



THE GIBRALTAR DRIVE CABLE REPLACEMENT PROJECT

Energy Delivery

Board of Public Utilities
August 8, 2022

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BACKGROUND

1. HMPE Cable Replacement Program formally established in 2010
2. Proactive replacement of aged Cable-In-Conduit (CIC) systems in anticipation of high failure rate of cables
3. CIC account for 8% of total cable, and responsible for 70% of failures
4. Project identified during a 4kV to 12kV Conversion
5. HMPE insulated cables and CIC systems exist in both 4kV and 12kV service areas
6. The Electric System Master Plan (ESMP) recommends the planned replacement of obsolete CIC type infrastructure to improve system capacity and reliability



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PROJECT LOCATION

1. Gibraltar Drive Cable Replacement Project area is surrounded by Pachappa Drive, Pachappa Hill, and the 91 Freeway
2. The project will upgrade facilities to approximately 51 customers
3. Electric service disruptions will be coordinated to minimize impact to customers



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SCOPE OF WORK

1. Replace and upgrade conduits and cable, transformers and related facilities
2. Install 4,869 trench feet of conduit
3. Install 2,060 circuit feet of single phase primary underground cable
4. Ten (10) weeks to complete work



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BENEFITS

1. Reduce project cost by a factor of two (2) with planned replacement compared to reactive replacement
2. Improves system operations and response time to outages
3. Increases electric system reliability and safety
4. Improves electric services and power quality to customers



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BID RESULTS

VENDORS	CITY LOCATION	BID AMOUNT	RANK
E. E. Electric, Inc.	Jurupa Valley, CA	\$348,754.25	1st
Elecnor Belco Electric, Inc.	Chino, CA	\$515,901.00	2 nd
Doty Bros. Equipment Company	Norwalk, CA	\$848,097.00	3 rd
Hot Line Construction, Inc.	Brentwood, CA	\$585,673.00	Non-responsive
Henkels & McCoy, Inc.	Pomona, CA	\$790,658.93	Non-responsive
<i>Engineer's Estimate</i>		\$481,238.31	



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PROJECT BREAKDOWN

Project and Fiscal Breakdown

Work Type	Performed By:	Amount (\$)
Design	RPU Engineering	\$73,472.31
Construction Management and Inspection	RPU Engineering and Operations	\$24,124.31
Electrical Work	RPU Field Forces	\$27,773.70
Civil Construction (Contract)	E. E. Electric, Inc.	\$348,754.25
Civil Construction Contingency – Contract (10%)		\$34,875.43
Work Order Total:		\$509,000.00
Anticipated Start Date:		September 2022
Anticipated Duration:		10 weeks



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STRATEGIC PLAN ALIGNMENT



Strategic Priority No. 6 Infrastructure, Mobility and Connectivity

Goal No. 6.2 – Maintain, protect, and improve assets and infrastructure within the City's built environment to ensure and enhance reliability, resiliency, sustainability, and facilitate connectivity.

Cross-Cutting Threads



Community Trust



Fiscal Responsibility



Sustainability & Resiliency



Equity



Innovation



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RECOMMENDATIONS

That the Board of Public Utilities:

1. Award Bid No. RPU-7916 for the Gibraltar Dr. Cable Replacement Project to E. E. Electric, Inc. of Jurupa Valley, California, in the amount of \$348,754.25;
2. Approve the capital expenditure for Work Order No. 1910967 in the amount of \$509,000.00 which includes all design, construction, construction support, contract administration, inspection, and construction change order authority costs for the Gibraltar Dr. Cable Replacement Project; and
3. Authorize the City Manager, or designee, to execute any documents necessary to effectuate the project described herein, as well as the ability to make minor non-substantive changes in alignment with all purchasing policies.

