

C/CAG

CITY/COUNTY ASSOCIATION OF GOVERNMENTS OF SAN MATEO COUNTY

*Atherton • Belmont • Brisbane • Burlingame • Colma • Daly City • East Palo Alto • Foster City • Half Moon Bay • Hillsborough • Menlo Park
Millbrae • Pacifica • Portola Valley • Redwood City • San Bruno • San Carlos • San Mateo • San Mateo County • South San Francisco • Woodside*

1:15 p.m., Thursday, February 15, 2018
San Mateo County Transit District Office¹
1250 San Carlos Avenue, 2nd Floor Auditorium
San Carlos, California

TECHNICAL ADVISORY COMMITTEE (TAC) AGENDA

- | | | |
|---|---------------------------|--------------|
| 1. Public comment on items not on the Agenda (presentations are customarily limited to 3 minutes). | Porter/Hurley | No materials |
| 2. Issues from the last C/CAG Board meeting (Feb): | Hoang | No materials |
| - Approved – Reallocation of TDA Art. 3 funds for SSF Linden Ave. Complete Streets Safety Project. | | |
| - Approved – Amend 1 with SMCOE to at \$10,104 unspent fund from previous agreement for a new total of \$927,204. | | |
| - Approved – Appointment of Grace Le (San Carlos) to the CMP TAC and Stormwater Committee. | | |
| - Adopted – Final 2017 Congestion Management Program (CMP) | | |
| 3. Approval of the minutes from January 18, 2018 | Hoang | Page 1-2 |
| 4. Receive information on the SamTrans Transit Signal Priority Project (Information) | Tam
(SamTrans) | Page 3-7 |
| 5. Receive information on the County of San Mateo ORTHO and LiDAR Project (Information) | Thames
(San Mateo Co.) | Page 8-24 |
| 6. Receive and update on the Carpool Incentive Program (Information) | Hoang/Muse | No materials |
| 7. Review and recommend approval of the Fiscal Year 2018/19 Expenditure Plan for the Transportation Fund for Clean Air (TFCA) County Program Manager Fund for San Mateo County (Action) | Hoang | Page 25-27 |
| 8. Review and recommend approval of authorizing the Executive Director to submit an allocation request to the California Transportation Commission (CTC) for the Senate Bill (SB1) Local Partnership Program (LPP) Formula Funds for FY 2017/18 and 2018/19 in the amount of \$270,000 to support the US 101 Managed Lanes project (Action) | Wong | Page 28-29 |
| 9. Receive information on the US 101 Managed Lane toll operator options (Information) | Wong | Page 30 |
| 10. Regional Project and Funding Information (Information) | Lacap | Handouts |
| 11. Executive Director Report | Wong | No materials |
| 12. Member Reports | All | |

¹ For public transit access use SamTrans Bus lines 260, 295, 390, 391, KX or take CalTrain to the San Carlos Station and walk two blocks up San Carlos Avenue. Driving directions: From Route 101 take the Holly Street (west) exit. Two blocks past El Camino Real go left on Walnut. The entrance to the parking lot is at the end of the block on the left, immediately before the ramp that goes under the building. Enter the parking lot by driving between the buildings and making a left into the elevated lot. Follow the signs up to the levels for public parking.

2018 TAC Roster and Attendance			
No.	Member	Agency	Jan
1	Jim Porter (Co-Chair)	San Mateo County Engineering	
2	Joseph Hurley (Co-Chair)	SMCTA / PCJPB / Caltrain	x
3	Afshin Oskoui	Belmont Engineering	x
4	Randy Breault	Brisbane Engineering	
5	Syed Murtuza	Burlingame Engineering	
6	Bill Meeker	Burlingame Planning	
7	Sandy Wong	C/CAG	
8	Brad Donohue	Colma Engineering	x
9	John Fuller	Daly City Engineering	
10	Tatum Mothershead	Daly City Planning	x
11	Jeff Moneda	Foster City Engineering	x
12	Paul Willis	Hillsborough Engineering	x
13	Ray Razavi	Half Moon Bay	x
14	Justin Murphy	Menlo Park Engineering	
15	Khee Lim	Millbrae Engineering	x
16	Van Ocampo	Pacifica Engineering	x
17	Jessica Manzi	Redwood City Engineering	x
18	Jimmy Tan	San Bruno Engineering	x
19	Grace Le	San Carlos Engineering	n/a
20	Brad Underwood	San Mateo Engineering	
21	Eunejune Kim	South San Francisco Engineering	x
22	Billy Gross	South San Francisco Planning	x
23	Sean Rose	Woodside Engineering	

CONGESTION MANAGEMENT PROGRAM (CMP) TECHNICAL ADVISORY COMMITTEE (TAC)

January 18, 2018

MINUTES

The two hundred forty second (242nd) meeting of the Technical Advisory Committee (TAC) was held in the SamTrans Offices located at 1250 San Carlos Avenue, 2nd Floor Auditorium, San Carlos, CA. Vice Chair Hurley called the meeting to order at 1:20 p.m. on Thursday, January 18, 2018.

TAC members attending the meeting are listed on the Roster and Attendance on the preceding page. Others attending the meeting were: Joel Slavit – TA; Richard Chiu – City of Daly City; Grace Le Tara Peterson – San Carlos; John Hoang, Jeff Lacap -C/CAG; and other attendees not signed in.

1. Public comment on items not on the agenda.

None.

2. Issues from the last C/CAG Board meeting.

None.

3. Approval of the Minutes from November 16, 2017.

Approved.

4. Receive Information on the TA Highway Call for Projects Update

Joel Slavit, Manager for SMCTA, presented on the Measure A 2017 Highway Program Call for Projects including program overview, process, evaluation criteria, key policy changes, project proposals, draft funding recommendations of seven projects totaling programming of \$45,819,250 and allocation of \$25,674,250. The recommendation is being brought to the TA Board for adoption on February 1, 2018.

