

Update on Street Pavement Condition

San Leandro City Council

April 19, 2021

Our largest asset

592 streets divided into 1048 maintenance segments.

Replacement cost = \$436M (pavement only)

PCI = Pavement Condition Index (100=good to 0=bad)

	# segments	Centerline miles	Avg PCI
Arterial	121	24.1	67
Collector	183	38.7	61
Local	744	111.5	43
Total	1048	174.3	54

Bike lane / bike route streets:

# segments	Centerline miles	Avg PCI
199	44	66



Maintaining our Streets

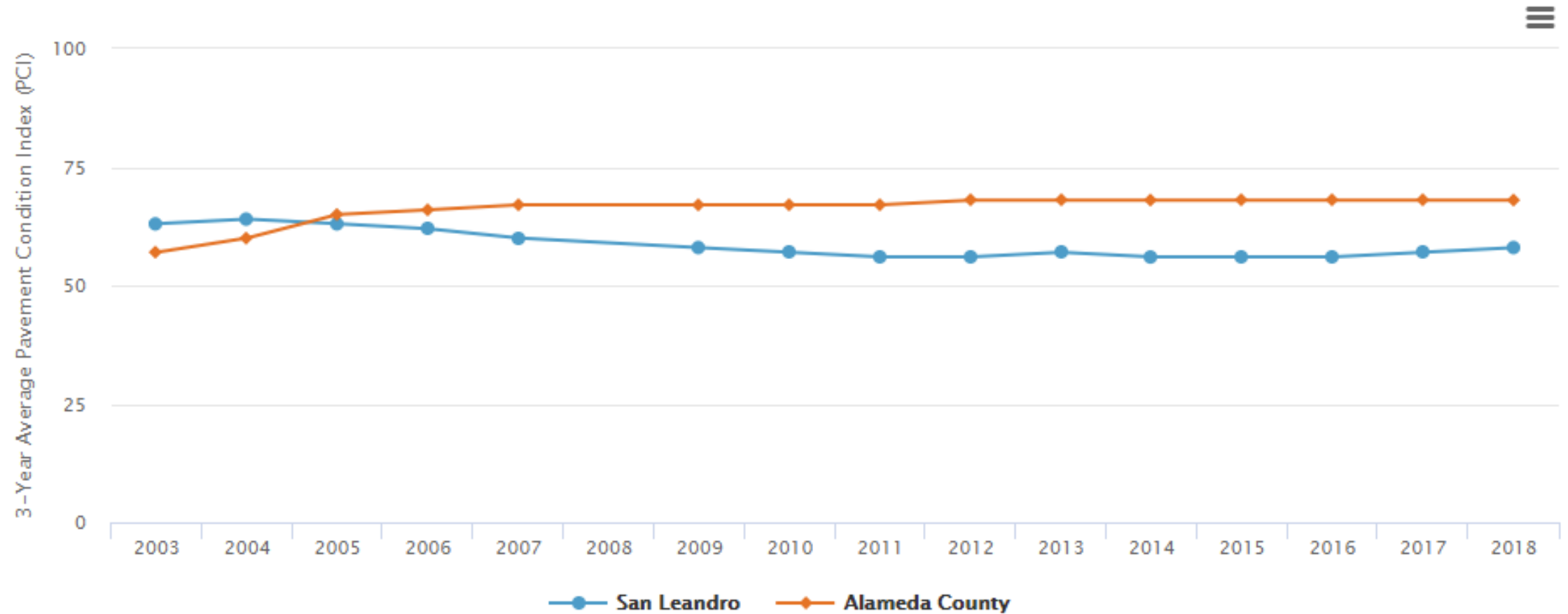
Basic Work Types	Cost (local street)	Disruption	Limitations	Complete Streets Features Included
Slurry seal	\$8/SY	1 day	No change to profile	Striping only
Cape seal	\$19/SY	2 days	No change to profile	Ramps and striping
Mill and Fill	\$92/SY	1 week	Not appropriate for steep cross sections. Limited repair of base.	Ramps, crosswalk slope, bulb outs without drainage, striping
Reconstruction	\$109/SY	2 weeks	Shallow utilities will increase cost.	Ramps, bulb outs with drainage, RRFB, striping

