Open House (6:30-7:00 pm)

- Take a look around and tell us:
  - ✓ Your preferred crossing concept
  - ✓ Your preferences on ramp/stair types and locations
  - ✓ Design elements (clear width, lighting, safety features, etc.)

Presentation Begins at 7:00 pm

Middle Avenue Pedestrian & Bicycle Rail Crossing

Community Outreach Meeting

Presentation

May 13, 2019

Agenda

Open House	6:30-7:00
Presentation	7:00-7:30
Q&A	7:30-8:00
Open House	8:00-8:30
Adjourn	8:30

Goals For Tonight's Meeting

- Provide project update
- Obtain your input regarding:
  - Three Concepts
  - Alma Street/Burgess Park Connections
  - Ramp and Stair Layouts
- Answer your questions

Background/History

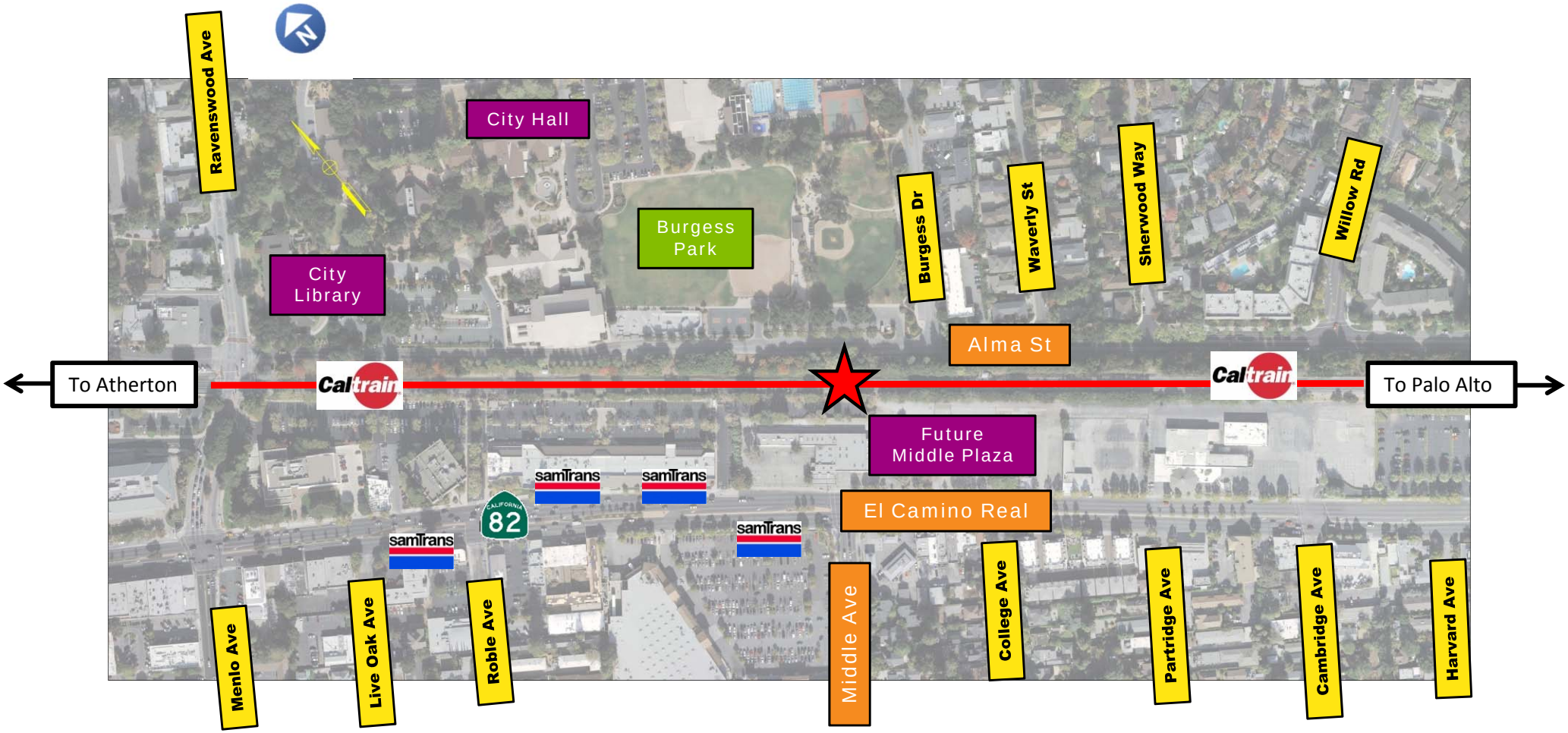
2009: Middle Avenue selected as preferred crossing location

