

Transportation Management for Major Corridor Projects

Transportation Authority Board
Agenda Item 11



SAN FRANCISCO COUNTY TRANSPORTATION AUTHORITY

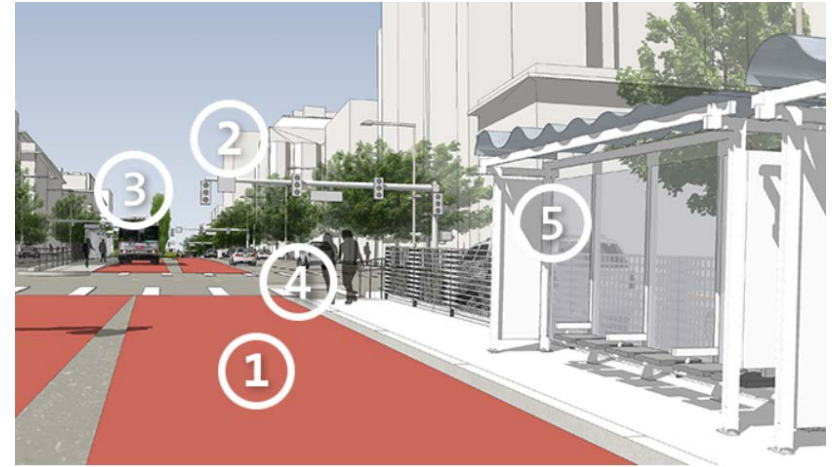
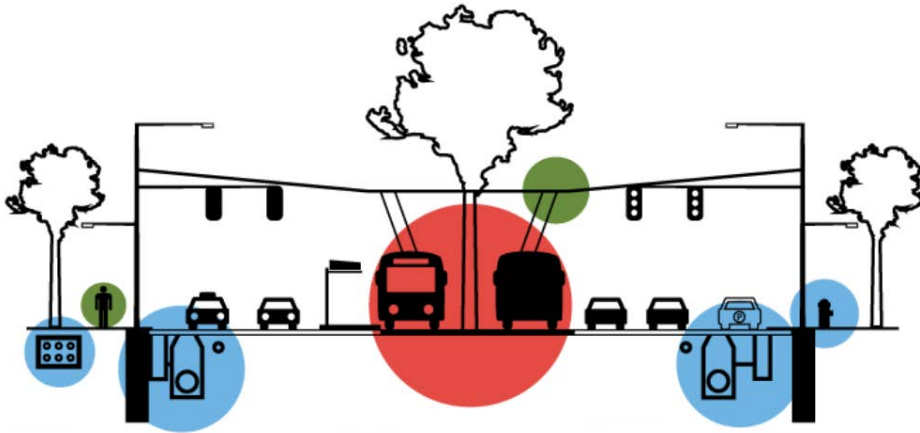
July 10, 2018

Major Transportation Projects



- ▶ Various agencies implementing **15** major transportation projects over the next five years.
- ▶ Projects include utility upgrades to water, sewer, communication lines.

Van Ness Corridor Transit Improvement



- ▶ **Combine City Project - \$320M**
 - ▶ **Bus Rapid Transit, Station Platforms, Landscaping, Bulb-outs**
 - ▶ **Water, Sewer, AWSS, OCS, Streetlights**
 - ▶ **Construction completion late 2020**

Lombard Street Vision Zero Project



► Combined City Project - \$27M

- Pedestrian safety improvements, traffic signal modifications, water and sewer upgrades
- Richardson Ave/Francisco St to Van Ness Ave
- Construction – Summer 2018 – Summer 2020
- Caltrans resurfacing Summer 2020 – Summer 2021

