

An Overview of Public Works Agency's Program & Services



**Presentation to Eden Area Municipal Advisory Council
February 11, 2020**

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Alameda County Public Works Agency

Our Mission: Enhance the quality of life for the people of Alameda County by providing a safe, well-maintained and lasting public works infrastructure through accessible, responsive and effective services.

Our Values: The Alameda County Public Works Agency values,

- ▶ ...promoting responsibility through transparency and accountability.
- ▶ ...being responsive to those we serve.
- ▶ ...providing effective, high-quality service to the public.
- ▶ ...recognizing our unique qualities as individuals and treating one another with respect and compassion.
- ▶ ...innovative and progressive approaches and accepting the associated risks.

Our Agency-wide Goals:

- ▶ Goal 1: Road Improvement - Maximize mobility through safe and well-maintained roadway systems
- ▶ Goal 2: Flood Protection - Provide the highest level of flood protection
- ▶ Goal 3: Infrastructure Management - Provide service levels that optimize infrastructure life cycle and minimize deferred maintenance
- ▶ Goal 4: Construction Oversight - Ensure that development and building construction adhere to applicable state and county plans, codes and ordinances
- ▶ Goal 5: Emergency Management - Optimize disaster preparedness response and recovery
- ▶ Goal 6: Environmental Stewardship - Ensure that the Agency's operations and services minimize negative impacts on the environment
- ▶ Goal 7: Business Services - Support, sustain and advance County and Agency programs through a vital business and administrative support system

The background features abstract, overlapping geometric shapes in various shades of green, ranging from light lime to dark forest green. These shapes are primarily located on the right side of the slide, creating a modern, layered effect. The text is centered on a white background.

PROJECT & PROGRAM OVERVIEW 2010 THRU 2019

Transportation Projects & Programs (2010 to 2019) **\$226 Million**

- Pedestrian and Bicycle Facilities Program **\$37.8M**
- Major Infrastructure Improvement Program **\$82.4M**
- Major Maintenance Program **\$18.4M**
- Pavement Management Program **\$63.8M**
- Transportation Infrastructure Safety Program **\$22.8M**

Pedestrian and Bicycle Facilities \$37.8 M

(\$15.3M in Eden Area)



Maud Avenue \$2.8M



Grove Way \$3.7M



Haviland Avenue \$1.4M



162nd Avenue \$1.7M



Christensen Lane \$0.9M

Pedestrian and Bicycle Facilities (cont.)

(\$15.3M in Eden Area)



Ashland Avenue \$1.4M



Foothill Boulevard \$2.1M



Marshall/Omega \$1.8M



East Avenue \$2.8M



Lake Chabot Road Buffered Class II



Fairmont Drive \$2.1M

Pedestrian and Bicycle Facilities

(\$15.3M in Eden Area)

- ▶ 163rd Avenue
- ▶ Maubert Avenue
- ▶ 162nd Avenue
- ▶ Ashland Avenue
- ▶ San Miguel Avenue
- ▶ Marshall Street
- ▶ Omega Avenue
- ▶ Christensen Lane
- ▶ Orange Avenue
- ▶ Boston Road
- ▶ Grove Way
- ▶ Haviland Avenue
- ▶ Laurel Avenue
- ▶ Mattox Road
- ▶ West Blossom at UPRR
- ▶ Foothill Boulevard
- ▶ Maud Avenue
- ▶ Pleasanton Avenue
- ▶ Hacienda Avenue
- ▶ Fairmont Drive
- ▶ Hathaway Avenue
- ▶ Via Enrico
- ▶ Channel Street
- ▶ Main Street
- ▶ Santa Maria Avenue
- ▶ 164th Avenue/Blossom Way
- ▶ Center Street
- ▶ Western Boulevard
- ▶ East Avenue

Major Infrastructure Improvement Projects

\$73.4 Million

(\$36.5M in Eden Area)



Grant Avenue \$3.2M



Meekland Avenue \$8M

Major Infrastructure Improvement Projects (cont.)



