



RIVERSIDE PUBLIC UTILITIES

Board Memorandum

BOARD OF PUBLIC UTILITIES

DATE: OCTOBER 23, 2017

GENERAL MANAGER'S REPORT

ITEM NO: 24

Riverside Public Utilities

Open Work Orders Greater than \$200,000

As of September 30, 2017

Riverside Public Utilities
Open Capital Work Order Summary Report - Electric Fund
September 2017

Project / Subproject or WO	Project Description	Board Approval Date	Board Approved Estimate ⁽⁷⁾	Project Estimate	Year to Date	Life to Date	Available Balance	Last Activity Date	Job Status (Based on Proj. Est.)		Project Status							
					Total as of 9/30/2017	Total as of 9/30/2017			% Spent	% Completed								
Open Work Orders/Projects with Budgeted or Actual expenditures > \$200,000																		
Advanced Technology⁽³⁾																		
1619634	Operational Data Management System - Electric	05/09/16	3,189,500	3,189,500	32,958	1,900,508	1,288,992	06/30/17	60%	65%	In implementation phase.							
1707248	Advanced Metering Infrastructure - Electric	06/12/17	3,000,000	1,890,000	-	-	1,890,000	09/23/16	0%	0%	Pending start date.							
Cable Replacement																		
1409723	Canyon Crest Area Circuit 1215	11/06/15	1,175,000	1,175,000	670	1,028,971	146,029	07/13/17	88%	95%	As-builts in progress.							
1319813	Canyon Crest Area Circuit 1218	04/10/17	967,000	967,000	(161,282)	254,843	712,157	07/27/17	26%	50%	In construction.							
CIS Banner Upgrade																		
1104202	CIS Replacement	06/01/12	8,859,000	8,859,000	-	8,242,223	616,777	11/30/16	93%	95%	Completed, pending closure.							
City-Wide Communications Network																		
1719921	Magnolia Avenue	04/24/17	2,189,489	2,189,489	8,483	36,316	2,153,173	09/21/17	2%	15%	In construction.							
1524282	Land Mobile Radio (LMR) system (Electric Portion)	09/26/16	3,000,000	1,650,000	46,682	1,614,856	35,144	09/21/17	98%	95%	Completed, pending closure.							
1423750	Riverside Substation to Hunter Substation	04/24/17	465,000	465,000	6,994	37,805	427,195	09/21/17	8%	15%	In design.							
1423746	Fiber Use License Agmt.- County of Riverside	01/22/16	325,000	325,000	-	340,484	(15,484)	06/30/17	105%	95%	Closed on 9/12/17.							
Distribution Automation Reliability																		
1309568	Distribution Automation Program	01/18/13	960,000	960,000	1,302	681,312	278,688	07/15/17	71%	65%	In construction.							
GO 165 Upgrades/Relocations																		
Various	GO-165 Pole Replacements - Citywide	09/25/17	1,125,000	1,125,000	-	-	1,125,000	No activity	0%	0%	Pending start date.							
1804337	Four (4) Electrical Vaults & Manholes	09/25/17	557,000	557,000	834	834	556,166	08/24/17	0%	0%	Pending start date.							
1722605	OH & UG Electric Dist. System Inspections	06/26/17	2,844,000	2,388,000	-	-	2,388,000	03/08/17	0%	0%	Pending start date.							
Line Rebuilds																		
1606533	Palm Avenue Circuit 454	06/27/16	228,000	228,000	-	273,379	(45,379)	06/30/17	120%	100%	Completed, closed.							
		Subtotal		228,000	-	273,379	(45,379)											

