

# Sacramento County Water Agency

## Phase 2A Arden Service Area Pipe and Meter Installation Project

January 16<sup>th</sup>, 2020

**Helen Rocha – SCWA Project Manager**  
**Sara Rogers – Consultant Project Engineer (D&A)**



# Presentation Overview

- \* Background and Location
- \* 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
- \* Questions

# Arden Service Area Project Background

- \* Existing pipe in project area is undersized for current fire flow regulations, fire hydrant quantity and spacing not meeting current Fire Code.
- \* Existing infrastructure is nearing the end of expected service life.
- \* Installation of new water meters to meet State (AB 2572) requirements by 2025.

# Project Location

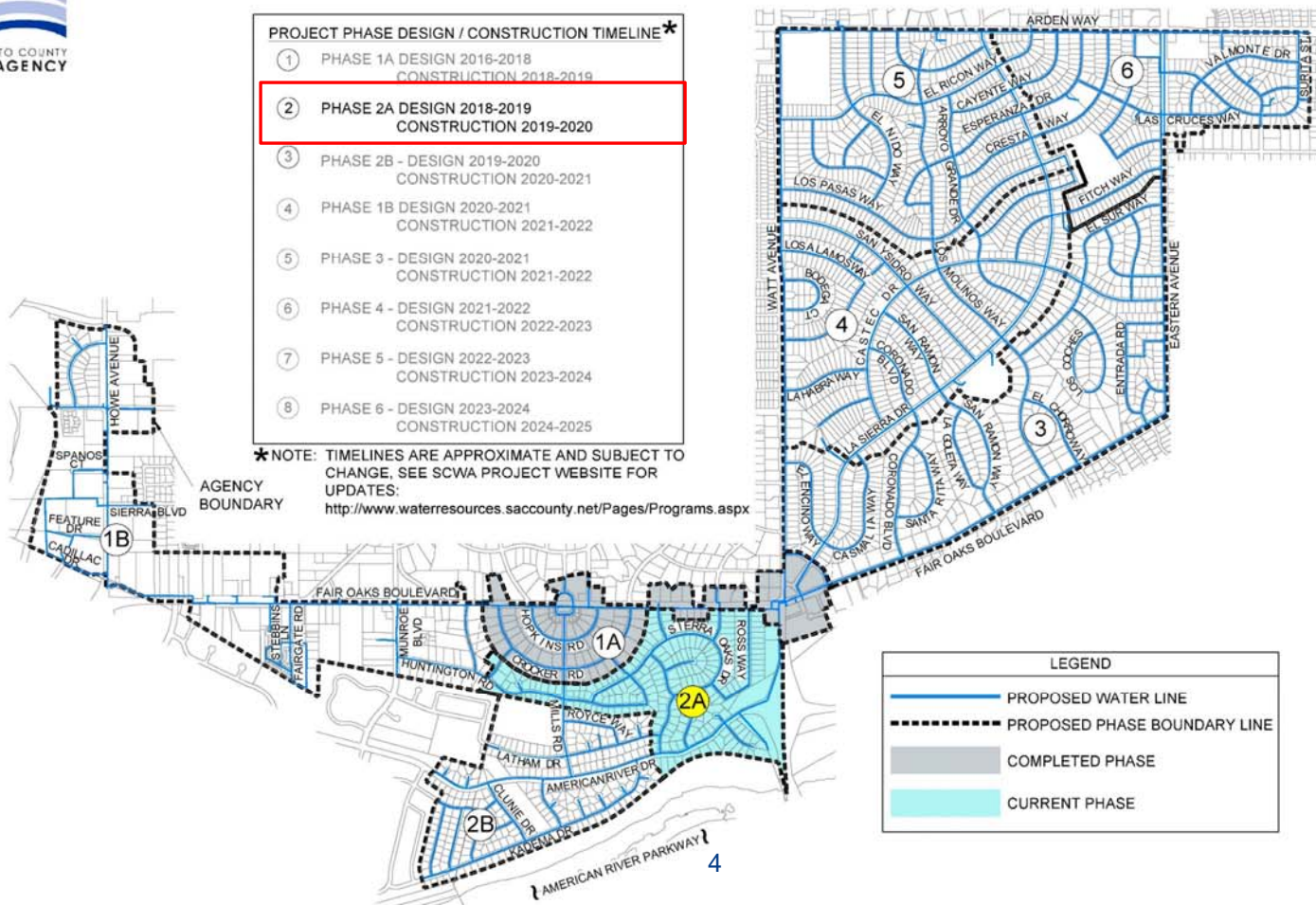


## SACRAMENTO COUNTY WATER AGENCY ARDEN SERVICE AREA

### DISTRIBUTION SYSTEM PIPE REALIGNMENT 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 2019-2020
③	PHASE 2B - DESIGN 2019-2020 CONSTRUCTION 2020-2021
④	PHASE 1B DESIGN 2020-2021 CONSTRUCTION 2021-2022
⑤	PHASE 3 - DESIGN 2020-2021 CONSTRUCTION 2021-2022
⑥	PHASE 4 - DESIGN 2021-2022 CONSTRUCTION 2022-2023
⑦	PHASE 5 - DESIGN 2022-2023 CONSTRUCTION 2023-2024
⑧	PHASE 6 - DESIGN 2023-2024 CONSTRUCTION 2024-2025

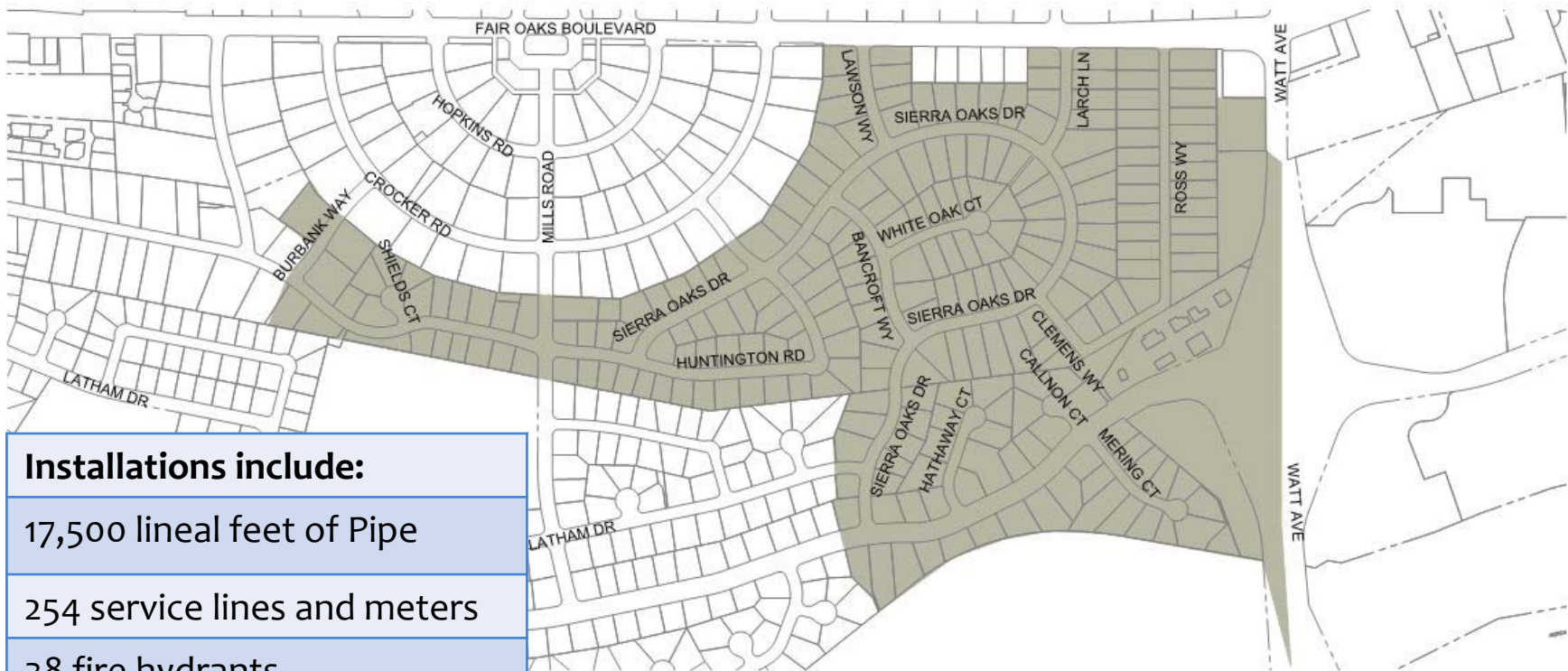
\*NOTE: TIMELINES ARE APPROXIMATE AND SUBJECT TO CHANGE. SEE SCWA PROJECT WEBSITE FOR UPDATES:  
<http://www.waterresources.sacounty.net/Pages/Programs.aspx>



