

WATER SERVICE LATERAL REPLACEMENT PROGRAM

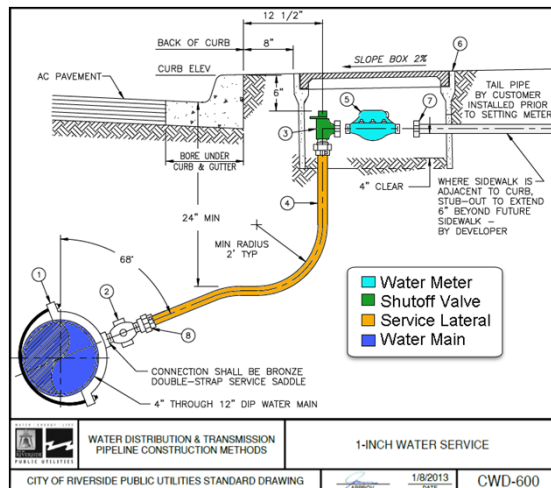
Riverside Public Utilities – Water Division

Board of Public Utilities
January 13, 2020

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BACKGROUND

1. Water is delivered to customers via a service lateral
2. The majority of service laterals are made of copper and range in size from $\frac{3}{4}$ to 2 inches
3. The average length of a service lateral is ~10 ft.



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BACKGROUND



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BACKGROUND

1. Service laterals fail due to age, quality of material, and corrosion
2. Life expectancy is approximately 30-40 years
3. The same service lateral may fail at multiple locations and at different times.



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BACKGROUND

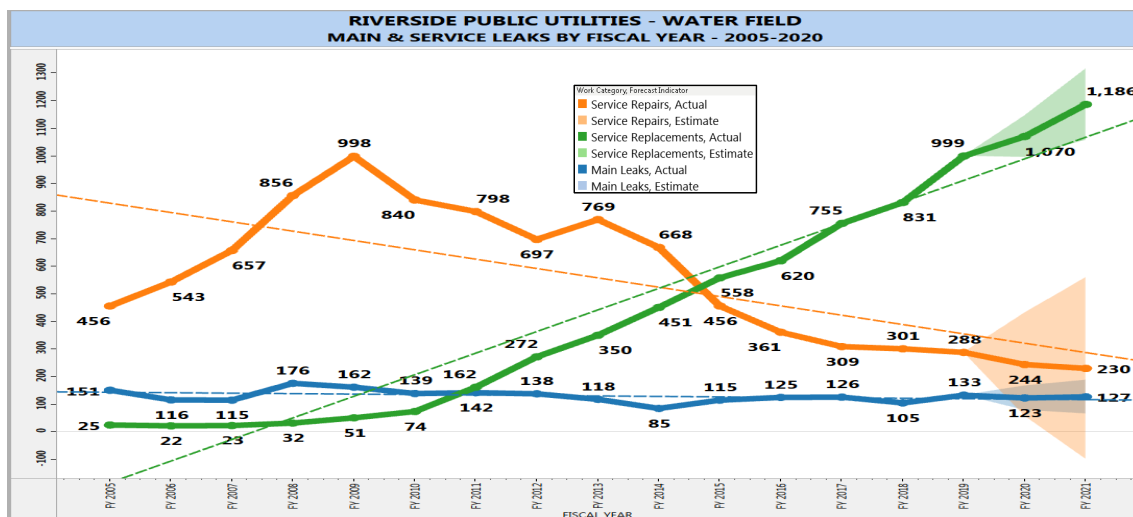
1. Service Lateral repairs/replacement have been increasing and are forecasted to continue that trend
2. In 2012, an operational decision was made to replace the entire service lateral
3. Saved time and money by reducing the probability of returning to make additional repairs
4. Reduced inconvenience to customers
5. Cost to replace an entire service lateral is nominal



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BACKGROUND



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DISCUSSION

Data shows that service lateral failures typically happen under the following scenarios

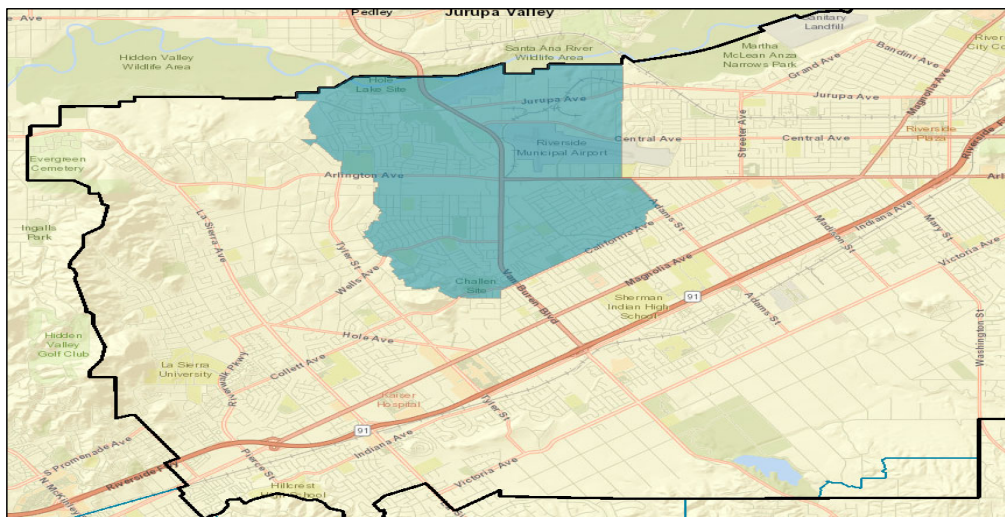
1. Improper meter to service lateral (SL) sizing;
 - A. Improper sizing accelerates wear on pipe materials
 - B. Average lifespan with 3/4" SL to 5/8" meter – 21.3 years
 - C. Average lifespan with 3/4" SL to 3/4" meter – 8.9 years
2. Service lateral is between 30 and 40 years old
3. The neighborhood is experiencing a high frequency of service lateral failures.



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DISCUSSION



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DISCUSSION

Staff has developed a proactive approach to address the increasing number of service leaks and to reduce costs

1. Target neighborhoods prone to service lateral leaks
2. Replace service laterals on a planned basis
3. City field forces can replace 5 service laterals when planned compared to 1 in an emergency
4. Reducing emergency repairs will reduce overtime costs



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RECOMMENDATION

That the Board of Public Utilities approve the capital expenditure for Work Order No. 2016734 in the amount of \$750,000 for the FY2019/20 Water Service Lateral Replacement Program.



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