How Do the Alternatives Compare?



DISCLAIMER: T

19th Avenue/M Ocean View Project

All aspects of the proposed project presented are preliminary and subject to refinement. Next steps would include environmental review, project approvals by regulatory agencies, identifying full funding, detailed design and others. Any potential construction activities would not happen for many years in the future.

n (all surfa	ce) Partial Subway and Bridge	
oves opera- M-line which nd reliability slow travel	 Places the M-line in its own subway tunnel from south of St. Francis Circle to Junipero Serra Blvd Designs new stations to serve 4-car trains Includes a new M-terminal in Parkmerced to improve operating flexibility Remaining surface crossings on West Portal Avenue continue to limit reliability and capacity 	+ + + + + +
e, which out doesn't le street.	Creates new underground stations at Stonestown, SF State and Parkmerced. New stations on 19th Avenue would have multiple entrances on both sides of the street.	+
Ave) and fifth ra Blvd) would street wider and to cross or walk	Taking the M-line underground allows for a re-design of 19th Avenue to include wider sidewalks, new two way bike path and a landscaped median	+
	 Supports Parkmerced Vision Plan and SF State Campus Master Plan 	+
nipero Serra	 Removes at-grade crossings near Rosmoor Dr and at Junipero Serra Blvd which addresses some factors of 19th Avenue delay 	+
This assessment is preli	iminary based on qualitative assessment and conceptual engineering. More rigoro	ous analys

Both the **Partial Subway and Bridge** and **Full Subway** options address SFMTA's desire to improve travel time and safety, but the Full Subway provides superior transit performance.



- Places the M-line and part of the K-line in a subway from West Portal station to Parkmerced
- Designs new stations to serve 4-car trains
- Includes a new M-terminal in Parkmerced to improve operating flexibility
- Shortest travel time
- Maximizes subway reliability and capacity for the entire system
- Creates new underground stations at Stonestown, SF State and Parkmerced. New stations on 19th Avenue would have multiple entrances on both sides of the street.
- Taking the M-line underground allows for a re-design of 19th Avenue to include wider sidewalks, new two way bike path and a landscaped median
- Supports Parkmerced Vision Plan and SF State Campus Master Plan
- Removes at-grade crossings near Rosmoor Dr and at Junipero Serra Blvd which addresses some factors of 19th Avenue delay

isis of quantified benefits and impacts would occur during the environmental review phase

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Implementation Considerations



19th Avenue/M Ocean View Project

Full Subway avoids major potential constructability and property impacts that the **Partial Subway and Bridge** would likely create. Because the **Full Subway** entails a longer tunnel and more subway stations, it would cost more than twice as much as the **Partial Subway and Bridge**.

merced, an \$1-1.25 billion (in 2016 dollars), could utilize Parkn funding but would require substantial additional f from federal, state, regional, local and other priva	
	l funding
ue to increase in Operating costs expected to decrease as a result ent crease in rail vehicle travel time, but are likely to nticipated due to a result of new station operation/maintenance, a maintenance needs	o increase as
 Lowering of Junipero Serra for bridge between Randolph would be a major challenge to naviga 72,000 vehicles per day on SR 1. This would cal bridge to be far more expensive than a similar b simpler construction environment. Good candidate for tunnel boring, minimizing si ruption Short-term impacts most likely at station location portals 	gate with cause the r bridge in a surface inter-
 Major issues (during both construction and open noise, visual, and property impacts surrounding on Randolph Street Portal on West Portal Avenue would change the of the street Proposes removal of on-street parking on 19th Avenue between Eucalyptus Drive and Holloway Avenue 	ng bridge landi he look and fee Avenue
his assessment is preliminary based on qualitative assessment and conceptual engineering. More	ore rigorous analysi

