

**CIRCUITS 1204, 1281, 1289, AND 1313 FUSE
COORDINATION PROJECT – WORK ORDER NOS.
2602138, 2601169, 2601151, AND 2601181, FOR A
TOTAL CAPITAL EXPENDITURE OF \$229,088**

Energy Delivery

Board of Public Utilities
October 27, 2025

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BACKGROUND

1. Electric System Planning staff performed a reliability study specifically with a focus on reducing outage time
2. The study recommends the replacement of oversized fuses through a five-year program
3. The Fuse Replacement Program (FRP) is a reliability initiative focused on improving protection coordination across RPU's distribution circuit



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BACKGROUND

1. FRP targets replacement of fuses on ten (10) critical circuits per year, totaling fifty (50) circuits over five years
2. Priority will be given to circuits:
 - a. Located in High Fire Threat Districts (HFTDs)
 - b. With a high number of historical fault events, and
 - c. Known to have persistent protection coordination issues



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DISCUSSION

1. Electric System Planning staff identified circuits 1204, 1281, 1289, and 1313 as part of the fuse replacement program (FRP)
2. Reduction of fuse sizes and coordination with the substation breaker on circuits will reduce outages and the number of customers impacted
3. Maintain healthy reliability indices such as System Average Interruption Duration Index (SAIDI) and System Average Interruption Frequency Index (SAIFI)
4. Electric service disruptions will be coordinated to minimize impact to customers



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SCOPE OF WORK

Fuse replacement removal and installation of two hundred eighty-two (282) cutouts with fuses on existing and new locations



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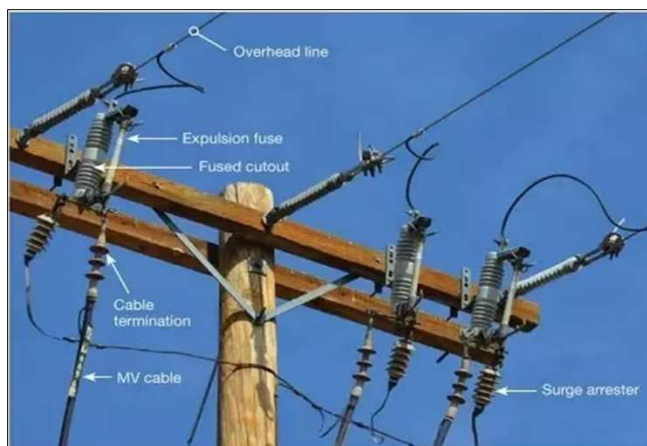
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BENEFITS

The purpose for lower amperage fuses and substation coordination is to:

- Isolate faults downstream from the fused cutout
- Keep customers energized upstream
- Protect overhead lines from conductor damage
- Reduce outage duration and number of customers affected



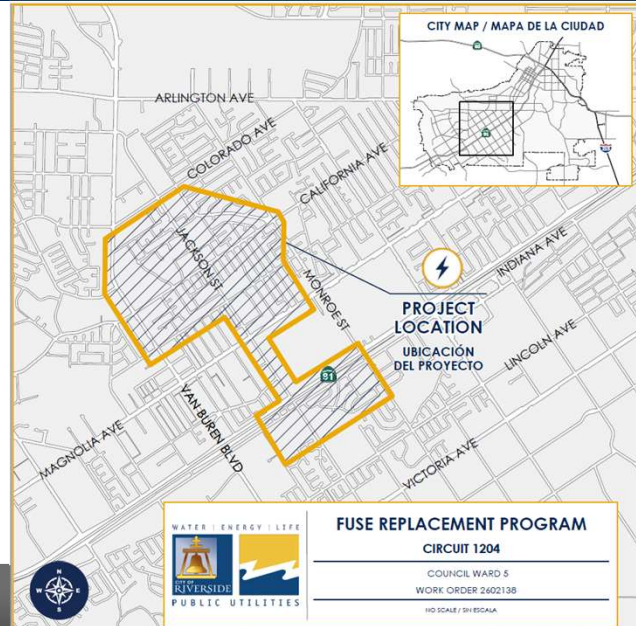
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CIRCUIT 1204 PROJECT LOCATION

1. The project area is in the Arlington, Ramona, and Presidential Park neighborhoods, south of Colorado Avenue, north of Lincoln Avenue, between Van Buren Boulevard and Madison Street
2. Anticipated 4 weeks of work starting in October 2025



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CIRCUIT 1204 PROJECT BREAKDOWN

