### Public Works Agency Program & Services



Presentation to CVMAC March 19, 2018

#### Content

- 1. Overview of 2017 Storms Response
- 2. Transportation Projects and Programs
- 3. Flood Control Projects and Programs
- 4. Maintenance & Operation Services
- 5. Building Permits & Inspection Services
- 6. Other Services
- 7. Overview of Sidewalk & Bike Facilities since 2001

### Overview of 2017 Storms

- Received and responded to 380 calls for service
- Logged over 37,000 labor hours in storm response, cleanup & repairs
- Logged over 36,000 equipment hours
- Removed over 38,000 cubic yards of mud/debris from County rightof-ways
- Closed 28 County roads from just a few hours to several days
  - Palomares Road closed from March 2, 2017 through September 22, 2017
  - Redwood Road closed on February 16, 2017; anticipated reopening in April 2018
- **\$11 million** in disaster relief and storm-related clean up, repairs, etc., throughout unincorporated Alameda County















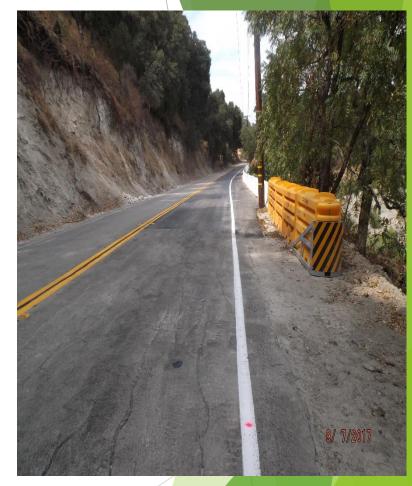


Palomares Road mm 8.73 (before)

Palomares Road mm 8.73 (after)







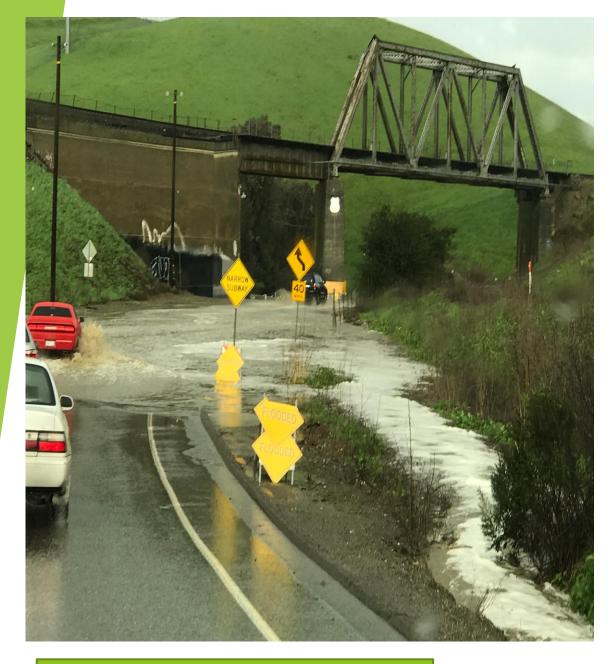
Foothill Road mm 6.92 slope failure



Cull Canyon and Briar-Ridge, Castro Valley
100-foot Eucalyptus tree fell blocking both lanes of
traffic



Crow Canyon Road, between Greenridge Road and Norris Canyon Road, Castro Valley. Large Bay tree fell, taking power lines with it.





Crews worked 24/7, often sleeping in a conference room between 14 hour shifts.

Altamont Pass Road Flooding

### Transportation Projects and Programs

# Transportation Projects and Programs (2014 to Present) \$72Million

- Safety/Multi-Modal Projects--\$8M
- > Pavement Management--\$24M
- Traffic Services and Signals --\$5M
- > Safe Routes to School, Sidewalks, Bicycle -- \$20M
- > Storm Damage, Drainage and Roadside Repairs -- \$11M
- > Bridges/Structures--\$4.0M

### Safety/Multi-Modal Transportation Projects

\$8 Million







Grant Avenue (Bay Friendly Certified)





Patterson Pass Road

Kilkare Road at Main Street

# Pavement Management \$22M

- > \$24 M in Overlay and Slurry Seal Projects
- ▶ 66.8 Miles of Streets and Roads Resurfaced
- Average PCI = 73 (Very Good)





