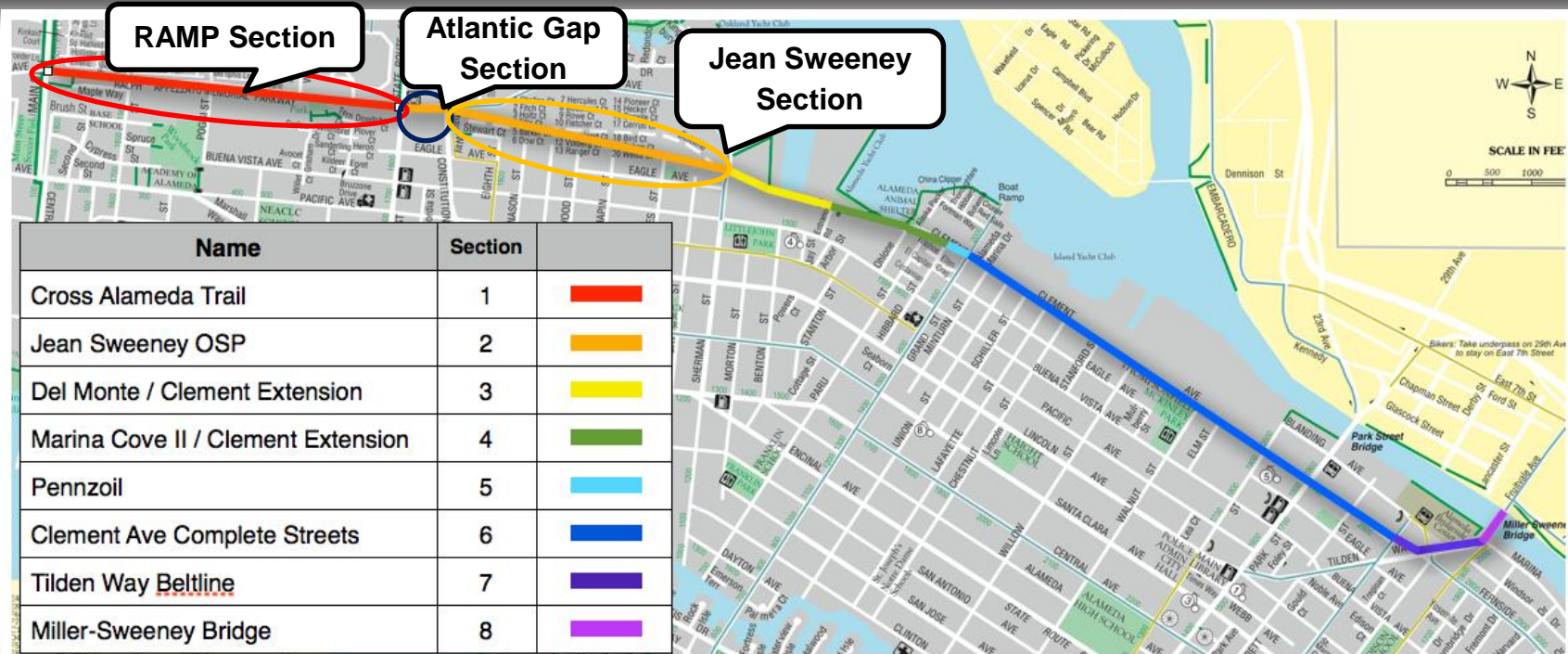


Approve Cross Alameda Trail: Atlantic Gap Design Concept

**Transportation Commission, Item 5A
March 22, 2017**



Cross Alameda Trail: Big Picture



Atlantic Gap Project Benefits

- Creates a safe, multi-modal street for **all** users
- Connects 1.5 miles of continuous off-street trail in 2018
- Develops seamless transit connections
- Increases safety for people walking and bicycling
- Builds bicycling facility where none exists
- Connects to citywide bicycle network
- Creates minimal impacts to motorists



Recommended Concept

- On-street segment southside of Atlantic, connecting to off-street CAT segments, between two busy intersections
- Bicycle Corridor
 - Two-way, 10' wide protected bicycle lanes
 - Elevated at sidewalk-level on west end
 - Street-level on east end



Recommended Concept (cont.)

- Pedestrian Corridor
 - Continuous 6' to 7.9' sidewalk
 - Large pedestrian refuge for northbound peds
 - ADA accessible
- Bus Stop (Eastbound)
 - Upgraded, 8' wide concrete bus pad, per AC Transit requirements
 - Level crossing from sidewalk to bus stop, across protected bike lanes



Recommended Concept (cont.)

- Intersection Crossings & Safety
 - Protected intersections: Raised corner safety islands with visible curb aprons to slow turning cars
 - Protected left turn signal phase from Atlantic to Constitution
 - Warning signage
 - Separated bicycle and pedestrian crossings with high visibility paint
 - Bicyclists at sidewalk-level through driveway



Recommended Concept (cont.)

- Auto Travel Lanes
 - Two eastbound lanes remain
 - One eastbound lane removed for half block, from driveway to Constitution, to add protected bike lanes
 - No changes to number of westbound lanes



Recommended Concept (cont.)

- Midblock Crossing
 - Considered and evaluated, but not recommended
 - Does not meet key guidance criteria: pedestrian volume, collision history and distance to nearest signalized crossing



Commission Input

- Request for more extensive traffic analysis and data
 - Multi-modal Level of Service analysis performed
 - Results: Improvements for bicycling and walking
 - Results for Autos:
 - Intersection delays at Constitution/Atlantic of 1 to 7.5 seconds. No changes at Webster/Atlantic.
 - Some reductions in auto speeds (eastbound only)
 - Increased vehicle queuing (eastbound only)



Commission Input (cont.)

- Address right-turning vehicle/bike conflicts at Atlantic/Constitution
 - Elements included in design:
 - Protected left turn phase
 - Corner safety island to slow vehicles
 - Waiting bicyclists stop ahead of the auto stop line to increase visibility
 - Signage warning turning vehicles to watch for bicyclists and pedestrians



Commission Input (cont.)

- Easement Area considered?
 - Easement includes major utilities which are expensive to relocate
 - Alignment of protected bike lane would not work well if use easement
 - Concept includes small amount of easement near the Webster corner



Commission Input (cont.)

- Work with AC Transit on bus stop
 - Extensive consultation with AC Transit on needs
 - Eastbound bus stop retained and enhanced
- Midblock Crossing design?
 - Design Option 2 illustrates project with midblock crossing



Commission Input (cont.)

- Barrier design type for protected bike lane?
 - Closely spaced 3-foot high lane delineators with hatched striping
- Lack of shoulder with one travel lane?
 - Two lanes in each direction with new concept
- Emergency Services?
 - Consulted; minor changes incorporated



Recommendation

- Approve Cross Alameda Trail Atlantic Gap Design Concept



Questions

