

## Planned Routine Capital Projects Over \$500,000 for Electric and Water For FY 2017/18

Board of Public Utilities  
July 10, 2017

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## OUTLINE

1. Electric routine capital projects
2. Water routine capital projects

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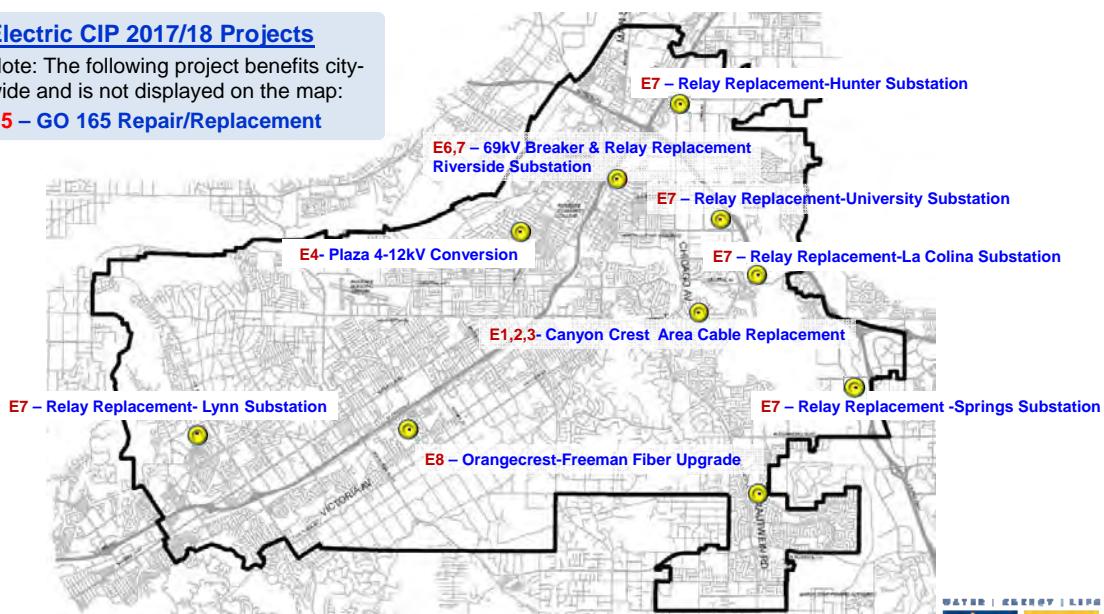
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# Electric Utility



## Electric CIP 2017/18 Projects

Note: The following project benefits city-wide and is not displayed on the map:  
**E5 – GO 165 Repair/Replacement**



FY 2017/18 Proposed CIP Budget – Electric Utility

## Aging Infrastructure Replacement

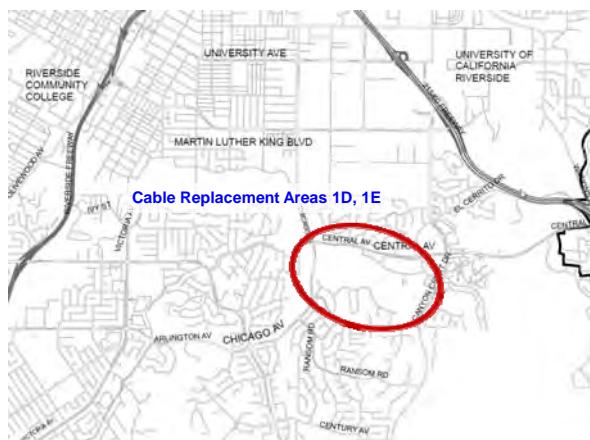


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## FY 17-18 Projects Cable Replacement – Project 1



- Cable replacement – Canyon Crest Area 1D & 1E
- Estimated Project Cost - **\$2,200,000**
- Ward – 2
- Map location – **E1**

