



Memorandum

TO: HONORABLE MAYOR AND
CITY COUNCIL

FROM: John Ristow

SUBJECT: 2019 PAVEMENT MAINTENANCE
PROGRAM

DATE: December 13, 2018

Approved

Date

12-17-18

INFORMATION

This memorandum provides the City Council with information on planned locations for pavement maintenance work on City streets during calendar year 2019.

BACKGROUND

For the first time in recent history, the Pavement Maintenance Program is fully funded for the upcoming construction season. In fact, with two notable outcomes from the November election and the prospect of a favorable resolution to the VTA 2016 Measure B lawsuit on the horizon, the City's Pavement Maintenance Program should be fully funded for at least the next six years based on funding need projections performed in early 2018.

In the November election, California's gas tax increase known as Senate Bill 1 withstood a repeal effort and will continue to provide the City with an estimated \$17.5 million in annual pavement maintenance funds that will be programmed for use on the City's major streets in 2019. Additionally, San José voters approved Measure T, the Disaster Preparedness, Public Safety, and Infrastructure Bond Measure, which will provide \$300 million to repair an estimated 388 miles of local and neighborhood streets in the worst condition starting in 2020.

Regarding VTA 2016 Measure B, which was passed by the voters in 2016, the City has been unable to use the resulting funds as the measure faces a legal challenge. A decision by the Court of Appeals upholding the validity of the Measure was recently appealed to the California Supreme Court. It is expected that the California Supreme Court will decide whether to hear the case or not by February 2018. A decision by this court not to hear case in early 2018 would likely allow the City to initiate approximately \$42.8 million in maintenance projects on the City's local and neighborhood streets in 2019. However, this funding continues to be held up in litigation and the exact timing of the release of these funds is unknown. The Measure is projected to provide approximately \$19 million in on-going annual funding.

Currently, DOT estimates that \$92.8 million is needed each year for a ten-year period to achieve an overall pavement condition rating of “good”, which is a Pavement Condition Index (PCI) rating of 70 or higher. The City Council allocated approximately \$93.2 million (excluding re-budgets and carry over encumbrances from FY 2017-2018) for pavement maintenance in FY 2018-2019, which will allow for an extensive and complete maintenance program for the 2019 construction season. New funding for the 2019 program includes approximately \$42.8 million from VTA 2016 Measure B, \$26.8 million from State gas taxes, including Senate Bill 1, \$14.1 million from the City’s Transportation Construction Taxes and the General Fund, \$6.3 million from VTA 2010 Measure B (Vehicle Registration Fees), and \$3.7 million from federal grants.

DOT will provide complete analysis of the City’s current and projected pavement conditions and funding levels and needs to the Transportation & Environment Committee in early 2019.

ANALYSIS

The City’s pavement network is separated into two categories: the Major Streets Network and the Local and Neighborhood Streets Network. The 2019 Pavement Maintenance Program includes projects on both of those networks.

Major Streets Projects

The Major Streets Network consists of 944 miles of the City’s most heavily traveled streets, which collectively carry over 85% of the traffic in the City. Six separate pavement maintenance projects are being prepared and planned for implementation in 2019. Those six projects will preventively maintain or resurface approximately 95 miles of streets and include all necessary curb ramp installations and upgrades to comply with ADA requirements.

To select the major streets identified for treatment in 2019, DOT utilized information provided by the City’s Pavement Management System to generate a candidate list of streets for preventive maintenance (sealing) and rehabilitation (resurfacing). The candidate list of streets and the mix of treatments (sealing versus resurfacing) is a function of the complex analysis that the Pavement Management System performs to improve and maintain the pavement network in the most cost-effective manner with available funding. The candidate list was then thoroughly analyzed by staff using the following criteria to create the final list of streets:

- Funding availability and funding use restrictions
- Streets on the Major Streets Network
- Streets not affected by current or future street related projects
- Maintenance history and prescribed treatment schedules
- Streets associated with planned safety, bikeway or other “complete streets” projects

- Community and City Council office feedback regarding roadway conditions and priority street segments
- Relative location of street segments to create multiple, continuous segments, consistency within neighborhoods, and project efficiency
- Multi-year geographic equity across the City and street network