Example of repair costs

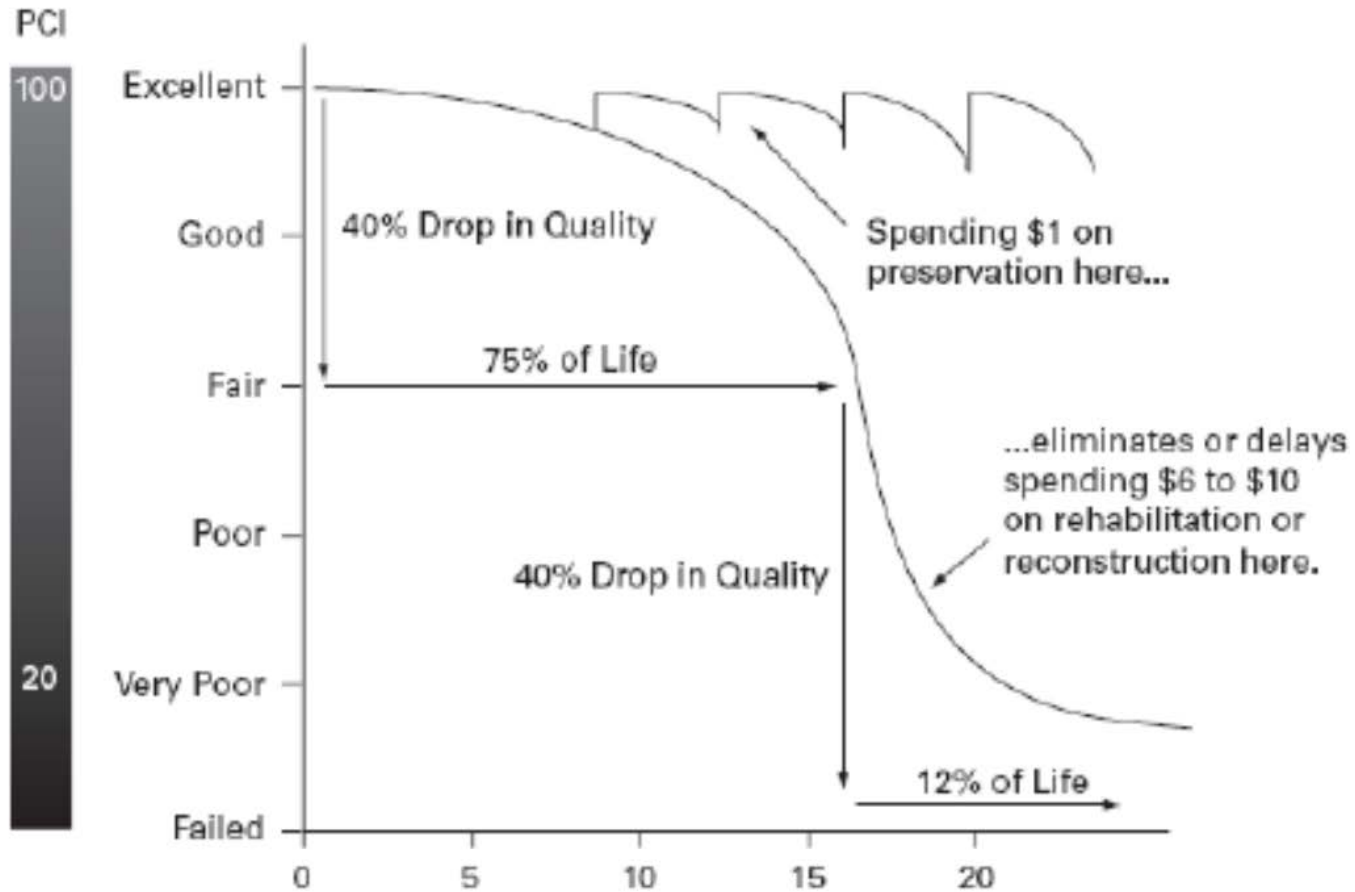
Fordham Avenue 29' x 793'