Discussions and comments included questions on the Member Oskoui asked about the status of for the Woodside Rd. I/C and Railroad Ave. Extension projects. Response was that CEQA/NEPA have already been completed for the Woodside project. With regards to the Railroad Ave., since this is not a pipeline project, the project is only eligible up to the environmental phase right now. Oskoui added that there have been discussions regarding the Hillsdale/101/92 area and that there is no project sponsor. Co-chair Hurley responded that there were two projects submitted for funding sponsored by cities of San Mateo and Foster City for near-term improvements therefore when the project's description reflects the proximity within SR 92. Member Moneda also described the need for near-term improvements to address illegal movements by drivers.

5. Review and recommend approval of the Final 2017 Congestion Management Program (CMP) and Monitoring Report

Jeff Lacap presented the Final 2017 CMP and monitoring report and requested that the TAC recommend approval and adoption by the Board. There were no discussions or questions. The item was approved.

6. Regional Project and Funding Information

Jeff Lacap provided handouts and reported on the upcoming Statewide Local Streets & Roads survey, which MTC requires cities to complete to receive funding. Upcoming events includes the CTC SB 1 workshops, Caltrans' District 4 2018/19 Grants Call for Projects Open house, and Caltrans' Office of Local Assistance Training. C/CAG is currently working on addressing with VMT as it applies to SB743.

John Hoang reported on the SB 1 Local Partnership Program, following up on an e-mail sent to the cities in early January. C/CAG, as an agency that is eligible to apply for the Competitive Program Funding, would consider applying on a city's behalf, however, since the deadline is January 30th, there may not be enough time to put an application together. Cities that are eligible can apply without going through C/CAG. [A clarification e-mail sent to PWDs regarding eligibility]. Hoang also added that C/CAG receives a Formulaic Share of SB 1 in the amount of \$135,000 for each of the FYs 18/19 and 19/20, for a total of \$270,000. Staff plans to bring an item to the next TAC meeting recommending that the funds be made available for the US-101 Managed Lanes project.

Member Manzi inquired whether there is an interest in the county to be part of the process in developing SB1 program guidelines to make sure we are not dealing with more onerous requirements to receive funding than we are already dealing with. Co-chair Hurley responded that the TA can take the lead and work with the TA's legislative team to see if they can represent all of San Mateo County. Report out at the next meeting.

7. Executive Director Report

None.

8. Member Reports

Joe Hurley provided an update of the managed lanes project. The draft Environmental Documents were released last November and the last day for comments is tomorrow (1/19/18). There have been three public meetings that were all well attended. There has been general support for the project. Hurley mentioned that cities should let the TA know if they would like a presentation on Get Us Moving (GUM) at their city councils. There will be workshops that will be rolled out in association with GUM and the goal is to place a measure on the November ballot. Hurley provided a brief update on RM 3 as well as the campaign to possible repeal of SB 1. Hurley also mentioned that the Bike/Ped program applications are in and the program is oversubscribed by approximately \$3M. The applications are being evaluated now. Lastly, the Joint Call Shuttle CFP applications are due on February 9th.

Meeting adjourned at 1:50 p.m.

C/CAG AGENDA REPORT



Date: February 15, 2018
To: Congestion Management Program Technical Advisory Committee (TAC)
From: Robert Tam, SamTrans
Subject: Receive information on the SamTrans Transit Signal Priority Project

RECOMMENDATION

That the TAC receives information on the SamTrans Transit Signal Priority Project.

BACKGROUND

See attachment.





Samtrans Traffic Signal Priority Project

C/CAG TAC Meeting
February 15, 2018

San Mateo

Project Scope



Implement Traffic Signal Priority (TSP) for Samtrans buses along El Camino Real in San Mateo County

- 26 miles corridor between Daly City BART and Palo Alto Transit Center
- 155 Samtrans buses will be equipped
- 120 Intersections will be equipped
- Localized controlled, no centralized monitoring system

2

Project Benefits

samTrans

- Travel time savings of 12.5 minutes (8.3%)
- Better on-time performance (from 81% to 90%)
- Annual operating cost savings of \$1.4M
- Increase ridership by 3%

3

Project Stakeholders

samTrans

- MTC
- Caltrans District 4
- C/CAG
- Local Cities (12)

4

Concept of Operations

samTrans

1. GPS based vehicle location
2. Bus issues a Priority Request Generator
3. Traffic Signal Controller grants or denies request
 - a) lower priority than Emergency Vehicle Preemption
 - b) does not cancel a pedestrian cycle
 - c) extends the green interval (preset max value)
 - d) shorten the red cycle for early green

5

Project Milestones

samTrans

- Begin Project – 2017 Q4
- Concept of Operations – 2018 Q2
- Preliminary Design – 2018 Q3
- Final Design – 2019 Q2
- Begin Installation – 2019 Q4
- Complete Installation – 2020 Q4
- Final Acceptance – 2021 Q3

6

Questions?

C/CAG AGENDA REPORT

Date: February 15, 2018
To: Congestion Management Program Technical Advisory Committee (TAC)
From: Beverly Thames and Rumika Chaudhry, County of San Mateo ISD
Subject: Receive information on the County of San Mateo ORTHO and LiDAR Project

RECOMMENDATION

That the TAC receives information on the County of San Mateo ORTHO and LiDAR Project.

BACKGROUND

See attachment.