2012: Middle Avenue crossing location adopted by City Council in the El Camino Real/Downtown Specific Plan

2016: San Mateo County Transportation Authority (SMCTA) programmed funds for the project

March 14, 2017: Scope approved by City Council

Project Area Map



Project Goals

- **Improve Mobility**
  - Reduce travel times
  - Improve east/west bicycle and pedestrian connectivity

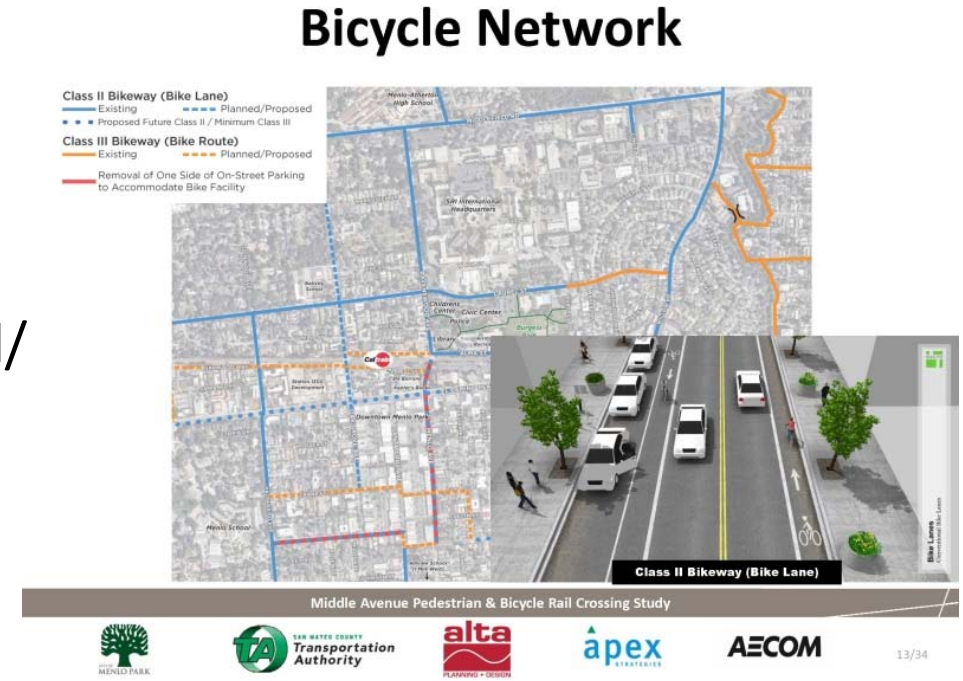
- **Enhance Safety**
  - Provide alternative to busy streets

→ ***Encourage Other Modes of Travel***

Summary of May 4, 2017 Meeting

- **Crossing Types**
  - Undercrossing
  - Overcrossing
  - Majority support undercrossing