Zone 41

# Phase 2A Location

## SCWA ARDEN SERVICE AREA PHASE 2A PROJECT LIMITS



### Installations include:

17,500 lineal feet of Pipe

254 service lines and meters

38 fire hydrants

# Project Update

- \* Contract was awarded to Teichert Energy & Utilities Group  
12/17/19
- \* Construction begins mid-February
- \* Outreach to continue: newsletters, postcards, email and text messages, social media posts and webpage updates.

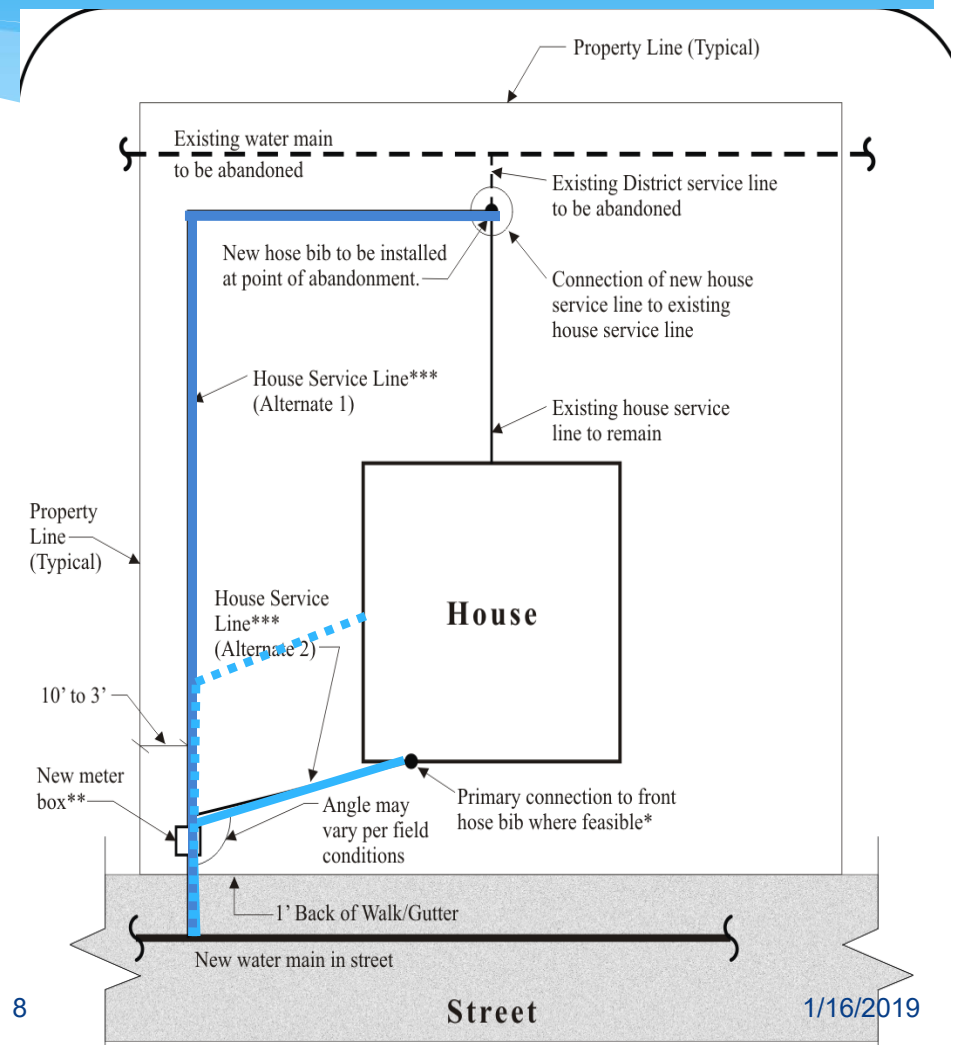
# Meter Installation and Service Reconnection