Project Closeout Report to C/CAG

San Mateo County

2017

Aerial Imagery & LiDAR Acquisition Project

February 15, 2018



Timeline

- **April 21, 2016 Presentation to TAC**
- **June 16, 2016 TAC Meeting – Funding Approval**
- **December 31, 2016 – Vendor Contract Negotiation Finalized**
 - 13 proposals
 - 6 cities (Belmont, Brisbane, Daly City, Menlo Park, Redwood City, San Mateo) represented on the evaluation committee
 - Sanborn, Inc. was unanimously selected as the finalist
- **March 21, 2017 Project Start**
- **December 31, 2017 Project Close**

Project Cost & C/CAG Contributions

Total Project Cost: \$253,430.28

- County Cost Share : \$168,430.28
- C/CAG Cost Share : \$ 85,000.00
 - *Paid to date : \$84,476.76**

** 30% of all invoices paid to the vendor*

Reimbursement on all invoices received

Deliverables

Aerial Imagery – 6-inch pixel (4-band)

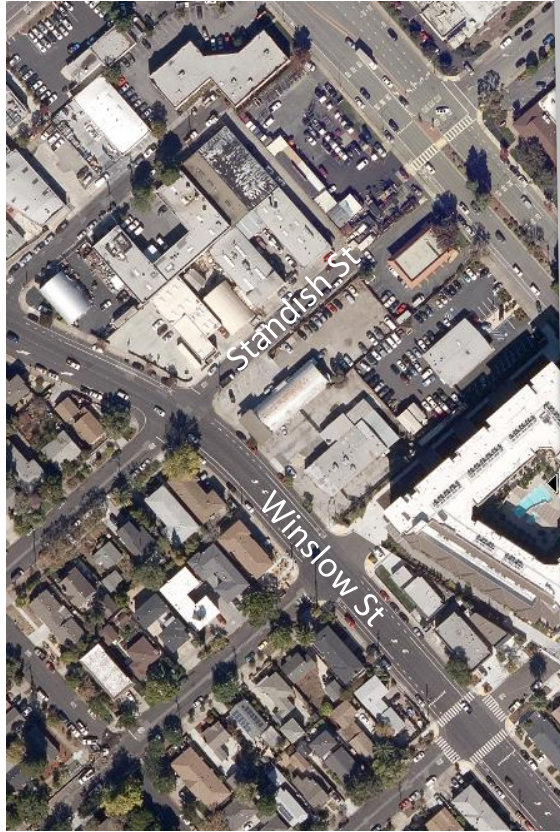
- True Color
- Near Infra-Red (NIR)

LiDAR – 4 ppsm (points/square meters)

- 2' Contours
- Digital Elevation Model (DEM)
- Vegetation Layer
- Building Footprints