2016								
Full Subway								
26TH AVE 26TH AVE 24TH AVE 24TH AVE 3AV DNZZ V	H HE HE PORTOL	HAULA ALE						
CRESTLAKE DR SLOAT OCEAN AVE EUCALYPTUS DR	SAN FERNANDO	ANS COLO						
WIN ^{STON DR} WIN ^{STON Stoneston} ^{PE} ^C ^T /NGHAg SF State	WE DR WE DR WE BLVD	WE MIRAMARAVE						
BROTHERHOOD WAY	HOLLOWAY AVE GARFIELD ST GARFIELD ST Ocean View, Merced Heights, Ingleside To Daly City	LAKEVIEW AVE						
		BROAD ST						

\$2.5-3 billion (in 2016 dollars), could utilize Parkmerced funding but would require substantial additional funding from federal, state, regional, local and other private sources

Operating costs expected to decrease as a result of decrease in rail vehicle travel time, but are likely to increase as a result of new station operation/maintenance, and tunnel maintenance needs

 Good candidate for 	^r tunnel boring,	minimizing	surface
interruption			

- Short-term impacts most likely at station locations and portals
- Tie-in to existing Twin Peaks tunnel likely to be implemented through short-term temporary service disruptions

 Portal on 19th Avenue between Sargent Street and Byxbee Street would change the look and feel of the street
 feel
 Proposes removal of on-street parking on 19th Avenue between Eucalyptus Drive and Holloway Avenue and between

Sargent Street and Byxbee Street

ysis of quantified benefits and impacts would occur during the environmental review phase.

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Improvements Coming in the Next Two Years



19th Avenue/M Ocean View Project

While the 19th/M-line project is a long-term effort, SFMTA and partner agencies are moving forward with many near-term improvements that will bring incremental improvements to transportation conditions.

WEST PORTAL AVE. & QUINTARA ST. WATER MAIN, SEWER & PAVING PROJECT (In Progress)

Fall 2015 - Summer 2016 | West Portal Ave. from Ulloa St. to 15th Ave. This multi-agency project includes water and sewer main replacements, street repaving, and pedestrian safety elements, such as bulbouts and curb ramps.

WEST PORTAL AVE. TRANSIT & PLACEMAKING PROJECT 2016 | West Portal Ave. from Ulloa St. to St. Francis Circle This project is intended to improve Muni Metro performance along West Portal

Avenue and improve the public realm in the short term. Public meetings to share improvement options and seek input will be held prior to project implementation.

19th AVE. / JUNIPERO SERRA BLVD. IMPROVEMENTS Spring 2016 - Summer 2016 | 19th Ave. at Junipero Serra Blvd.

This project will bring much-needed safety, transit, and accessibility improvements to the intersection by modifying the north crosswalk to include a pedestrian refuge area adjacent to the light rail tracks. In order to minimize transit delays caused by vehicle blockages and intrusion, transit signal priority will be installed and the entrance to the trackway will be treated with red paint and speed bumps.

TWIN PEAKS TUNNEL TRACKWAY IMPROVEMENTS Summer 2016 - Fall 2017 | West Portal Station to Castro Station

Aging light rail tracks will be replaced along the entirety of the Twin Peaks Tunnel. To avoid future impacts to transit and the surrounding neighborhoods, additional work to the tunnel's infrastructure will take place at the same time as the track replacement. These projects include seismic upgrades, repairs to concrete reinforcements, and cleaning and repairing the tunnel drainage system.

M OCEAN VIEW TRACK REPLACEMENT PROJECT

Fall 2016 - Summer 2017 | 19th Ave. from Rossmoor Dr. to Winston Dr. Aging light rail tracks will be replaced from the north side of the Winston Drive platform through the Rossmoor Drive Intersection. The Rossmoor Drive approach will be signalized with priority for transit vehicles, helping minimize blockages and conflicts between M Ocean View trains crossing 19th Avenue and vehicles using the corridor.

28 19th AVE. RAPID PROJECT 2016 - 2018 | 19th Ave. from Junipero Serra Blvd. to Lincoln Way

19th Avenue will receive pedestrian and transit improvements at every intersection between Lincoln Way and Junipero Serra Blvd., helping make the corridor--which saw about 400 collisions during a recent five-year period--safer for all users. The project will be coordinated with water and sewer upgrades and Caltrans repaving.

2016

2017

2018

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