### Pavement Rehabilitation (over 150 Streets)

ANO AVENUE CAMBRIAN DR CARRIAGE LN DARYL AVE EASY ST **EMERY CT** GRAMERCY AVE KENT AVE MEEKLAND AVE PESHEL CT PROSPERITY WAY RAFAHI WAY RANDALL WAY SANTA ANA ST SELBOURNE **CARLTON AVE CULL CANYON RD GARLAND CT** HUBER DR **HEYER AVE** JOHN DR **KEITH AVE** KINGSTON WAY MAYFLOWER DR NATALIE COURT RAHLVES DR SEAVIEW AVE SEPTEMBER CT WINIFRED DR WYNDALE CT WYNDALE DR MINES RD APRIL CT **BARCLAY CT BARLOW CT BRUSK CT EMILY CT** 

JEFFERY CT

MOSSY ROCK DR **URSA WAY** VALLEYBROOK CT VALLEYBROOK WAY VIA DEL ROBLES VIA MANZANAS NIELSON AVE **CHANNEL ST** VIA LACQUA CORTE MARIANA CORTE GERALDO CORTE YOLANDA VIA SECO VIA DEL REY ROBSCOTT AVE GINGER AVE PERKINS AVE MELROSE AVE BENGAL AVE **OXFORD AVE** RICARDO AVE **FALGREN AVE** ANITA AVE CHESTER ST **FOREST AVE FOXBORO** JEANNIE WAY JOHN DR LEROY DR LUX AVE MARSHALL ST **NEDRA WAY NORDELL AVE** PARSONS AVE SAMSON WAY SOMERSET AVE STANTON HILL RD WEST RIDGE CT WILBEAM AVE

WISTERIA ST

**WOODBINE AVE** WINIFRED AVE BERTERO AVE **BLANDING CT BUTTE ST CLAYTON ST** DEXTER CT DEXTER WY **ELGIN ST** FRANCONE CT HENRY LN MAYVILLE DR ORION ST PINNACLES CT PRIME AVE SIERRA AVE STRATTON CT SUNNYBANK LN SUNNYBANK PL UNION AVE BAYWOOD AVE BELLE ST E. CASTRO VALLEY BLVD EARL DR JEFFER ST KAHLERT AVE KATHLEEN AVE KIPLING ST LEILA ST LAKE CHABOT RD N. FIFTH ST **ORANGE AVE OUTLOOK CT** RIVERBANK AVE RIZZO AVE **VESTAL ST** ARLINGTON DR BERKSHIRE DR **CAROLYN ST** 

GRANT AVE

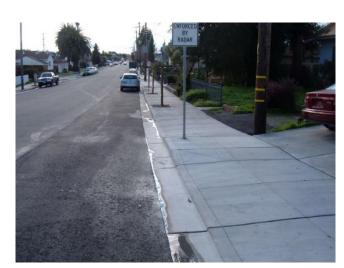
HORNE ST MANCHESTER RD MEEKLAND AVE SELBOURNE STRANG AVE W. BLOSSOM WY WELLINGTON WY WILLOW CT WINDSOR CT WINDSOR DR VIA MERCADO **CARSON LN** JESSE CT MOLLIE CT ASHFIELD AVE **BOXER CT** COSTA DR EDDY ST **ERNEST CT GERALDINE CT GLENN ELLEN DR** HENRY LN JAMIE WAY LAKERIDGE AVE LORI WAY MATTHEW CT MONA MARIA CT SALLY CT SHANNON CT SHAWN WAY SHEILA ST VIA BUENA VISTA VIA CHIQUITA VIA CIELO VIA CORALLA VIA DEL REY VIA HARRIET

