VTA's BART Silicon Valley Phase II Extension Project

Alum Rock Community Working Group April 5, 2017



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Agenda

- Follow-up Items
- · June Phase I Tour Details
- · Federal Involvement & Financial Update
- Draft SEIS/SEIR Public Circulation Update
- Project Updates
- Single-Bore Technical Study Summary
- Single-Bore & Twin-Bore Comparative Analysis Update
- Diridon Transportation Facilities Master Plan Update
- Video & Next Steps



Role of the CWG

- · Be project liaisons
- · Receive briefings on technical areas
- · Receive project updates
- · Build an understanding of the project
- Collaborate with VTA
- · Contribute to the successful delivery of the project



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Your Role as a CWG Member

- · Attend CWG meetings
 - Bring your own binder (BYOB)
- Be honest
- Provide feedback
- Get informed
- · Disseminate accurate information
- · Act as conduits for information to community at large



Role of the CWG Team

CWG Team Member	Role	
Eileen Goodwin	Facilitator	
Brandi Childress	Primary Outreach Contact	
Leyla Hedayat	Phase II Project Manager	
Erica Roecks	Technical Lead	
Rosalynn Hughey	City of San Jose – Planning Liaison	
Jessica Zenk	City of San Jose – DOT Liaison	
Ahmad Qayoumi	City of San Jose – DOT Liaison	



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Upcoming Meetings

VTA Board of Directors

- April 6, 2017 at 5:30 PM
- April 21, 2017 at 9:00 AM Workshop
- May 4, 2017 at 5:30 PM
- June 1, 2017 at 5:30 PM

VTA's BART Silicon Valley Program Ad Hoc Committee

• May 15, 2017 at 10:00 AM



Follow-Up Items



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Follow-Up Items

- Follow up on legal disclaimer question related to license plate technology – in progress
- Federal funding status has been added as a regular agenda item
- June Phase I Tour details will be provided today offline
- Real Estate Acquisition Frequently Asked Questions are being developed and will be distributed to CWG members once completed



June Phase I Tour

Brandi Childress, VTA



Phase I Tour Details

- June 14, 2017 12:30-3:30 PM on VTA community bus
- Meet at the Mexican Heritage Plaza parking lot (along Alum Rock Avenue)
- VTA will provide hard hat, glasses, gloves, vest, boots
- Need to RSVP to Eventbrite, space is limited will include RSVP link with meeting notes
- No food allowed on the bus, bottled water will be provided



Federal Involvement & Financial Update

Kurt Evans, VTA Mike Smith, VTA



Phase II Funding Strategy

Phase II Project Cost: \$4.69 Billion¹

Funding Status	Source	Target Value
Expended	Measure A Sales Tax & TCRP	\$160 Million
Approved	Existing Measure A Sales Tax	\$1 Billion
Projected	FTA New Starts	\$1.5 Billion
Approved	2016 Sales Tax Measure B	\$1.5 Billion
Projected	State Transit & Intercity Rail Capital Program	\$750 Million ³
Total		\$4.91 Billion ²

¹ As part of the Federal New Starts review process, FTA will conduct a risk evaluation and establish with VTA the contingency levels for the project.

³ VTA is targeting the maximum State Transit and Intercity Rail Capital Program amount of \$750 million. The current program is competitive and any allocation awarded to VTA could be less than the target



² The amount included in the funding strategy assumes a level of additional contingency resulting from the future risk assessment results.