- Seal \$20k
- Cape \$49k
- Mill and Fill \$235k
- Reconstruction \$279k

Historical condition data



Pavement Deterioration Curve



Applied to a street

Applied to a network

Preservation = Street Seal
Preservation is like fixing the roof
on a house

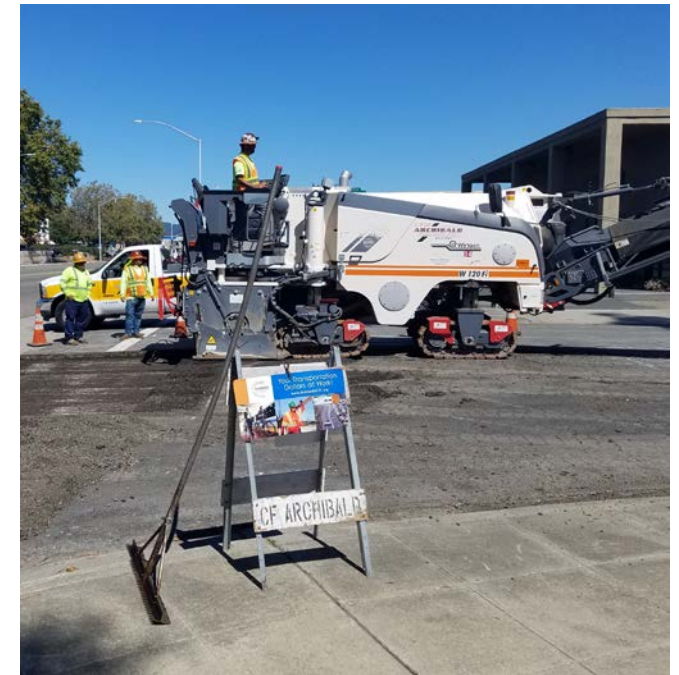
Funding Scenarios

- | | |
|-----------------------------------|----------------|
| • Improve to PCI 76 in 5 years* | \$36.4M/year** |
| • Improve to PCI 60 in 5 years | \$17.6M/year** |
| • Maintain existing PCI (54) | \$11.1M/year** |
| • Anticipated funding FY 22 FY 23 | \$9.0M/year*** |

*PCI = 76 is listed as goal T5.3 in the General Plan.

**These projections assume that existing streets have structurally adequate pavement and that funds are used in the most efficient manner possible. However, San Leandro has many streets that are not structurally adequate, and we typically use a portion of our budget repairing failed pavement which is not the most efficient use of the funds.

***Approximately \$4M General Fund and \$5M outside funding/year.



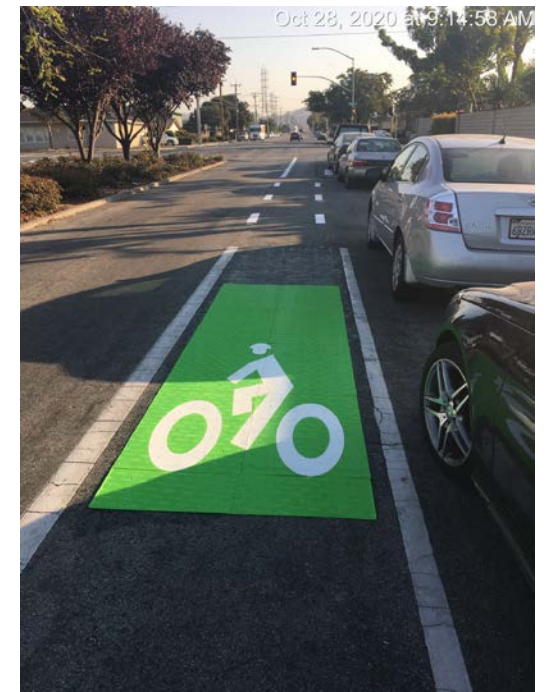
Accomplishments FY 20 - 21

- Prep work for paving projects: Concrete



Accomplishments FY 20 - 21

Prep work for paving projects: Storm drains and bulb outs
Striping for bicycle network streets