Castro Valley Boulevard \$12M



Lewelling Boulevard \$24M



Washington Avenue \$1M



Stanley Boulevard \$20M

2010-2019 Pavement Management

\$63.8M

- ▶ \$63.8 M in Overlay and Slurry Seal Projects
- ▶ 203.6 Miles of Streets and Roads Resurfaced
- ▶ Average PCI = 73 (Very Good)
- ▶ **50% of Roadway Resurfaced in Eden Area**



2010 - 2019 Pavement Rehabilitation Program

Over 860 street segments

171ST AVE
172ND AVE
174TH AVE
BEVILAQUA ST
CADY CT
CREST AVE
DELANO ST
EHLE ST
LOMITA DR
PICO PL
RANSPOD DR
REGENT WY
ROGERIO ST
ROLANDO AVE
RUSSELL CT
VENTRY WY
149TH AVE
150TH AVE
ALTAMONT RD
AURELIA AVE
BOULEVARD CT
CAMBRIDGE AVE
CAMDEN AVE
CONCORD AVE
FLORENCE ST
HACIENDA AVE
LUCOT ST
MEDFORD AVE
PLACER DR
SATURN DR

SOL ST
UPLAND RD
NIELSON AVE
VIA LACQUA
CORTE MARIANA
CORTE GERALDO
CORTE YOLANDA
VIA SECO
VIA DEL REY
156TH AVE
BARTLETT AVE
BAY VIEW AVE
CYNTHIA CT
GARDEN AVE
GROVE WY
HAVILAND AVE
JACOBS CT
MOSSELLE CT
PERLITA CT
RALSTON CT
RALSTON PL
RALSTON WY
ROBERTO ST
ROBEY DR
SUNSET BLVD
VALLEJO ST
WEST SUNSET BLVD
VIA CORDOBA
VIA GRANADA
VIA HERMOSA

VIA MARLIN
VIA TOLEDO
164TH AVE
167TH AVE
ANITA AVE
ARCADIAN DR
CALIFORNIA ST
PANORAMIC WY
CAMEO CT
CONGRESS WY
CROW CANYON PL
EDWARDS LN
HUNTINGTON CT
LENROSS CT
MAGEE WY
MARCIEL CT
NANDO CT
OLEANDER CT
PARK WY
SAN CARLOS AVE
SCHOOL WY
SEVEN HILLS RD
STROBRIDGE AVE
VINEYARD RD
WALNUT RD
WATTERS CT
WATTERS DR
CASTLEWOOD DR
CASTLEDOWN RD
LOWER GOLF RD

GREENS LN
CASTLEWOOD PL
FAIRWAYS LN
VIEW DR
COLBY ST
CORNELL ST
DARIUS WY
DOANE ST
DREW ST
EMPIRE ST
HOWE DR
JOAN DR
LUNA AVE
MIDLAND RD
MILLS AVE
PENN AVE
POMONA ST
RUTGERS ST
TULSA ST
VAN AVE
VASSAR AVE
WAGNER ST
YALE AVE
CHANNEL ST
PASEO GRANDE
VIA AIRES
VIA ALAMITOS
VIA ALAMO
VIA ARRIBA

VIA ARRIBA
MINNIE ST
NINA CT
VIA PIEDRAS
VIA ROSAS
EDEN CANYON RD
HARMONY CT
HARMONY DR
HAVEN ST
KENDALL WY
LANGTON WY
PARADISE BLVD
RAGLAND ST
WESTERMAN CT
CRESCENT AVE
GEM CT
KNOX ST
N SIXTH ST
N FIFTH ST
N FOURTH ST
RUBY ST
SYDNEY WY
VERONICA AVE
WILSON AVE
151ST AVE
152ND AVE
153RD AVE
155TH AVE
BLOSSOM WY
BOSTON RD