VIA KARL VIA LA JOLLA VIA MARGARITA CT VIA MELINA VIA MILOS VIA NATAL VIA OWEN VIA SARITA VIA WALTER ANNIE CT **CENTURY OAKS CT CLOVERFIELD CT** CRESTFIELD CT **FAIRWEATHER CT GOLD CREEK DR GOLD HILLS DR HOLLOW CANYON CT** OAKCREST DR PACIFIC TERRACE CT RANCHO PALOMARES PL S. GOLD RIDGE DR SILVER BIRCH DR SILVER CANYON CT **GREENVILLE RD** ADAIR DR ALTA MIRA CT **ALVERTUS AVE** CAMINO ALTA MIRA **CARLEEN CT** CARLEEN DR ELROD DR HALEY DR LENARD DR MANCINI DR MICHEALS CT SANDY RD SUMMIT CT

### Safe Routes / Sidewalk to School \$1



Maud Avenue



162<sup>nd</sup> Avenue



Orange Avenue



Haviland Avenue



Christensen Lane

### \$5M Traffic and Transportation Services



#### **Speed Humps**

- Circle Avenue
- Watson Street
- Via Annette
- Idena Avenue
- Vegas Avenue
- Via Chiquita
- Pine Street
- Aspen Street
- Marcella Street
- Orange Avenue
- Via Frances
- Paseo Grande
- Tracy Street
- Via Media



#### **Speed Display Signs**

- Second Street
- Foothill Road
- Sheridan Road
- Grant Avenue
- Five Canyons Parkway
- Grove Way
- ► Tesla Road\*
- Patterson Pass Road
- Palomares Road
- Happy Valley Road
- D Street



#### Flashing Beacons at Crosswalks

- 162nd Avenue
- Redwood Road
- · Royal Avenue
- Five Canyons Parkway (3)
- Grove Way
- Redwood Road
- · Lake Chabot Road
- Paseo Grande
- Blossom Way
- Center Street
- Heyer Avenue
- Miramar Avenue
- A Street

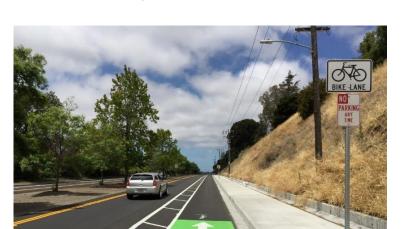
### \$5 M Bike Facility Installation



**Ashland Avenue** 

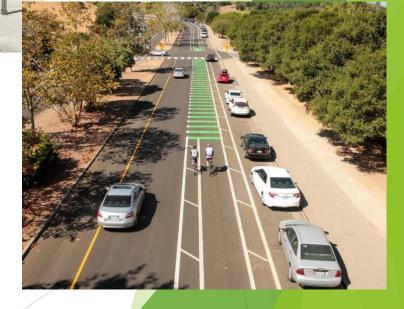


Foothill Boulevard



Bicycle Facilities Installed

- Grant Ave Class III Bike Route
- Via Alamitos Class III Bike Route
- Paseo Grande Class III Bike Route
- Heyer Ave Class III Bike Route
- Redwood Rd Class III Bike Route
- Foothill Boulevard Buffered Bike Lane
- Kelly St Class III Bike Route
- Mattox Road Class II Bike Lane
- Fairmont Drive Buffered Bike Lane
- Grove Way Buffered Bike Lane



Lake Chabot Road Buffered Class II

East Castro Valley Boulevard Buffered Class II

### \$4 Million in Bridge Rehabilitation









Stonybrook Creek Bridge Palomares Road

### \$155 Million in Upcoming Transportation Projects



- Meekland Avenue Phase I (\$5.8M)
- East 14th Phase II Streetscape (\$18.5M)
- Stanton Avenue Sidewalk (\$4.5M)
- East Avenue Sidewalk (\$4M)
- Santa Maria Sidewalk (\$5.3M)
- Fairmont Drive Class II Bike Lanes (\$1.9M)
- Western Boulevard Improvements (\$3.2M)
- ► Traffic Signal ECVB at Palo Verde (\$0.7M)

