

VTA's BART Silicon Valley Phase II Extension Project

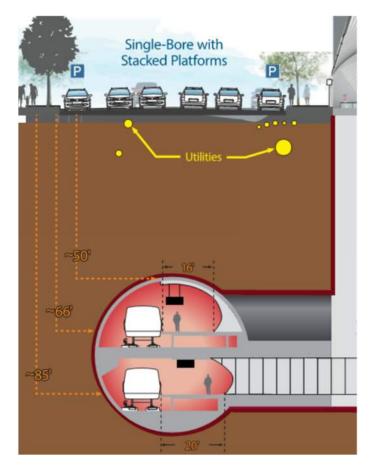
Board of Directors Special Meeting

April 17, 2020



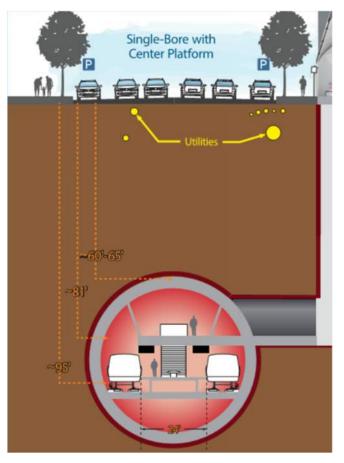
Background

- VTA and BART Board of Directors approved the BART Silicon Valley Phase II Project (through certification/acceptance of the SEIR) for a singlebore tunnel stacked platform station configuration with an agreement that VTA would explore sideby-side track arrangements
- VTA received Federal environmental clearance (Record of Decision) on the single- bore stacked platform station configuration



Background

- Concurrent to pursuing Federal funding, VTA and BART explored a larger single-bore tunnel with sideby-side tracks and center platform
- Engineering on the larger single bore with center platform was advanced to 10% design and showed higher projected costs and risks, thus eliminated from further consideration



Approximately 56' TBM

BART's Operational Concerns for Stacked Configuration

Emergency Egress

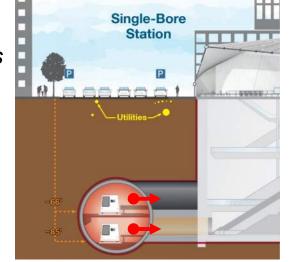
Enclosed stairwells in the tunnel sections as a means for emergency evacuation is not considered intuitive for passengers

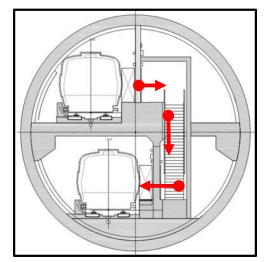
Operations

Challenges with train operations due to ramps/transitions and associated emergency egress

Ventilation

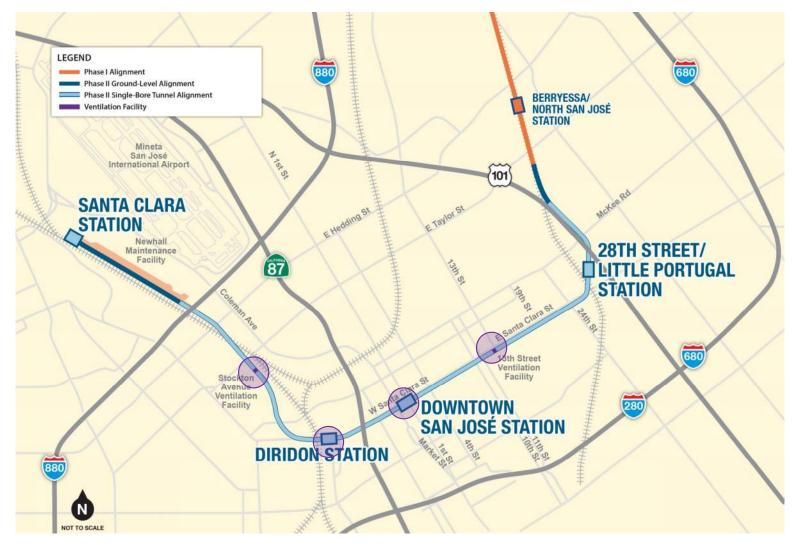
Proposed designs differ compared to the rest of the BART underground system requiring training of employees for unique operational scenarios