CHERRY WY
FAIRVIEW AVE
HARDEMAN ST
PICKFORD WY
PLAZA DR
SPARKS WY
W BLOSSOM WY
WINCHESTER DR
WINDFELDT DR
WOODROE AVE
WOODROE CT
DEL VALLE RD
GREENVILLE RD
FAIRMONT DR
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
BUCKEYE DR
CANYON OAKS CT
CLEAR SPRINGS CT

* Eden Area Roadways in Red

Major Maintenance Projects \$18.4M



LED Conversion



Bridge Maintenance



Damage Repairs



Slide Repairs

- Palomares Road Slide Repairs
- Foothill Road Slide Repairs
- Mines Road and Foothill Road Drainage Inlet Replacement Project
- Park Street Barrier Restraint Replacement
- Miller Sweeney Bridge Dolphin Pile Replacement
- 166th Avenue Retaining Wall
- High Street Bridge Center Lock Replacement
- Estuary Bridge Seismic Retrofit Projects
- Redwood Road Road Slide Repair
- Conversion to LED Street Lights

Transportation Infrastructure Safety Program \$22.8M



Speed Humps/Tables

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

Speed Humps/Tables

- ▶ Rolando Avenue
- ▶ Palomares Road
- ▶ **Via Arriba**
- ▶ **Via Manzanitas**
- ▶ Alana Road
- ▶ Palo Verde Road
- ▶ **Via Catherine**
- ▶ **Princeton Street**
- ▶ Happy Valley Road
- ▶ Foothill Road
- ▶ Patterson Pass Road
- ▶ **West Sunset Boulevard**

Speed Humps/Tables

- ▶ **Via Toledo**
- ▶ Palomares Road
- ▶ Seaview Avenue
- ▶ Huber Drive
- ▶ Lessley Avenue
- ▶ Edwards Lane
- ▶ **Tracy Street**
- ▶ **Via Media**
- ▶ **Birch Street**
- ▶ Tesla Road

Flashing Beacons and High Visibility Crosswalks



Speed Display Signs

Transportation Infrastructure Safety Program (cont.)



