

Riverside Public Utilities
Open Capital Work Order Summary Report - Electric Fund
March-22

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		Project Status
					Total	Total			(Based on Proj. Est.)		
					as of 3/31/2022	as of 3/31/2022			% Spent	% Completed	
Open Work Orders/Projects with Budgeted or Actual expenditures > \$200,000											
OVERHEAD											
1503112	Plaza substation - Circuit 450	01/28/19	2,174,000	2,174,000	456,464	2,005,271	168,729	03/29/22	92%	95%	In Construction. RPU Electric Field Crew
1708708	Plaza Sub 4/12kV Conversion Circuit 441	08/12/19	2,038,000	2,038,000	429,355	1,419,019	618,981	03/29/22	70%	85%	In Construction.
1808449	Plaza Substation - Circuit 448	07/09/18	973,000	973,000	17,348	545,842	427,158	09/30/21	56%	95%	Make ready. Completed, pending as-builts. WO used to complete cutover to new ckt 1255
1904777	Plaza Substation 4kV to 12kV	12/22/20	4,450,000	4,450,000	187,877	364,407	4,085,593	03/31/22	8%	4%	In Construction.
Subtotal of OVERHEAD				9,635,000	1,091,045	4,334,539	5,300,461				
UNDERGROUND											
1903658	Electrical Engineering Design Services for Pole/Vault Placement and Reconductor Project	11/25/19	435,000	435,000	12,286	355,983	79,017	03/17/22	82%	75%	In Design.
1619972	Canyon Crest Cable Replacement Area 1F, Phase 3 Project	06/25/21	1,300,000	1,300,000	723,952	888,730	411,270	03/29/22	68%	1%	Construction starting 10/4/21
2009293	Switch Cable Replacement Project Phase I	07/26/21	705,000	705,000	3,871	72,819	632,181	03/07/22	10%	10%	In construction
Subtotal of UNDERGROUND				2,440,000	740,109	1,317,532	1,122,468				
SUBSTATION											
1603079	Springs & Orangecrest Equipment Replacement Project	02/19/16	1,700,000	1,700,000	41,624	1,624,297	75,703	11/11/21	96%	90%	On-hold.
1808341	Substation Utility Storage Facility	06/11/18	407,385	407,385	-	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	27,554	5,042,554	263,446	03/02/22	95%	98%	Completed, pending as-builts and updating standards.
1816163	Substation Automation Upgrade Project	02/26/18	2,027,679	2,027,679	177,901	1,753,474	274,205	03/17/22	86%	75%	In implementation phase.
1822052	Harvey Lynn Substation Site Expansion	10/22/18	2,100,000	2,100,000	-	2,141,978	(41,978)	03/31/21	102%	98%	Completed, pending as-builts.
1826061	Riverside power plants Arc Flash Mitigation	06/11/18	497,000	497,000	-	33,408	463,592	06/10/20	7%	10%	In design.
1826767	Hunter Substation Replacement Project	01/14/19	2,000,000	2,000,000	122,521	1,242,771	757,229	03/17/22	62%	70%	In design.
1822318	Multi Substation Transformer Upgrade/ Recondition	06/25/18	3,082,617	3,082,617	2,330	2,935,248	147,369	01/27/22	95%	95%	Completed, pending as-builts.
1810532	Freeman Switchgear and Transformer Upgrade	11/05/18	5,463,000	5,463,000	27,294	5,103,359	359,641	03/17/22	93%	98%	Completed pending as-builts and updating standards.
1906356	Multi Substation - 69kV Circuit Breakers Replacement	09/23/19	6,500,000	6,500,000	1,401,793	4,767,915	1,732,085	03/17/22	73%	30%	In implementation phase.
1927285	La Colina Switchgear 3&4 Replacement Project	06/10/19	480,000	480,000	53,204	234,353	245,647	02/04/22	49%	80%	On hold.
1910518	Substation Protection Support for Multiple Substations, with Stantec Consulting Services Inc.	11/25/19	480,000	480,000	18,747	176,741	303,259	12/20/21	37%	40%	In implementation phase.
2002530	Multi Substation Transformer Upgrade and Reconditioning	02/24/20	1,883,000	1,883,000	14,266	1,580,089	302,911	02/27/22	84%	90%	In Construction.
2021755	Riverside Substation 15kV Relay Replacement Project	09/14/20	900,000	900,000	128,636	757,118	142,882	03/03/22	84%	80%	In Construction.
2120986	Multiple Substations 15KV Capital Circuit Breaker Replacement Project	05/24/21	490,000	490,000	475,581	475,581	14,419	01/26/22	97%	99%	Completed, pending invoice payment
2123497	Rohr Substation protection system upgrade project	09/13/21	485,000	485,000	107,605	87,666	485,000	02/04/22	18%	0%	On hold.
2202600	Teleprotection Substation Infrastructure Upgrade Project	12/13/21	544,378	544,378	-	-	544,378	12/13/21	0%	0%	In implementation phase.