The following is a summary of the six Major Streets projects for 2019:

Curb Ramp & Concrete Projects (2) and Remove and Replace Asphalt Project (1)

The purpose of these three projects is to prepare streets for preventive maintenance sealing in 2019. DOT will be concurrently implementing two curb ramp and concrete projects that will install missing or retrofit existing curb ramps along streets planned for preventative maintenance to ADA standards. One of these projects will be performed in the northern half of the City and another in the southern half. A remove and replace asphalt project will repair failed areas of pavement and generally prepare the streets for the subsequent preventive maintenance sealing treatment (see Street Sealing Project below). These three contracts are planned for advertisement in December and January and are planned to for Council award in March and construction starting in March and April.

Street Sealing Project (1)

This project will perform a street sealing treatment (microsurfacing) on approximately 56 miles of major streets that are being prepared for sealing by the three projects described above. Microsurfacing is a treatment that applies a thin layer (3/8") of fine aggregate and asphalt emulsion to the surface of a street in fair to good condition to extend the useful life of the street and reduce future maintenance costs. The project will also install all final roadway markings and striping. The project is planned for advertisement in February, Council award in April, and construction starting in June.

Street Resurfacing Projects (2)

DOT will be performing two resurfacing projects to ensure project completion in 2019 on approximately 39 miles of streets. Resurfacing is a treatment in which a street in poor condition is restored to good condition by removing/replacing or reconditioning damaged pavement and applying a new 2" to 4" layer of asphalt concrete. DOT will continue to utilize the process of Cold-in-Place Recycling (CIR) as a cost effective and environmentally friendly method for pavement rehabilitation wherever appropriate. The use of rubberized hot mix asphalt as the final wearing surface will also continue. These projects will also upgrade or install new curb ramps as needed and install all new roadway markings and striping. The projects are scheduled to be advertised in January and February, awarded in April, with construction starting in June.

2018 Pavement Maintenance Projects Currently on Winter Suspension

There are 11.5 miles of streets remaining from the 2018 Pavement Program which will be completed early in the 2019 construction season. All paving work for these streets was put on winter suspension due to a sustained drop in temperatures and expected rainy conditions. All paving and remaining construction activities will resume in spring 2019.

Attached is the list of major street segments planned for preventive maintenance sealing (microsurfacing) or resurfacing in 2019. Please note that the 2019 list could be slightly altered as unforeseen circumstances arise or new information regarding other street-related projects becomes available.

Local and Neighborhood Streets Projects

DOT intended to expend \$23.8 million in VTA 2016 Measure B funds identified for allocation in FY 2017-2018 to provide significant maintenance on the Local and Neighborhood Street Network during the 2018 construction season. However, as mentioned above, the Measure is being legally challenged and all collected funds are being held in an escrow account. As a result, the maintenance planned for 2018 did not occur.

DOT is now anticipating two years of allocations estimated at \$42.8 million in early 2019, pending a favorable outcome to the litigation. DOT is prepared to initiate pavement maintenance on over 200 miles of local and neighborhood streets in 2019 should the funds become available. A description and schedule of the projects, including a list of streets to receive pavement maintenance, would be provided to the City Council at that time. Delays in the Court decision or in the release of funding could cause delays or postponement of the maintenance plan. DOT will keep the City Council informed of any significant developments in this situation. At the latest, DOT will provide an update on VTA 2016 Measure B to the Transportation and Environment Committee in March 2019 as part of its annual Pavement Maintenance Conditions and Funding Needs and Strategies Report.

Safety, Complete Streets, and Bikeway Improvements

DOT will also continue to take advantage of the annual pavement maintenance program to install various "complete street" elements that result in safer streets with improved mobility options. Newly paved streets provide a cost-effective opportunity to reconfigure vehicle lanes, enhance existing or install new bike lanes, and upgrade vehicle and bike detection systems, where appropriate. Coordination among DOT's programs and projects, as well as coordination with other departments, is a key component in developing and delivering the annual pavement maintenance program.

