

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" polyvinylchloride (PVC) and polyethylene (PE) water mains in steel casings were installed in the late 1980s 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.

3		EXPENDITURE SCHEDULE (2015 DOLLARS)					
7		2015-2016	2016-2017	2017-2018	2018-2019	2019-2020	Future
	Planning, Design, CM						
	Construction						
	Contingency						
J.	Total Cost						



Pakpour Consulting Group, Inc. 5776 Stoneridge Mall Road, Suite 320 Pleasanton, CA 94588 925.224.7717 Fax 925.224.7726

JOB No.	10012.07		
DATE	05/28/15		
SCALE	AS NOTED		
DRAWN:	BY BL		
	CKD JP		

MID-PENINSULA WATER DISTRICT SAN MATEO COUNTY, CALIFORNIA 3 DAIRY LANE BELMONT, CA 94002

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

SHEET	х
OF	Х

791 _ 1825 REPLACE 400 LF OF 6" PVC / 10" CC WITH 400 LF 8" PVC. FROM N1001X TO N1703 N1703 J-100 N1007X **ABANDON EXIST 350 LF** N1001X OF 10" CC. SCALE: 1" = 200' JOB No. 10012.07 Pakpour Consulting Group, Inc.

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.

Pakpour Consulting Group, Inc. 5776 Stoneridge Mall Road, Suite 320 Pleasanton, CA 94588 925.224.7717 Fax 925.224.7726 www.p.gcgngr.com

ng Group, Inc. I Road, Suite 320 B No. 10012.07

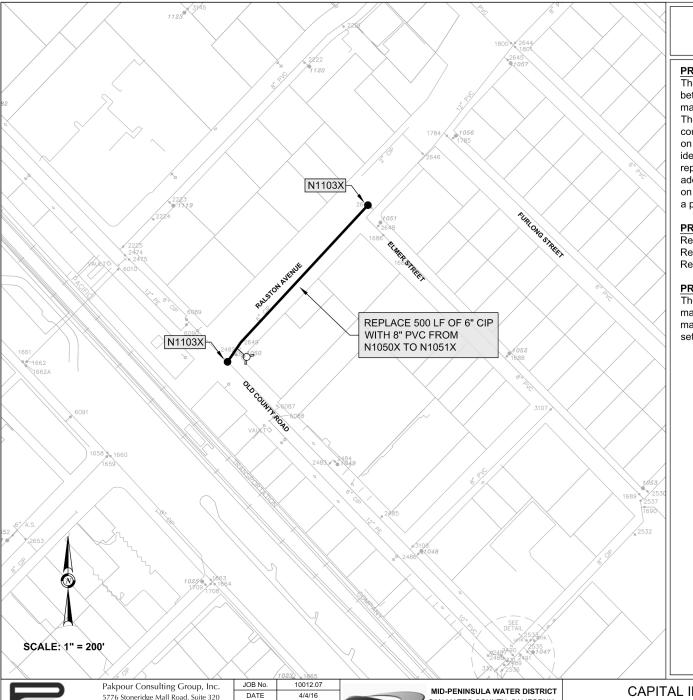
B Road, Suite 320 B A SCALE AS NOTED

DRAWN: BY BL

CKD JP



MID-PENINSULA WATER DISTRICT SAN MATEO COUNTY, CALIFORNIA 3 DAIRY LANE BELMONT, CA 94002 CAPITAL IMPROVEMENT PROGRAM F STREET IMPROVEMENTS PROJECT 15-79



SCALE

DRAWN:

AS NOTED

BY BL

CKD___JP

SAN MATEO COUNTY, CALIFORNIA

3 DAIRY LANE

BELMONT, CA 94002

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 1937 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.

CAPITAL IMPROVEMENT PROGRAM RALSTON AVENUE IMPROVEMENTS PROJECT 15-82

Pleasanton, CA 94588

www.pcgengr.com

925.224.7717 Fax 925.224.7726