

ALAMEDA COUNTY TRANSPORTATION COMMISSION

San Pablo Avenue Multimodal Corridor Project

Alameda CTC Bicycle Pedestrian Advisory Committee

February 17, 2022

San Pablo Corridor Project



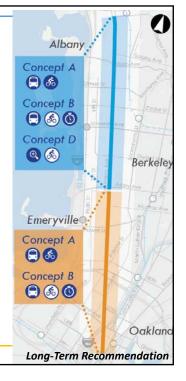
- > Enhance safety for all travel modes
- Improve comfort and quality of trips for all users
- Support a strong local economy and efficiently accommodate growth along the corridor while respecting local contexts
- > Promote equitable transportation and design solutions for diverse communities throughout corridor

ALAMED County Bransporterior

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Conclusion of Phase 1

- Lack of consensus around single longterm concept throughout corridor
- Long-term project costs high: \$350-700M
- Significant interest in advancing:
 - > Safety improvements corridor wide
 - Smaller-scale, near-term project to test concepts





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Recap

- Phase 1: 2017-2020
 - Presented to BPAC November 2019
- Sept 2020: Alameda CTC Commission approved Phase 2 contract scope & budget
 - > Presented to BPAC November 2020
- 2021:
 - > Designed prototypes: Regular coordination with partner agency staff
 - Work through key design challenges
 - > Analyzed impacts and benefits of project
 - > Conducted parking and loading analysis, storefront outreach
- January 2022: Small scope expansion



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Established Active Transportation Working Group (ATWG)

- Purpose: To have more in depth discussions of design issues
- Meetings:
 - > Fall 2020: Phase 2 scope, creation of ATWG
 - > Summer 2021: Parallel bike proposals
 - > Fall 2021: Parallel bike proposals and bus + bike lane proposals
 - > February 2022: Discussion of ATWG proposals for bus + bike lane



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Safety Enhancements: Four Cities

- Addresses urgent need for safety improvements
- Strong community support
- · Doesn't encroach on right of way, has minimal impacts
- Includes all four Alameda County cities

Pedestrian examples

- Improved pedestrian crossings, high-visibility striping, signals
- > ADA-compliant ramps, sidewalks
- > Improved lighting

Bike and Transit examples

- > Improved bicycle crossings
- > Wayfinding signage
- > Signal upgrades to prioritize transit



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Parallel Bike Improvements: Berkeley & Albany

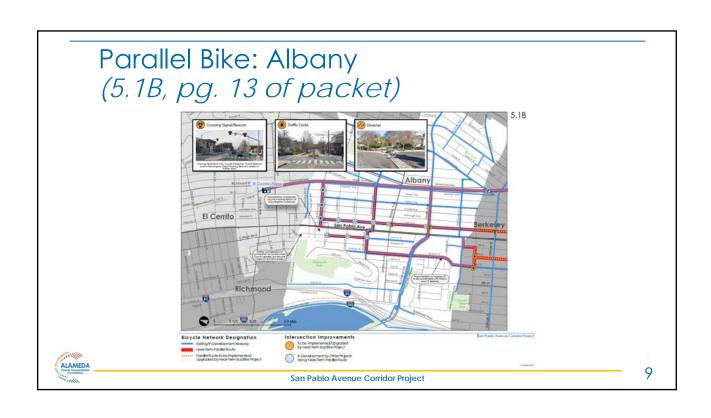
Prioritized parallel bikeways improvements that:

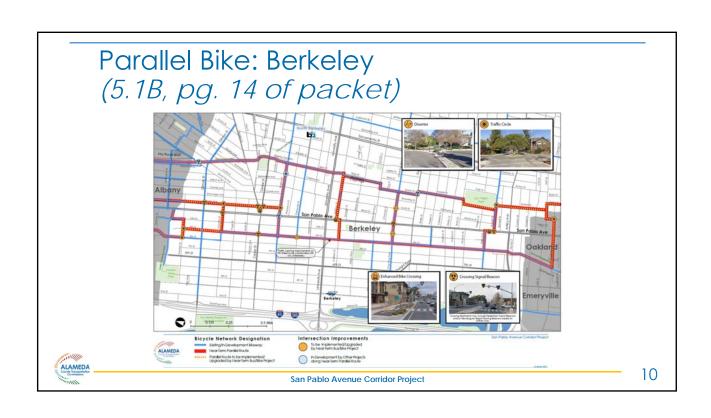
- 1. Together with city projects in development, create a complete parallel network on both sides of San Pablo Avenue
- 2. Provide the closest comfortable and continuous parallel route to San Pablo Avenue
- 3. Address the most challenging barriers in the network, e.g. difficult street crossings
- 4. Can be delivered in the near term (2-4 years)