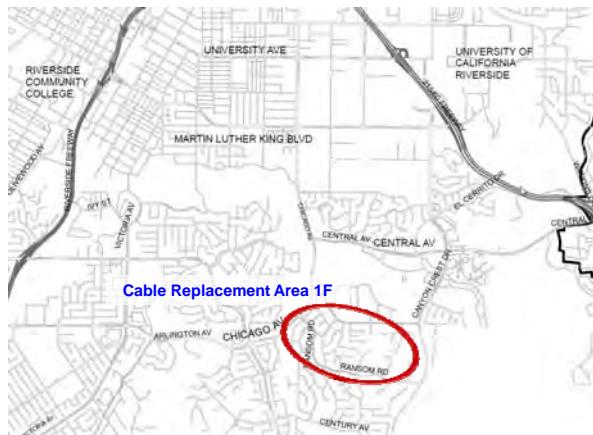
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## FY 17-18 Projects

### Cable Replacement – Project 2



- Cable Replacement – Canyon Crest Area 1F
- Estimated Project Cost - **\$2,700,000**
- Ward – 2
- Map location – **E2**

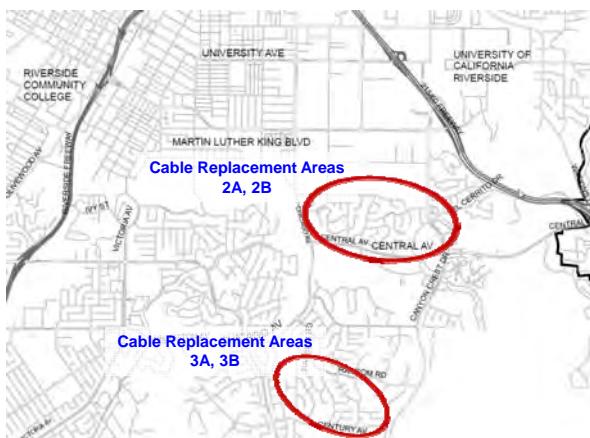
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## FY 17-18 Projects

### Cable Replacement – Project 3



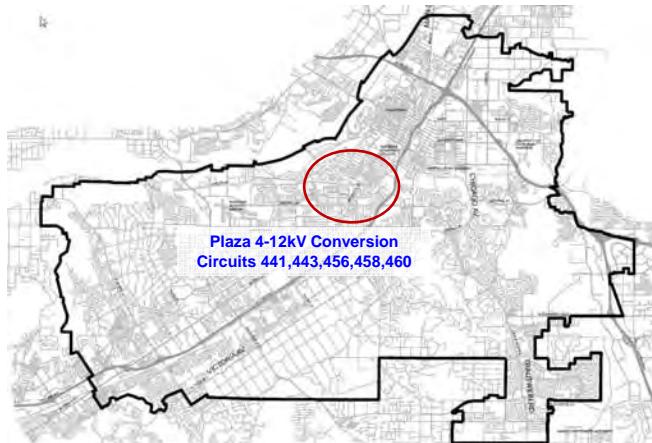
- Cable Replacement – Canyon Crest Area 2A, 2B, 3A, 3B
- Estimated Project Cost - **\$2,900,000**
- Ward – 2
- Map location – **E3**

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## FY 17-18 Projects 4-12kV Conversion



- Plaza 4-12kV Conversion – Circuits 441, 443, 456, 458, 460.
- Estimated Project Cost - **\$5,400,000**
- Ward –1, 3
- Map location – **E4**



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## FY 17-18 Projects G.O. 165 Repair/Replacement



- Replacement of 200 poles and 6 underground structures as a result of intrusive inspections.
- Estimated Project Cost - **\$3,900,000**
- Ward – All
- Map location – **E5**



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## Substation Upgrades/Additions