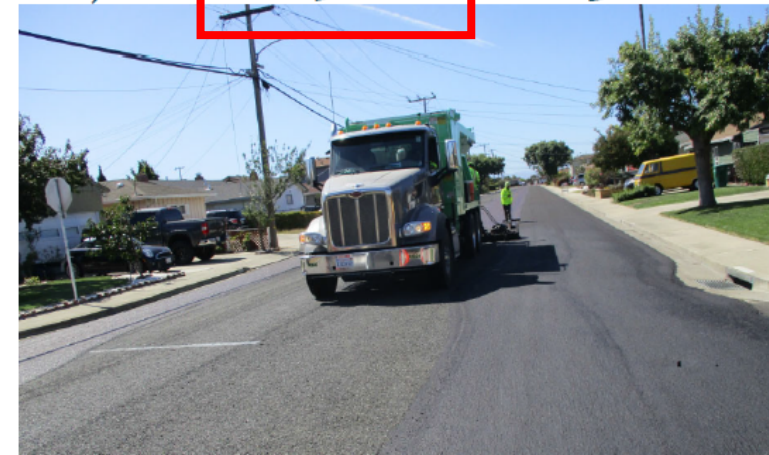
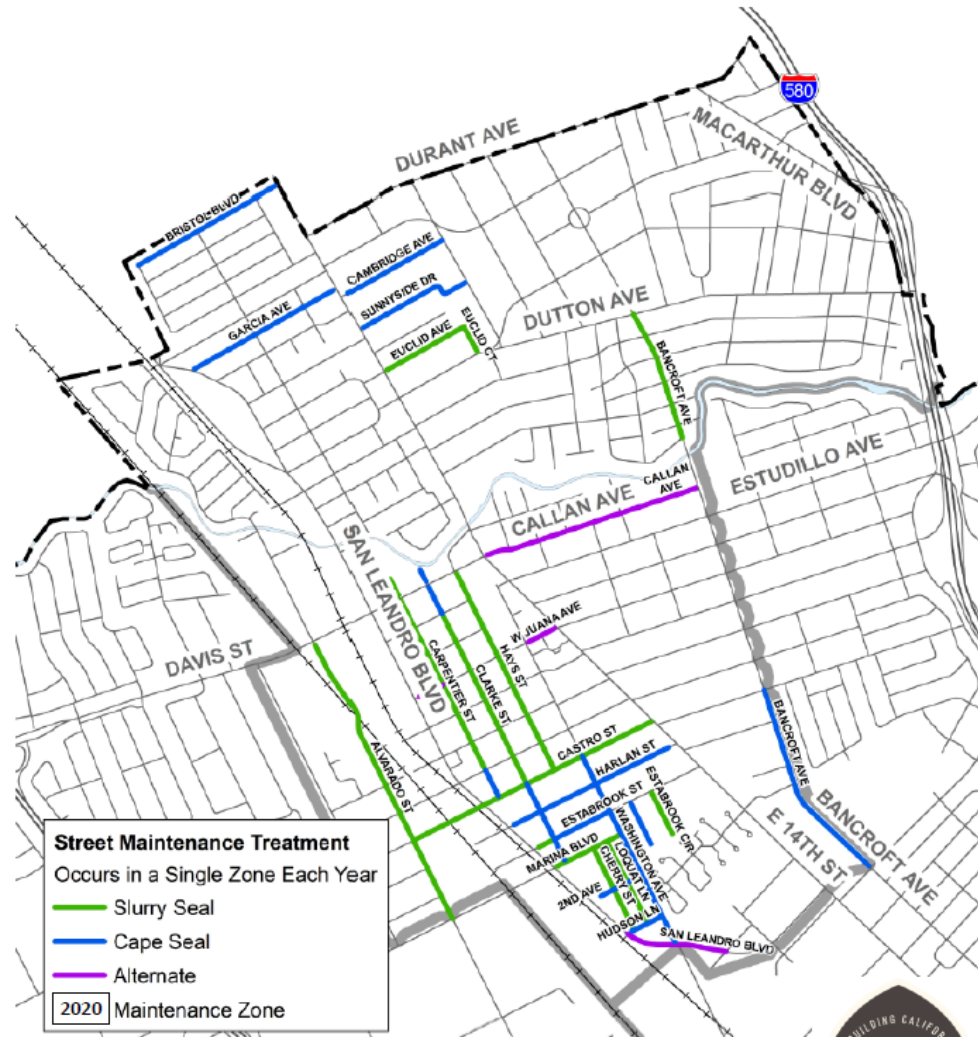