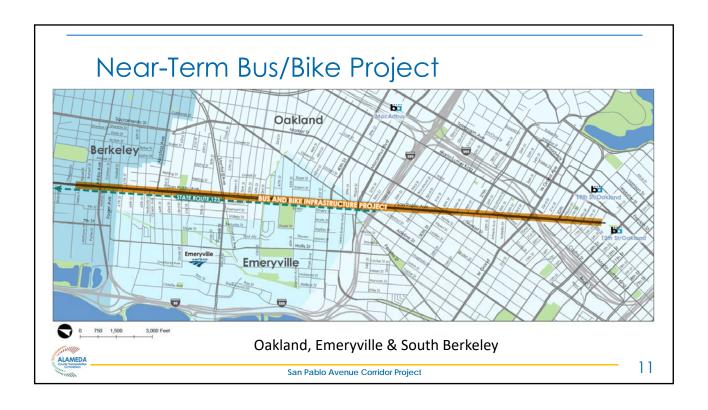
Does not preclude dedicated bus or bike lanes on San Pablo as part of ultimate full-corridor project



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Near-Term Bus/Bike Project

Evaluating:

- Side-running bus lanes
- Protected bike lanes
- No parking/loading lane on SPA
- Requires robust engagement with storefronts/residents along SPA

• Key design issues:

- > Constraints at intersections
- Loading Zones
- > Hybrid bus stop spacing
- Paratransit/ADA access
- For near-term project feasibility, need to balance right-of-way demands with minimizing curb changes



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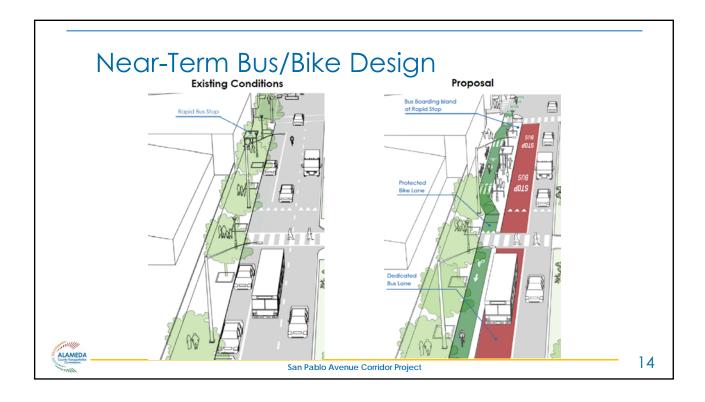
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Design Principles

- Prioritize transit speed and reliability
- Improve safety, especially for people walking & biking
- Design the most protected bus and bicycle facilities possible on San Pablo
- Accommodate critical access and circulation needs



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Right Turn Designs

Typical Design

- Where possible autos will make right turns from bus lane
 - Should not degrade bus reliability in locations where turn volumes and ped volumes are medium/low
- In locations with high right turn volumes, need vehicles out of bus lane to preserve bus performance





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Right Turn Designs

Alternative Treatment for Consideration (in limited locations)

- Right turning vehicles share with bike
- May be able to prohibit right turns at limited number of locations with alternate routes
- Active transportation stakeholders:
 - Request avoiding auto/bike sharing & instead, route bikes on sidewalk
 - Tradeoffs: Removal of trees, signal poles, reduced sidewalk width, potential for mixing bikes and pedestrians
 - Challenges: crossing driveways
 - Impacts to cost, schedule, risk





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Parking and Loading Analysis

- Goal: Determine how to accommodate critical curb needs in bus and bike lanes project (e.g. loading, ADA spaces)
- Preferred locations: side streets or existing off-street
- Analyze other ideas where preferred locations are infeasible, e.g.: short segment of shared bus/bike lane, loading in curb lane
- Full data and analysis shared with city staff



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Parking and Loading Conditions Today

- 571 parking spaces mostly unlimited (75%), no meters
- Few loading spaces on San Pablo Ave; most trucks double-park
- Occupancy is fairly low (54% occupancy, weekday mid-day '21)
 - ➤ Highest occupancy is in West Oakland (61%), some blocks >70%
- Vast majority of parcels front side-street and/or have off-street lot