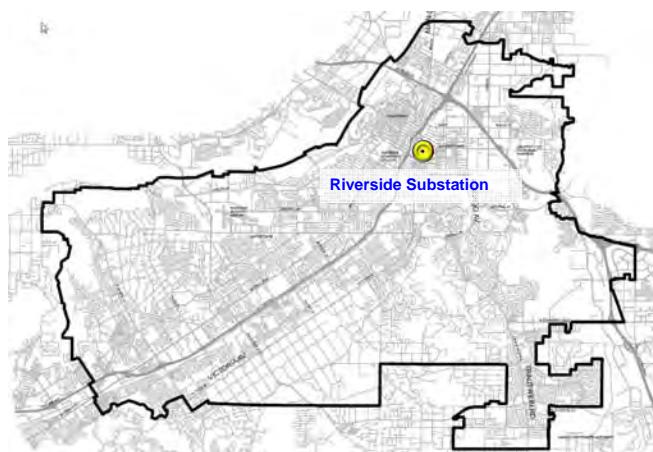


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## FY 17-18 Projects Substation Circuit Breaker Replacement



- 69kV Circuit Breaker Replacement – 9
- Estimated Project Cost - **\$2,300,000**
- Ward – 1, 2
- Map location – **E6**
- **2 year project**

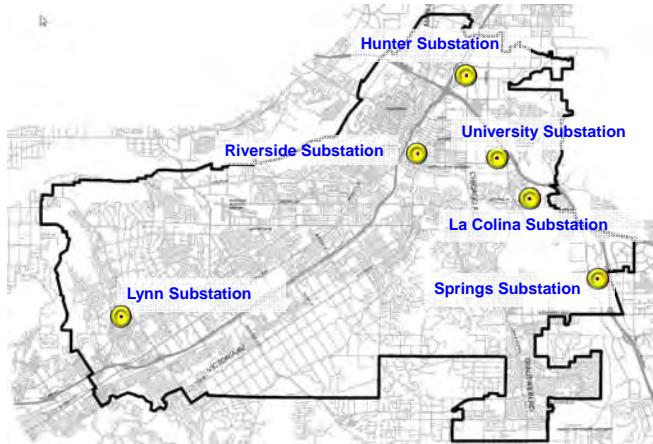


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## FY 17-18 Projects

### Substation Relay Replacement



- Sub-transmission Relay Replacement at 6 Substations
- Estimated Project Cost - \$2,600,000
- Ward – 1,2,7
- Map location – **E7**
- 2 year project



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## City-Wide Communications



Additional Fiber Paths

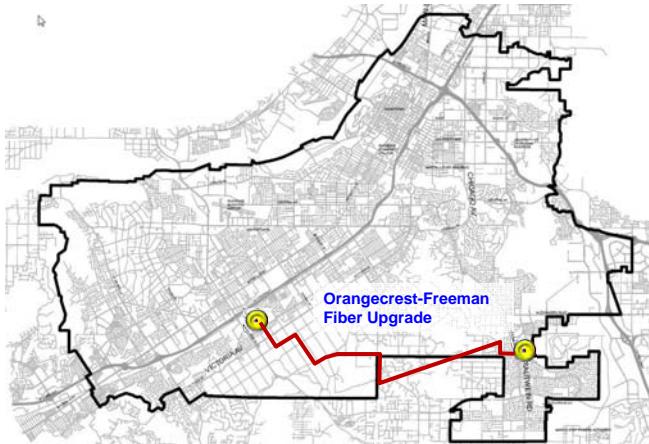


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## FY 17-18 Projects Fiber Upgrades



- Orangecrest-Freeman fiber upgrade.
- Estimated Project Cost - \$1,300,000
- Ward – 4,5
- Map location – E8