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									% Spent	% Completed	
Major 4/12Kv Conversions											
1521822	Plaza Substation - Circuit 456	09/18/15	933,000	933,000	-	131,926	801,074	06/01/17	14%	25%	In construction.
1521820	Plaza Substation - Circuit 452	09/18/15	1,446,000	1,446,000	140,942	810,188	635,812	09/27/17	56%	55%	In construction.
1503125	Magnolia Substation - Circuit 46	04/17/15	1,833,000	1,833,000	155,831	1,757,475	75,525	08/26/17	96%	90%	In construction.
1501824	Plaza Substation - Circuit 454	09/18/15	1,349,000	1,349,000	-	1,366,960	(17,960)	08/30/17	101%	95%	Completed, pending as-builts.
1411795	Magnolia - Underground Conversion	04/02/15	2,250,000	2,250,000	6,854	1,641,182	608,818	06/01/17	73%	90%	In construction.
1319390	Magnolia - Overhead Conversion	09/19/14	1,577,100	1,577,100	-	1,786,478	(209,378)	06/21/17	113%	95%	In construction.
		Subtotal		9,388,100	303,627	7,494,209	1,893,891				
Major Feeders											
1525536	Diana Avenue	01/22/16	850,000	850,000	325	800,208	49,792	07/13/17	94%	95%	Completed, pending as-builts.
		Subtotal		850,000	325	800,208	49,792				
Major Overhead/Underground Conversions											
1604758	7105 Old Frontage 215 Rd	(2)	(2)	208,182	630	189,573	18,609	09/21/17	91%	99%	Completed, pending as-builts.
0913192	Tyler Street Widening	08/07/15	816,000	816,000	-	871,531	(55,531)	06/30/17	107%	95%	Completed, pending as-builts.
		Subtotal		1,024,182	630	1,061,104	(36,922)				
Major Street Light Projects											
1611216	Citywide Streetlight L.E.D. Conversion	07/25/16	1,150,000	1,150,000	21,618	182,395	967,605	09/27/17	16%	17%	In design.
1518574	Tyler Street Widening Project	08/07/15	141,000	141,000	83	233,478	(92,478)	08/10/17	85%	85%	In construction.
		Subtotal		1,291,000	21,701	415,873	875,127				
Major Tract Distribution											
1518525	Jurupa Avenue - New Tract 28987	11/06/15	320,000	320,000	-	13,740	306,260	06/01/16	4%	0%	On-hold.
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.
070016 / 02	Tract 29515 Phase 2 & Sewer Lift Station ⁽⁵⁾	11/16/07	345,000	345,000	-	344,419	581	06/01/16	100%	95%	Completed, pending as-builts.
		Subtotal		1,165,000	-	826,450	338,550				
Major Transmission Line Projects											
1503115	Freeman-Kaiser-Harvey Lynn	12/18/15	300,000	300,000	1,019	176,848	123,152	09/07/17	59%	50%	Pending start date.
		Subtotal		300,000	1,019	176,848	123,152				
Neighborhood Streetlight Retrofit											
1523553	Wood Streets Streetlights Phase 2	02/13/17	2,300,000	2,300,000	283,258	768,758	1,531,242	09/27/17	33%	5%	In construction.
080022 / 01	Wood Streets Streetlights Phase I ⁽⁶⁾	10/18/13	1,909,600	1,909,600	-	1,791,660	117,940	03/01/16	94%	95%	Completed, pending as-builts.
		Subtotal		4,209,600	283,258	2,560,418	1,649,182				