Work Order No. 2602138

Work Type	Performed By:	Amount (\$)		% of Total:
Design and Inspection	RPU Engineering and Operations	\$6,858.42		13%
Electrical Work	RPU Field Forces	Labor	\$20,249.12	\$44,455.74 87%
		Equipment	\$4,913.08	
		Materials	\$19,293.54	
Work Order Total:		\$51,314		100%



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CIRCUIT 1281 PROJECT LOCATION

The project area is in the La Sierra neighborhoods, south of Santa Ana River Wildlife Area, north of Gramercy Place, between the City Boundaries with Norco and Mitchell Avenue



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CIRCUIT 1281 PROJECT BREAKDOWN

Work Order No. 2601169

Work Type	Performed By:	Amount (\$)			% of Total:
Design and Inspection	RPU Engineering and Operations	\$7,552.26			12%
Electrical Work	RPU Field Forces	Labor	\$13,355.20	\$54,692.52	88%
		Equipment	\$3,719.76		
		Materials	\$37,617.56		
Work Order Total:	\$62,245			100%	
Anticipated Start Date:	November 2025				
Anticipated Duration:	4 weeks				



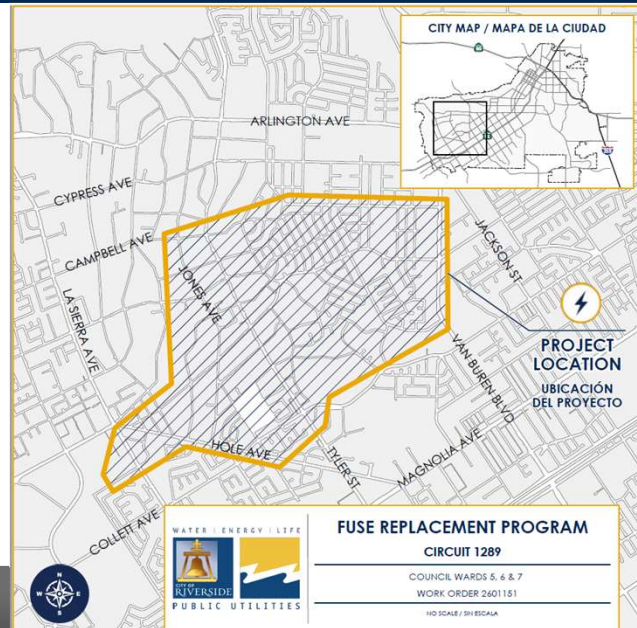
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CIRCUIT 1289 PROJECT LOCATION

The project area is in the La Sierra and Arlanza neighborhoods, south of Campbell Avenue, north of Collett Avenue, between La Sierra Avenue and Van Buren Boulevard



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CIRCUIT 1289 PROJECT BREAKDOWN

Work Order No. 2601151

Work Type	Performed By:	Amount (\$)			% of Total:
Design and Inspection	RPU Engineering and Operations	\$7,612.60			12%
Electrical Work	RPU Field Forces	Labor	\$27,048.98	\$57,626.14	88%
		Equipment	\$4,748.13		
		Materials	\$25,829.03		
Work Order Total:	\$65,239			100%	
Anticipated Start Date:	December 2025				
Anticipated Duration:	4 weeks				



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CIRCUIT 1313 PROJECT LOCATION

The project area is in the Eastside and Hunter Industrial Park neighborhoods, south of Spruce Street, north of Tenth Street and Linden Street, between 91 freeway and Chicago Avenue



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CIRCUIT 1313 PROJECT BREAKDOWN

Work Order No. 2601181

Work Type	Performed By:	Amount (\$)			% of Total:
Design and Inspection	RPU Engineering and Operations	\$7,099.11			14%
Electrical Work	RPU Field Forces	Labor	\$19,741.24	\$43,190.98	77%
		Equipment	\$4,825.17		
		Materials	\$18,624.57		
Work Order Total:	\$50,290				100%
Anticipated Start Date:	January 2026				
Anticipated Duration:	4 weeks				



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RECOMMENDATIONS

That the Board of Public Utilities approve Work Order No. 2602138 for \$51,314, Work Order No. 2601169 for \$62,245, Work Order No. 2601151 for \$65,239, and Work Order No. 2601181 for \$50,290, for a total capital expenditure of \$229,088 for the Circuit 1204, Circuit 1281, Circuit 1289, and Circuit 1313 fuse coordination project.



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