- ► Haviland Avenue Sidewalks (\$1.2M)
- Redwood Road Storm Damage Repairs (\$1.8M)
- Fairmont Drive Guardrail (\$1M)
- Redwood Road Crosswalk at I-580 (\$0.4M)
- Channel Street and Via Enrico Sidewalks (\$1.1M)
- Hesperian Boulevard Utility Undergrounding (\$14M)
- Hesperian Boulevard Streetscape (\$31M)
- Greenville Road at Tesla Road (\$1.1M)
- Center Street Sidewalk (\$1.6M)
- West Blossom UPRR Xing (\$0.4M)
- ► A Street Sidewalk and Bike Lane (\$3.2M)
- Anita Avenue Sidewalk (\$3.5M)
- ► 164<sup>th</sup> Avenue/Blossom Way Sidewalks (\$0.7M)
- Somerset Avenue Sidewalk (\$4.2M)
- Miller Sweeney Dolphin Cluster and Fender Repair (\$1.2M)
- Hesperian Boulevard at Sycamore Street Signal Replacement (\$0.8M)
- ► Greenville Drive at Villareal Drive Intersection (\$0.4M)
- Royal Avenue Sidewalks (\$1M)
- Enforcement Turnouts Crow Canyon Road, Redwood Road, Palomares Road, Patterson Pass Road, Tesla Road (\$3M)
- Countywide Pavement Rehabilitation (\$39M)

### Flood Control Projects and Programs

# Flood Control Projects delivered \$63.5 million (2014-2017)

- > 2014-2017 Designed and Constructed \$57.3 million
- > 2014-2017 Watershed Planning Studies \$ 6.2 million

- > 2018-2019 Improvement Projects \$59.7 million
- >2018-2019 Watershed Planning Studies \$ 5.8 million

# Flood Control Projects Designed and Constructed (2014-2017)

#### **Capacity Enhancement Projects:**

- ➤ Eden Landing Pump Station Rehabilitation, Hayward (2014; \$3.8M)
- ➤ Ward Creek Floodwalls upstream of Huntwood Avenue, Hayward (2014; \$3.4M)
- ➤ Line A-5 Off-line Detention Basin, Hayward (2014; \$3.8M)
- > San Leandro Creek Concrete Channel Rehabilitation, San Leandro (2014; \$3.4M)
- ➤ Line N Crossing improvements at Knight Street, Oakland (2014; \$1.5M)
- Davis Street New Pump Station, San Leandro (2014; \$7.9M)
- ➤ Ward Creek Floodwalls upstream of Huntwood Avenue, Hayward (2015; \$3.4M)
- ➤ Ruus Road Pump Station Discharge Pipe Improvements, Hayward (2015; \$2M)
- ➤ Line A Cabot Blvd. Crossing Improvements, Hayward (2015; 0.98M)
- ➤ Lines K/K-1 Levee and Floodwalls Improvements, Fremont (2015; \$0.88M)
- ➤ Mission Creek Flood Protection and Restoration Project upstream of Lake Elizabeth, Fremont (2017; \$12.3M)
- Laguna Creek Flood Protection Project at Auto Mall Parkway and Fremont Blvd. Crossings Phase 1, Fremont (2017; \$1.5M)

# Flood Control Projects Designed and Constructed (2014-2017)

#### **Creek and Channel Restoration Projects:**

- ➤ Chabot Creek Restoration upstream of Lake Chabot Road, Castro Valley (2014; \$0.8M)
- ➤ Scott Creek Restoration upstream of Green Valley Road, Fremont (2014; \$1.1M)
- ➤ San Leandro Creek Desilting and Creek Restoration, Oakland (2015; \$1.8M)
- San Leandro Creek Hazardous Tree Removal (2016; \$1.8M)
- Cull Creek Dam Spillway Modifications and Creek Restoration, Castro Valley (2016; \$2M)

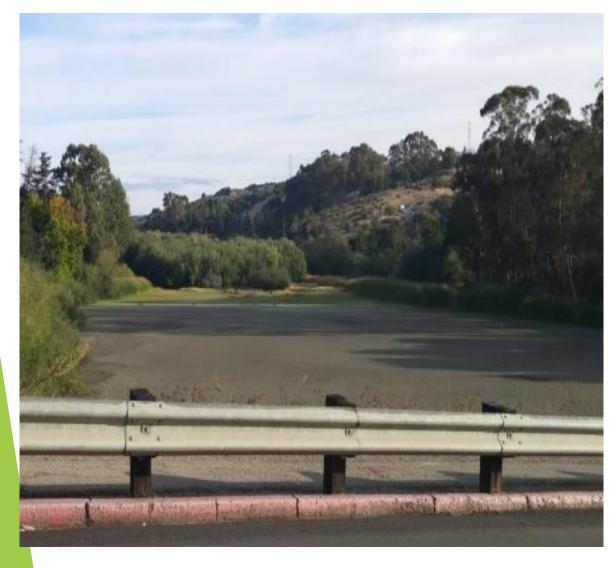
#### **Embankment and Erosion Repair Projects:**