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					Total as of 9/30/2017	Total as of 9/30/2017			% Spent	% Completed	
RTRP and STP Project											
642975	230 KV Station	03/05/15	42,605,521	42,605,521	160,606	26,258,057	16,347,464	09/21/17	62%	15%	In design.
812940	69 KV Station⁽¹⁾	11/06/09	24,000,000	24,096,844	-	18,306,368	5,790,476	06/29/17	76%	99%	Completed, pending as-builts.
SCADA											
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.
					Subtotal	2,938,307	-	2,737,329	200,978		
Substation Bus and Upgrades											
1603079	Springs & Orangecrest	02/19/16	1,700,000	1,700,000	204	1,119,828	580,172	07/27/17	66%	60%	Pending construction.
1601400	Springs, Freeman and Mt. View	07/25/16	5,530,000	5,530,000	11,313	2,791,832	2,738,168	09/21/17	50%	45%	In construction.
1311245	Orangecrest, Riverside, Springs & La Colina	03/21/14	1,925,805	1,925,805	7,737	1,979,356	(53,551)	09/21/17	103%	75%	In construction.
1411145	La Colina Switchgear 3 & 4	03/21/14	534,051	534,051	-	72,523	461,528	06/01/17	14%	25%	On-hold.
1024965	Electronic Security Monitoring and Access Control	09/16/11	5,000,000	5,000,000	57	5,112,334	(112,334)	07/13/17	102%	100%	Closed on 8/29/17.
1020992	La Colina & Hunter	05/03/13	649,885	649,885	-	457,843	192,042	06/01/16	70%	90%	On-hold.
					Subtotal	15,339,741	19,311	11,533,716	3,806,025		
Substation Transformer Addition											
1619571	Plaza Substation	10/24/16	460,000	460,000	4,197	432,985	27,015	09/21/17	94%	95%	Completed, pending as-builts.
1514752	Mobile Substation #3	05/23/16	2,198,993	2,198,993	3,992	1,863,398	335,595	09/21/17	85%	95%	Completed, pending activation.
					Subtotal	2,658,993	8,189	2,296,383	362,610		
SCE Condemnation Costs											
1704094	Annexation 95 & 99 areas	10/24/16	444,000	444,000	-	-	444,000	No activity	0%	0%	On-hold.
					Subtotal	444,000	-	-	444,000		
Total Electric Fund - Open Work Orders											
									132,279,277	735,304	88,877,661
											43,400,782

Notes:

- (1) This work is part of Project 050009 & included within the \$24,000,000 authorized by PU Board and includes various work orders closed in prior years.
- (2) 100% customer funded project
- (3) Advanced Technology projects includes both capital expenditures and professional services.
- (4) Work includes both WO 0704432 & 0704434
- (5) Work includes both WO 0702819 & 0702820
- (6) Work includes both WO 809099 & 0809101
- (7) Board approved estimate is the total amount of the work order which can include operating & maintenance costs as well as combined Electric & Water projects.

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

Riverside Public Utilities
Open Capital Work Order Summary Report - Water Fund
September 2017

Project / Subproject or WO	Project Description	Board Approval Date	Board Approved Estimate ⁽²⁾	Project Estimate	Year to Date Total as of 09/30/2017	Life to Date Total as of 09/30/2017	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																				
Advanced Technology⁽¹⁾																				
1707248	Advanced Metering Infrastructure - Water	06/12/17	3,000,000	1,110,000	-	-	1,110,000	09/23/16	0%	0%	Pending start date.									
1619634	Operational Data Management System - Water	05/09/16	4,907,000	1,717,500	17,747	994,136	723,364	05/09/16	58%	65%	In implementation phase.									
			Subtotal		2,827,500	17,747	994,136													
Asset Management System																				
1424073	Water Asset Management	06/20/14	2,530,400	2,048,689	7,430	2,148,398	(99,709)	08/16/17	105%	95%	Completed, pending closure.									
			Subtotal		2,048,689	7,430	2,148,398	(99,709)												
Aquifer Storage & Recovery System																				
1202806	Riverside North Aquifer Storage & Recovery	10/07/11	1,800,000	1,800,000	23,133	447,714	1,352,286	07/01/17	25%	10%	In environmental evaluation phase.									
			Subtotal		1,800,000	23,133	447,714	1,352,286												
Development Costs																				
1504840	Santa Ana River Habitat Conservation	09/05/14	325,000	325,000	-	134,256	190,744	06/30/17	41%	25%	In biological evaluation phase.									
			Subtotal		325,000	-	134,256	190,744												
Facility Rehabilitation																				
1727627	John W. North Treatment Plant Trains	07/10/17	368,000	368,000	286	286	367,714	No Activity	0%	0%	No Activity.									
1712678	Flume 3 Groundwater Well	02/13/17	255,672	255,672	(41,366)	94,973	160,699	07/01/17	37%	100%	Completed, pending closure.									
1712677	Gage 92-3 Groundwater Well	02/13/17	264,626	264,626	-	10,383	254,243	06/01/17	4%	10%	In construction.									
1712676	Tippecanoe Groundwater Well	02/13/17	301,454	301,454	(130,397)	65,465	235,989	07/27/17	22%	100%	Completed, pending closure.									
1712675	Raub 6 Groundwater Well	02/13/17	297,582	297,582	617	12,474	285,108	08/24/17	4%	10%	In construction.									
1712389	Raub 7 Groundwater Well	02/13/17	267,288	267,288	(99,095)	65,560	201,728	07/01/17	25%	100%	Completed, pending closure.									
1610216	Riverside Golf Course Drip Irrigation System	02/19/16	240,000	240,000	-	230,449	9,551	06/30/17	96%	100%	Completed, pending closure.									
1524282	Land Mobile Radio (LMR) system (Water Portion)	09/26/16	3,000,000	1,350,000	-	1,283,051	66,949	08/10/17	95%	95%	Completed, pending commissioning.									
1508449	Palmyrita Well	11/07/14	215,000	215,000	1,189	8,233	206,767	08/15/17	4%	5%	On-hold.									
			Subtotal		3,559,622	(268,766)	1,770,874	1,788,748												