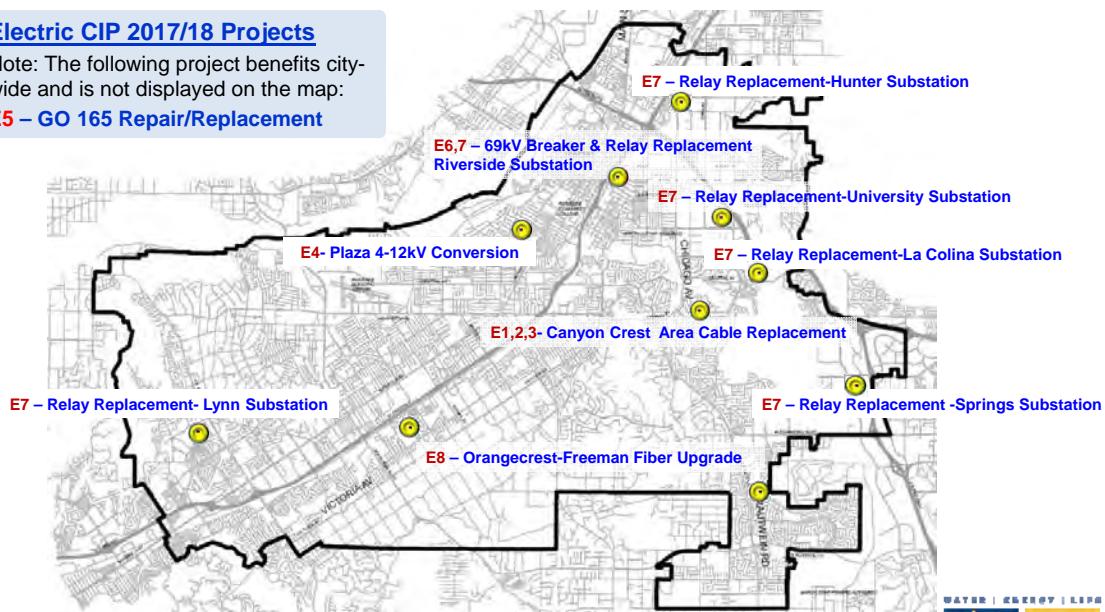


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### Electric CIP 2017/18 Projects

Note: The following project benefits city-wide and is not displayed on the map:  
**E5 – GO 165 Repair/Replacement**



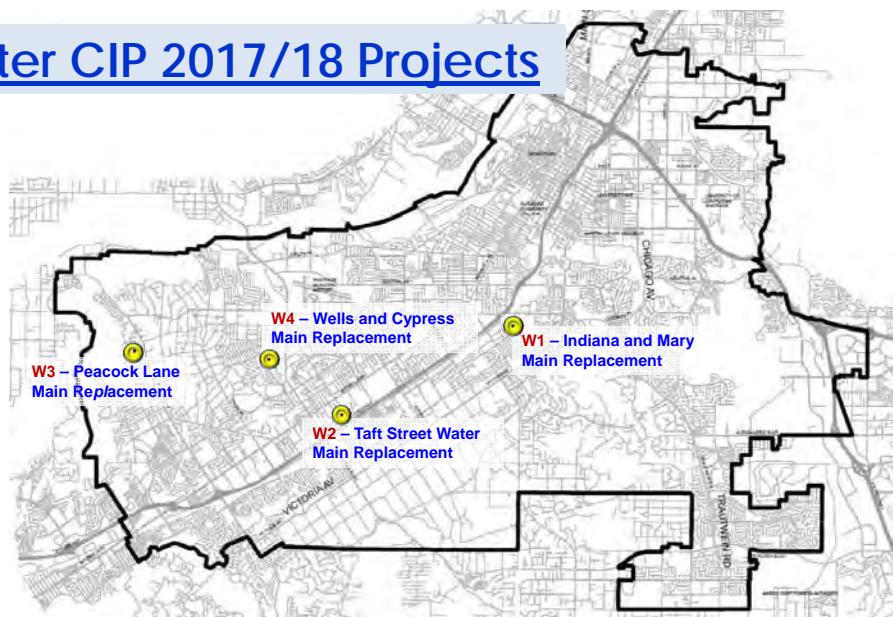
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# Water Utility

## Water CIP 2017/18 Projects



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FY 2017/18 Proposed CIP Budget – Water Utility

