125,000	-	844,775	280,225	Various	75%	100%	Project completed, pending final billing
Various	GO-165 Pole Replacements - Citywide	08/27/18	2,227,000	2,227,000	-	1,150,921	1,076,079	Various	52%	0%	In construction.
Various	GO-165 Pole Replacements - Citywide	06/10/19	2,301,305	2,301,305	-	-	2,301,305	Various	0%	0%	Pending start date
080022 / 01	Wood Streets Streetlights Phase 1 ⁽³⁾	10/18/13	1,909,800	1,909,800	-	1,792,642	118,958	08/14/18	94%	95%	Completed, pending as-builts.
1503112	Plaza substation - Circuit 450	01/28/19	2,174,000	2,174,000	108,327	1,088,360	1,085,640	08/08/19	50%	60%	In construction.
1521822	Plaza Substation - Circuit 456	09/18/15	933,000	933,000	3,159	1,133,093	(200,093)	07/25/19	121%	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	-	54,403	1,983,597	06/27/19	3%	0%	Design Complete, Pending 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	196	538,739	434,261	08/10/19	55%	90%	In construction.
1808451	Plaza Substation - Circuit 443	03/29/18	415,000	415,000	11,467	376,022	38,978	08/16/19	91%	95%	Completed, pending as-builts.
Subtotal of OVERHEAD					17,565,905	123,149	9,766,675	7,799,230			

UNDERGROUND

1409723	Canyon Crest Area 1E	11/06/15	1,175,000	1,175,000	-	1,032,476	142,524	02/08/18	88%	95%	Completed, pending closure (litigation resolved)
1505212	Canyon Crest Area 1F (Phase 2)	01/28/19	1,430,000	1,430,000	409,650	1,763,794	(333,794)	08/15/19	123%	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	-	61,601	684,399	08/08/19	8%	95%	Pending as-built and final payment
Subtotal of UNDERGROUND					4,090,000	409,650	3,601,300	488,700			

SUBSTATION

1407577	Metal Gate Replacement	04/09/18	337,699	337,699	-	34,310	303,389	08/13/19	10%	5%	In design
1601400	Springs, Freeman and Mt. View	07/25/16	5,530,000	5,530,000	-	5,011,612	518,388	05/29/19	91%	99%	Construction Completed-pending as-builts
1603079	Springs & Orangecrest Equip. Replacement Proj.	02/19/16	1,700,000	1,700,000	-	1,459,558	240,442	06/27/19	86%	60%	In construction
1808341	Substation Utility Storage Facility	06/11/18	407,385	407,385	-	202,814	204,571	06/26/19	50%	5%	In design

Riverside Public Utilities
Open Capital Work Order Summary Report - Electric Fund
August-19