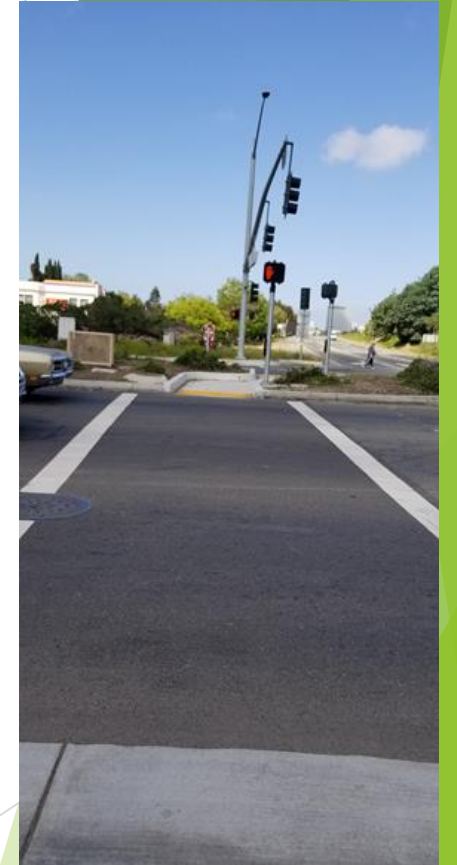
East 14th at 163rd Signal \$1.6M



Blossom RR Xing \$0.5M



Patterson Pass Road \$2.6M



Redwood Road at I-580 \$0.5M



CVB at Wisteria Signal \$1.8M



Kilkare Rd at Main St \$1.1M

\$260 Million in Upcoming Transportation Projects

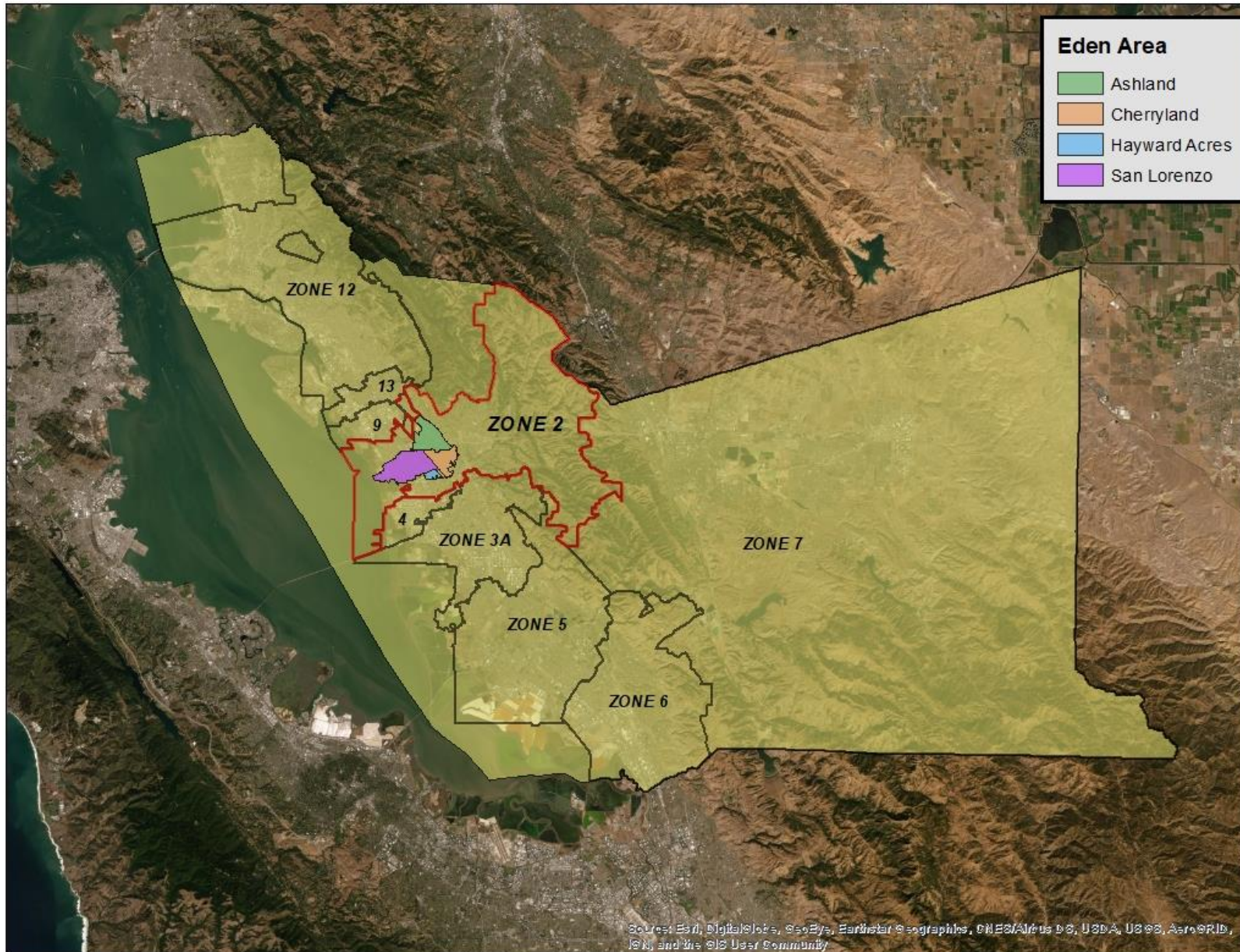
\$126 Million in Eden Area



- ▶ EAST 14TH STREETSCAPE PHASE II (\$19M)
- ▶ Mission Boulevard Streetscape and Utility Undergrounding (\$50M)
- ▶ STANTON AVENUE SIDEWALK (\$5M)
- ▶ Crow Canyon Road Resurfacing (\$10M)
- ▶ D Street Sidewalk (\$7M)
- ▶ Traffic Signal ECVB at Palo Verde (\$0.7M)
- ▶ Meekland Avenue Sidewalk Phase II (\$11M)
- ▶ Redwood Road Sidewalk (\$1M)
- ▶ Lake Chabot Road Sidewalk (\$1M)
- ▶ Mabel Avenue Sidewalk (\$1M)
- ▶ Royal Avenue Sidewalks (\$1M)
- ▶ Enforcement Turnouts Crow Canyon Road, Redwood Road, Palomares Road (\$1M)
- ▶ Countywide Pavement Rehabilitation (\$64M)
- ▶ 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)
- ▶ Haviland Avenue Sidewalks (\$1.2M)
- ▶ Crow Canyon Road Storm Damage Repairs (\$1.5M)
- ▶ Collier Canyon Road Storm Damage Repairs (\$1.5M)
- ▶ Fairmont Drive Guardrail (\$1M)
- ▶ West Sunset and Garden Avenue Sidewalks (\$1M)
- ▶ East Lewelling Boulevard Sidewalk Project (\$7M)
- ▶ HESPERIAN BOULEVARD UTILITY UNDERGROUNDING (\$3M)
- ▶ Hesperian Boulevard Streetscape (\$31M)
- ▶ Greenville Road at Tesla Road (\$1.1M)
- ▶ West Sunset and Garden Sidewalks (\$1M)
- ▶ Arroyo Road Bridge Replacement (\$3M)
- ▶ Castlewood Drive Bridge Replacement (\$5M)
- ▶ Anita Avenue Sidewalk (\$5M)
- ▶ Estuary Bridge Preservation Projects (\$12M)
- ▶ Somerset Avenue Sidewalk (\$6M)
- ▶ Signalized Intersection Safety Project (\$2M)
- ▶ Unsignalized Intersection Safety Project (\$2M)
- ▶ Rural Road Safety Project (\$2M)

Flood Control Projects and Programs

Flood Control Program



Districtwide

- 199.6 miles natural creek
- 100 miles earthen channel
- 36.4 miles concrete channel
- 240 miles underground pipe
- 13.3 miles improved channel