Cap and Trade

- Cap and Trade funding is an important component of the local match revenues.
- Auction revenues have been significantly below projections
 - Program termination in 2020
 - Litigation challenge as illegal tax
- Two bills have been introduced to resolve both concerns
 - AB 151 (Burke) and AB 378 (Garcia)
 - A 2/3 vote of Legislature would approve as tax



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Other Potential Revenue

- State transportation funding package
 - Could provide additional funding for Transit & Intercity Rail Capital Program
- Regional Measure 3 (RM 3) toll bridge increase
 - MTC will begin developing expenditure plan once state transportation funding package is resolved
 - State legislation required SB 594 (Beall)
 - MTC looking at putting RM 3 on ballot in 2018



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Draft SEIS/SEIR Public Circulation Update

Samantha Swan, VTA



Draft SEIS/SEIR Update

Public Review Period
December 28, 2016 through March 6, 2017

Public Hearings (approximately 170 total attendees)

- 1/25 Mexican Heritage Plaza
- 1/26 Santa Clara Senior Center
- 1/30 San Jose City Hall

Summary of Commenters

- Approximately 110 Commenters
- Approximately 860 Individual Comments Received



Draft SEIS/SEIR Update

Summary of Comments Received

- Support for the project or support for various options
- Comments on the Project Description
 - Alternatives
 - Station locations
 - · Ventilation structures
- · Comments on Project Impacts
 - · Traffic and circulation impacts during construction
 - · Parking loss during and after construction in the Diridon Station area
 - · Noise and vibration impacts during construction and operation



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Project Updates

Leyla Hedayat, VTA



Phase I Questions

- Will BART Phase I infrastructure preclude the future use of the right-of-way for the northern leg of the Five Wounds Trail across Lower Silver Creek, across the Hwy 101 railroad bridge, and along the right-of-way to Mabury Road and the Berryessa Station?
- Would VTA entertain the idea of activating the right-of-way from E Julian Street to the Berryessa Station for Phase I? It would be a great way to get patrons to the Berryessa Station until Phase II is built.
- Didn't VTA commit to replacing the bridge over Lower Silver Creek? What's the update on that?

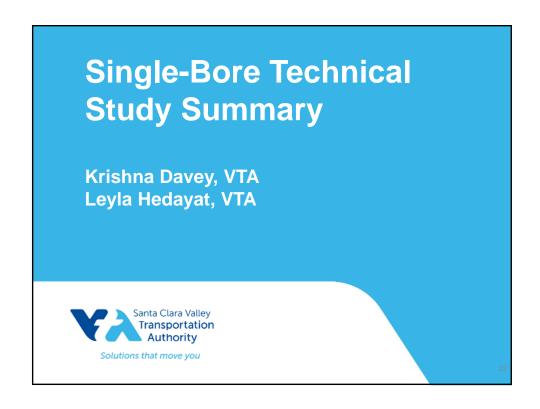


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Status of Phase II Real Estate Acquisition







Why VTA Considered Single-Bore

Renewed Planning Efforts (2014-2015)

- Impacts to street level activities and underground utilities
- Advances in the tunneling industry since 2008
- Feasibility of alternate tunneling methodologies
- Cost effective project delivery with minimal construction impact to the community

Preliminary Analysis of Single-Bore Methodology (2015)

- Determined feasible
- Reviewed with BART and FTA
- Included as option in environmental document

Single-Bore Tunnel Technical Studies (2016)

- **HNTB** awarded contract
- **BART** participation



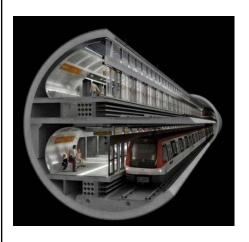
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Scope of Study

- **Design Criteria and Key Assumptions**
- **Tunnel Diameter**
- **Tunnel Depth**
- Track Alignment
- **Operational Aspects**
- Station Configuration
- **Passenger Circulation**
- Station and Tunnel Ventilation
- **Emergency Egress**
- Cost and Schedule