## Main Replacement Projects



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## FY 2016/17 Routine Main Replacement Projects

Water Project Name	Status	Budget (Millions)	Length (Miles)	Percent of Planned
Arroyo Drive	In Construction (Contractor)	\$2.0	1.3	22%
Brockton and Palm	Completed	\$0.7	0.1	2%
Tenth and Eleventh	In Construction (City Forces)	\$1.7	0.8	14%
Ambs Drive	In Construction (City Forces)	\$1.5	1.0	17%
Magnolia and Ramona	In Construction (Contractor)	\$2.7	1.5	26%
Colorado and Toyon	In Construction (Contractor)	\$3.0	1.7	29%
<b>FY 2016/17 Total</b>		<b>\$11.6</b>	<b>6.4</b>	<b>110%</b>
<i>Planned FY 2016/17</i>		<i>\$7.6</i>	<i>5.8</i>	

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## FY 2017/18 Routine Main Replacement Projects

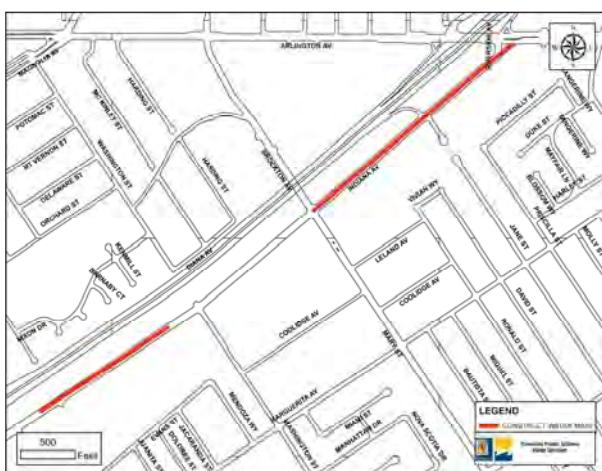
No.	Water Project Name	Status	Budget (Millions)	Length (Miles)	Percent of Planned
W1	Indiana and Mary	Board Authorization (7/10/17)	\$2.0	0.7	27%
	Mission Inn Pipeline Rezoning (Nonroutine Main Replacement Project)	In Design (FY 2017/18 Construction)	\$2.7	1.0	38%
W2	Taft Street	In Planning*	\$2.2	1.2	46%
W3	Peacock Lane	In Planning*	\$1.4	0.6	23%
W4	Wells and Cypress	In Planning*	\$7.7	3.7	142%
	<b>FY 2017/18 Total</b>		<b>\$16.0</b>	<b>7.2</b>	<b>276%</b>
	<i>Planned FY 2017/18</i>		<i>\$3.4</i>	<i>2.6</i>	

\*Project to be constructed in FY 2017/18 or FY 2018/19 pending funding availability.



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## FY 2017/18 Projects Indiana and Mary Water Main Replacement



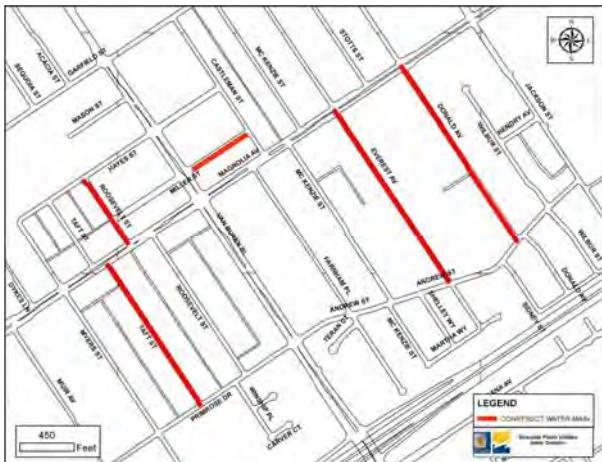
- Replace old and undersized cast iron/asbestos cement mains and install ~ 3,500 LF of new ductile iron water mains for water system reliability.
- Estimated Project Cost – **\$2,000,000**
- Wards – 3 & 4
- Map location – **W1**



