

Sacramento County Water Agency

Arden Service Area Pipe and Meter Installation Project

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Sara Rogers – Consultant Project Engineer (D&A)



DEPARTMENT OF WATER RESOURCES
SACRAMENTO COUNTY
WATER AGENCY

Arden Service Area Project Background

- * Existing infrastructure is nearing the end of expected service life.
- * Pipes in project area are undersized for current fire flow regulations
- * Meet State (AB 2572) requirements to install water meters by 2025.
- * Implement current cross connection standards (back flow prevention)

Presentation Overview

- * Current Project Phase
- * Project Update
- * Meter Installation and Service Reconnection
- * Meter Location (Property Surveys)
- * Metered Rates and Billing
- * Water Conservation Discounts
- * Construction Management Team
- * Construction Impact Overview
- * Project Webpage
- * Contact Us

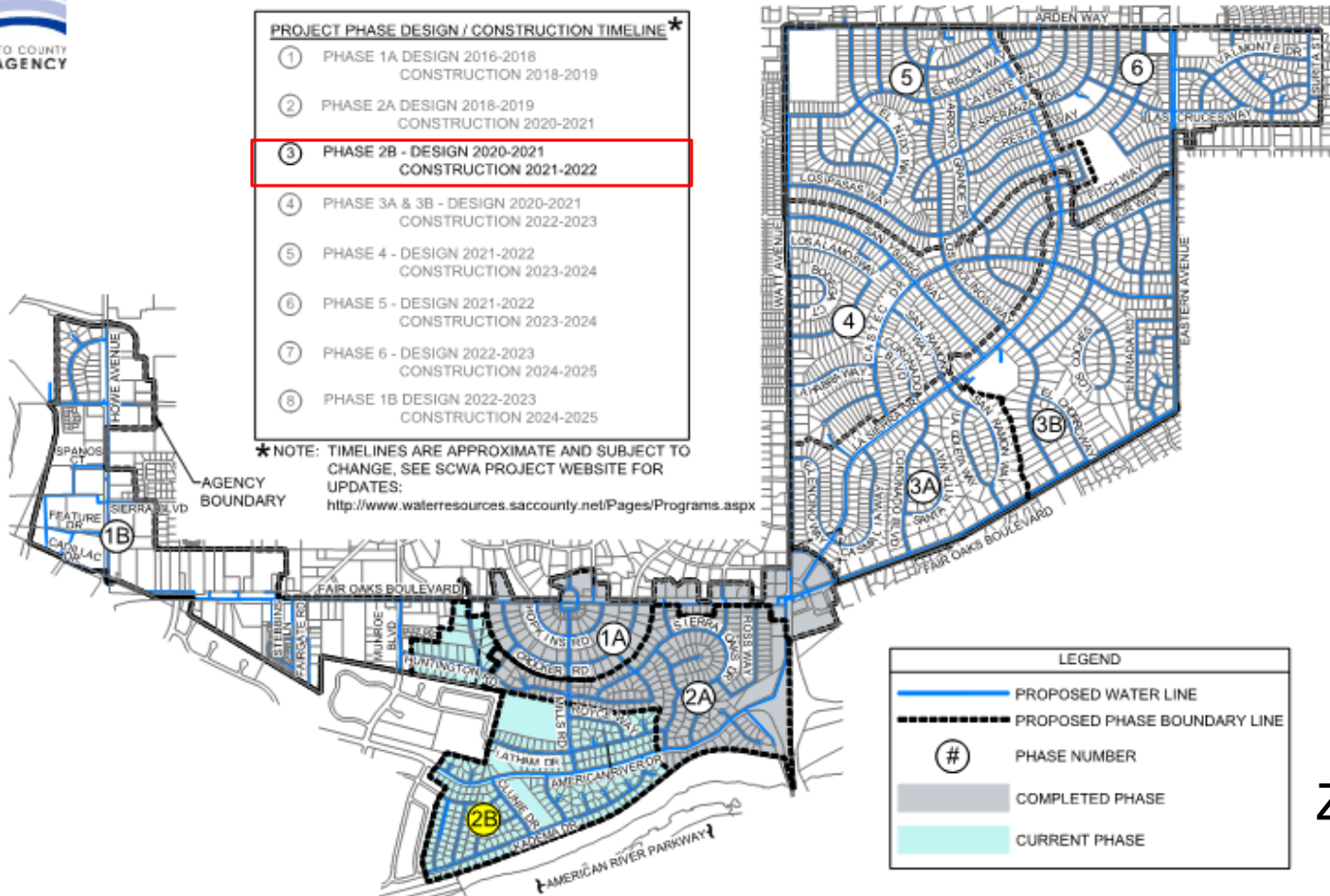
Current Project Phase



SACRAMENTO COUNTY WATER AGENCY ARDEN SERVICE AREA PIPE AND METER INSTALLATION PROJECT

PROJECT PHASE DESIGN / CONSTRUCTION TIMELINE*	
①	PHASE 1A DESIGN 2016-2018 CONSTRUCTION 2018-2019