BART Phase II Single-Bore Tunnel Features

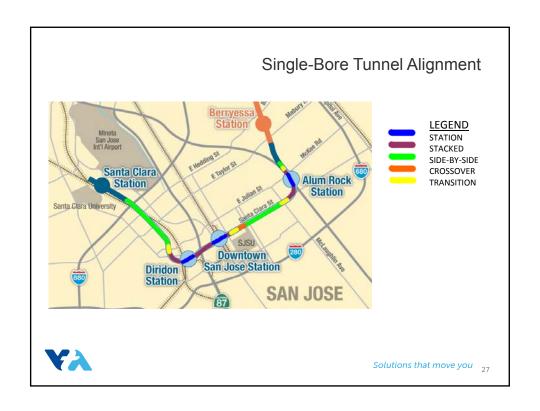


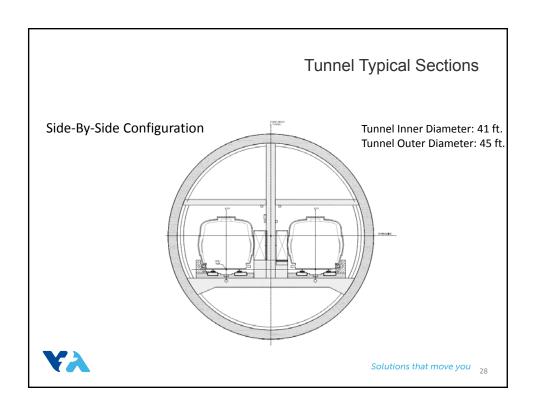
- · Stacked platforms within tunnel
- Minimized surface construction impacts in public right-of-way
 - Cut-and-cover required at off-street station vertical circulation elements
 - Station entrances connect to tunnel via passageway
 - 76 cross passages within tunnel



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Downtown San Jose Station Cross Section – Single-Bore West Entrance Section VTA Block Santa Clara Street Solutions that move you 26





Tunnel Typical Sections Stacked Configuration at Stations Unobstructed 15'-6" platform Exceeds BFS requirements: 8-foot minimum unobstructed platform 7 sf/person min. (LOS C)



Results of Study

Draft final report completed indicating single-bore method under study meets industry standards for the following:

- Safe application in construction
- Accommodates critical functional, operational and maintenance requirements for underground stations and running tracks
- Complies with BART and industry safety standards.

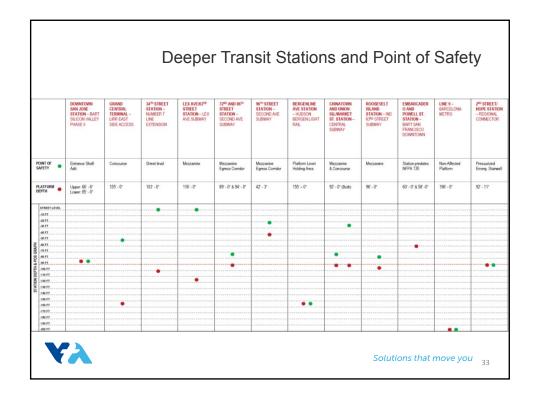


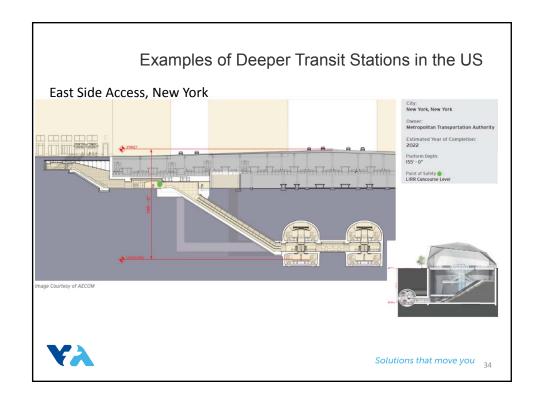
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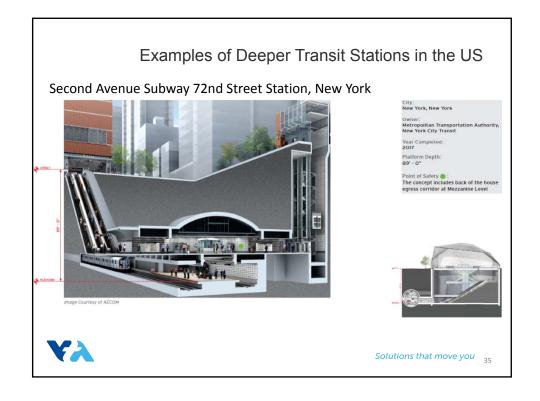
Code and Standard Compliance