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Subtotal of SUBSTATION				34,346,059	2,599,055	28,201,267	6,232,458				

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RECURRING/OBLIGATION TO SERVE

1423748	Freeman Substation to Orangecrest Substation	10/22/18	1,265,000	1,265,000	14,532	1,150,609	114,391	03/17/22	91%	85%	In Construction - Installation of new fiber completed. Removal of old fiber in progress.
1503115	Freeman-Kaiser-Harvey Lynn	12/18/15	380,000	380,000	-	406,956	(26,956)	03/27/21	107%	95%	Completed, pending as-builts.
1518525	Jurupa Avenue - New Tract 28987	11/06/15	320,000	320,000	142,344	231,014	88,986	03/03/22	72%	90%	In Construction.
1611216	Citywide Streetlight L.E.D. Conversion	07/25/16	1,150,000	1,150,000	15,525	864,981	285,019	10/14/21	75%	85%	In Design.
1709454	12 kV Electrical Feeders for the California Air Resources Board Project	01/14/19	757,000	757,000	720	748,261	8,739	09/02/21	99%	99%	Completed and pending closure.
1711020	Fiber Management System and Professional Services Project	08/26/19	650,000	650,000	68,086	508,743	141,257	03/17/22	78%	75%	In Construction - Data Migration and training completed. Data needs to be validated by engineering and IT GIS group.
1722321	Norte Vista Sidewalk Improvements Project	02/12/18	888,000	888,000	22	746,086	141,914	01/28/20	84%	95%	Completed, pending as-builts. City is in litigation w/Contractor.
1822537	Smart Grid Communication System Project	07/22/19	459,000	459,000	-	167,284	291,716	05/27/21	36%	40%	On hold.
1917203	Auto Center Reliability Project	04/22/19	250,000	250,000	-	333,930	(83,930)	03/31/21	134%	90%	Reclosers installed. Pending communications work.
1807494	Magnolia Ave St. Improvements Project from Buchanan St to Banbury Dr.	12/09/19	382,000	382,000	22	350,616	31,384	06/04/20	92%	95%	Completed, pending as-builts.
1816079	Magnolia Ave St. Improvements Project from Buchanan St to Banbury Dr.	12/09/19	378,000	378,000	16,529	473,232	(95,232)	10/14/21	125%	95%	Construction completed, pending as-builts.
1826227	Magnolia Ave St. Improvements Project from Buchanan St to Banbury Dr.	12/09/19	602,000	602,000	516,728	828,047	(226,047)	03/17/22	138%	95%	Construction completed, pending as-builts.
1818275	Iowa Avenue Improvements Projects from MLK Blvd to University Ave.	04/13/20	1,430,000	1,430,000	99,506	1,427,409	2,591	10/21/21	100%	85%	In Construction with Public Works.
2115405	Reliability Improvement and Fuse Coordination Project (Circuit	5/10/2021	460,000	460,000	-	12,183	447,817	04/13/21	3%	1%	On hold.
1926828	Streetlight Installation Component of Public Works	9/13/2021	347,000	347,000	3,045	7,929	339,071	03/17/22	2%	0%	Contract awarded, pending execution. Broke ground 2/23/22
Subtotal of RECURRING/OBLIGATION TO SERVE					9,718,000	877,057	8,257,279	1,460,721			

System Automation

1707248	Advanced Metering Infrastructure - Electric	06/12/17	11,180,991	11,180,991	1,728,869	10,233,217	947,774	08/26/19	92%	76%	Full deployment underway. Only remaining work is meter installs.
1619634	Operational Data Management System - Electric	05/09/16	4,907,000	2,474,500	4,995	2,510,050	(35,550)	08/19/21	101%	100%	Completed.
1911437	Citywide Geographic Information System Tech. Upgrade Project	12/10/18	1,206,521	480,000	-	-	480,000	11/07/18	1%	1%	Board approval 12/10/18.
1916742	Phase 1 LED Conversion	06/24/19	8,560,000	8,872,572	12,398	4,118,630	4,753,942	03/17/22	46%	15%	In Design / Contract Admin. Contractor to start in May
1718078	Streetlight Replacement Project- Phase 3	07/22/19	1,849,000	1,849,000	287,990	1,122,039	726,961	03/17/22	61%	60%	In Construction.
2208782	Land mobile radio infrastructure upgrade project	03/14/22	2,349,719	2,349,719	-	-	2,349,719		0%	0%	In Design
Subtotal of SYSTEM AUTOMATION					27,206,782	2,034,252	17,983,937	9,222,845			

OTHER PROJECT

1104202	CIS Replacement	06/01/12	9,200,000	8,859,000	16,985	8,833,938	25,062	06/24/19	100%	95%	In implementation phase (in progress).
2119615	Underground conduit installation (Phase I)	05/10/21	669,000	669,000	361	1,695	667,305	07/22/21	0%	90%	In construction with Public Works.
Subtotal of OTHER PROJECT					9,528,000	17,346	8,835,634	692,366			

RTRP

050009/01	Riverside Transmission Reliability Project (RTRP) (3)	01/20/06	216,515,521	214,105,921	6,644,222	58,135,861	155,970,060	09/22/20	27%	20%	Phase I construction (69kV) in progress, remaining project pieces in Planning and Design stages.
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Subtotal of RTRP				214,105,921	6,644,222	58,135,861	155,970,060				
GRAND TOTAL ELECTRIC FUND - Open Work Orders				306,979,762	14,003,086	127,066,048	180,001,380				

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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.
- (3) Work includes WO 642975, Subwo's 2001119, 2006768, 2016660, 2026813, 2105854, 2111094, 2117630.
- Board Memo 08-24-20 WO 642975 increase of \$ 144,910,000, approved by Council 2021, for a total of 216,515,521.
- Board Approval 08-26-19 WO 2001119, estimate of \$ 676,850
- Board Approval 11-25-19 WO 2006768, estimate of \$ 4,109,600
- Board Approval 01-27-20 WO 2016660, estimate of \$1,409,904
- Board Approval 06-08-20 WO 2026813, estimate of \$ 840,400
- Board Approval 10-26-20 WO 2105854, estimate of \$ 10,737,000
- Board Approval 02-22-21 WO 2111094, estimate of \$ 693,739
- Board Approval 05-10-21 WO 2117630, estimate of \$ 995,016.