Aerial Imagery

2017



2006

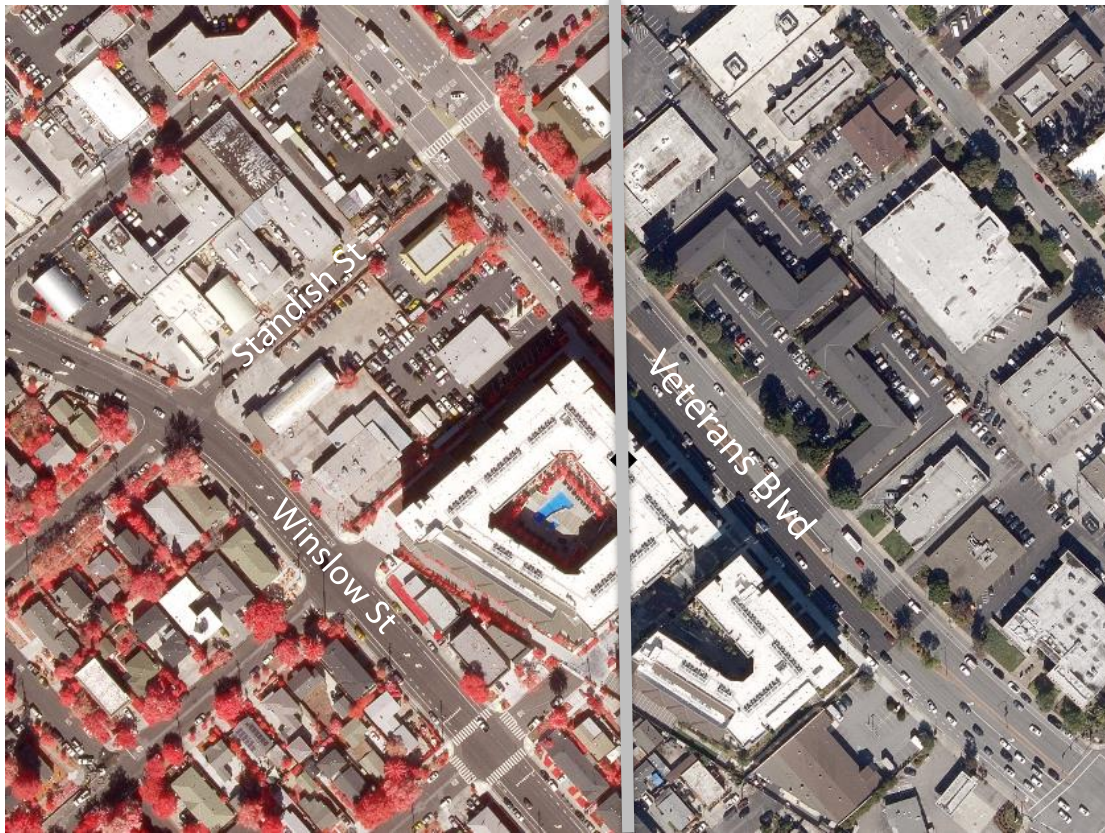


Higher Resolution

- Visual/Automated Change Detection
- Limiting Staff Field Visits




<http://arcg.is/2AyTqYN>

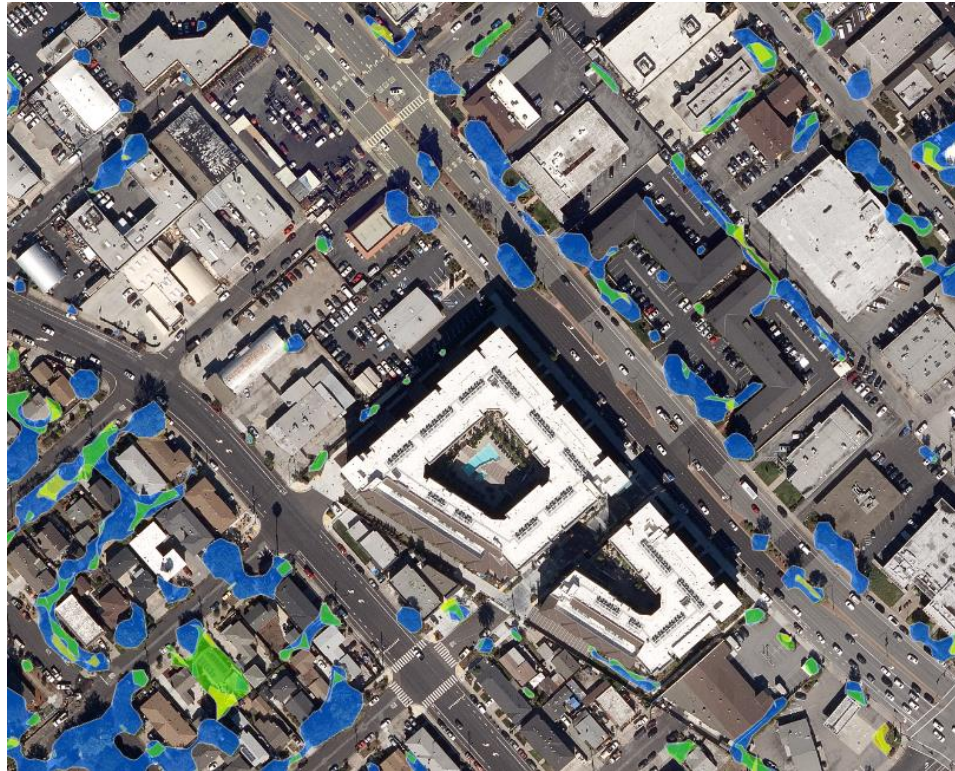
Near Infra-Red Band (NIR)



- Vegetation Health Assessment
- Impervious Surface Classification

LiDAR Deliverable: Vegetation Layer

-  - High
(Greater than 9.84')
-  - Mid
(3.29' – 9.84')
-  - Low
(0' – 3.28')



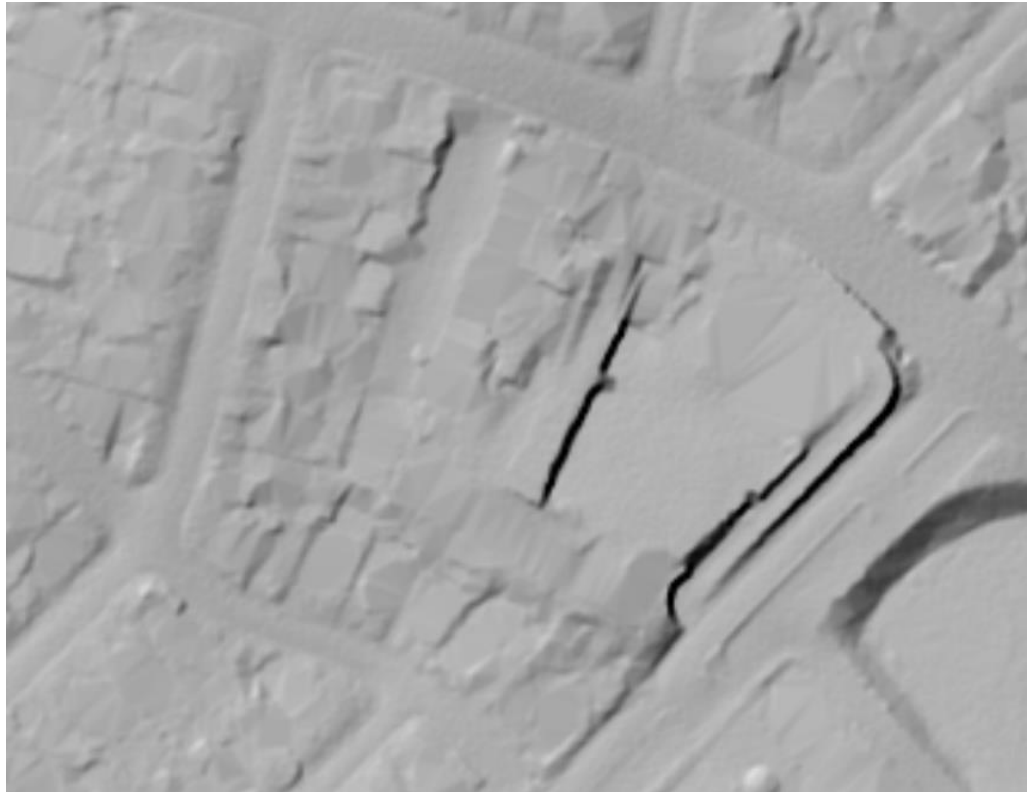
- Assists With Species Classification
- Assists With Vegetation Height/Growth

LiDAR Deliverable: Building Footprint



- First Time County Availability
- Mobile Home Identification (Previously Unavailable)
- Identify “Resource Protection Areas” and “Hazard Avoidance Areas”