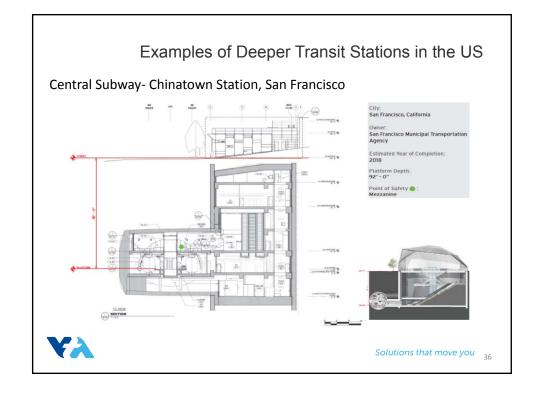
	National Fire Protection Association (NFPA) 130	BART Facility Standards (BFS) 3.0	California Building Code (CBC) 443	California Building Code (CBC) 903
Station Self Evacuation Timing	х			
Station Self Evacuation Spacing		Х		
Mechanical Ventilation		Х	Х	
Fire Protection – Manual Standpipe	х	x		Х
Fire Protection – Under Car Deluge				Х
Fire Protection – Station Sprinklers				х











Single-Bore & Twin-Bore Comparative Analysis Update

Krishna Davey, VTA



Tunneling Methodology Comparative Analysis

- Independent comparative analysis of tunneling alternatives under consideration
- Analysis to evaluate risks (cost, schedule, performance) associated with tunneling alternatives
- Scope of work includes:
 - Interviews with technical experts and stakeholders
 - · Qualitative & quantitative assessment
 - Development of risk profiles and report
- Consultant selected by a joint VTA/ BART review panel
- · Contract awarded to Aldea Services LLC, Maryland
- Study underway and anticipated to be completed in June 2017



Diridon Transportation Facilities Master Plan Update

Leyla Hedayat, VTA



Study Context



- Develop a functional and operational program for the **Diridon Station**
- Ensure that transportation investments are optimized through seamless intermodal connectivity
- · Continue a collaborative process with transit operators to build a functional facility that enhances and integrates with future development



Project Goals



Transportation Performance

A station that works

A plan that fits

Flexible, adaptable concepts



Passenger Experience

Convenient, comfortable energetic, inspiring



A Good Neighbor & **Civic Gateway**

Compatible with existing neighborhoods and future development

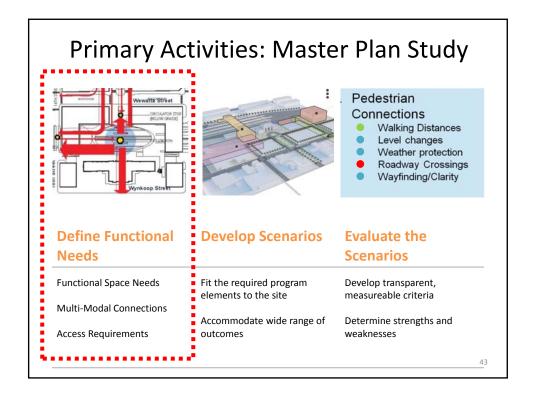
Respect an historic setting

A new landmark

Technical Guidance

- Transit operators and city engaged on a monthly basis.
- Provided data, service plans, facility and operational needs, and technical criteria.
- Ensure that the facility design will function properly, and is integrated with current and future plans.
- · Review, identify, and resolve conflicts among technical requirements.