Riverside Public Utilities
Open Capital Work Order Summary Report - Water Fund
September 2017

Project / Subproject or WO	Project Description	Board Approval Date	Board Approved Estimate ⁽²⁾	Project Estimate	Year to Date Total as of 09/30/2017	Life to Date Total as of 09/30/2017	Available Balance	Last Activity Date	Job Status (Based on Proj. Est.)		Project Status
									% Spent	% Completed	
Main Replacements											
1619730	Tenth and Eleventh Street	08/22/16	2,245,000	2,245,000	89,101	1,582,965	662,035	08/24/17	71%	85%	In construction.
1602941	Larchwood Place	10/16/15	895,000	865,000	1,749	475,204	389,796	06/30/17	55%	100%	Completed, pending closure.
1518913	Brockton Ave. & Palm Ave. Railroad Crossings	08/22/16	688,000	688,000	-	659,307	28,693	06/30/17	96%	100%	Completed, pending closure.
1515609	Arlington Ave. & Western Ave.	06/06/16	1,241,000	1,241,000	71,078	992,703	248,297	08/24/17	80%	85%	In construction.
1515505	Ambs Drive	06/06/16	1,523,000	1,523,000	5,077	1,103,807	419,193	08/24/17	72%	100%	Completed, pending closure.
1515504	Arroyo Drive	11/14/16	2,040,000	2,040,000	36,459	1,620,185	419,815	08/30/17	79%	80%	In construction.
1513392	Colorado Ave and Toyon Road	05/22/17	2,978,000	2,978,000	362,786	553,274	2,424,726	09/22/17	19%	30%	In construction.
1507007	Jasmine and Columbus	10/03/14	679,000	679,000	-	-	679,000	No Activity	0%	0%	On-hold.
1422097	Indiana Avenue and Mary St.	07/10/17	2,017,000	2,017,000	10,462	121,580	1,895,420	09/21/17	6%	10%	In construction.
1415931	California and Monroe	12/12/14	973,500	973,500	-	820,305	153,195	06/01/17	84%	95%	In construction.
1107917	Magnolia Ave and Ramona Dr	04/10/17	2,704,000	2,704,000	583,376	970,566	1,733,434	09/26/17	36%	70%	In construction.
		Subtotal		17,953,500	1,160,088	8,899,896	9,053,604				
Recycled Water Facilities											
1722078	Jackson Street - Phase 1 & 2 Water Sites Retrofit	04/24/17	434,730	434,730	23,979	33,942	400,788	09/26/17	8%	5%	In construction.
1521905	Jackson Street - Phase 1	01/22/16	8,609,000	8,609,000	323,422	861,953	7,747,047	09/27/17	10%	5%	In construction.
		Subtotal		9,043,730	347,401	895,895	8,147,835				
System Expansion											
1703061	Crestlawn-Norco	11/14/16	1,339,000	1,339,000	17,692	1,123,912	215,088	09/21/17	84%	100%	Completed, pending closure.
		Subtotal		1,339,000	17,692	1,123,912	215,088				
Utility Agreement Projects - Caltrans SR-91 HOV											
1112062	UA 21699 - Misc. Utility Relocations	11/18/11	1,555,000	1,555,000	(35,404)	455,190	1,099,810	09/27/17	29%	99%	Completed, pending closure.
1112059	UA 21702 - Ivy St Bridge	08/19/11	1,600,000	1,600,000	(26,413)	1,333,551	266,449	09/27/17	83%	99%	Completed, pending closure.
		Subtotal		3,155,000	(61,817)	1,788,741	1,366,259				
Total Water Fund - Open Work Orders											
				42,052,041	1,242,908	18,203,822	23,848,219				