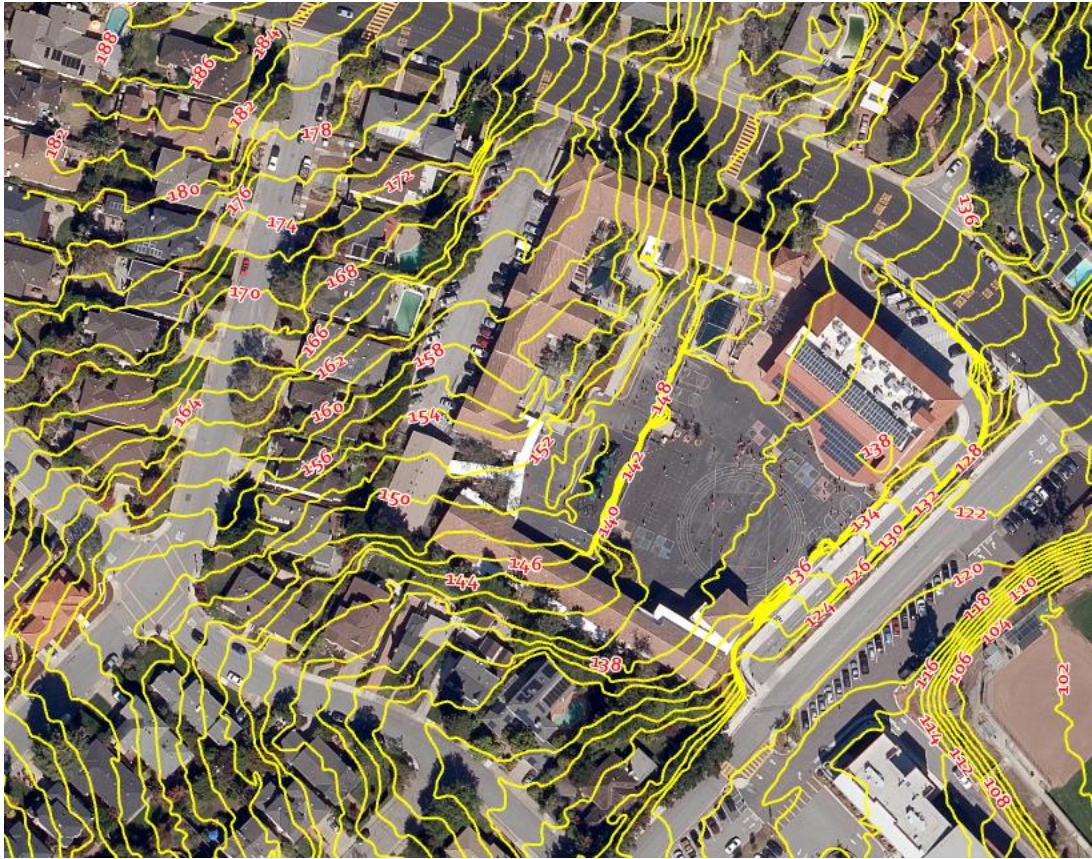
LiDAR Deliverable: DEM (bare earth)



Visualize bare earth topography, removing man made features

- Preliminary Site Analysis Preventing Site Visit
- Slope Analysis To Assist Cut and Fill Cost Analysis

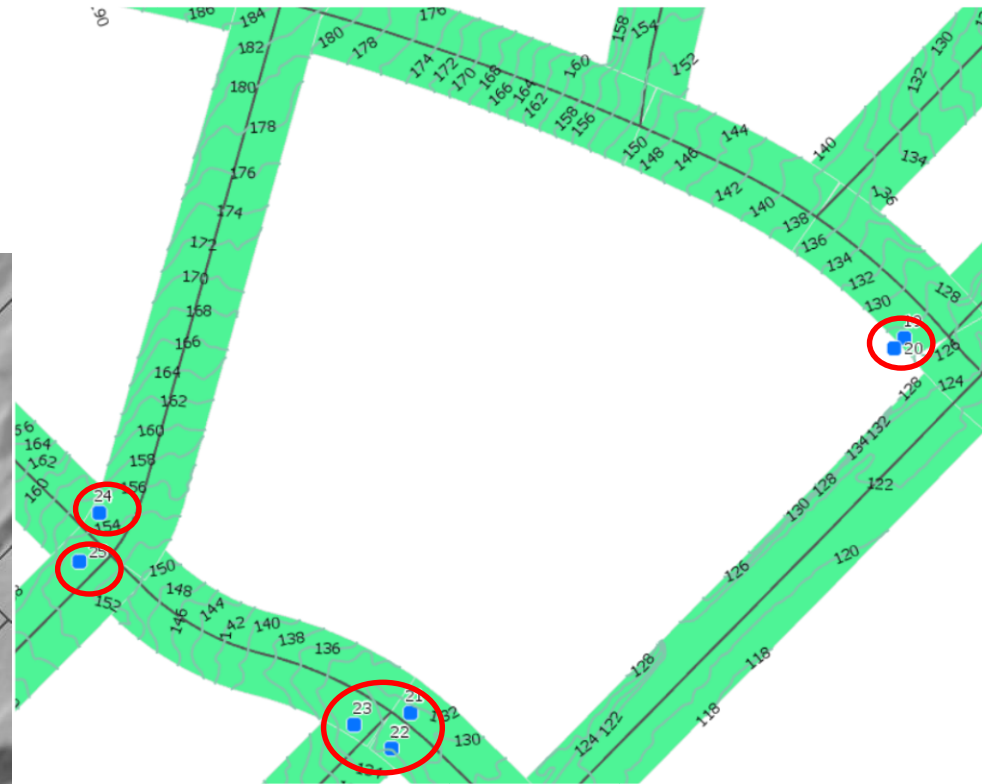
LiDAR Deliverable: 2' Contours



- Assists With Slope Analysis
- Accuracy Enables Cut and Fill Calculations Without The Need For Physical Site Survey