Planned Work

Delayed one season by COVID shutdown. Sealing will occur in 2021



Annual Street Sealing Project 2019-20 - \$2.5M



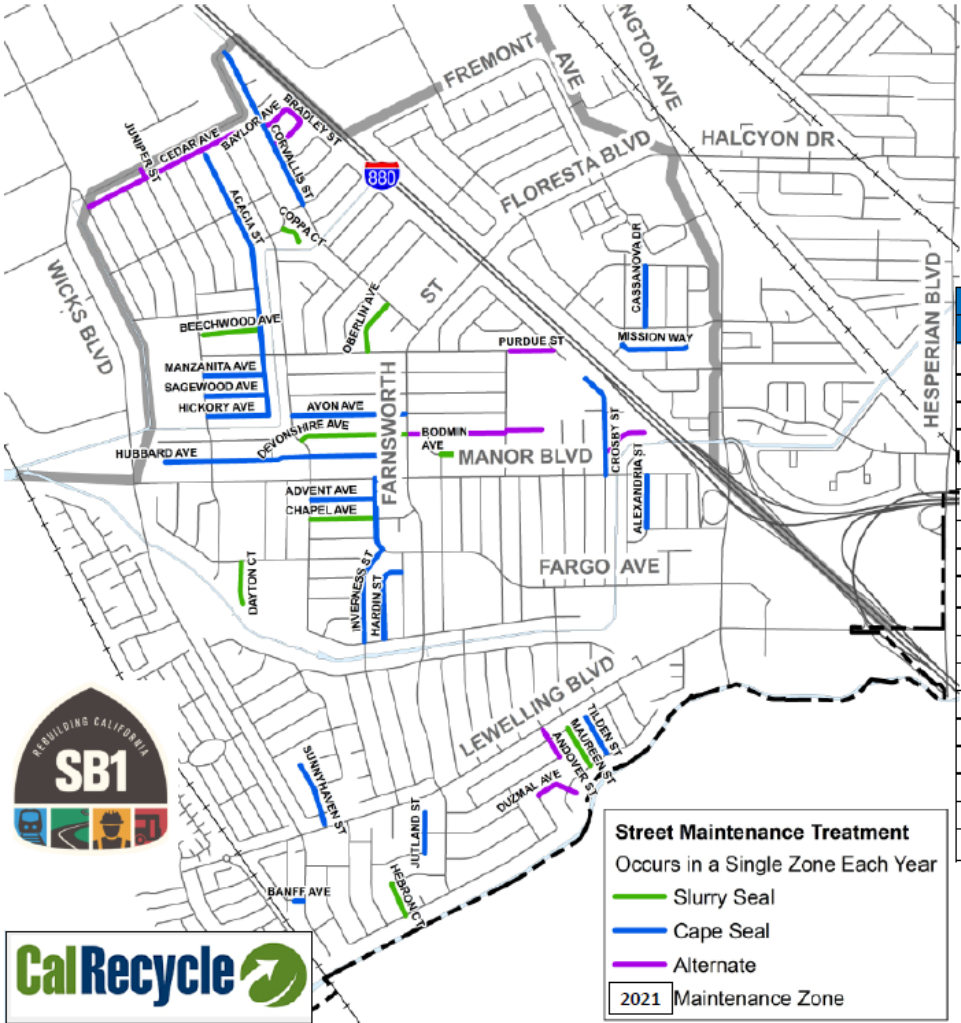
Cape Seal Locations			Slurry Seal Locations		
Street Name	Begin Location	End Location	Street Name	Begin Location	End Location
Bancroft Av	Sybil Av	136th Av	Alvarado St	Davis St	MARINA BL
Bristol Bl	Dorchester Av	E. 14th St	Bancroft Av	Dutton Av	Lee Av
Buena Vista Av	Estabrook St	Cul-de-sac	Carpentier St	Cul-de-sac	Davis St
Cambridge Av	E. 14th St	Breed Av	Carpentier St	Davis St	Williams St
Carpentier St	Williams St	Castro St	Castro St	Alvarado St	E. 14th St
Clarke St	Davis St	Cul-de-sac (north)	Cherry St	Hudson Ln	Marina Bl
Clarke St	Davis St	W. Estudillo Av	Clarke St	W. Estudillo Av	Castro St
Clarke St	Castro St	Marina Bl	Estabrook Ci	Estabrook St	Cul-de-sac
Estabrook St	Washington Av	Clarke St	Estabrook St	Clarke St	San Leandro Bl
Garcia Av	E. 14th St	Park St	Euclid Av	E. 14th St	Euclid Ct
Harlan St	E. 14th St	San Leandro Bl	Euclid Ct	Euclid Av	Dutton Av
Hudson Ln	Washington Av	San Leandro Bl	Hays St	Davis St	Castro St
Second Av	Washington Av	W TO DEAD END	Loquat Ln	Marina Bl	Hudson Ln
Sunnyside Dr	Washington Av	E. 14th St	Marina Bl	San Leandro Bl	Washington Av
Washington Av	Castro St	San Leandro Bl	Bid Alternat Locations		
			Callan Av	E. 14th St	Bancroft Av
			San Leandro Bl	Hudson Ln	Coburn Ct
			W. Juana Av	E. 14th St	Washington Av
			W. Juana Av	Carpentier St	San Leandro Bl