- \* 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 2A and have not had a meter location survey please let us know.
- \* Property surveys are available for review tonight after the presentation.

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

WATER METER     CORP STOP  
 BACKFLOW DEVICE     POINT OF CONNECTION  
 SERVICE LINE  
 PROPERTY LINES SHOWN HERE ARE APPROXIMATE  
 SIZE OF WATER TAP  
 3/4"     1"     OTHER: \_\_\_\_\_  
 UNKNOWN  
 BACKFLOW DEVICE  
 YES     NO     UNKNOWN  
 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: \_\_\_\_\_

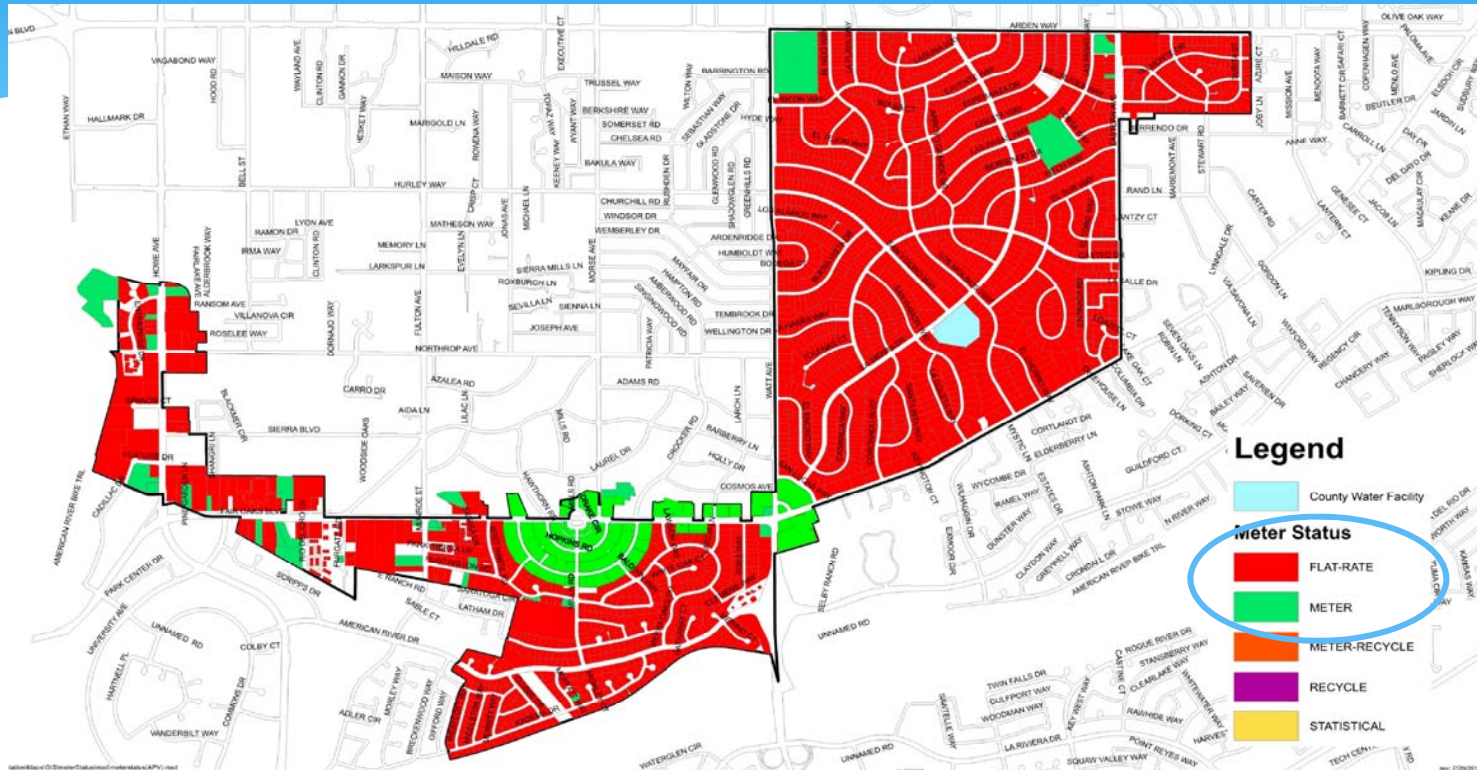
Notes (property type, obstructions such as structures, trees, or concrete walkways, any other important info): **INSTALL NEW SERVICE/METER BOX APPROXIMATELY 4' NORTH OF DRIVEWAY, IN FRONT OF FENCE. INSTALL NEW IN-TRACT AND CONNECT TO EXISTING 3/4" HOSE-BIB ON EAST FACE OF HOUSE NEAR PLANTER AREA.**