②	PHASE 2A DESIGN 2018-2019 CONSTRUCTION 2020-2021
③	PHASE 2B - DESIGN 2020-2021 CONSTRUCTION 2021-2022
④	PHASE 3A & 3B - DESIGN 2020-2021 CONSTRUCTION 2022-2023
⑤	PHASE 4 - DESIGN 2021-2022 CONSTRUCTION 2023-2024
⑥	PHASE 5 - DESIGN 2021-2022 CONSTRUCTION 2023-2024
⑦	PHASE 6 - DESIGN 2022-2023 CONSTRUCTION 2024-2025
⑧	PHASE 1B DESIGN 2022-2023 CONSTRUCTION 2024-2025

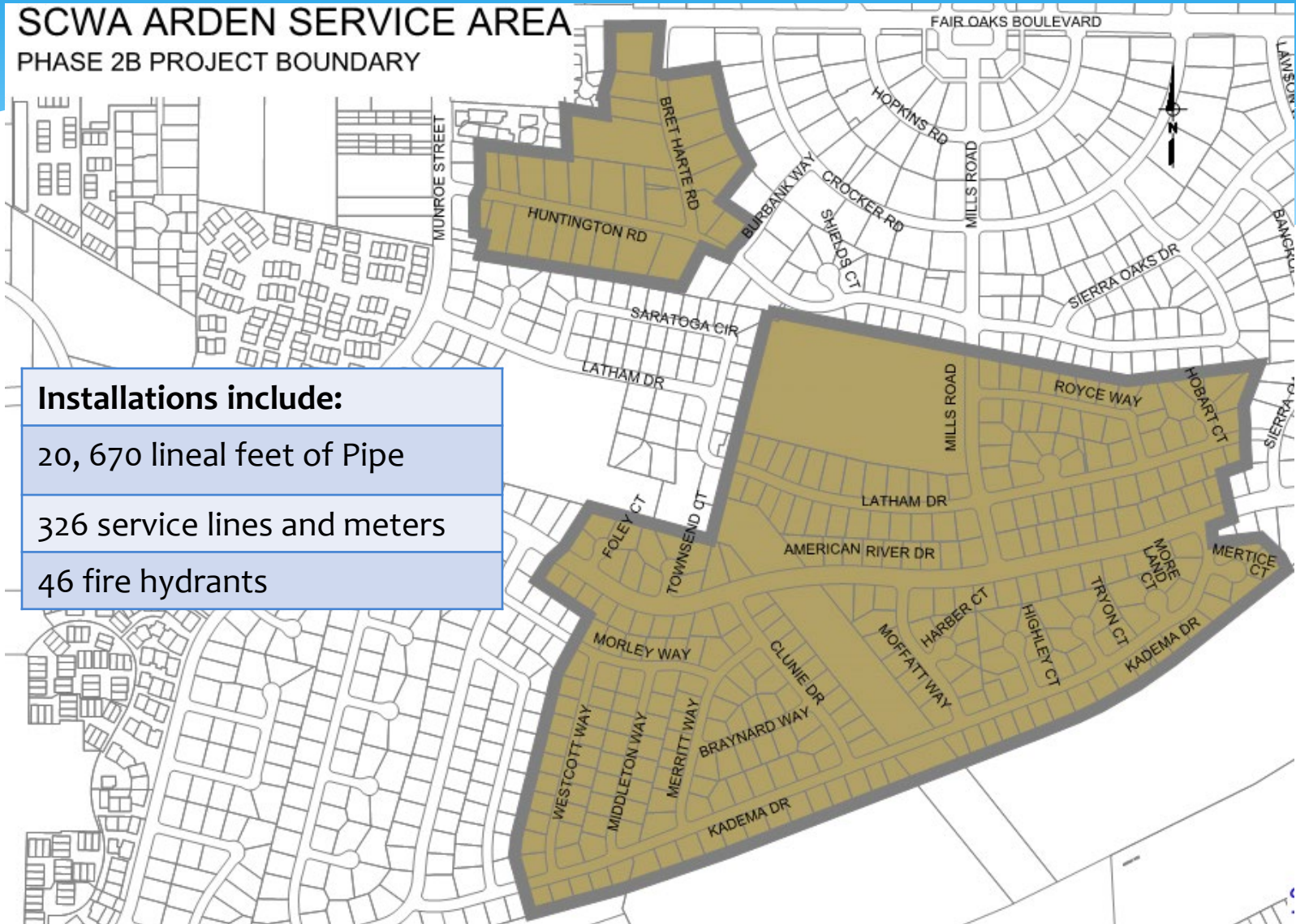
*NOTE: TIMELINES ARE APPROXIMATE AND SUBJECT TO CHANGE, SEE SCWA PROJECT WEBSITE FOR UPDATES:
<http://www.waterresources.saccounty.net/Pages/Programs.aspx>