Project / Subproject or WO	Project Description	Board Approval Date	Board Approved Estimate ⁽¹⁾	Project Estimate ⁽²⁾	Year to Date	Life to Date	Available Balance	Last Activity Date	Job Status (Based on Proj. Est.)		Project Status
					Total as of 8/31/2019	Total as of 8/31/2019			% Spent	% Completed	
1814007	Substation Capacitor Upgrade Project	01/22/18	5,306,000	5,306,000	78,515	4,104,601	1,201,399	08/12/19	77%	15%	Completed construction of 2 capacitors
1816163	Substation Automation Upgrade Project	02/26/18	2,027,679	2,027,679	5,192	1,136,354	891,325	08/08/19	56%	40%	7 substations are in design - RERC Design Completed,Casa, Plaza & University Constructions are completed
1817274	Vista Substation	02/26/18	836,175	836,175	-	782,757	53,418	05/08/19	94%	99%	Construction is completed. In the process of closing the wo.
1822052	Harvey Lynn Substation Site Expansion	10/22/18	2,100,000	2,100,000	108,460	1,307,372	792,628	08/12/19	62%	60%	PO's will be issues next month to contractors.
1826061	Riverside power plants Arc Flash Mitigation	06/11/18	497,000	497,000	-	17,493	479,507	06/13/19	4%	3%	In design
1826998	Multi-Substation Circuit Breaker Remote Racking Project	11/26/18	619,000	619,000	1,601	460,355	158,645	08/08/19	74%	99%	Construction complete pending as-built
1826767	Hunter Substation Replacement Project	01/14/19	2,000,000	2,000,000	114,413	303,898	1,696,102	08/19/19	15%	10%	Preliminary design
1816638	Freeman Substation & Mt. View Substation	05/14/18	4,202,827	4,202,827	25,540	3,703,027	499,800	08/08/19	88%	95%	Construction completed-pending as builts and standards development
1822318	Multi Substation Transformer Upgrade/ Recondition	06/25/18	3,082,617	3,082,617	56,054	2,669,196	413,421	08/13/19	87%	90%	In construction
1810532	Freeman Switchgear and Transformer Upgrade	11/05/18	3,638,268	3,638,268	136,187	222,491	3,415,777	08/08/19	6%	3%	Completed 80% of phase 1 design
1927285	La Colina Switchgear 3&4 Replacement Project	06/10/19	480,000	480,000	67	4,565	475,435	07/25/19	1%	0%	Board approved WO
1927495	Plaza & Riverside Line Relay Replacement Project	06/10/19	492,000	492,000	352	352	491,648	08/08/19	0%	0%	Board approved WO
Subtotal of SUBSTATION				33,256,650	526,381	21,420,755	11,835,895				
RECURRING/OBLIGATION TO SERVE											
070016 / 07	Tract 29596 Krameria Ave ⁽⁴⁾	07/20/07	500,000	500,000	-	468,292	31,708	03/13/14	94%	95%	In construction.
1024305	Electric SCADA System Upgrades	07/01/11	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	-	685,860	274,140	06/30/19	71%	65%	In construction.
1423748	Freeman Substation to Orangecrest Substation	10/22/18	1,265,000	1,265,000	3,843	234,319	1,030,681	08/08/19	19%	1%	In design phase
1503115	Freeman-Kaiser-Harvey Lynn	12/18/15	300,000	300,000	-	228,521	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	-	13,740	306,260	06/01/16	4%	0%	On-hold.
1524282	Land Mobile Radio (LMR) system (Electric Portion)	09/26/16	3,000,000	1,650,000	-	1,692,952	(42,952)	04/26/19	103%	95%	Completed, pending closure.
1611216	Citywide Streetlight L.E.D. Conversion	07/25/16	1,150,000	1,150,000	1,993	716,629	433,371	08/08/19	62%	70%	In design.
1709454	12 kV Electrical Feeders for the California Air Resources Board Project	01/14/19	757,000	757,000	187,616	426,684	330,316	08/22/19	56%	1%	Design completed, In construction
1719921	Magnolia Avenue	04/24/17	2,189,489	2,189,489	389	2,037,050	152,439	08/08/19	93%	85%	Completed, pending as-builts.

Riverside Public Utilities
Open Capital Work Order Summary Report - Electric Fund
August-19