- 24 pump stations
- 3 dams/reservoirs

Flood Control Projects delivered \$193.8 million (2010-2020)

- **2010-2020 Improvement Projects** **\$182.9 million**
 - Capacity Improvement Projects (**\$97.5M**)
 - Restoration Projects (**\$53M**)
 - Major Flood Control Maintenance Projects (**\$32.4**)
- **2010-2020 Watershed Planning Studies** **\$10.9 million**

Capacity Improvement Project

Laguna Creek - Post-construction with Floodwalls and Lowered Access Roads



Pre-construction with Levees



During Construction



Ward Creek Floodwall Improvement Project



Chabot Creek Restoration



San Lorenzo Creek Trail



Desilting/Creek Restoration Project

Bockman Canal



San Lorenzo Creek Bank Repair



\$66M in Upcoming Flood Control Projects

Line B Levee Raise downstream of Line F	450,000
San Leandro Creek Urban Greenway Trail between Hegenberger Road and 105th Avenue	5,200,000
San Lorenzo Creek Embankment Repairs Behind Wingate Way	1,800,000
F Pump Station Drainage Bypass	300,000
Lake Merritt Pump Station Trash Rack Rehabilitation	720,000
Lake Merritt Pump Station Flow Control Gates Rehabilitation Phase 1	250,000
Line P Grading Between Patterson Ranch Rd. and 2,100' downstream of Paseo Padre Pkwy.	1,200,000
Line D Channel Restoration Between Cherry Street and UPRR	5,000,000
Alameda Creek Restoration between BART Weir and Downstream of Isherwood Way	27,000,000
Line K-1 Channel Restoration between Alice Court and Olive Avenue	1,500,000
Line M Storm Drain Bypass along San Leandro Street between 81Ave. and 85 Ave.	6,500,000
Ruus Road Pump Station Engine Replacement (2 Engines)	320,000
Line A, Improve Levee UPRR to Union City Blvd.	2,500,000
Mission Creek Crossing at Lemos Lane (Phase 2)	775,000
Laguna Creek Channel Improvements between Grimmer Blvd. and Auto Mall Parkway	5,200,000
Laguna Creek Channel Improvements between Starboard Drive and I-880	4,000,000
Ettie Street Pump Station Modifications - Heat Exchanger and Appurtenances	805,000
Watershed and Special Studies	2,600,000