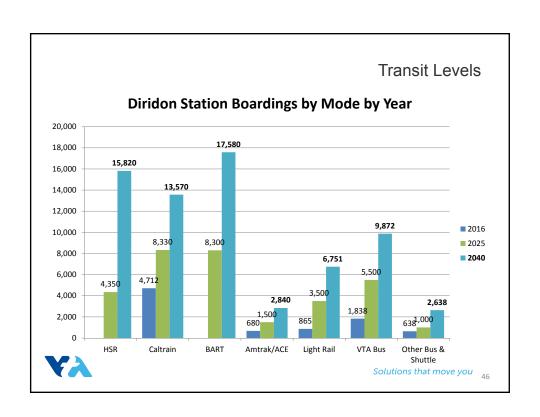


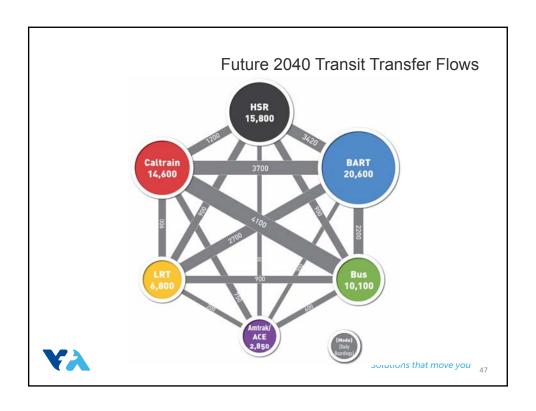


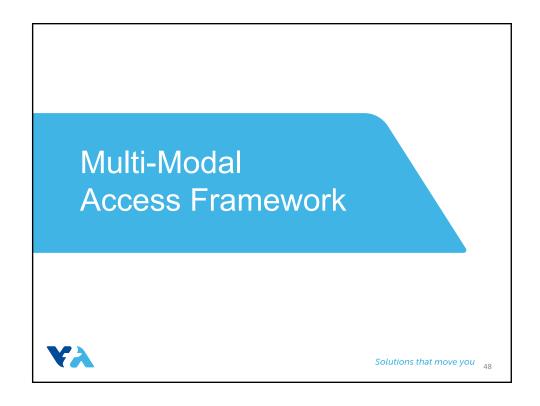
Existing vs. Future Boardings and Alightings at Diridon Station

	Existing (2016)	Future (2040)
Daily Boardings	8,733	69,070
Daily Alightings	8,733	69,070
Daily Boardings and Alightings	17,466	138,140









Multi-Modal Access Planning

- Multi-Modal Service Needs: transit ridership, service plans, mode of access and egress, intermodal transfers
- Access Study: auto, bicycle, pedestrian, drop off/pick up, transit buses, shuttles, special event circulation paths
- Parking Policy: joint development and station based vehicular uses (zipcars, future autonomous vehicles, public spaces, rental cars)



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Objectives of the Parking Policy Study



- Present alternative policies regarding new and replacement parking quantities
- · Consider nationwide precedents
- Calculate new parking **needs** resulting from the Master Plan



What Does the Parking Policy Cover?