19th Avenue Project



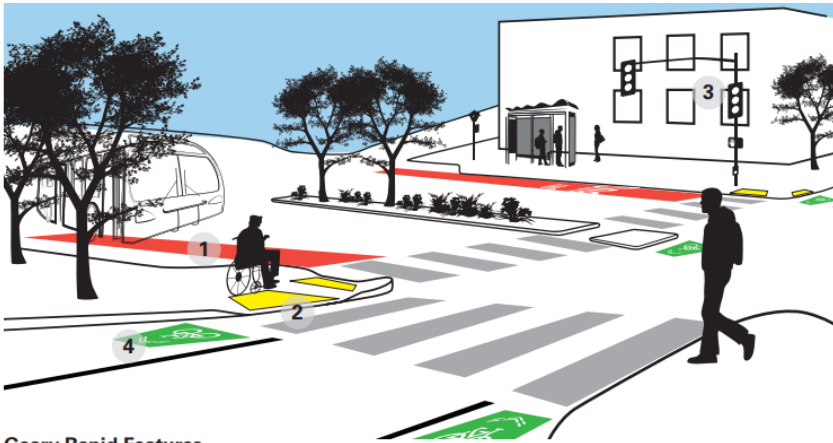
- ▶ **Combined City Project - \$43M**
 - ▶ Vision Zero safety improvements, bus and pedestrian bulb-outs, traffic signals upgrades, water, sewer, and AWSS
 - ▶ Lincoln Ave to Holloway Ave
 - ▶ Construction early 2019 – 2020
- ▶ Caltrans resurface Lake Street to Junipero Serra Blvd - Summer 2020 – Summer 2021

Hwy 101 Deck Replacement (Caltrans)



- ▶ **101 Bridge Deck at Alemany Blvd - \$20M**
 - ▶ Rebuild NB and SB 101 deck
 - ▶ Temporary highway closures and traffic diversion to City streets
 - ▶ Construction: Spring 2020 – Fall 2020

Geary Rapid (East and West)



Geary Rapid Features

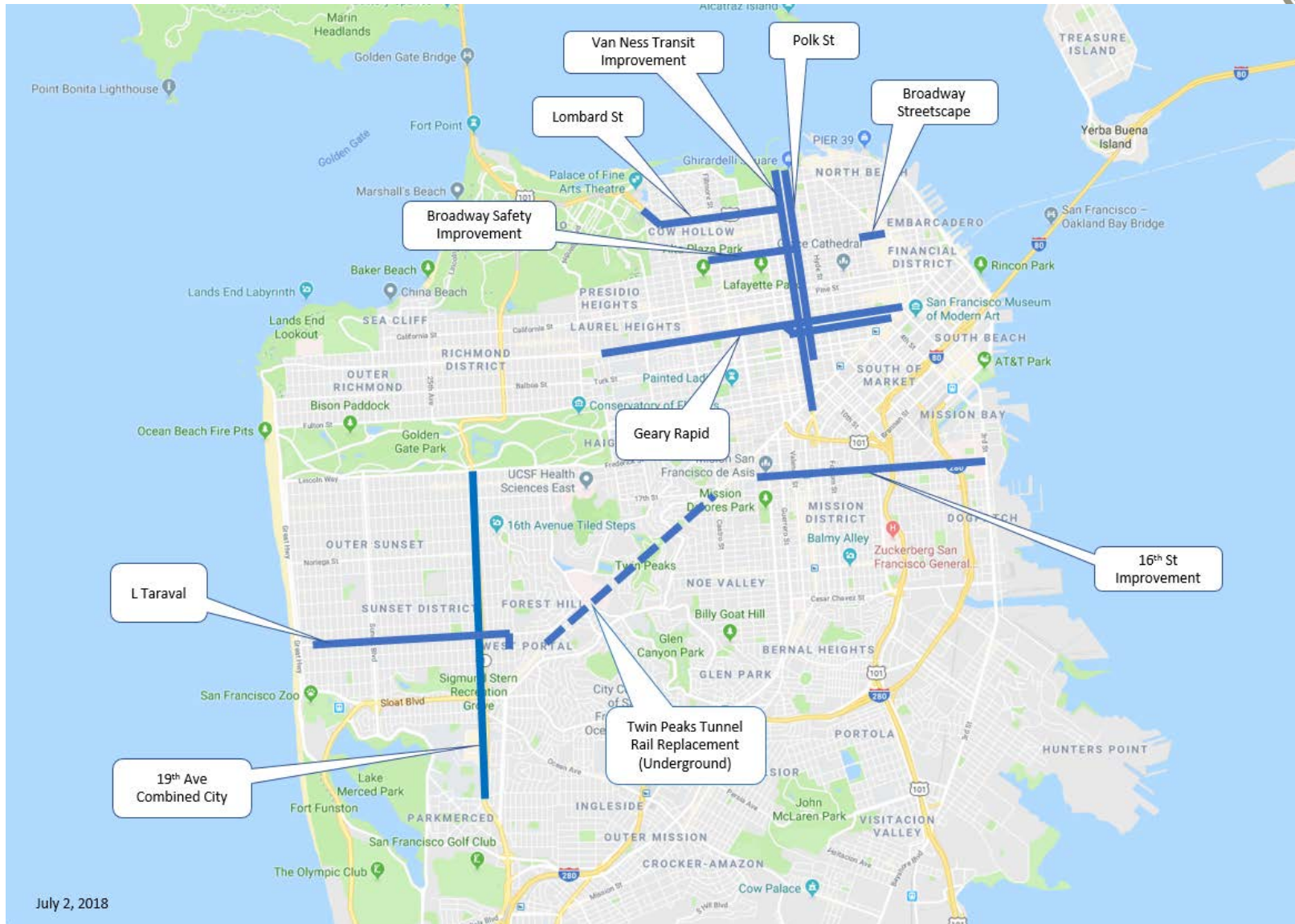
- ▶ **Dedicated bus only lanes - \$65M**
 - ▶ **Traffic signal optimization, intersection improvements, water and sewer upgrades**
 - ▶ **Project limits: Market Street to Stanyan Street**
 - ▶ **Construction: Early 2019 – Summer 2021**