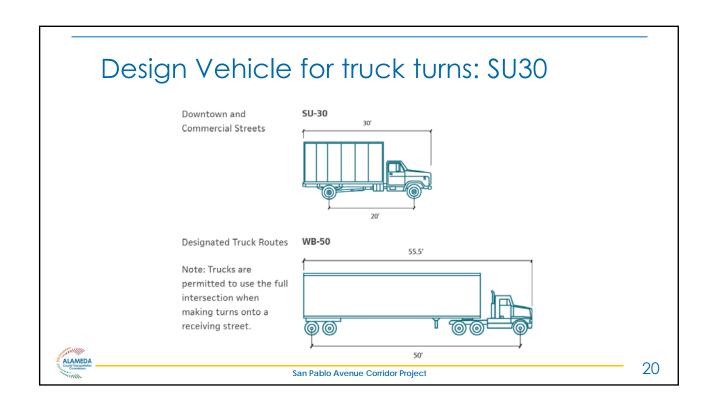


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Opportunities & Challenges

- Vast majority of parcels front a side-street and/or have off-street parking
- Parking underutilized today
- Small minority of do not front side-street nor have off-street parking
 - > Most are commercial
 - > Majority are in North Oakland





Storefront Outreach

- Door-to-door outreach to all storefronts Dec 9-21, 2021 and Jan 3-21, 2022
- Walked entire corridor
- 82 surveys completed (56% of occupied storefronts)
- Dropped flyers at other addresses and attempted phone calls/emails where possible



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Comments:

- Supportive of project
 - Support for addressing traffic safety and slower speeds
 - > Support for improving public transit
 - Some businesses already have parking and loading off San Pablo (lots or side streets)
- Concerns about parking/loading loss
 - > Safety/security issues on side streets
 - > Loss of business without parking
 - > Distance for people with disabilities
 - > Loss of existing parklets, bulb outs
 - > Trucks double parking on SPA
 - Trucks on residential streets will anger neighbors
 - > Residents fill side street parking
- · General project concerns
 - > Traffic congestion
 - Dislike Telegraph bike lanes; perception that protected bike lanes are dangerous



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Storefront Outreach Key Takeaways

- Almost all locations (80+%) appear to survey team to have a potential loading/parking solution; most of those surveyed don't agree
- Support slightly higher from Emeryville storefronts than Oakland
 - > Greatest challenges in North Oakland
- Key challenges include:
 - > Distance/convenience for deliveries, likelihood of double parking
 - > Safety, security, encampments, and residential parking on side streets
 - Many potentially workable solutions have significant caveats that would need to be worked out case-by-case



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Criteria for designating loading zones on San Pablo

- Preliminary criteria: Mid-block, commercial parcel, no off-street lot
 - > All "no solution" locations from outreach are on these blocks
- Final decisions on loading zones TBD during preliminary engineering, will consider factors including:
 - Side-street loading zone is too far away
 - > Limitation on side street truck circulation due to truck type or street design/width
 - > Off-street lot inadequate for loading activities
 - > Personal safety and security concerns on side-streets
- Goal is to keep to ≤ 20% of block faces with loading zone



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Parking/Loading Designs

Typical Design

- Protected bicycle facility
- Parking and loading relocated to side streets and/or off-street lots





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Parking/Loading Designs

Alternative Treatment for Consideration (in very limited locations)

- Small segment shared bus/bike lane
 - Coordination with Caltrans and AC Transit
- Active transportation stakeholder:
 - Request avoiding bus/bike sharing & instead, route bikes on sidewalk
 - Tradeoffs: Removal of trees, light poles, reduced sidewalk width, potential for mixing bikes and pedestrians, potential need to shift lanes left and impact median
 - Impacts cost, schedule, risk





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Traffic and Transit Analysis

- Goal: Forecast transit and traffic performance with conversion of a general purpose lane to a transit lane
 - > Transit Speed and Reliability
 - > Auto Diversion
 - > Auto Travel Time
 - > Locations where turn pockets are needed
- Tool: VISSIM microsimulation model



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VISSIM Model Preliminary Results

	AM Peak Period	PM Peak Period
Travel Time Comparison, Build vs No Build (%)		
72R	-10% to -20%	-15% to -20%
Auto	+3% to +5%	+5% to +10%
Diversion Percentage		
Albany/Berkeley	3%	3%
Oakland/Emeryville	15%-30%	20%-30%

- Transit travel time reliability improves by over 50%
- Increase in congestion and diversions greatest at 40th Street; has systemwide impact
- Macarthur, Alcatraz also congestion hot spots



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Next Steps: Project Roadmap

- Winter 2021-22: Stakeholder engagement
- March 2022: Recommend project to advance to ensure eligibility for funding opportunities
 - Emeryville Council 3/1, AC Transit Board 3/9, Alameda CTC PPLC 3/14, Oakland Council ~ May, Berkeley Council TBD
- Summer 2022: Apply for Construction Funding
- 2022-23: Advance preliminary engineering, Caltrans approvals, environmental review, seek funding for construction
- Goal: Deliver project in 3-5 years



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Discussion



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