Zone 41

Phase 2B Location

SCWA ARDEN SERVICE AREA PHASE 2B PROJECT BOUNDARY



Installations include:

20, 670 lineal feet of Pipe

326 service lines and meters

46 fire hydrants

Project Update

- * Contract was awarded to Teichert & Son, Inc. dba Teichert Construction on 5/18/2021
- * Current material shortages may cause construction delays
- * Construction tentative start and approx. end:
mid-July 2021 through May 2022
- * Outreach to continue: newsletters, postcards, email and text messages, social media posts and webpage updates.

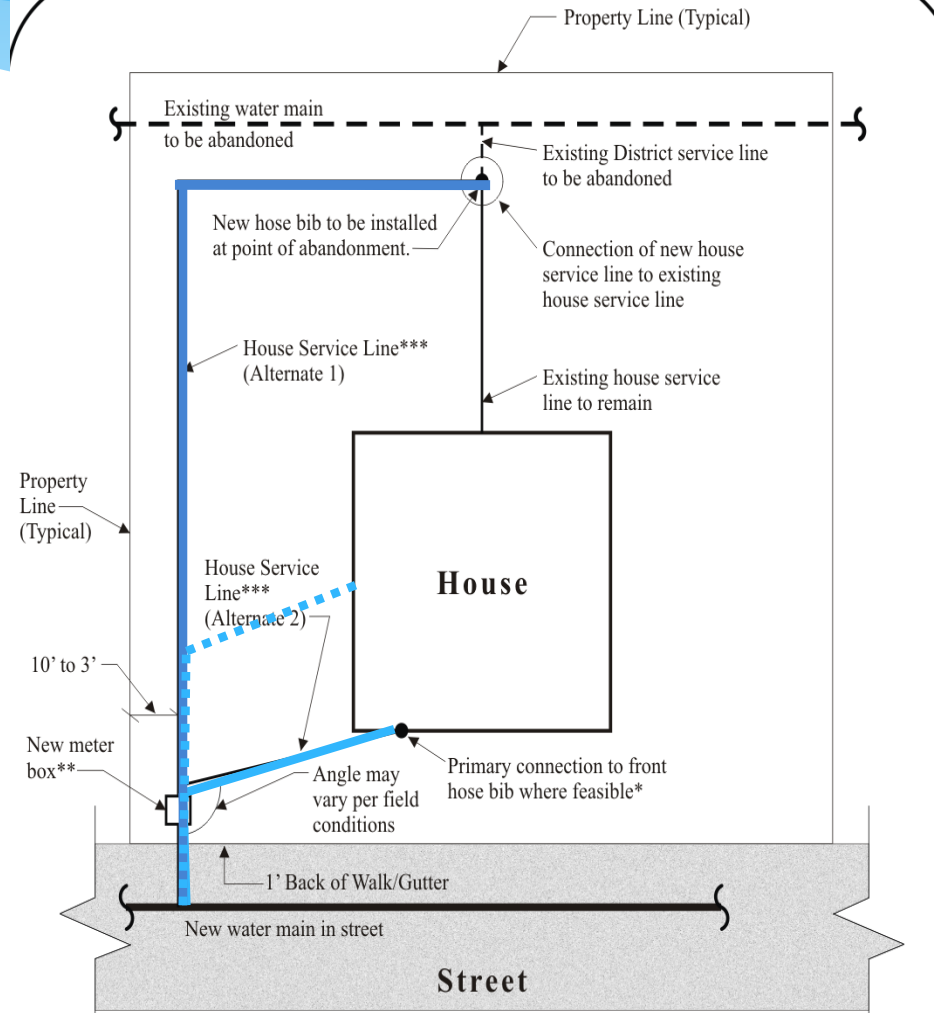
Meter Installation and Service Reconnection

- * All properties that do not currently have a water meter in the project area will receive one.
- * Any property with a domestic well or a commercial property, will need a backflow device to protect the new system.
- * Water meter boxes should be fully accessible at all times.



Meter Installation and Service Reconnection

- * Meter box location is determined with property owner input.
- * If existing main is in street ROW, the existing service will be reconnected in the property's front yard.
- * If existing main is in the backyard, additional property surveys have been completed with property owner for new service reconnection.



Meter Location Property Surveys

- * Residents have been contacted to review location of new meter box.
- * Information from the surveys was incorporated into the bid documents.
- * Letters will be sent to properties that we have not been able to make contact with.
- * If you are in Phase 2B and have not had a meter location survey please let us know.

**SCWA ARDEN SERVICE AREA – MAIN REPLACEMENT PHASE 1
SERVICE LOCATION SHEET**

FAIR OAKS BOULEVARD

LARCH LANE

441

EX 3/4" HOSE-BIB

16" DIP

8" DIP

WATER METER (M)

BACKFLOW DEVICE (BFD)

CORP STOP (CS)

POINT OF CONNECTION (PC)

SERVICE LINE

PROPERTY LINES SHOWN HERE ARE APPROXIMATE

SIZE OF WATER TAP
 3/4" 1" OTHER: _____
 UNKNOWN

BACKFLOW DEVICE
 YES SIZE: _____ NO
 UNKNOWN

WATER SOFTENER?
 YES NO UNKNOWN

INSTANT WATER HEATER?
 YES NO UNKNOWN

HYDRANT LOCATION DOG ON PROPERTY
 OWNER TENANT

FOR USE DURING CONSTRUCTION
 PRESSURE @ HOSE BIB: _____
 STATIC PRESSURE (p.s.i.): _____
 RESIDUAL PRESSURE (p.s.i.): _____
 DATED CHECKED: _____