Geary Boulevard Improvement Project



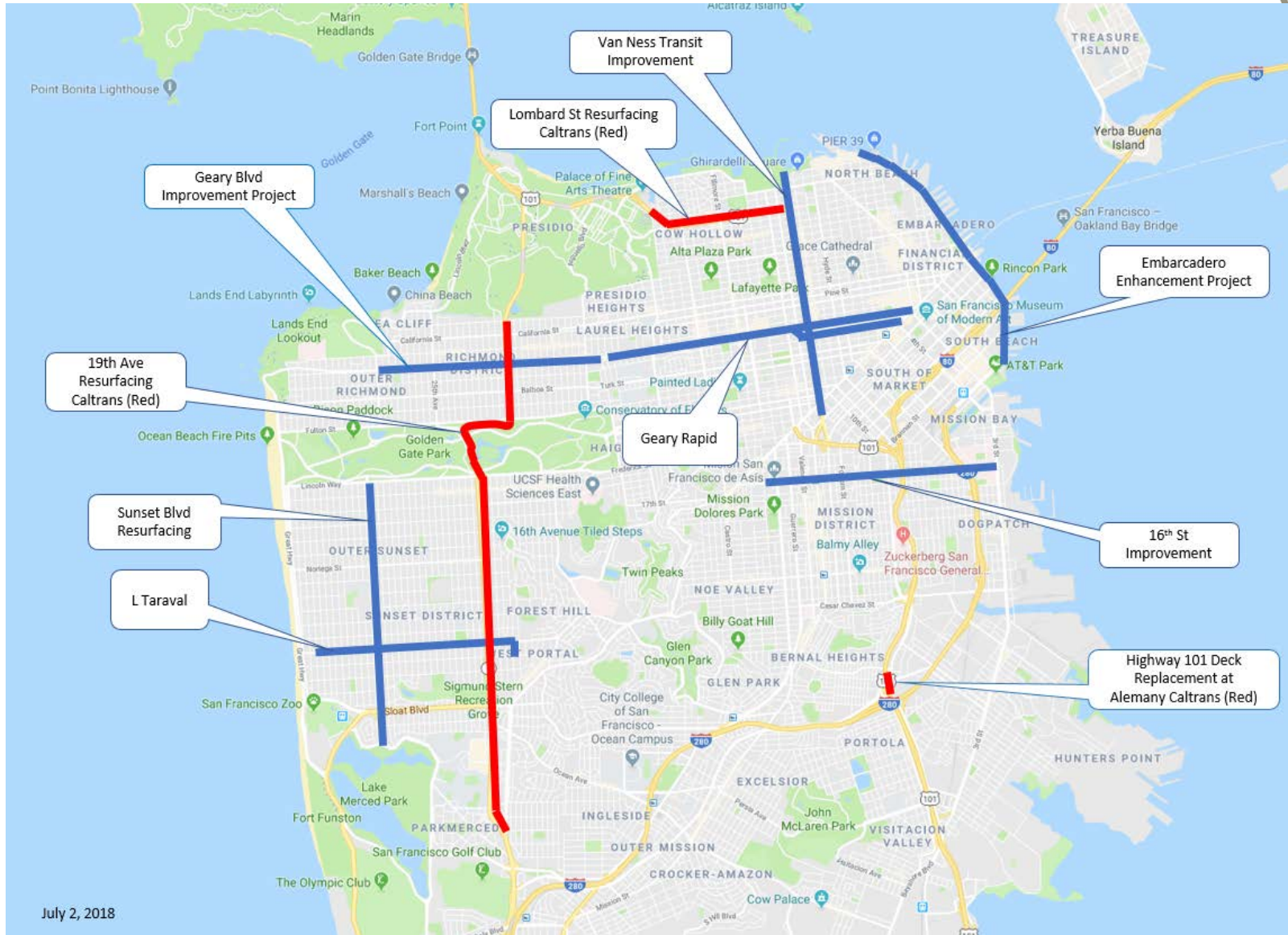
- ▶ **Dedicated bus only lanes - \$235M**
 - ▶ Center bus only Stanyan to 27th/28th Ave
 - ▶ Traffic signal optimization, intersection improvements, new boarding stations
 - ▶ Project limits: Stanyan Street to 34th Avenue
 - ▶ Construction: Fall 2020 – Spring 2022