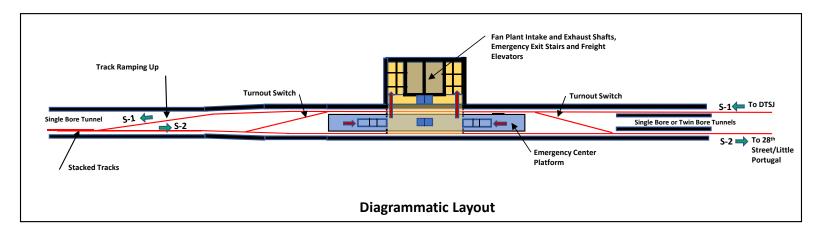


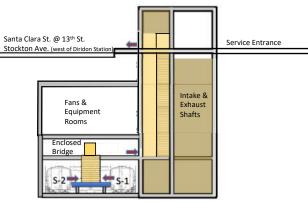
Project Alignment



Ventilation/Emergency Egress Facility Sites

Concept to utilize 13th Street and Stockton Avenue facilities to optimize ventilation, emergency evacuation and operational flexibility





Cross Section Typical Section for 13th Street and Stockton Avenue Sites

Engineering design is required for both these facilities to address length of approaches, track configuration, additional ROW requirements, potential utility impacts, potential interface between TBMs, etc.

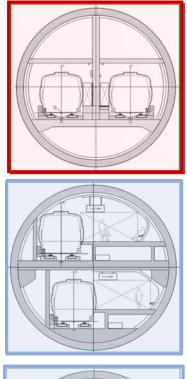
Ventilation/Emergency Egress Facility Sites



13th Street Site

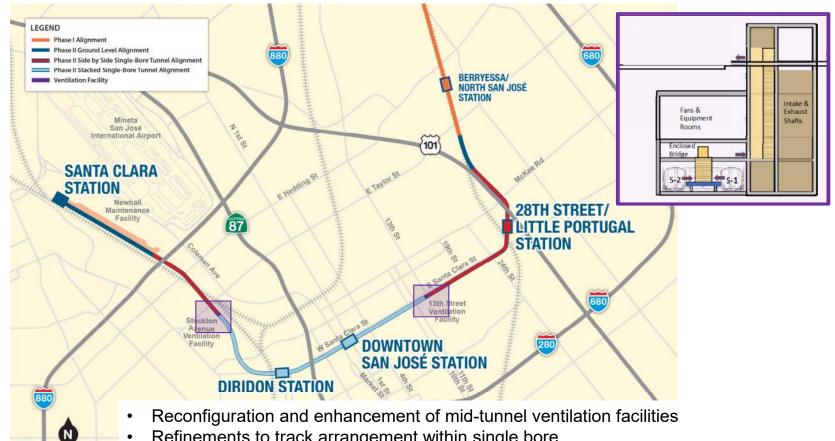


*Final location and cut & cover footprint TBD

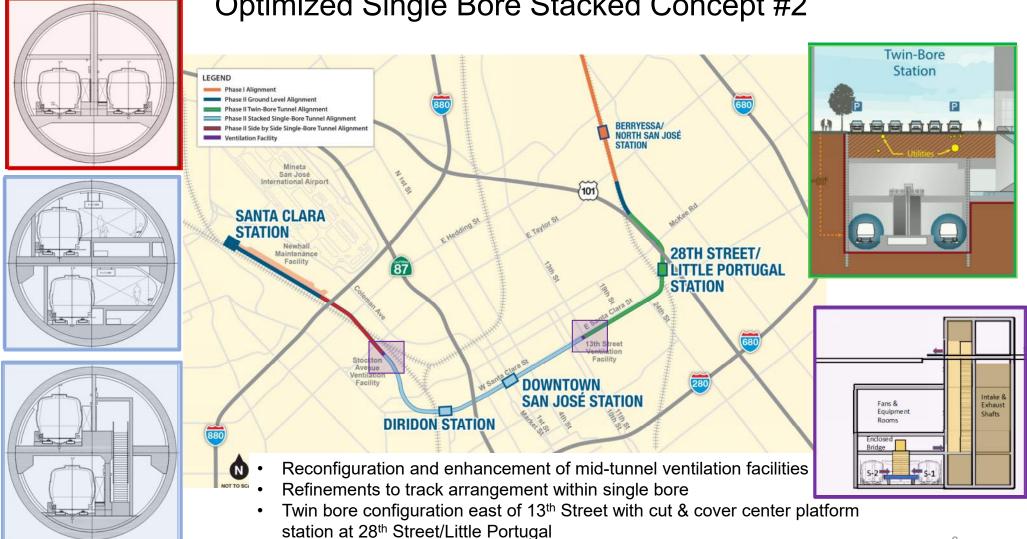


NOT TO SCALE

Optimized Single Bore Stacked Concept #1



- Refinements to track arrangement within single bore ٠
- Cut & cover side platform station at 28th Street/Little Portugal •



Optimized Single Bore Stacked Concept #2

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Next Steps

- Assess potential environmental, right-of-way, utility and other considerations
- Perform engineering analysis incorporating design and operation input from BART
- Develop cost and schedule for both concepts
- Select final concept and advance for Federal funding