Maintenance & Operations

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Maintenance & Operation Services



Flood Control Maintenance \$127M

\$315 million
2010 to 2019



Fleet Maintenance \$27.5M



Road Maintenance \$112.5M



Bridge Operations \$32.5M



Community Preservation \$15M

Flood Control Maintenance

Maintain **580** 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 **24** 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 93 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 Agency
- Alameda County Sheriff's Department
- Alameda County Public Health Department



Bridge Operations

- 
- ✓ Operate & Maintain 6 Estuary Bridges
 - ✓ 24/7 draw operations
 - ✓ 1867 bridge openings for 2019
 - ✓ Support commerce for Alameda, Oakland, and the estuary waterway
 - ✓ Over 80,000 vehicles per day (29+Million vehicles/year)
 - ✓ Total boats 2053 - Total barges 793 for 2019

(High, Park, Fruitvale & Bay Farm Island Bridges)

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



ALAMEDA COUNTY Unincorporated Area Graffiti Abatement

16,936 Tag Locations
666,710 Sq. Ft. of Graffiti Removed
Total Cost - \$634K



**Graffiti Map
2010 through 2019**

BUILDING PERMITS AND INSPECTION SERVICES

BUILDING PERMITS AND INSPECTION SERVICES



Residential/Building Permits



Cherryland Community Center

- Building Permits per Year
 - Issued 7,403 Permits
 - Performed 19,169 Inspections
 - Issued 332 On Line Permits
 - Issued 468 Residential Solar Permits

- Encroachment/Grading Permits per Year
 - Issue 550 Permits
 - 320 Utility Permits
 - 220 Roadway Permits
 - 45 Flood Control Permits
 - 15 Grading Permits

EMERGENCY RESPONSE AND PREPAREDNESS

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Emergency Response and Preparedness