FAIR OAKS BL
 LARCH LN
 WATT AVE
 SERVICE LOCATION
 KEY MAP

Notes (property type, obstructions such as structures, trees, or concrete walkways, any other important info): **INSTALL NEW SERVICE/METER BOX APPROXIMATELY 4' NORTH OF DRIVEWAY, IN FRONT OF FENCE. INSTALL NEW IN-TRACT AND CONNECT TO EXISTING 3/4" HOSE-BIB ON EAST FACE OF HOUSE NEAR PLANTER AREA.**

Picture File: _____ 1st Attempt: _____
 Suneyor's Name/Date

APN: _____ 2nd Attempt: _____
 Suneyor's Name/Date

New Service Size: _____ 3rd Attempt: _____
 Suneyor's Name/Date

Old Service Loc.: _____

Landowner Signature: _____ Contact Number: _____ Date: _____

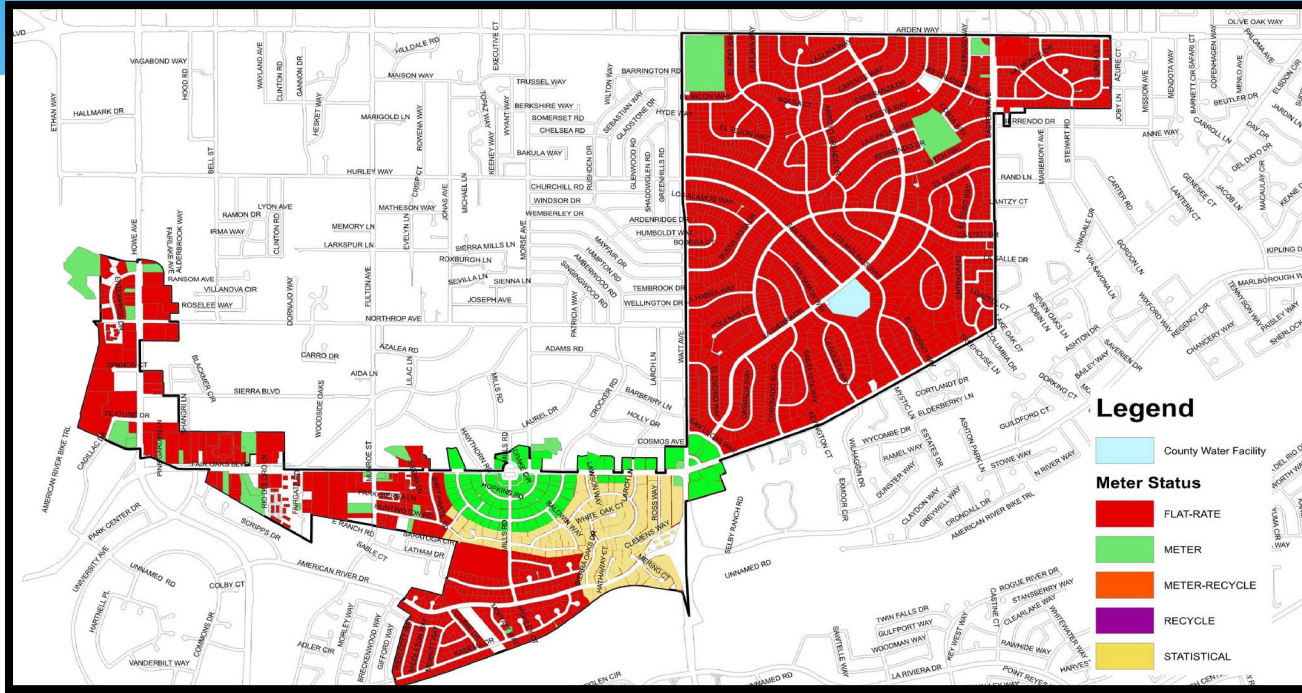
Sacramento County Water Agency ADDRESS: **441 LARCH LANE**

827 7th Street, Room 301 SCALE: **1"=40'**

Sacramento, CA 95814 DATE: **8-15-18** DWG NAME: **METER SHEETS LARCH LANE.DWG**

PH: (916) 874-6651

Metered Rates



- * Flat rate will continue for one year after meter is activated.
- * First year of bills will show both meter and flat rate uses for comparison.