Picture File: \_\_\_\_\_ 1st Attempt: \_\_\_\_\_  
 APN: \_\_\_\_\_ 2nd Attempt: \_\_\_\_\_  
 New Service Size: \_\_\_\_\_ 3rd Attempt: \_\_\_\_\_  
 Old Service Loc.: \_\_\_\_\_

Landowner Signature: \_\_\_\_\_ Contact Number: \_\_\_\_\_ Date: \_\_\_\_\_

**Sacramento County Water Agency** ADDRESS: **441 LARCH LANE**  
 827 7th Street, Room 301  
 Sacramento, CA 95814 SCALE: **1"=40'**  
 PH: (916) 874-6851 DATE: **8-15-16** DWG NAME: **METER SHEETS LARCH LANE.DWG**

# 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
<b>Total Water Charge For Parcel</b>	<b>175.48</b>

<b>STATISTICAL METER READINGS--NOT BILLED--FOR CUSTOMER COMPARISON</b>			
<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
<b>Usage</b>	<b><u>Days Billed</u></b>	<b><u>Gallons</u></b>	<b><u>Gallons Per Day</u></b>
This Period	62	145,661	2,349
<b>METERED WATER CHARGES - NOT BILLED (FOR CUSTOMER COMPARISON INFORMATION ONLY)</b>			<b>374.43</b>

*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	Amount
Residential Service Charge (assumes 1-inch meter)	\$15.45
Usage Charge* = $(\$1.63/CCF) \times (1CCF/748 \text{ gallons}) \times (\text{gallons used}) \times (30 \text{ days/month})$ *assumes <b>2,000 gallons per day</b> are used in household	\$130.75
Capital Development Fee for <b>Zone 41</b>	\$0.00
Average <b>Monthly</b> Bill	\$146.20
Description based on Monthly <u>Flat Rate</u> Charges	Amount
Current Flat Rate – 20,000 SF Property (Title 3, Residential Flat Fee as of 7/1/19)	\$86.41