Project / Subproject or WO	Project Description	Board Approval Date	Board Approved Estimate ⁽¹⁾	Project Estimate ⁽²⁾	Year to Date	Life to Date	Available Balance	Last Activity Date	Job Status (Based on Proj. Est.)		Project Status
					Total as of 8/31/2019	Total as of 8/31/2019			% Spent	% Completed	
1722321	Norte Vista Sidwalk Improvements Project	02/12/18	888,000	888,000	74,791	741,524	146,476	08/21/19	84%	80%	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.
1917203	Auto Center Reliability Project	04/22/19	250,000	250,000	28,850	64,681	185,319	08/22/19	26%	12%	Board approved. On hold
1819765	Canyon Crest Areas 3 and 4 for Cable Rejuvenation	07/22/19	1,479,000	1,479,000	491	32,856	1,446,144	07/11/19	2%	0%	Board approved 7/22/19, pending PO
1822537	Smart Grid Communication System Project	07/22/19	459,000	459,000	249	25,356	433,644	08/08/19	6%	5%	Board approved. In the process of issuing PO to consultant.
Subtotal of RECURRING/OBLIGATION TO SERVE				15,565,796	298,222	10,522,687	5,043,109				
System Automation											
1619634	Operational Data Management System - Electric	06/12/17	4,907,000	2,474,500	-	2,483,409	(8,909)	07/01/19	100%	70%	Seeking approval to extend consultant contract for project years 4 & 5 for additional integration and development
1707248	Advanced Metering Infrastructure - Electric	06/12/17	3,660,000	1,450,000	14,195	251,800	1,198,200	08/14/19	17%	10%	Planning stage of project; preparing for Alpha proof-of-concept
1911437	Citywide Geographic Information System Tech. Upgrade Project	12/10/18	1,206,521	480,000	-	-	480,000	12/10/18	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	-	280	8,559,720	02/27/19	0%	0%	Waiting Special Provisions, Draft from Benya
1718078	Streetlight Replacement Proj- Phase 3	07/22/19	1,849,000	1,849,000	2,800	102,489	1,746,511	08/08/19	6%	50%	Board approved 7/22 Pending Council approval on 8/6
Subtotal of SYSTEM AUTOMATION				15,033,524	16,995	3,017,469	12,016,055				
OTHER PROJECT											
1104202	CIS Replacement	06/01/12	9,200,000	8,859,000	-	8,706,391	152,609	06/24/19	98%	95%	Completed, pending closure.
Subtotal of OTHER PROJECT				8,859,000	-	8,706,391	152,609				
RTRP											
642975	Riverside Transmission Reliability Project (RTRP)	01/20/06	42,605,521	42,605,521	1,245,629	34,868,754	7,736,767	08/21/19	82%	15%	In design.
Subtotal of RTRP				42,605,521	1,245,629	34,868,754	7,736,767				
GRAND TOTAL ELECTRIC FUND - Open Work Orders				136,976,396	2,620,026	91,904,031	45,072,365				

Riverside Public Utilities
Open Capital Work Order Summary Report - Electric Fund
August-19

Project / Subproject or WO	Project Description	Board Approval Date	Board Approved Estimate ⁽¹⁾	Project Estimate ⁽²⁾	Year to Date	Life to Date	Available Balance	Last Activity Date	Job Status (Based on Proj. Est.)		Project Status
					Total as of 8/31/2019	Total as of 8/31/2019			% Spent	% Completed	

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

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



RIVERSIDE PUBLIC UTILITIES

Board Memorandum

BOARD OF PUBLIC UTILITIES

DATE: SEPTEMBER 23, 2019

GENERAL MANAGER'S REPORT

ITEM NO:

Riverside Public Utilities

Closed Work Order Reports

As of August 31, 2019

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

Project / Subproject or WO	Project Description	Start Date	End Date	Board Approved Estimate	Final Project Cost	Variance	% Variance
----------------------------------	---------------------	------------	----------	-------------------------------	--------------------------	----------	------------

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 August 2019

Total Electric Fund - Closed Work Orders

\$ -	\$ -	\$ -
------	------	------

Riverside Public Utilities
Open Capital Work Order Summary Report - Water Fund
August-19

Project / Subproject or WO	Project Description	Board Approval Date	Board Approved Estimate ⁽¹⁾	Project Estimate ⁽²⁾	Year to Date Total as of 08/31/2019	Life to Date Total as of 08/31/2019	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

DISTRIBUTION PIPELINE

1507007	Jasmine and Columbus	10/03/14	879,000	879,000	-	52,714	826,286	02/13/19	8%	0%	On-hold.
1602941	Larchwood Place	10/16/15	895,000	895,000	-	477,802	417,398	03/31/18	53%	100%	Completed, pending closure.
1615173	Water Cust. Development - 58 Magnolia Ctr.	(3)	(3)	237,767	-	282,912	(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	1,562	303,732	49,268	08/08/19	86%	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.
Subtotal of DISTRIBUTION PIPELINE				2,433,767	1,562	1,174,839	1,258,928				