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## FY 2017/18 Projects

### Taft Street Water Main Replacement



- Replace old and undersized cast iron/steel mains and build ~ 6,200 LF of new ductile iron water mains for water system reliability.
- Estimated Project Cost – **\$2,200,000**
- Ward – 5
- Map location – **W2**

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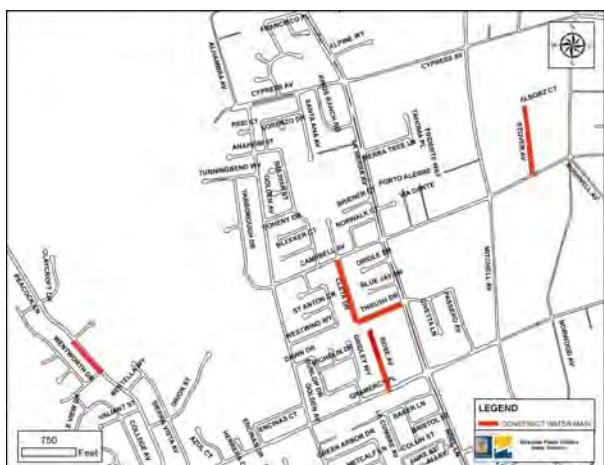
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## FY 2017/18 Projects

### Peacock Lane Water Main Replacement



- Replace old and undersized asbestos cement/steel mains and build ~ 3,300 LF of new ductile iron water mains for water system reliability.
- Estimated Project Cost – **\$1,400,000**
- Ward – 7
- Map location – **W3**

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# FY 2017/18 Projects

## Wells and Cypress Street Water Main Replacement



- Replace old and undersized asbestos cement/cast iron/steel mains and build ~ 19,300 LF of new ductile iron water mains for water system reliability.
- Estimated Project Cost – **\$7,700,000**
- Ward – 6
- Map location – **W4**

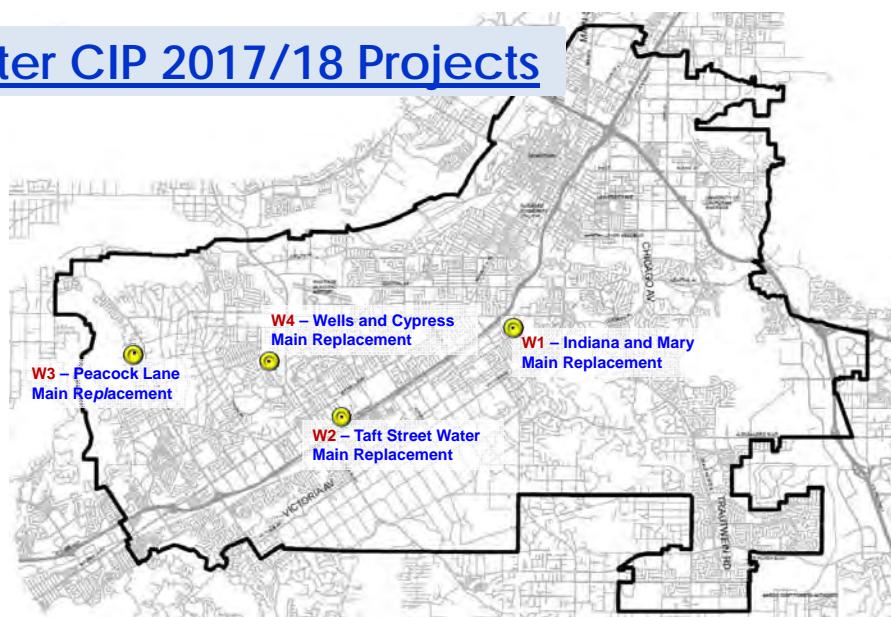
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## Water CIP 2017/18 Projects



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## Recommendation

That the Riverside Public Utilities Board receive this report.

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