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

**\*\* 1 CCF = 100 Cubic Feet (CF) = 748 gallons**

# Discounts for Water Conservation

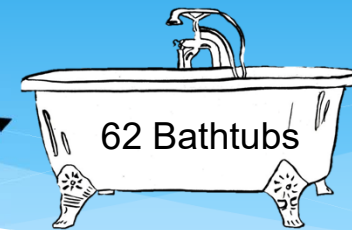
**Residential Conservation Discounts = Service Discount + (Quantity Discount Rate x Usage in \*CCF)**

Conservation Discount Tier 1		Monthly		Conservation Discount Tier 1		Bi-Monthly	
		7/1/2019	7/1/2020			7/1/2019	7/1/2020
Service Discount 0 to 5,236 gallons (0-7 CCF)		\$ 4.58	\$ 4.65	Service Discount 0 to 10,472 gallons (0-14 CCF)		\$ 9.16	\$ 9.30
Quantity Discount Rate 0 to 5,236 gallons (0-7 CCF)		\$ 0.08 per CCF	\$ 0.09 per CCF	Quantity Discount Rate 0 to 10,472 gallons (0-14 CCF)		\$ 0.08 per CCF	\$ 0.09 per CCF
Conservation Discount Tier 2		Monthly		Conservation Discount Tier 2		Bi-Monthly	
		7/1/2019	7/1/2020			7/1/2019	7/1/2020
Service Discount 5,237 to 11,220 gallons (7-15 CCF)		\$ 2.54	\$2.58	Service Discount 10,473-22,440 gallons (14-30 CCF)		\$ 5.08	\$ 5.16
Quantity Discount Rate 5,237 to 11,220 gallons (7-15 CCF)		\$ 0.03 per CCF	\$ 0.03 per CCF	Quantity Discount Rate 10,473-22,440 gallons (14-30 CCF)		\$ 0.03 per CCF	\$ 0.03 per CCF

\*CCF = 100 Cubic Feet or 748 gallons

# Example Discounts

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



Service discount            \$4.58

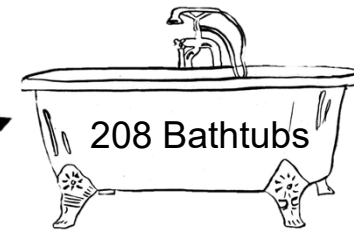
Usage discount            \$0.24                    (3 CCF \* \$0.08)

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TOTAL Discount            **\$4.82**

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Monthly – Tier 2 – Usage 1000 CF (7480 Gal)



Service discount            \$2.54

Usage discount            \$0.30                    (10 CCF \* \$0.03)

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TOTAL Discount            **\$2.84**

# Construction Management Team Introduction

# Construction Team:

- \* **Construction Management** – ICM Group and Domenichelli and Associates
  - \* Lead Construction Manager – **Ricardo Bedoy**
  - \* Lead Inspector – **George Ackerman** (main contact on-site)
  - \* Service Line Inspector – **Pete Reagan**





# 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 and appurtenances
- \* 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