➤ Line G Embankment Restoration, Fremont (2015; \$1.7M)

#### **De-Silting Projects:**

- ➤ Lines M, M-3 and M-5 sediment removal, Union City (2015; \$1.4M)
- Line K Desilting upstream of Coliseum Way, Oakland (2016; \$1.8M)

### Cull Creek Dam Spillway Modification and Creek Restoration Project





### Cull Creek Dam Spillway Modification and Creek Restoration Project

#### Phased approach in managing restoration site:

- ➤ first annual growth cycle to establish grasses forming dense mats of foliage to control erosion in the 1<sup>st</sup> year.
- > establishment of a non-irrigated vegetated meadow of native grasses will require the following steps over two to three years:
  - ➤ Spring 2018: Thin out matted foliage and sow supplemental seed mix of native grasses;
  - ➤ Spring 2018: Plant cottonwood cuttings on 20' centers along the stream channel mid-bank for more rapid vertical growth;
  - ➤ Summer 2018: Incorporate dry grasses and legumes into the soil top layer by disking or mowing;
  - ➤ Fall 2018: Sow additional meadow seed mix including grasses, wildflowers, and legumes;



- ➤ Spring 2019: Monitor growth sow supplemental seed mix as necessary;
- Summer 2019: Repeat mowing /sowing steps as needed.

## Upcoming Projects (\$60M) 2018-2019

Design and Construction  Bockman Canal Channel Restoration (San Lorenzo)  2,000,00	0 2018
Bockman Canal Channel Restoration (San Lorenzo) 2,000,00	
	0 2018
Estudillo Canal Tidegate Structure Rehabilitation (San Leandro) 3,600,00	
Estudillo Canal South Levee Improvements (San Leandro) 1,700,00	0 2018
Zone 3A Line G-1 – Culvert Crossing Improvement (Hayward/Union City) 600,00	0 2018
Laguna Creek – Culvert Crossing Improvement at I-880 Freeway (Fremont) 7,900,00	0 2018
Laguna Creek – Channel and Culvert Improvements downstream of I-880 Freeway (Fremont) 11,900,00	0 2018
Turner Court Low-Impact Development Demonstration Project (Hayward) 3,500,00	0 2018
Zone 2 Line N-3 – Tidegate Structure Improvement (San Lorenzo) 300,00	0 2018
Davis Street Pump Station Modifications (San Leandro) 1,000,00	0 2018
2018 Sub-Total: 32,500,00	0
Alvarado Pump Station and Outfall Structure Rehabilitation (Hayward) 2,800, <mark>00</mark>	0 2019
Line B Levee Raise downstream of Line F (Hayward) 500 <mark>,000</mark>	0 2019
Alameda Creek Fish-ladder at BART Weir (Fremont) 7,70 <mark>0,00</mark>	0 2019
Mission Creek Crossing Improvements (Phase 1) at Lemos Lane (Fremont) 1,0 <mark>00,00</mark>	0 2019
Laguna Creek Channel Improvements between Grimmer Blvd. & Auto Mall Parkway (Fremont) 6, <mark>300,00</mark>	0 2019
Agua Caliente Creek Restoration between I-680 Freeway and Curtner Road (Fremont) 1,500,00	0 2019
San Leandro Creek Urban Greenway Trail between Hegenberger Road and 105 <sup>th</sup> Avenue (Oakland) 5,000,00	0 2019
Trash Capture Underground Structure (Unincorporated Areas of Alameda County) 2,400,00	0 2019
2019 Sub-Total: 27,200,00	0

59,700,000

Total Two Years:

### Maintenance & Operations

### Maintenance & Operation Ser



Flood Control Maintenance \$51M

\$126 million 2014 to 17



Fleet Maintenance \$11M







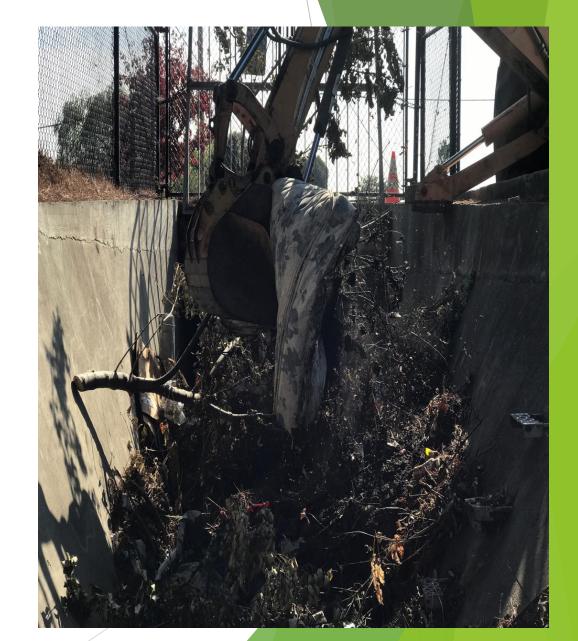
Road Maintenance \$45M

**Bridge Operations\$13M** 

Community Preservation \$6M

### Flood Control Maintenance

- ❖ Maintain <u>580</u> miles of Flood control system including:
- ✓ Desilting
- √ Vegetation management
- ✓ Access road Repair
- √ Tide Gate maintenance
- ✓ Erosion Repair
- ✓ Silt processing site maintenance
- ✓ Illegally dumped debris removal
- √ Fence Repairs
- ❖ Maintain and operate <u>24</u> pump stations



### Road Maintenance



#### Maintain 470 miles of Road including:

- ✓ Pothole repair
- ✓ Base repair
- ✓ Resurfacing
- ✓ Traffic sign installation
- ✓ Traffic marking maintenance
- ✓ Curb & gutter repair
- ✓ Weed abatement
- ✓ Illegally dumped debris removal
- ✓ Street Sweeping

Maintain and operate 83 traffic signals

### Fleet Maintenance



#### Fleet Maintenance Services:

- ✓ Maintain over 290 units which includes heavy equipment, sedans and trucks
- √ Fleet Acquisition
- ✓ Maintain over 130 units for other Agencies

#### Provide Fleet Services For:

- Alameda County General Services
- Alameda County Sheriff's Office
- Alameda County Public Health Department





### **Community Preservation**



✓ Abate graffiti on Public right of way and County facilities



- ✓ Remove debris/illegal dumping from public right of way
- ✓ Continue to support community cleanups events and Adopt-a-Spot program
- ✓ Remove shopping carts from right of way



#### Services w/2014-2017 Performance Data

Activity Description	Units	Castro Valley Work	Countywide Work
Street Signals Operations maintenance	Units	364	2,712
Traffic Marking Legend Painting	Lineal Feet	44,679	66,013
Shopping Cart Removal	Carts	554	2,507
Drop Inlet Inspection	Drop Inlet	8,264	29,988
Graffiti Removal	Square Feet	17,125	99,838
Pothole Repair	Pot Holes	2332	8,735
Street Sweeping	Curb Miles	4,134	12,877
Traffic and Street name signs	Signs	2,423	12,285
Base Repair	Tons	264	545
Landscape Maintenance and weed abatement	Acres	23	6,670
Tree Trimming	Tree	1,236	5,588
Debris and Brush Removal	Cubic Yards	7,914	74,648

### BUILDING PERMITS AND INSPECTION SERVICES

### BUILDING PERMITS AND INSPECTION SERVICES







**Residential/Building Permits** 

**Residential Solar Permits** 

Issue over <u>6,600</u> building permits per year Perform over <u>18,600</u> building inspections annually

#### Other Services Provided

- ☐ Clean Water Program
- ☐ Environmental Services & Regulatory Permitting
- ☐ Right of Way Services
- ☐ Surveying & Mapping Services
- ☐ Construction Management Services
- ☐ Development & Facilities Engineering
- ☐ County Service Area Administration

### New CSA Established to Fund Sidewalk Installation

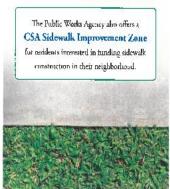
### County Service Area Sidewalk Improvement Zone

#### What is a County Service Area?

A County Service Area (CSA) is a type of special assessment district formed to provide specific extended services to residence and property owners in unincorporated areas of Alameda County.