C/CAG Countywide Sustainable Street Plan

Street Stormwater Runoff Analysis



ISD

Information Services Department
County of San Mateo

C/CAG Countywide Sustainable Street Plan

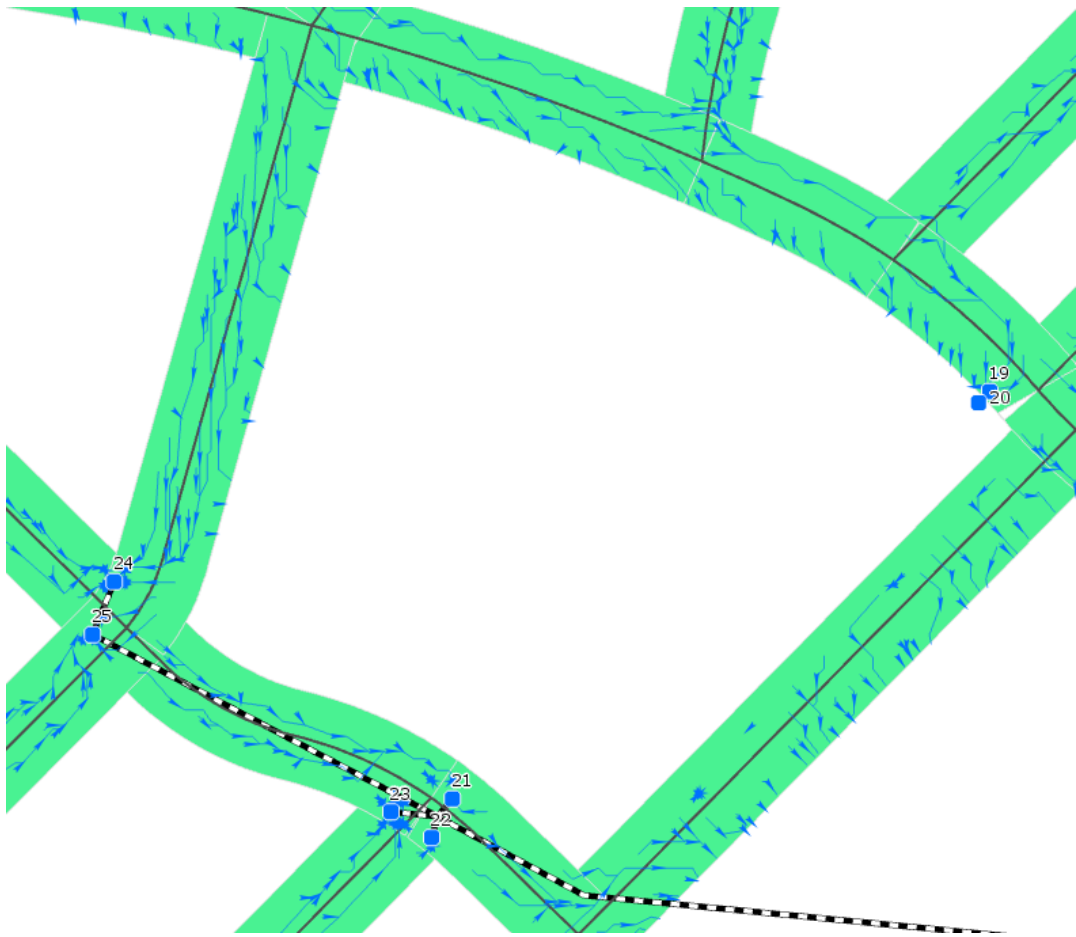
Street Stormwater Runoff Analysis



- Basic Storm Water Flow
- Storm Water Lines
- Storm Water Inlets

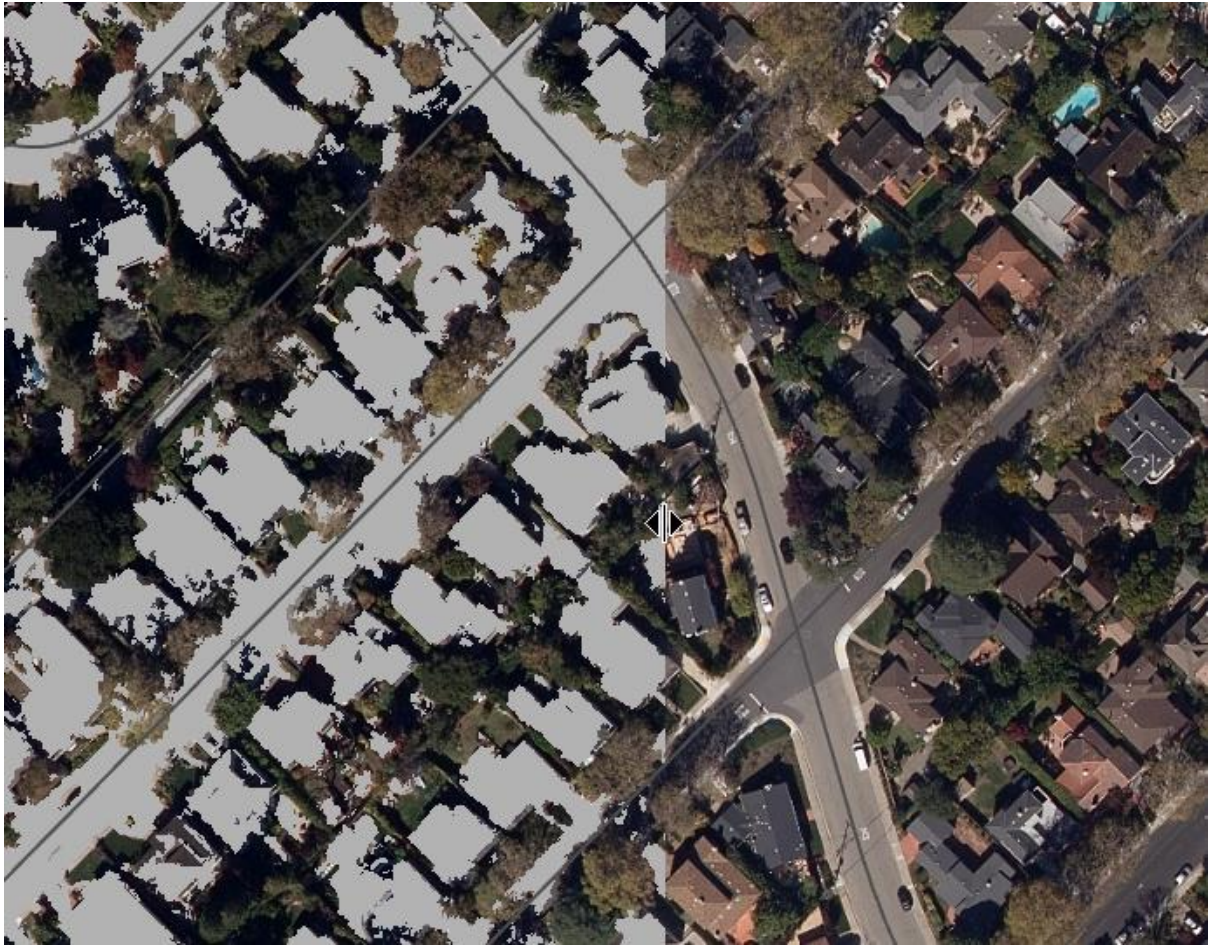
C/CAG Countywide Sustainable Street Plan