Regarding bike lanes, DOT looks to retain, enhance, or add bike lanes in a way that maximizes safety and the orderly flow of traffic for all roadway users while minimizing the impact to vehicle capacity and on-street parking. For 2019, streets with existing bike lanes will be evaluated for the installation of enhanced bike lanes. Work is also underway to identify and prepare designs for new bike lane installations where they do not exist. Some of these locations may impact lane configurations and on-street parking. In these cases, DOT will ensure that proper analysis and outreach to the council offices and the community occurs prior to approving and implementing any final complete street designs.

Of particular note and interest is a multi-year plan to design and build a high-quality, connected network of “Better Bikeways” for Central San Jose. The Knight Foundation funded a partnership between National Association of City Transportation Officials (NACTO) and DOT to design this network, and conceptual designs have been developed and implemented with key stakeholders and City departments that include various measures to physically protect or separate bike lanes from vehicle traffic, calm or divert vehicle traffic, and improve wayfinding and access to transit for bicyclists. In the first year of this plan, significant modifications been made to several downtown and adjacent streets, including; Second St., Third St., Fourth St., 22nd St./Monferino Dr., San Fernando St., San Salvador St., St. John St., and Taylor St./Mabury Rd. Construction work remains on-going, primarily related to the installation of protective bollards and bus platforms, with a planned completion by March 2019. Notable streets planned for the second year of Better Bikeways improvements include; Tenth St., 11th St., Autumn St., Empire St., Ryland St., San Antonio St., San Pedro St., Santa Teresa St., and St John St.

/s/

JOHN RISTOW
Acting Director of Transportation

For questions please contact Rick Scott, Deputy Director, at (408) 794-1925.

Attachment

ATTACHMENT

2019 PLANNED LIST OF STREETS FOR PAVING

Remaining 2018 Street Segments to Complete After Winter Suspension

CD	STREET NAME	BEGIN LOCATION	END LOCATION	PROJECT
3	4TH ST	SANTA CLARA ST	REED ST	SEALING
6,7	ALMADEN RD	ALMADEN EX	ALMADEN EX	SEALING
9,10	BLOSSOM HILL RD	MERIDIAN AV	ALMADEN EX	RESURFACING
6	SAN CARLOS ST	LEIGH AV	LINCOLN AV	RESURFACING
3	SAN CARLOS ST	2ND ST	4TH ST	RESURFACING
2	SANTA TERESA BL	COTTLE RD	DUNN AV	RESURFACING
11.5 MILES				

2019 Street Segments Planned for Sealing

CD	STREET NAME	BEGIN LOCATION	END LOCATION
3	10TH ST	I 280	KEYES ST
3	11TH ST	I 280	HUMBOLDT ST E
3,4	1ST ST N	ROSEMARY ST	BROKAW RD
5	ADRIAN WY	OCALA AV	STORY RD
3	AUTUMN ST	SANTA CLARA ST W	ST JOHN ST W
9	BASCOM AV N	CAMDEN AV	SAMARITAN DR
2	BASKING RIDGE AV	TENNANT AV	DANNA CT
2,10	BRANHAM LN	SNELL AV	BATTLE DANCE DR
9	BRYAN AV	CHERRY AV	JARVIS AV
9	CAMDEN AV	HILLSDALE AV	DEL PASO AV
4	CAPITOL AV	BERRYESSA RD	GREENGATE
9	CARLTON AV	UNION AV	130' W/WINTON WY
10	COLEMAN RD	ALMADEN EX	SANTA TERESA BL
1	DE ANZA BLVD	HWY 85	PROSPECT RD
3	EMPIRE ST	N 22ND ST	N 15TH ST
3	EMPIRE ST E	1ST ST N	N 15TH ST
8	FLINT AV	MARTEN AV	GULUZZO DR
3	HAWTHORNE WY	N SAN PEDRO ST	N 1ST ST
7,10	HILLSDALE	VISTAPARK DR	SNELL