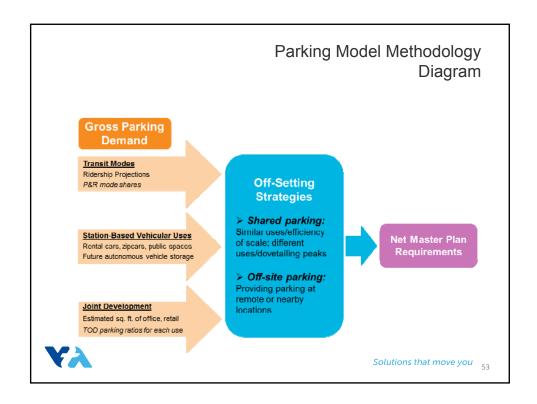


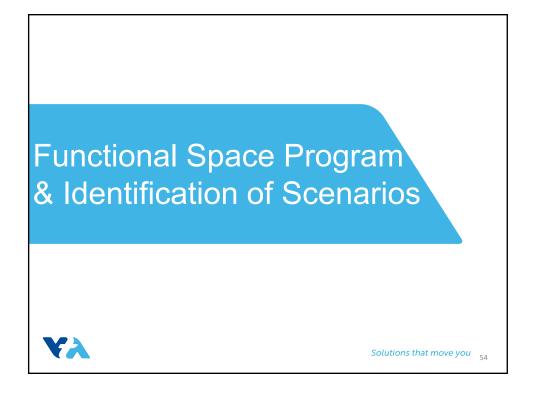
Potential station-related joint development sites:

- Transit Center
- (H) Station East
- (G) Station South

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Parking Program Variables Pedestrian / Bike / Automobile **Transit Focus Focus** Access Mode Shares **Complementary Uses** No Sharing **High Sharing** Shared Parking Large offsite capacity No offsite capacity Off-site Parking Solutions that move you 52





Functional Program Overview

Functional Category	Net Sq. Feet (NSF)	Building Gross Sq. Feet (BGSF)
Transit Operations	136,469	166,468
Passenger Services	74,551	82,992
Station Management	14,774	26,788
Building Infrastructure	8,928	13,346
Retail	11,152	13,661
Bicycle Facilities	8,000	11,960
Police	1,037	1,773
Total - Transit Facilities (sq ft)	254,911	316,988
Potential Joint Development	TBD	TBD
Potential Additional Retail	TBD	TBD
Potential Parking	TBD	TBD
Potential Total - All Facilities (sq ft)	TBD	TBD



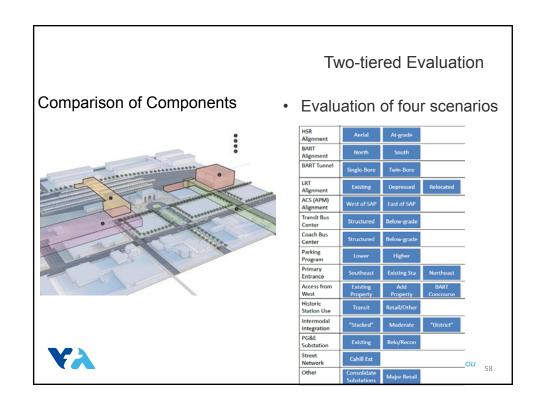
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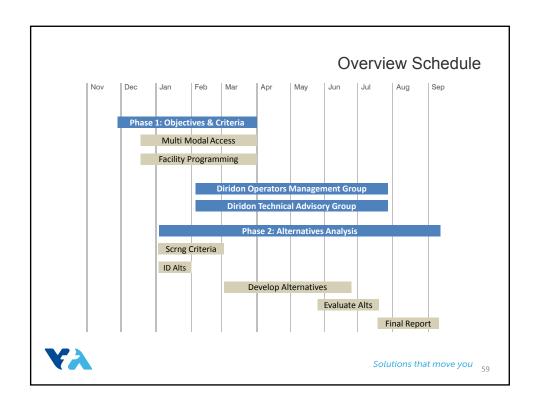
Identification and Evaluation of Scenarios

- Develop Screening Criteria
- Develop Transportation Facility and Access Scenarios
- Evaluate Scenarios
- Refine Final Scenarios(s)



	E	Evaluation Criteria
Transportation Performance	Passenger Experience	Great Civic Asset
"A Station That Works"	"A Superior Passenger Experience"	"Community and Context"
YX		Solutions that move you 57







Video & Next Steps

Eileen Goodwin, Facilitator





Next Steps

- Next CWG meeting: Wednesday, June 14, 2017 \sim 12:30-3:30 PM, meet at Mexican Heritage Plaza Alum Rock Ave parking lot ~ **BYOB**
 - Phase I Tour
 - · Construction Outreach Plan
 - · Lessons Learned from Phase I and BRT
- Action Items