Street Stormwater Runoff Analysis



- Advanced Flow Direction
- Storm Water Lines
- Storm Water Inlets

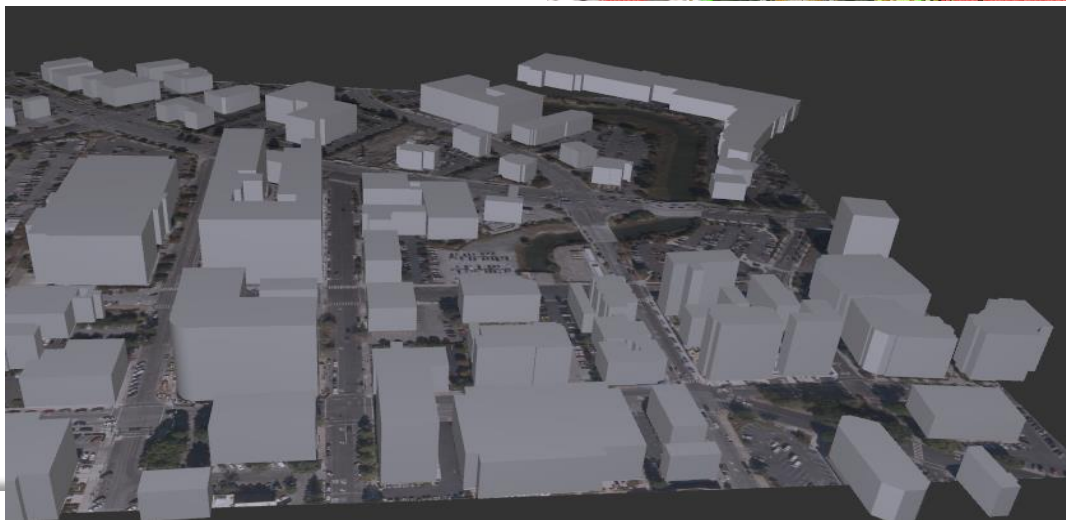
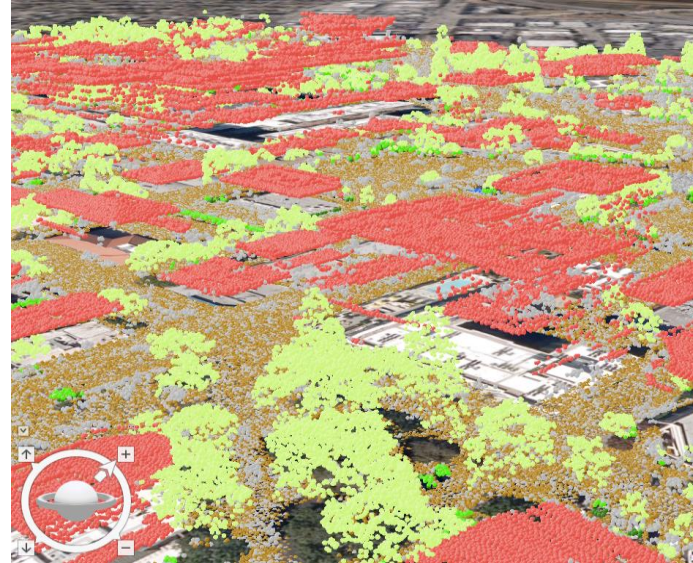
Impervious Surface Classification



* Preliminary Classification – additional work for more accurate results would be required

Redwood City Downtown

3D Building Model Development



Want Access to Imagery & LiDAR Data? Questions about project deliverables?

email: rchadhry@smcgov.org
or call: (650)-599-7241

C/CAG AGENDA REPORT

Date: February 15, 2018

To: Congestion Management Program Technical Advisory Committee (TAC)

From: John Hoang

Subject: Review and recommend approval of Fiscal Year 2018/19 Expenditure Plan for the Transportation Fund for Clean Air (TFCA) County Program Manager Fund for San Mateo County

(For further information or questions contact John Hoang at 363-4105)

RECOMMENDATION

That the TAC review and recommend approval of the Fiscal Year 2018/19 Expenditure Plan for the Transportation Fund for Clean Air (TFCA) County Program Manager Fund for San Mateo County.

FISCAL IMPACT

The total amount available is \$1,141,094 (Admin. - \$56,094; Projects - \$1,085,000)

SOURCE OF FUNDS

The Bay Area Air Quality Management District (BAAQMD) is authorized under Health and Safety code Section 44223 and 44225 to levy a fee on motor vehicles. Funds generated by the fee are referred to as the Transportation Fund for Clean Air (TFCA) funds and are used to implement projects to reduce air pollution from motor vehicles. Health and Safety Code Section 44241(d) stipulates that forty percent (40%) of funds generated within a county where the fee is in effect shall be allocated by the BAAQMD to one or more public agencies designated to receive the funds, and for San Mateo County, C/CAG has been designated as the County Program Manager to receive the funds.

BACKGROUND

The BAAQMD County Program Manager Fund Expenditure Plan Guidance for TFCA (Guidance) for Fiscal Year 2019 is utilized for the FY 2018/19 Program. Cost Effectiveness (C-E), as defined in the Guidance, is used as screening criteria for all projects considered for allocation under the TFCA program. For instance, ridesharing projects must result in a C-E of less than \$150,000 per weighted ton of reduced emissions. Existing Shuttle/Feeder bus Service must show a C-E of less than \$200,000 per weighted ton of reduced emissions and alternative fuel vehicles must have a maximum C-E of \$250,000.