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CD	STREET NAME	BEGIN LOCATION	END LOCATION
6, 9, 7, 10	HILLSDALE	FOXWORTHY AV	VISTAPARK DR
3	HUMBOLDT ST	10TH	12TH ST S
9	KOCH LN	PLUMMER AVE	ALMADEN RD
4	LANDESS AV	I 680	PIEDMONT RD
6	LEIGH AV	SOUTHWEST EX	MOORPARK AV
7	LITTLE ORCHARD ST	CURTNER AV	BARNARD AV
7	LUCRETIA AV	STORY RD	PHELAN
4	LUNDY AV	TRADE ZONE BL	HOSTETTER RD
6	MERIDIAN AV	FRUITDALE AV	CURTNER AV
3	MONTGOMERY	JULIAN ST	ST JOHN ST
9	NEW JERSEY AV	DRY CREEK RD	CURTNER AV
8	NIEMAN BL	CIRELLI DR	YERBA BUENA
1	PHELPS AVE	PAYNE AVE	WILLIAMS RD
1	PROSPECT RD	DE ANZA BLVD	JOHNSON AV
3	RYLAND ST	N SAN PEDRO ST	SANTA TERESA ST
3,5	SAN ANTONIO ST	17TH ST S	JACKSON AV S
3	SAN PEDRO ST	RYLAND ST	HAWTHORNE ST
3	SAN PEDRO ST	TAYLOR ST	HAWTHORNE ST
1	SAN TOMAS AQUINO RD	LATIMER AV	SARATOGA AV
3,5	SANTA CLARA ST	101 RAMP	101 RAMP
3	SANTA TERESA ST	RYLAND ST	COLEMAN
2,10	SNELL AV	BRANHAM LN	85 OVERPASS N/S
6	SOUTHWEST EX	STOKES ST	MERIDIAN
3	ST JOHN ST	MONTGOMERY ST	AUTUMN ST
10	STEINBECK DR	ALLEN AV	SANTA TERESA BL
4	TRIMBLE RD	CENTRAL EX	HY 101
1	WILLIAMS RD	MOORPARK AV	SARATOGA AVE
1	WINCHESTER BL	WILLIAMS RD	PAYNE AV
56 MILES			

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2019 Street Segments Planned for Resurfacing

CD	STREET NAME	BEGIN LOCATION	END LOCATION
3	10TH ST	HEDDING ST	OLD BAYSHORE
10	ALLEN AV	SANTA TERESA BL	STEINBECK DR
7	BARNARD AV	LITTLE ORCHARD ST	MONTEREY HY
2	BESWICK DR	BLOSSOM HILL RD	COTTLE RD
6	BIRD AV	WILLOW ST	MALONE RD
7	CANOAS GARDEN AV	CURTNER AV	EVAN LN
4	CAPITOL AV	GREENGATE	HOSTETTER RD
1	CYPRESS AV	MOORPARK AV	WILLIAMS RD
1	DE ANZA BLVD	BOLLINGER RD	HWY 85 NS
8	FLINT AV	GULUZZO DR	NORWOOD AV
3,4	GISH RD E	OLD BAYSHORE HY	OAKLAND RD
2	HELLYER AV	DOVE RD	SILICON VALLEY BL
4	HOSTETTER RD	OLD PIEDMONT RD	LUNDY AV
9	KOCH LN	PLUMMER AVE	BOOKSIN AV
7	LITTLE ORCHARD	SAN JOSE	BARNARD
7	LUCRETIA AV	PHELAN	TULLY RD
4	MURPHY AV	OAKLAND RD	LUNDY AV
9	NEW JERSEY AV	CURTNER AV	FOXWORTHY AV
8	NIEMAN BL	CAPITOL EX	ABORN RD
8	NIEMAN BL	ABORN RD	RIGOLETTO
5,8	OCALA AV	WHITE RD S	130°W/RIDGEMONT DR
3	PARK AV	LAUREL GROVE	MONTGOMERY
1	PHELPS AV	PAYNE AVE	CITY LIMIT
6,9	PLUMMER AV	FOXWORTHY AV	CURTNER AV
8	RIGOLETTO DR	QUIMBY RD	KING RD S
7	SAN JOSE AV	MONTEREY RD	ALMADEN EX
6	SOUTHWEST EX	N/S STOKES ST	BASCOM AV S
5	STORY RD	FLEMING AV	CLAYTON RD
3	VIRGINIA ST	BIRD AV	PREVOST ST
5	WHITE RD	MCKEE RD	MABURY RD
3	WILLIAM ST	S 1ST ST	24TH ST S
39 MILES			