



*Arts & Innovation*

## ***BROCKTON AND PALM AVE RAILROAD CROSSINGS WATER PIPELINE REPLACEMENT PROJECT***

***Board of Public Utilities  
August 22, 2016***

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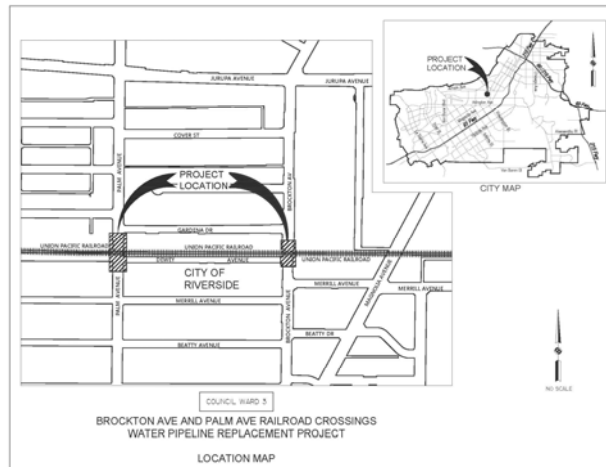
## **Background**

- Replace 1920s vintage pipelines crossing under UPRR on Brockton and Palm
- Leaking segment in Brockton already isolated and abandoned
  - Important for circulation and fire flow

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## Project Map



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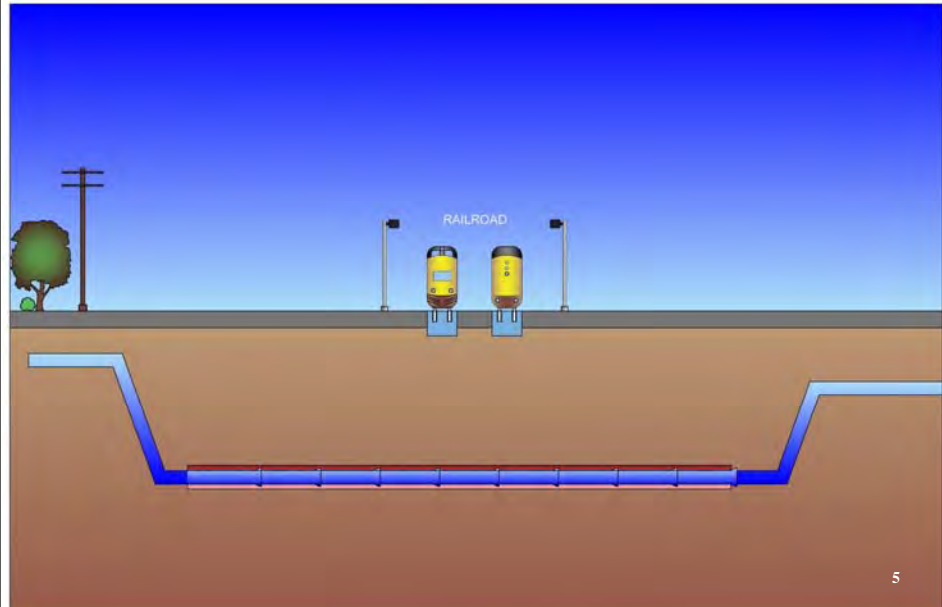
## Project Description

- 335 linear feet of 12-inch ductile iron pipeline
- 50 linear feet of 8-inch ductile iron pipeline
- 200 linear feet of 24-inch steel casing
- Paving

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## Typical Bore and Jack Process



## Bid Results

	<u>COMPANY</u>	<u>CITY LOCATION</u>	<u>BID TOTAL</u>
1.	<b>C.P. Construction Co., Inc.</b>	<b>Ontario, CA</b>	<b>\$461,450.00</b>
2.	Hemet Mfg. Co., Inc. dba Genesis Construction	Hemet, CA	\$644,056.00
3.	PUB Construction, Inc.	Diamond Bar, CA	\$816,750.00
4.	Irwin Industries, Inc.*	Long Beach, CA	\$1,275,524.74

\* Non-Responsive Bid

Engineer's Construction Cost Estimate \$432,810

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## Project Breakdown

Engineering Performed By:	RPU Engineering staff
Construction Performed By:	C.P. Construction Co., Inc.
Anticipated Start Date:	September 2016
Anticipated Duration:	3 months
Coordination Required With:	<ul style="list-style-type: none"> <li>▪ RPU Field Forces</li> <li>▪ Public Works</li> <li>▪ Union Pacific Railroad</li> </ul>
Reimbursements:	None

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## Project Budget Breakdown

Description	Cost	Percent of Total
Design	\$45,405	6.6%
Construction	\$461,450	67.1%
Construction Contingencies	\$46,145	6.7%
City Forces Construction Support	\$80,000	11.6%
Construction Management, Flagmen and Engineering Support	\$25,000	3.6%
Inspection and Geotechnical Testing	\$30,000	4.4%
<b>Total</b>	<b>\$688,000</b>	<b>100.00%</b>

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# Recommendations

That the Board of Public Utilities:

1. Award a contract for the construction of the Brockton Avenue and Palm Avenue Railroad Crossings Water Pipeline Replacement Project – Bid No. RPU-7407 to the lowest responsive and responsible bidder, C.P. Construction Co., Inc. of Ontario, California in the amount of \$461,450; and
2. Approve the capital expenditure of \$688,000 for Work Order No. 1518913, which includes all design, construction, paving, contract administration, inspection and construction contingency costs for the Brockton Avenue and Palm Avenue Railroad Crossings Water Pipeline Replacement Project.

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