For the past several years, C/CAG has allocated the TFCA funds to projects implemented by the San Mateo County Transit District (SamTrans) and Commute.org. Funds provided to SamTrans historically help fund the SamTrans Shuttle Program for the BART shuttles, which provide peak commute period shuttle service from BART stations to employment sites in San Mateo County. Funds provided to Commute.org help fund the Countywide Voluntary Trip Reduction Program, which is a program that provides incentives to reduce single occupant vehicle trips and includes carpool/vanpool/school incentives as well as the addition of the countywide Guaranteed Ride Home program for the upcoming year. Commute.org also manages shuttles on behalf of member cities.

In FY 2017/18, as summarized in the table below, in addition to the Voluntary Trip Reduction Program and SamTrans Shuttle Program, funds were distributed to one-time new projects including: SamTrans Signal Prioritization for Buses on El Camino and the C/CAG Countywide Carpooling Incentives Program. Please note that the increase in amount available was due to the inclusion of unspent funds rolled over from the previous cycle.

	<u>TFCA Funds FY 2017/18</u>
Administration	\$54,654
Commute.org	\$600,000
SamTrans - BART Shuttle	\$110,000
SamTrans – Signal Prioritization on El Camino Real	\$79,000
C/CAG Countywide Carpooling Incentives Program	<u>\$700,000</u>
Total	\$1,543,654

FY 2018/19 Funding Recommendations

There is a total of \$1,141,094 available for FY 2018/19. The estimated administration budget is \$56,094 (approx. 5%) with the remaining \$1,085,000 proposed to be available for projects. For each funding cycle, staff consults with SamTrans and Commute.org to identify projects that are deemed most cost-effective in achieving the TFCA program objectives.

For this cycle, it is recommended that the SamTrans Shuttle Program receive an allocation of \$110,000 for the BART Shuttle Program. It is also recommended that Commute.org receive an allocation of \$600,000 for the Countywide Trip Reduction Program. These amounts are at the same level as the previous year’s figures. The remaining \$375,000 is recommended to be allocated towards continuing the C/CAG Countywide Carpooling Incentive Program. These funding recommendations are subject to submission of an acceptable work plan and C-E calculations to qualify for use of the funds.

A summary of the recommended Fiscal Year 2017/18 TFCA County Program Manager fund is shown below:

	<u>TFCA Funds FY 2018/19</u>
Administration	\$56,094
Commuter.org	\$600,000
SamTrans BART Shuttle	\$110,000
C/CAG Countywide Carpooling Incentives Program for San Mateo County Commuters	\$375,000
	<hr/>
Total	\$1,141,094

ATTACHMENTS

None.

C/CAG AGENDA REPORT

Date: February 15, 2018

To: Congestion Management Program Technical Advisory Committee (TAC)

From: Sandy Wong, Executive Director

Subject: Review and recommend approval of authorizing the Executive Director to submit an allocation request to the California Transportation Commission (CTC) for the Senate Bill (SB1) Local Partnership Program (LPP) Formula Funds for FY 2017/18 and 2018/19 in the amount of \$270,000 to support the US 101 Managed Lanes project

(For further information or questions contact Sandy Wong at 599-1409)

RECOMMENDATION

That the TAC review and recommend approval of authorizing the Executive Director to submit an allocation request to the California Transportation Commission (CTC) for the Senate Bill (SB1) Local Partnership Program (LPP) Formula Funds for FY 2017/18 and 2018/19 in the amount of \$270,000 to support the US 101 Managed Lanes project.

FISCAL IMPACT

The total amount is \$270,000 (FY 17/18 - \$135,000; FY 18/19 - \$135,000)

SOURCE OF FUNDS

SB 1 2018 Local Partnership Program Formulaic Program Share Distribution

BACKGROUND

The California Transportation Commission (CTC), on October 18, 2107, adopted the 2018 Local Partnership Program (LPP) Guidelines in response to SB 1, the Road Repair and Accountability Act of 2017. The overall objective of the LPP is to reward counties, cities, and regional transportation agencies in which voters have approved fees or taxes solely dedicated to transportation improvements or that have enacted fees solely dedicated to transportation. Pursuant of the guidelines, the CTC adopted the Formulaic Program of projects for the initial cycle covering Fiscal Years (FYs) 2017/18 and 2018/19.

C/CAG, as the sponsor of Measure M, the \$10 Vehicle Registration Fee, is eligible for the LPP Formulaic Share in the amount of \$135,000 for FY 2017/18 and \$135,000 for FY 2018/19, totaling \$270,00 for the first two-year cycle.

C/CAG and the San Mateo County Transportation Authority (SMCTA) are Co-Sponsors for the US 101 Managed Lanes project. The construction phase of the project is estimated at over \$400

million. Project sponsors and project partners are currently submitting funding applications seeking substantial amounts of funds from State Grants. Staff recommends directing the C/CAG SB 1 LPP Formulaic Share of \$270,000 towards this project. SMCTA Board has approved directing \$1,550,000 of the SMCTA Formulaic Share to this project as well.

ATTACHMENTS

None.

C/CAG AGENDA REPORT

Date: February 15, 2018
To: Congestion Management Program Technical Advisory Committee (TAC)
From: Sandy Wong, Executive Director
Subject: Receive information on the US 101 Managed Lane toll operator options
(For further information or questions contact Sandy Wong at (650) 599-1409)

RECOMENDATION

That the Congestion Management Program Technical Advisory Committee (TAC) receive information on the US 101 Managed Lane toll operator options.

FISCAL IMPACT

This is an information item.

BACKGROUND

The Draft Environmental Document for the US 101 Managed Lanes project proposes to provide express lane in both the northbound and southbound directions adjoining from the Santa Clara county express lane to I-380. Express lane is defined such that qualified vehicles can use for free, while others can use by paying a fee. Tolling charges will be done electronically, administered and operated by a designated toll operator.

A powerpoint presentation will be presented at this meeting to provide more information regarding potential toll operators.

ATTACHMENT

None.