DISTRIBUTION FACILITIES

1524282	Land Mobile Radio (LMR) system (Wtr Portion)	09/26/16	3,000,000	1,350,000	-	1,283,051	86,949	04/26/19	95%	95%	Completed, pending commissioning.
1706279	Wells & Cypress Water Main Replacement	06/24/19	2,450,000	2,450,000	191,471	474,744	1,975,256	08/20/19	19%	10%	Under construction by City Forces
1904589	Potable Water Emergency Interconnection with the City of Norco	03/25/19	340,000	340,000	15,017	75,013	264,987	08/20/19	22%	30%	In construction.
Subtotal of DISTRIBUTION FACILITIES				4,140,000	206,488	1,832,808	2,307,192				

TRANSMISSION PIPELINE

1903811	Iowa Avenue Transmission Main Replacement	10/22/18	2,140,000	2,140,000	14,291	1,859,819	280,181	08/08/19	87%	100%	Complete - Pending Closure
Subtotal of TRANSMISSION PIPELINE				2,140,000	14,291	1,859,819	280,181				

Riverside Public Utilities
Open Capital Work Order Summary Report - Water Fund
August-19

Project / Subproject or WO	Project Description	Board Approval Date	Board Approved Estimate ⁽¹⁾	Project Estimate ⁽²⁾	Year to Date	Life to Date	Available Balance	Last Activity Date	Job Status (Based on Proj. Est.)		Project Status
					Total as of 08/31/2019	Total as of 08/31/2019			% Spent	% Completed	
WATER SUPPLY											
1722078	Jackson St - Phase 1 & 2 Water Sites Retrofit	04/24/17	434,370	434,370	291	241,587	192,783	08/13/19	56%	34%	In design
Subtotal of WATER SUPPLY				434,370	291	241,587	192,783				
SYSTEM AUTOMATION											
1619634	Operational Data Management System - Water	05/09/16	4,907,000	1,332,500	-	1,342,492	(9,992)	06/25/19	101%	70%	In implementation phase.
1707248	Advanced Metering Infrastructure - Water	06/12/17	3,660,000	460,000	-	-	460,000	08/14/19	0%	2%	Project on hold
1909378	SCADA	06/24/19	1,550,222	1,550,222	2,000	56,487	1,493,735	08/08/19	4%	2%	In the Design phase
Subtotal of SYSTEM AUTOMATION				3,342,722	2,000	1,398,979	1,943,743				
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	08/30/17	41%	50%	In design
Subtotal of OTHERS				2,125,000	-	581,970	1,543,030				
GRAND TOTAL OF WATER FUND - Open Work Orders				14,615,859	224,632	7,090,002	7,525,857				

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.

Riverside Public Utilities
Closed Capital Work Order Summary Report - Water Fund
August-19

Project / Subproject or WO	Project Description	Start Date	End Date	Board Approved Estimate	Final Project Cost	Variance	% Variance
----------------------------------	---------------------	------------	----------	-------------------------------	--------------------------	----------	------------

CLOSED Capital Work Orders with Budget or Actual expenditures > \$200,000

TRANSMISSION PIPELINE

1612632	Magnolia Ave Techite Pipe Replacement Project	1/8/2018	7/30/2019	\$ 7,335,000	\$ 6,757,430	\$ 577,570	7.87%
---------	---	----------	-----------	--------------	--------------	------------	-------

1) Note on Final Project Cost:

The project was completed within the estimated cost.

2) Impact to Customer Service:

The project enhanced the supply of water to the surrounding neighborhood.

3) Impact to System Reliability:

The project improved reliability of the water system by proving an upgraded and upsized water main.

DISTRIBUTION FACILITIES

1727999	Pressure Reducing Station Replacement	7/9/2018	7/30/2019	\$ 599,000	\$ 524,012	\$ 74,988	12.52%
---------	---------------------------------------	----------	-----------	------------	------------	-----------	--------

1) Note on Final Project Cost:

The project was completed within the estimated cost.

2) Impact to Customer Service:

The project enhanced reliability and safety of the water mains in this area.

3) Impact to System Reliability:

The project improved reliability of the water system by proving an upgraded and upsized pressure reducing station.

Total Water Fund - Closed Work Orders

<u>\$ 7,934,000</u>	<u>\$ 7,281,441</u>	<u>\$ 652,559</u>
---------------------	---------------------	-------------------