Example Bill with Statistical Metering

WATER SERVICE DETAIL FOR PARCEL

Service Type : Flat
 Service Dates : From 09/07/2019 To 11/07/2019 BILLING DAYS 62



RESIDENTIAL	175.48
SACRAMENTO COUNTY WATER AGENCY	175.48
Total Water Charge For Parcel	175.48

STATISTICAL METER READINGS--NOT BILLED--FOR CUSTOMER COMPARISON

<u>Prior Meter Read</u>	<u>Current Meter Read</u>	<u>Cubic feet</u>	<u>Gallons</u>
59,377	78,849	19,472	145,661

<u>Usage</u>	<u>Days Billed</u>	<u>Gallons</u>	<u>Gallons Per Day</u>
This Period	62	145,661	2,349

METERED WATER CHARGES - NOT BILLED
(FOR CUSTOMER COMPARISON INFORMATION ONLY) **374.43**

To report problems with your County water service, call (916) 875-RAIN (7246) on weekdays from 7:00 AM to 5:00 PM. After hours and on holidays, call (916) 875-5000.

Water Conservation Standards are in effect. Adjust your sprinklers to water only landscape and/or reduce watering time to prevent runoff. Runoff wastes water and pollutes our waterways.

Metered vs Flat Rate Billing

Description based on Monthly <u>Metered</u> Charges as of 7/1/2020	Amount
Residential Service Charge (assumes 1-inch meter)	\$16.27
Usage Charge* = ($\$1.67/748$ gallons) x (gallons used) x (30 days/month) *assumes 2,000 gallons per day are used in household (based on Phase 1A data)	\$133.96
Capital Development Fee for Zone 41	\$0.00
Average Monthly Bill	\$150.23
Description based on Monthly <u>Flat Rate</u> Charges	Amount
Current Flat Rate – 20,000 SF Property (Title 3, Residential Flat Fee as of 7/1/20)	\$89.53

****** *Charges are subject to change with future rate increases*

Discounts for Water Conservation

Residential Conservation Discounts = Service Discount + (Quantity Discount Rate x Usage in CCF*)

Conservation Discount Tier 1	Monthly 7/1/2020	Conservation Discount Tier 1	Bi-Monthly 7/1/2020
Service Discount 0 to 5,236 gallons (0-7 CCF)	\$4.65	Service Discount 0 to 10,472 gallons (0-14 CCF)	\$9.30
Quantity Discount Rate 0 to 5,236 gallons (0-7 CCF)	\$0.09 per CCF	Quantity Discount Rate 0 to 10,472 gallons (0-14 CCF)	\$0.09 per CCF
Conservation Discount Tier 2	Monthly 7/1/2020	Conservation Discount Tier 2	Bi-Monthly 7/1/2020
Service Discount 5,237 to 11,220 gallons (7-15 CCF)	\$2.58	Service Discount 10,473 to 22,440 gallons (14-30 CCF)	\$5.16
Quantity Discount Rate 5,237 to 11,220 gallons (7-15 CCF)	\$0.03 per CCF	Quantity Discount Rate 10,473 to 22,440 gallons (14-30 CCF)	\$0.03 per CCF

*CCF = 100 Cubic Feet or 748 gallons

Example Discounts

Monthly – Tier 1 – Usage 300 CF (2244 Gal)

Usage discount	\$0.27	(usage discount: 3 CCF * \$0.09 = \$0.27)
Service discount	\$4.65	

TOTAL Discount **\$4.92**

BiMonthly – Tier 1 – Usage 1000 CF (7,480 Gal)

Usage discount	\$0.90	(usage discount: 10 CCF * \$0.09 = \$0.90)
Service discount	\$9.30	

TOTAL Discount **\$10.20**

Construction Management Team Introduction

Construction Team:

- * **Construction Management** – ICM Group, Sacramento County (CMID), and Domenichelli and Associates
 - * Lead Construction Manager – **Ricardo Bedoy (ICM)**
 - * Inspectors
 - * Water Mains/ Streets: **John Vega (CMID)**
 - * Service Lines – **Tom Gomes (ICM)**



Construction Impact Overview:

- * Schedule
- * Underground Service Alert (USA) Markings
- * Traffic
- * Noise
- * Private Property
- * Meter Installation
- * Final Roadway Restoration

Construction Schedule

Anticipated Sequence:

- * Start with USA and potholing
- * Pipeline installation, valves and fire hydrants
- * Water service and meters installation
- * Final paving

Schedule is dependent on contractor

USA Markings

- * Underground Service Alert (USA) is a service to identify underground utilities.
- * Markings are needed through-out the project.
- * Please do not remove markings.

White	Proposed Excavation
Pink	Temporary Survey Markings
Red	Electric Power Lines, Cables, Conduit, and Lighting Cables
Yellow	Gas, Oil, Steam, Petroleum, or Gaseous Materials
Orange	Communication, Alarm or Signal Lines, Cables, or Conduit
Blue	Potable Water
Purple	Reclaimed Water, Irrigation, and Slurry Lines
Green	Sewers and Drain Lines



Traffic

- * EXPECT DELAYS
- * Contractor will maintain access to residents
- * Short detours will be necessary
- * Watch for signs
- * Construction equipment ingress/egress
- * May be multiple crews working throughout the project



General Considerations

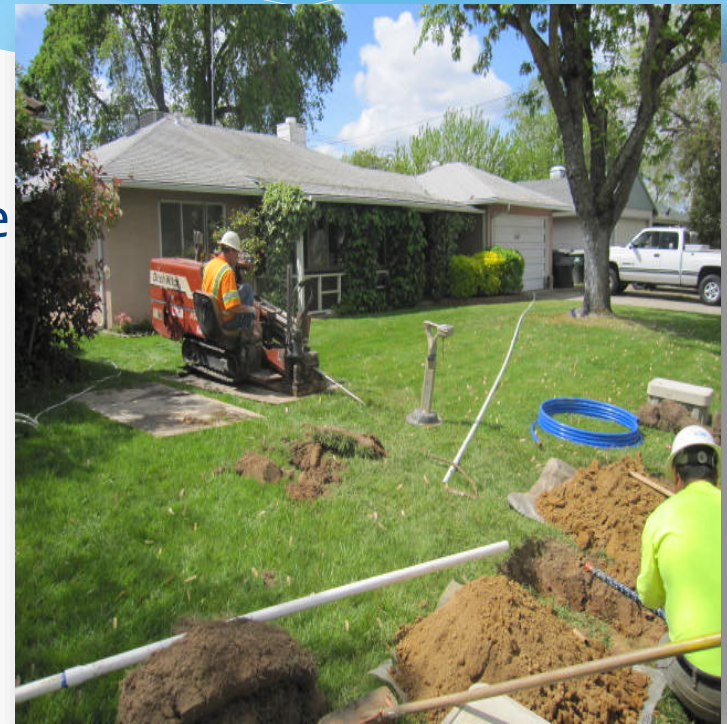


- * On-going Services
 - * Garbage and delivery services will remain the same
- * Noise
 - * Hours from 7:30am to 5pm (residential)
 - * Construction equipment throughout the project
- * Trees
 - * Trimming may be necessary in the roadway for access
 - * Protection of trees to the greatest extent possible (Oak Trees)
- * Abandonments of Existing Pipeline and Appurtenances
 - * May take place on private property
 - * Property owners will be notified



Private Property

- * Contractor will be on property multiple times
- * Short shutdowns of water service will be necessary
- * Will provide advance notice for all property access and shutdowns
- * Landscape may be cleared as necessary
- * Property will be restored to as near pre-construction conditions as practical
- * Landscape restoration will follow installation



Private Property – Meter and Fire Hydrant Locations

- * All meter locations will be identified with a wooden stake marked blue.
 - * If you see an issue with location – DO NOT MOVE STAKE
 - * Contact Project Dedicated Phone or Email (or on-site inspector) and discuss issue/concern.
 - * ArdenServiceMeters@saccounty.net
(916) 874-3070
- * Fire hydrants will also be staked in advance with a sign stapled to identify its location. Contact Agency if there is a concern.