Planned Work



Annual Street Sealing Project 2020-21 - \$2.5M



Cape Seal Locations			Slurry Seal Locations		
Street Name	Begin Location	End Location	Street Name	Begin Location	End Location
Acacia St	Cedar Av	Hickory Av	Beechwood Av	Juniper St	Acacia St
Advent Av	Wiley St	Inveness S	BodminAv	Edgemoor St	Zelma St
Alexandria St	Manor Bl	Beatrice St	Chapel Av	Wiley St	Inveness St
Avon Av	Wiley St	Farnsworth St	Coppa Ct	Ottawa Av	cul-de-sac
Banff Av	Wicks Bl	Cul-de-sac	Dayton Ct	Dayton Av	cul-de-sac
Casanova Dr	Camel Way	Monterey Bl	Devonshire Av	Wiley St	Farnsworth St
Corvallis St	Ottawa Av	Dead End (n. of Amherst)	Hebron Ct	Nelson St	Vining Dr
Crosby St	Manor Bl	Washington Manor Park	Maureen St	Belleau St	Kramer St
Hardin St	Trojan Av	Galt St	Oberlin Av	Corvallis St	Purdue St
Hickory Av	Juniper St	Acacia St	Bid Alternat Locations		
Hubbard Av	Devonshire Av	Dead End (w. of Juniper)	Andover St	Breckenridge St	Lewelling Bl
Inveness St	Manor Bl	Trojan Av	Cedar Av	Hemlock St	Merced St
Jutland St	London Av	cul-de-sac	Devonshire Av	Farnsworth St	Zelma St
Manzanita Av	Juniper St	Acacia St	Devonshire Av	Zelma St	cul-de-sac
Mission Way	Crespi Dr	Serra Dr	Juniper St	Cedar Av	cul-de-sac
Sagewood Av	Juniper St	Acacia St	Purdue St	Zelma St	Crosby St
Sunnyhaven St	Lewelling Bl	Cul-de-sac (n. of Laveme)	Baylor Av	Corvallis St	Bradley St
Tilden St	Hoad St	Kramer St	Bradley St	Baylor Av	Butler Av
			Butler Av	Corvallis St	Bradley St
			Duzmal Av	Fams St	cul-de-sac



Planned Work

Prep work started late 2020. Paving to occur in 2021.