Projects in Construction 2018-2019



July 2, 2018

Projects in Construction 2020-2022



July 2, 2018

Major Projects Construction Schedule



Major Corridor Transit Improvement Projects																														
Present - 2023																														
Project	2018					2019					2020					2021					2022					2023				
Van Ness Corridor Transit Improvement (SFMTA)	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■															
Broadway Streetscape (PW), Safety Improvement (MTA)	■	■	■	■	■																									
Polk Streetscape Project (SFPW)	■	■	■	■	■																									
16th Street Improvement (SFMTA)						■	■	■	■	■	■	■	■	■	■															
Lombard Street - State Route 101 (SFDPW)		■	■	■	■	■	■	■	■	■	■	■	■	■	■															
Lombard Street Resurfacing - State Route 101 (Caltrans)																■	■	■	■	■										
19th Ave Combined City - State Route 1 (SFDPW)						■	■	■	■	■	■	■	■	■	■															
19th Ave Resurfacing - State Route 1 (Caltrans)																■	■	■	■	■										
L Taraval Rapid (SFMTA)						■	■	■	■	■	■	■	■	■	■															
Twin Peaks Tunnel Rail Replacement (SFMTA)		■	■	■	■	■	■	■	■	■																				
Highway 101 Deck Replacement at Alemany (Caltrans)																■	■	■	■	■										
Geary Rapid (SFMTA)						■	■	■	■	■	■	■	■	■	■	■	■	■	■	■										
Geary Boulevard Improvement Project (SFMTA)																■	■	■	■	■	■	■	■	■	■					
Sunset Boulevard Resurfacing (SFPW)																					■	■	■	■	■	■	■	■	■	■
Embarcadero Enhancement Project (SFMTA)																										■	■	■	■	■

■ City Projects

■ Caltrans Projects

Delivering on Voter-Approved Projects



▶ General Obligation (GO) Bond

- ▶ Approved overwhelmingly by San Francisco voters (71.87% in favor) in 2014
- ▶ The SFMTA has a responsibility to the voters to deliver projects
- ▶ The choice to delay would further escalate project costs and limit our ability to deliver subsequent projects