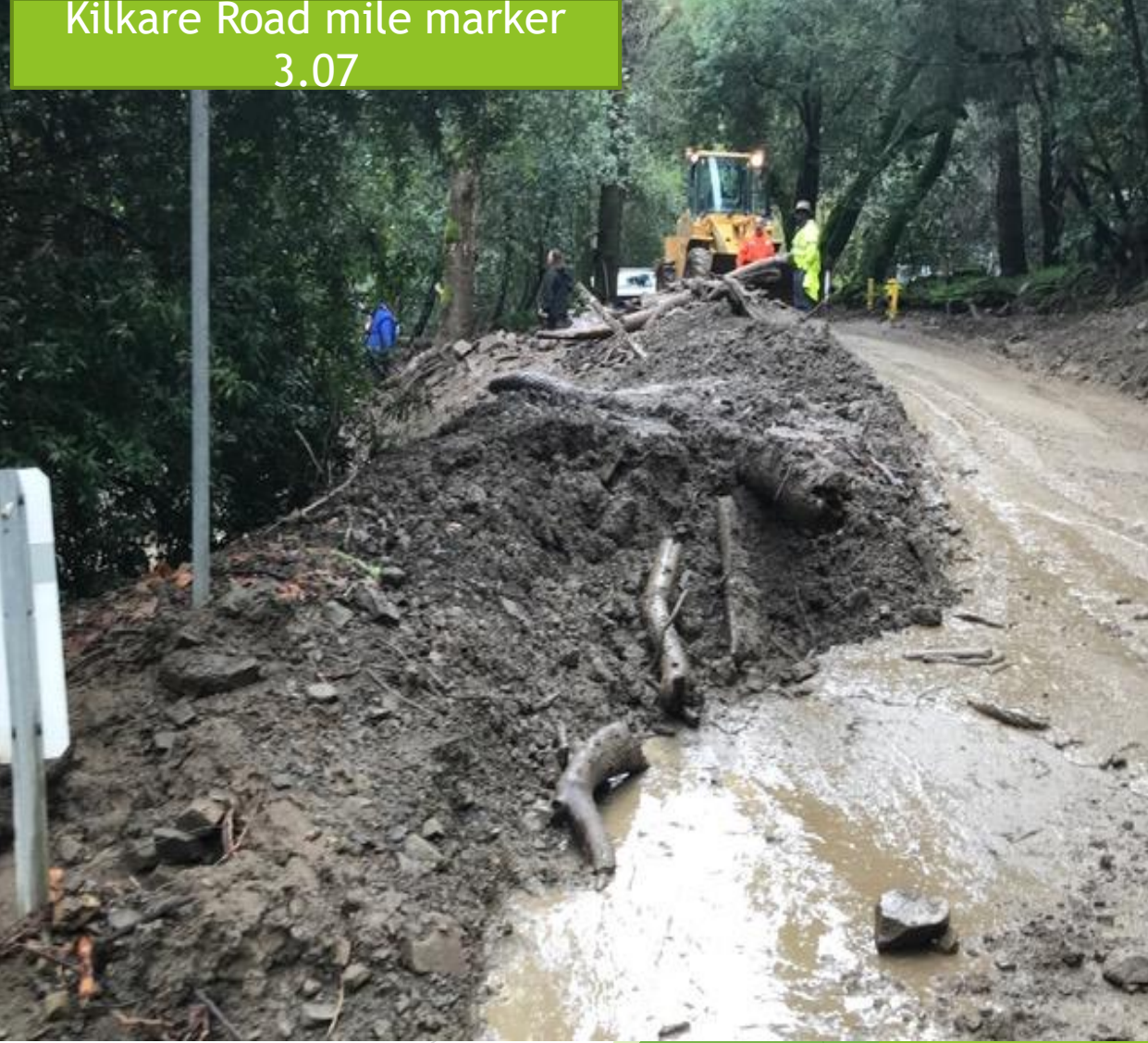


Redwood Road mm 7.38

Emergency Response and Preparedness



Tesla Road mm 3.63 slope failure along shoulder



Kilkare Road mile marker 3.07

Emergency Response and Preparedness

Calavera Road mile marker 5.37



Mines Road slip-out



Emergency Response and Preparedness



Palomares Road mm 8.73
(before)



Palomares Road mm 8.73 (after)

Emergency Response and Preparedness



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.

Emergency Response and Preparedness



Altamont Pass Road Flooding



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

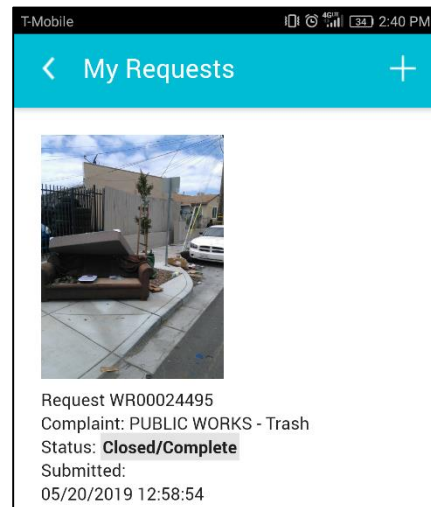
Other Public Works Agency Services

- Clean Water Program
- Environmental Services & Regulatory Permitting
- Right of Way Services
- County Surveyor Services
- Traffic Engineering
- Transportation Planning
- Construction Management Services
- Development & Facilities Engineering
- County Service Area Administration

Mobile Citizen by MAINTSTAR



MOBILE CITIZEN is a free, user-friendly smart phone application that allows local residents to report non-emergency issues (potholes, graffiti, illegal dumping, etc.) in the unincorporated area directly to the Alameda County Public Works Agency.



To create a request, you simply...

1. Open the App
2. Select the type of service request
3. Take a photo of the issue
4. Briefly describe the problem
5. Enter the problem location
6. And then submit!

Questions?