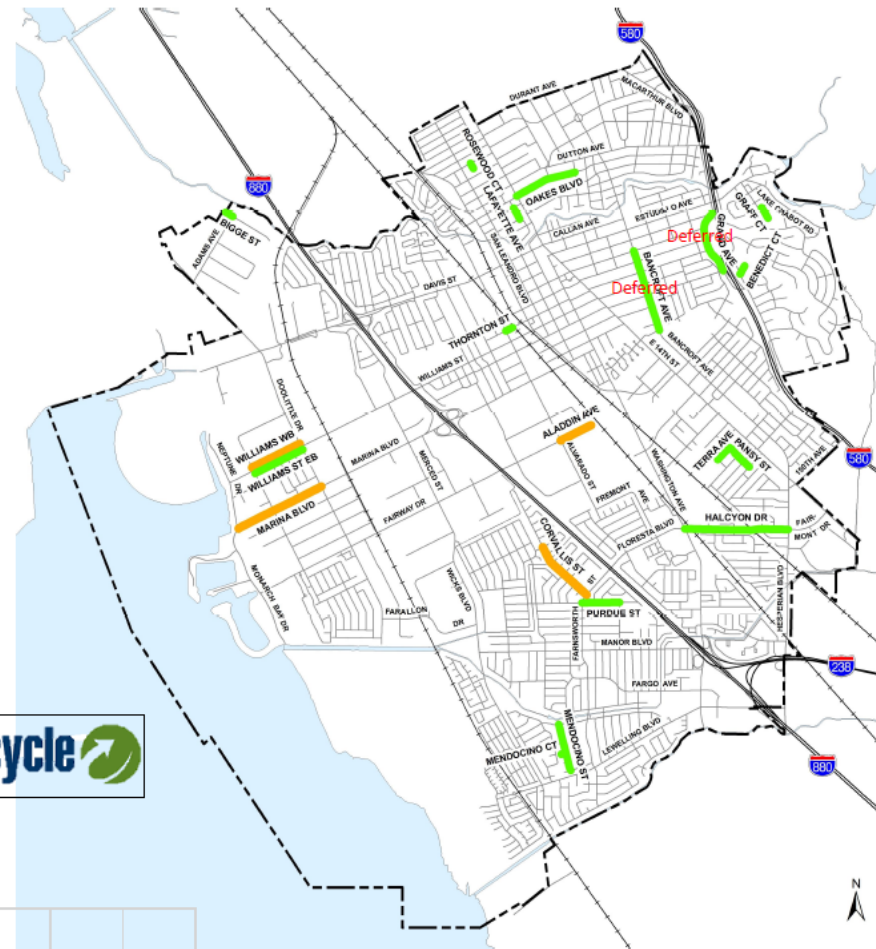
Annual Street Overlay/Rehabilitation

Project 2018-20 - \$13.5M



Legend:

- Mill and Fill Streets
- Reconstruction Streets



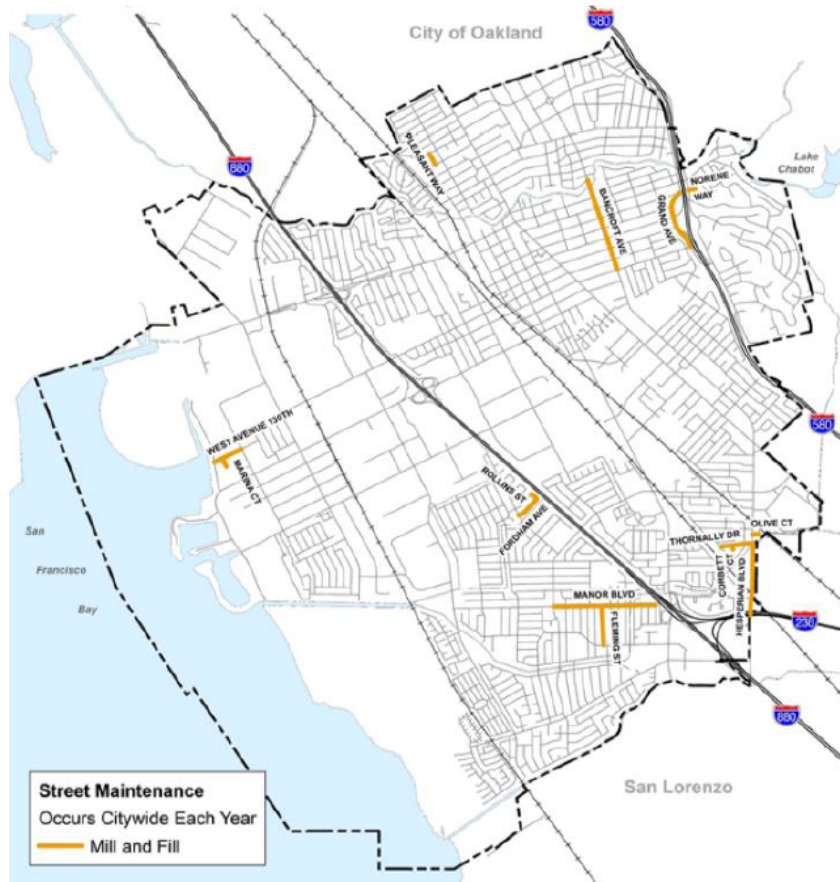
Mill and Fill Streets		
Street	Start Location	End Location
Bancroft Ave	Juana Ave	Blossom Ave-
Benedict Ct	Benedict Ave	East End (Cul De Sac)
Bigge St	Adams Ave	N. City Limits
Graff Ct	Graff Ave	South to End (Cul De Sac)
Grand Ave	Joaquin Ave	Sybil Ave
Halcyon Dr	Washington Ave	Hesperian Blvd
Lafayette Ave	Lorraine Blvd	California Ave
Pansy St	Terra Ave	Lillian St
Terra Ave	Pansy St	Julietta St
Purdue St	Farnsworth St	Zelma St
Mendocino St	Burkhart Ave	Randy St
Mendocino Ct	Mendocino Ave	Cul De Sac
Rosewood Ct	Bellevue Dr	South End (Cul De Sac)
Thornton St	Alvarado St	Barricade at End (SPRR)
Williams St - EB	Aurora Dr	Doolittle Dr
Oakes Blvd	East 14th St	Woodland Ave
Reconstruction Streets		
Street	Start Location	End Location
Aladdin Ave	Alvarado St	East End (Cul De Sac)
Corvallis St	Farnsworth St	Ottawa Ave
Marina Blvd	Neptune Dr	Doolittle Dr
Williams St - WB	Aurora Dr	Doolittle Dr

Planned Work



Prep work to begin late 2021. Paving planned for 2022.

Annual Street Overlay/Rehabilitation Projects 2019-21- \$13.7 M

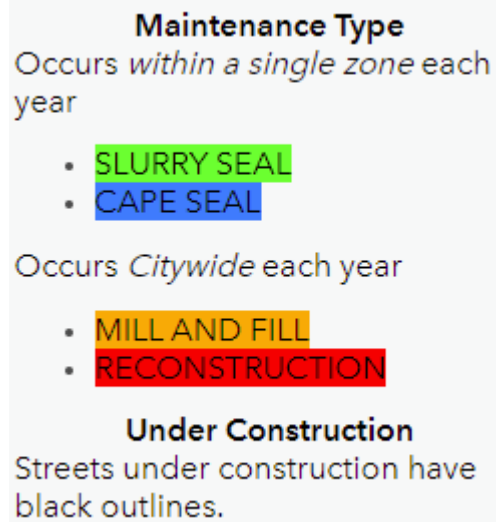


Street Name	Start Location	End Location
Bancroft Ave	Lee Ave	Sybil Ave
Corbet Ct	Thornally Dr	North End (Cul De Sac)
Fleming St	Fargo Ave	Manor Blvd
Fordham Ave	Corvallis St	Rollings St
Grand Ave	Joaquin Ave	Sybil Ave
Hesperian Blvd	Thornally Dr	CV Freeway
Manor Blvd	Kesterson St	Farnsworth Blvd
Marina Ct	West Ave 130th	South End (Cul De Sac)
Norene Way	Benedict Dr	Sandelin Ave
Olive Ct	Hesperian Blvd	East End (Cul De Sac)
Pleasant Way	Stoakes Ave	Bellview Dr
Rollins St	Ottawa Ave	Fordham Ave
Thornally Dr	Hesperian Blvd	Central Ave
West Ave 130th	Monarch Bay Dr	Aurora Dr



Planned Work

Map of all paving projects can be found on [Geosl.org](https://www.geosl.org)



Summary

- Underfunding pavement maintenance means that future repairs will be more costly and more disruptive.
- Dedicated outside funding covers less than half of our maintenance needs.
- Without additional consistent funding, roadway pavement will continue to deteriorate.