Managing Construction-Related Traffic



Design and Planning

- ▶ **Traffic Control Plans (TCPs):** For public constructions projects, the SFMTA reviews contractor (or Public Works) TCPs to ensure appropriate application of traffic control devices, lane transitions, detours and the deployment of flaggers, PCOs and the SFPD
- ▶ **Special Traffic Permits (STPs):** Engineering permit documents, issued by the SFMTA to contractors in response to a TCP or STP application, mandating the use of specific traffic control devices, traffic personnel, detour routes, work dates and hours and coordination with City agencies
- ▶ **Work Hours:** Constrain when work is allowed to control impacts on transit operations and traffic
- ▶ **Lane Closure Controls:** Project Specifications and the SFMTA “Blue Book” place restrictions on the times of day and number of lanes that may be closed
- ▶ **Pedestrian Walkway Requirements and Protections:** Documented in SFPW Orders and Codes and in the SFMTA Blue Book
- ▶ **Transit Lanes and Bike Lanes:** Managed through the project specifications and related TCPs and STPs

Managing Construction-Related Traffic



► Implementation

- **Work headways:** Spacing between work zones along a corridor, designed to avoid continuous impacts and dissipate congestion
- **Contractor Look Ahead Schedule:** 60-100 day look-ahead schedules help phase work within a designated area to avoid cumulative construction impacts



► Enforcement

- **Project Resident Engineer/Inspector**
 - Assess liquidated damages for violations of contract specifications or permits
- **City Street Inspectors**
 - SFMTA and SFPW (BSM) inspectors issue citations and assess administrative penalties for violations of Special Traffic Permits or contract specifications
- **Project Communications (to City Agencies, Advocates and Public):**
 - Public outreach and notification
 - Variable message boards
 - Project websites
 - Media advisories
 - Signage

Parking Control Officers



- ▶ **140 SFMTA Parking Control Officers (PCO's) per weekday:**
 - ▶ Help minimize congestion in the downtown Bay Bridge queues
 - ▶ Minimize double parking and other, related problems
 - ▶ Provide traffic control for special events throughout the city
- ▶ **Resources are limited...we have to prioritize hot spots**
- ▶ **7,800 “block the box” citations for FY 16-17**

Existing City Coordination



- ▶ **SFPW**

- ▶ Paving and Sewer Projects
- ▶ Streetscape Projects
- ▶ Curb Ramps and more

- ▶ **SFMTA**

- ▶ Transit Project
- ▶ Signal Projects
- ▶ Streetscape Projects, in partnership with SFPW

- ▶ **PUC**

- ▶ Sewer, Water and Streetlight Projects

- ▶ **Committee for Utility Liaison on Construction and Other Projects (CULCOP): Multi-agency excavation coordination to avoid digging more than once (5-year look ahead)**

- ▶ **Inter-agency project coordination meetings (SFPW and SFMTA)**

- ▶ Directors meeting (monthly)
- ▶ Design coordination meeting (monthly)
- ▶ Paving coordination meeting (monthly)
- ▶ Transit services coordination meeting (monthly)

- ▶ **Accela (previously Envista): Project coordination tool designed to share information regarding project schedules across City agencies and utilities**

Factors Impacting Schedules



- ▶ Project funding constraints and delays
- ▶ Approvals/appeals
- ▶ Bid environment
 - ▶ Cost (supply/demand)
 - ▶ Availability of qualified contractors
- ▶ Unforeseen conditions (abandoned utilities, soil contamination, archeological, etc.)
- ▶ Sewers to Sidewalks/Aging infrastructure
- ▶ Weather
- ▶ Holiday moratorium (Thanksgiving to New Year's Day)
- ▶ Night noise restrictions
- ▶ New types of construction (e.g. tunneling)
- ▶ Schedule cascade
- ▶ Adjacent capital projects and private development

Next Steps



- ▶ **Develop Detailed Traffic Management Strategies**
 - ▶ **Multiagency - Caltrans, SFPW, SFMTA, SFPUC**
 - ▶ **Contracting Strategies**
 - ▶ **Budget for TMP Implementation**
 - ▶ **Advise Board and Public**

Questions?



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