NOTE:

(1) Advanced Technology projects includes both capital expenditures and professional services.

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

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



RIVERSIDE PUBLIC UTILITIES

Board Memorandum

BOARD OF PUBLIC UTILITIES

DATE: OCTOBER 23, 2017

GENERAL MANAGER'S REPORT

ITEM NO: 24

Riverside Public Utilities

Closed Work Order Reports

As of September 30, 2017

Riverside Public Utilities
 Closed Capital Work Order Summary Report - Electric Fund
 September 2017

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

Cable Replacement

1525067	Ward 5 Cable Rejuvenation	7/1/2016	8/3/2017	\$ 449,000	\$ 311,639	\$ 137,361	30.59%
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1) Note on Final Project Cost:

Project was completed successfully under the approved budget. The scope of the project was reduced during construction based on need and to eliminate potential project growth and impacting change orders.

2) Impact to Customer Service:

The cable rejuvenation provides customers with greater reliability.

3) Impact to System Reliability:

The rejuvenation of Ward 5 cables improved the reliability while extending the life of the system.

Line Rebuilds

1607467	Magnolia Ave. and Harrison Street.	9/26/2016	8/3/2017	\$ 230,000	\$ 241,348	\$ (11,348)	-4.93%
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1) Note on Final Project Cost:

Project was completed successfully. City Crews slightly exceeded the project estimated cost limits due to additional work.

2) Impact to Customer Service:

Replacement of the underground switch with a new pad mounted switch has improved system reliability. In addition, will reduce down time for restoring service if an outage is experienced by the customer.

3) Impact to System Reliability:

System reliability has been improved in this area.

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

Major 4/12Kv Conversions

1616413	Plaza Substation on Elizabeth Street	2/25/2016	6/22/2017	\$ 220,000	\$ 251,280	\$ (31,280)	-14.22%
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1) Note on Final Project Cost:

Project successfully completed. Additional scope was added to the project needed to extend the feeder cable to accommodate ongoing 4-12kV projects in the area.

2) Impact to Customer Service:

The Plaza Substation project will help improve safety and efficiency of the 12kV electrical system serving the area.

3) Impact to System Reliability:

The Plaza Substation project improves the reliability and redundancy of RPU's electric system with improved operations.

Major Overhead/Underground Conversions

1202319	Riverside Ave RR Grade Separation	11/15/2013	7/31/2017	\$ 616,200	\$ 703,254	\$ (87,054)	-14.13%
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1) Note on Final Project Cost:

The project is complete. Construction was impacted and additional work was required due to concurrently running 4-12 kV projects in the area. Also, revisions to the storm water pump station affected the conduit layout.

2) Impact to Customer Service:

Improved traffic conditions, safety, and emergency response to the area.

3) Impact to System Reliability:

System reliability was improved due to replacement of aged overhead facilities with underground facilities. Underground facilities will facilitate switching during emergency response events.

Total Electric Fund - Closed Work Orders

\$ 1,515,200 \$ 1,507,521 \$ 7,679

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 Closed Capital Work Order Summary Report - Water Fund
 September 2017

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 Water Work Orders over \$200,000
 to report for the month of September 2017.

Total Water Fund - Closed Work Orders

\$ - \$ - \$ -