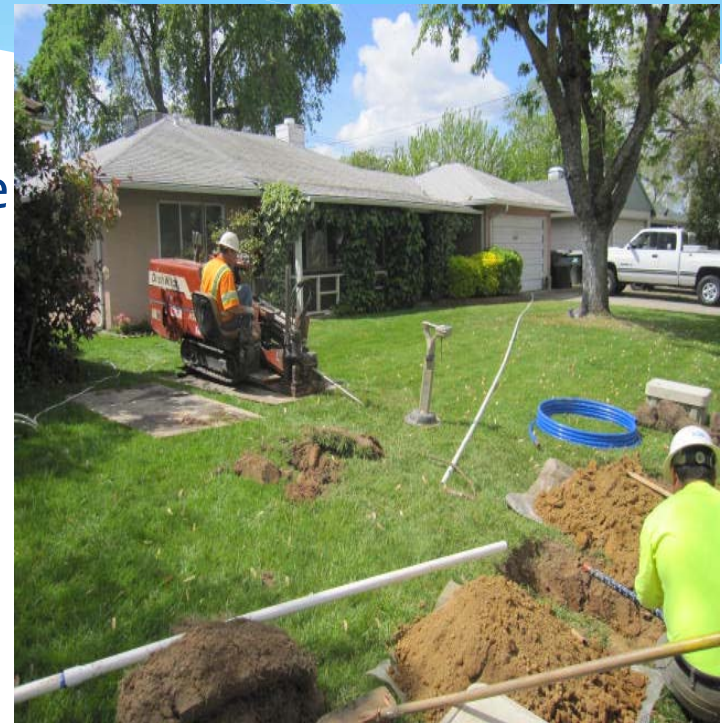
# General Considerations



- \* 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
- \* Brush and Landscape Clearing may be 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](mailto: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.
- \* Final pavement for Phase 2A will be similar to Phase 1A streets.



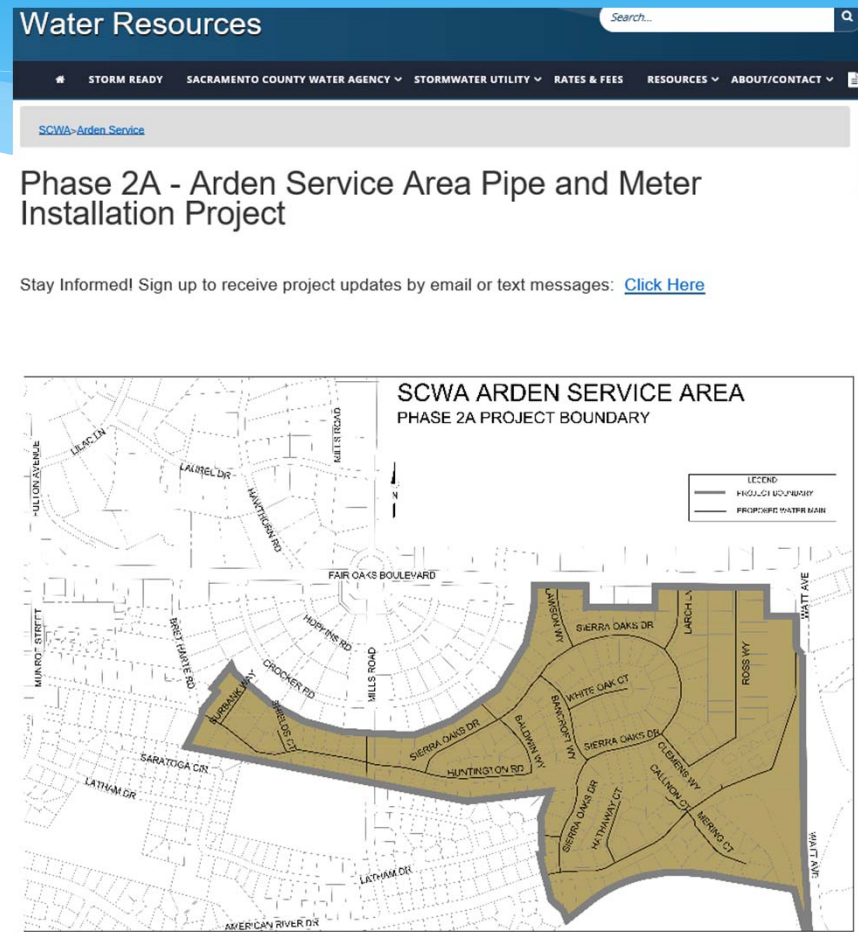


# Project Webpage

Visit the Agency's website for updates on progress:

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

- Projects & Programs
  - Water Supply
    - Arden Service Area Distribution System Pipe Realignment and Meter Installation Project
    - Select Phase 2A page





# Questions?

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



End

# 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

