OLD COUNTY ROAD IMPROVEMENTS

PROJECT BACKGROUND
Old County Road spans the entire length of Zone 1 and has approximately 5,000 LF of various 4", 6" and 8" cast iron pipe (CIP) and asbestos cement (AC) water mains installed in the 1930's/1940's located on the east side of the road. In addition, approximately 3,100 LF of 10" and 12" polyvinyl chloride (PVC) and polyethylene (PE) water mains in steel casings were installed in the late 1980's and parallel the CIP and AC on the left side of the road. There are approximately 111 service connections, 15 fire service connections, and 11 fire hydrants along the CIP/AC water mains. Hydraulic analysis indicates the larger parallel water mains (10"-12") provide no significant fire flow benefit to the zone. This project abandons 6,475 LF of various sized parallel water main and replaces all of the 6"-8" CIP/AC with 8" PVC (3,700 LF) and 1,800 LF of 20" CC with 20" PVC from Bragato Road to Marine View Avenue. Distribution System Analysis No. 080

PROPOSED IMPROVEMENTS
Abandon 6,475 LF of various size/type water mains
Replace 3,700 LF of 6"-8" CIP/AC with 8" PVC
Replace 1,800 LF of 20" CC with 20" PVC
Replace 11 fire hydrant assemblies
Replace 111 service connections
Replace 15 fire service connections

PROJECT BENEFITS
The Old County Road Improvements replaces old and aging water main, reduces maintenance, and improves fire flows at various locations along Old County Road to as much as 2,500 gpm.

EXPENDITURE SCHEDULE (2015 DOLLARS)

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Planning, Design, CM</td>
<td>-----</td>
<td>-----</td>
<td>-----</td>
<td>-----</td>
<td>-----</td>
<td>-----</td>
</tr>
<tr>
<td>Construction</td>
<td>-----</td>
<td>-----</td>
<td>-----</td>
<td>-----</td>
<td>-----</td>
<td>-----</td>
</tr>
<tr>
<td>Contingency</td>
<td>-----</td>
<td>-----</td>
<td>-----</td>
<td>-----</td>
<td>-----</td>
<td>-----</td>
</tr>
<tr>
<td>Total Cost</td>
<td>-----</td>
<td>-----</td>
<td>-----</td>
<td>-----</td>
<td>-----</td>
<td>-----</td>
</tr>
</tbody>
</table>

CAPITAL IMPROVEMENT PROGRAM - 2015 UPDATE
OLD COUNTY ROAD IMPROVEMENTS
PROJECT 15-75
F STREET IMPROVEMENTS

PROJECT BACKGROUND
F Street is located in the southern portion of Zone 1 and crosses El Camino Real where it dead ends before the railroad tracks. A short 150 LF 6" polyvinylchloride (PVC) water main provides service to one business and a hydrant on F Street. Directly to the south of F Street, the District has a 350 LF 10" concrete (CC) water main located in an easement on the CVS property and is 1 of 5 railroad crossings connecting Old County Road with El Camino Real. The 10" CC was installed in 1963 and is currently out of service due to main break with the exact location of the break unknown. This project relocates the existing 10" CC out of the CVS easement to F Street and installs a new 400 LF 8" PVC. The existing 10" CC will be used as a casing for the new 8" PVC underneath the tracks. Hydraulic analysis indicates this particular crossing does not provide significant fire flow benefit however it does provide other benefits including system redundancy and relocation of a water main out of an easement onto public right-of-way. Distribution System Analysis No. 084

PROPOSED IMPROVEMENTS
Install 400 LF of new 8" DIP
Replace 1 fire hydrant assembly
Replace 2 service connections

PROJECT BENEFITS
The F Street Improvements replaces old and aging water main, relocates a damaged water main out of the CVS property to public right-of-way, and provides system redundancy.
RALSTON AVENUE IMPROVEMENTS

PROJECT BACKGROUND
The 500 LF 6" cast iron (CIP) water main along Ralston Avenue between Old County Road and Elmer Street was identified by maintenance personnel as a preferred capital improvement project. The CIP was installed in 1957 and it is probable this water main could experience a significant break in the future. Given the location on the highly traveled Ralston Avenue, a main break would not be ideal and would cause major traffic disruptions. This project replaces the existing 6" CIP with a new 8" polyvinylchloride (PVC) in addition to 5 service replacements and 1 fire hydrant. Traffic control on Ralston Avenue will be challenging where night time work may be a possibility to minimize traffic disruptions.

PROPOSED IMPROVEMENTS
Replace 500 LF of 6" CIP with 8" PVC
Replace 1 fire hydrant assembly
Replace 5 service connections

PROJECT BENEFITS
The Ralston Avenue Improvements replaces an old and aging water main capable of creating major traffic disruptions in the event of a main break, and increases the water main to the minimum 8-inches set by the District.