Under the direction of the Alameda Councy Board of Supervisors, the Public Worlds Agency currently provides the following types of extended activities through CSAs within an unincorporated area:

- · Street Lighting
- · Maintenance Services for Private Roads
- . Storm Drain Maintenance
- · Water and Sewer Services





399 Elmhurst Street, Hayward, CA 94544 (510) 570-5480 | www.acpwa.org







Establishing a County Service Area Sidewalk Improvement Zone





#### Establishing a CSA-Sidewalk Improvement Zone

A County Service Area can be initiated through a resolution by the Alamoda County Beard of Successions or through a petition signed by no less than 10% of the registered vorces (who are property owners) misting within the proposad zone.

Once a resolution or perition is initiated, a Notice of Intention is filed with the Alameda Local Agency Formation Commission (LAPCO) and a public hearing is held to provide Information to the property owners.

If more than 50% of the resident voters (who are properly owners) file written objections, a majority protest exists and the proceedings will be reminated.

If there is no majority process, the voters will be asked to approve the financing method. If such funding it not approved, the zone shall not be furmed. Residence in other areas of the county who do not wish to reculve additional survices will not be at any costs.

#### Financing a CSA

When a CSA crises, the property owner will pay taxes and fees to the CSA Instead of the County for the services provided. These will be billed as line items on the County's property tax bill.

The raxes may take a variety of forms:

- General property taxes may be levled depending upon Prop. 13 constraints. These taxes, referred to as "ad valorem taxes", are based on assessed value.
- Special taxes may be levied for specific purposes. These taxes must be approved by a 2/3 your of CSA residents.
- Benefit assessments may be levied for specific purposes and are based on the direct benefic each panel receives from the improvements or services financed. These charges are subject to annual approval at a public hearing.

The property owner receives untice regarding the taxes and/or fee, including the amount of the proposed fee.

There must be a public hearing where protests are considered. If a majority protest of 50% or more are against the assessment, there shall be no assessment.

#### Costs Associated with a CSA Sidewalk Improvement Zone

The cost of the sidewalk improvements are dependent on a number of factors including:

- design and construction management costs
- site conditions
- · property location
- selected improvements.

An estimated linear footage cost will be provided for each area requested based on the actual project location.

#### For More Information:

Email: CSAsidewalks@acpwa.org Phone (510) 670-5518

# Sidewalk and Bike Facilities (2001-Present)

In unincorporated areas, PWA has spent over \$124M in implementing sidewalk, bike lane and other safety projects; \$10 M currently under construction; \$53 M in Design; and \$63M under Preliminary Engineering and scoping

A total of \$250 million in completed, under construction & design and planned projects

- of 211,000 feet or 40 miles of completed, under construction & design and planned sidewalk projects; of which 183,000 feet or 34 miles is in D4; and
- 225,000 feet or 42 miles of completed, under construction & design and planned bike facility projects; of which 148,000 feet or 28 miles is in District 4.

#### **Completed Projects:**

- Completed <u>106,000 feet (20 miles) of sidewalk, of which 82, 00 feet (15.5 miles) in D4.</u>
- Completed <u>137,000 feet (26 miles) of bike lanes, of which 86, 000 feet (16 miles) in D4.</u>

#### **Under Construction:**

- 14,300 feet (2.7 miles) of sidewalk of which 13,100 feet (2.5 miles) in D4
- o 4,800 feet (.9 miles)of bike lanes of which 4500 (.85 miles)feet in D4

#### **Under Design:**

- 43,700 feet (8 miles) of sidewalk, all of which are in D4
- 62,400 feet(12 miles) of bike lane, of which 38,400 (7 miles) are in D4.

#### **Under Preliminary Engineering or Scoping:**

- 47,000 feet (9 miles) of sidewalk, of which 45,000 feet (8.5 miles)in D4
- 21,000 (4 miles) feet of bike lane of which 20,000 (3.8 miles) in D4.

### Questions?