Final Roadway Restoration

- * Varying pavement conditions exist throughout the project.
- * Temporary pavement will be identified on the trench and maintained until final restoration.
- * Pavement will be restored as approved by Sacramento County DOT.



Project Webpage

Visit the Agency's website for updates on progress:

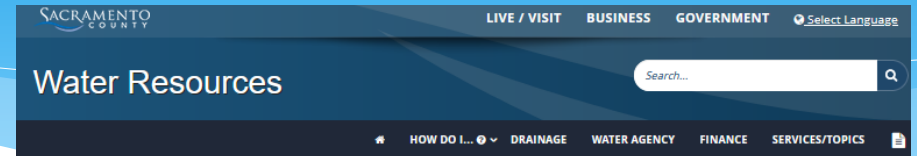
* <http://www.scwa.net>

➤ Construction/Maintenance Projects

➤ Water Supply

➤ Arden Service Area Pipe and Meter Installation Project

➤ Select Phase 2B page



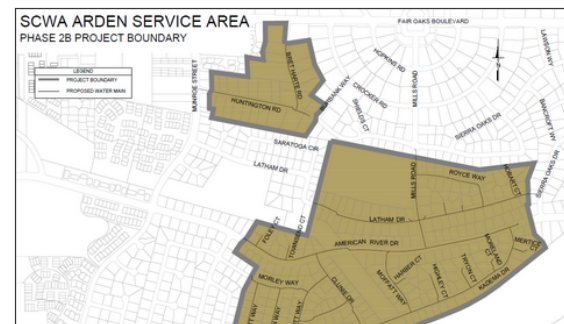
Phase 2B - Arden Service Area Pipe and Meter Installation Project

Background

Phase 2B construction is expected to begin in the Summer of 2021. This project will abandon old distribution pipelines located in backyards, install approximately 4 miles of new distribution pipelines within street right-of-way, install 326 new service lines and meters, install new or replace 46 fire hydrants and 6 backflow preventer assemblies. This Project will provide several critical improvements to the Arden Service Area's distribution system:

- Improved system reliability and additional fire-flow capacity: Larger water mains will help provide better system redundancy and additional water supplies to meet fire flow requirements. Fire hydrants will be added to the project area to meet Fire Code spacing requirements (every 500 feet for residential and every 300 feet for commercial areas.)
- Meet separation standards for drinking water mains: New water mains placed into the street-right-of-way will help SCWA meet the current separation requirements from sanitary sewer and drainage facilities.
- Lower operation and maintenance costs: The replacement of older and undersized water mains will reduce maintenance cost of day-to-day operations.
- Meet state deadline for water meter implementation: The installation of water meters will achieve system compliance with the state requirement that all water services have meters installed by 2025.

Project Location



[Water Resources Home](#)
[SCWA Home](#)
[Arden Service Area Project](#)



Questions?

Contact information: Helen Rocha
ArdenServiceMeters@saccounty.net
(916)874-3070



End

Project Email/Text Subscription

- * Scan the following QR code with a smart phone camera
- * Select your subscription type (email/text message)
- * Enter your preferred email address or wireless number
- * Click submit



SCAN ME

Pipeline Realignment Plan

- * Relocate pipeline from backyard PUE to street ROW (where applicable)
- * Install new pipeline to meet State standards for separation from sewer and drainage facilities
- * Upgrade pipeline and hydrants to meet fire flow standards