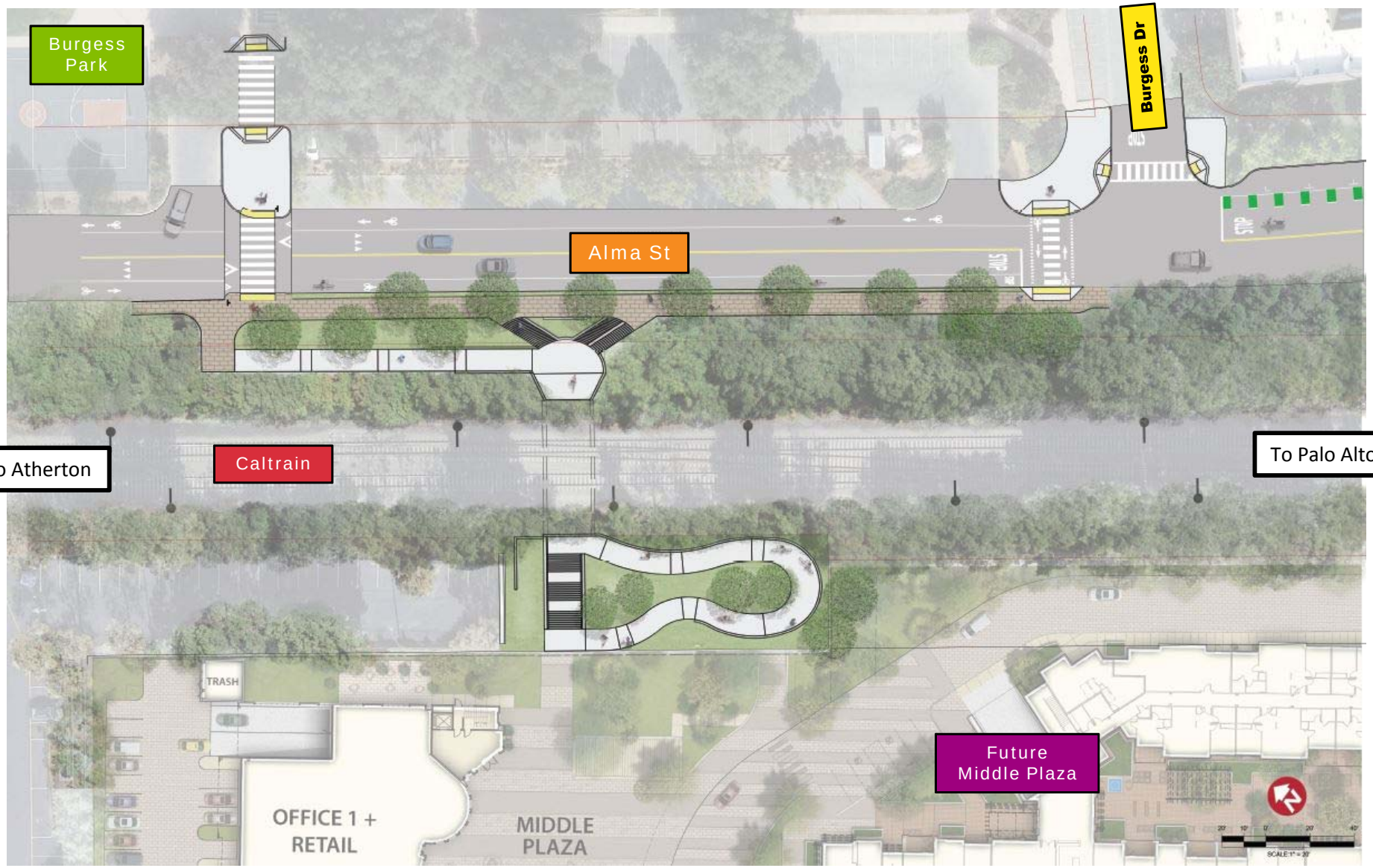
- **Feedback Received**
  - New Crosswalks on Alma Street
  - Bike Lane on Middle Avenue
  - Improvements to El Camino Real/ Middle Avenue Intersection



Design Constraints/Considerations

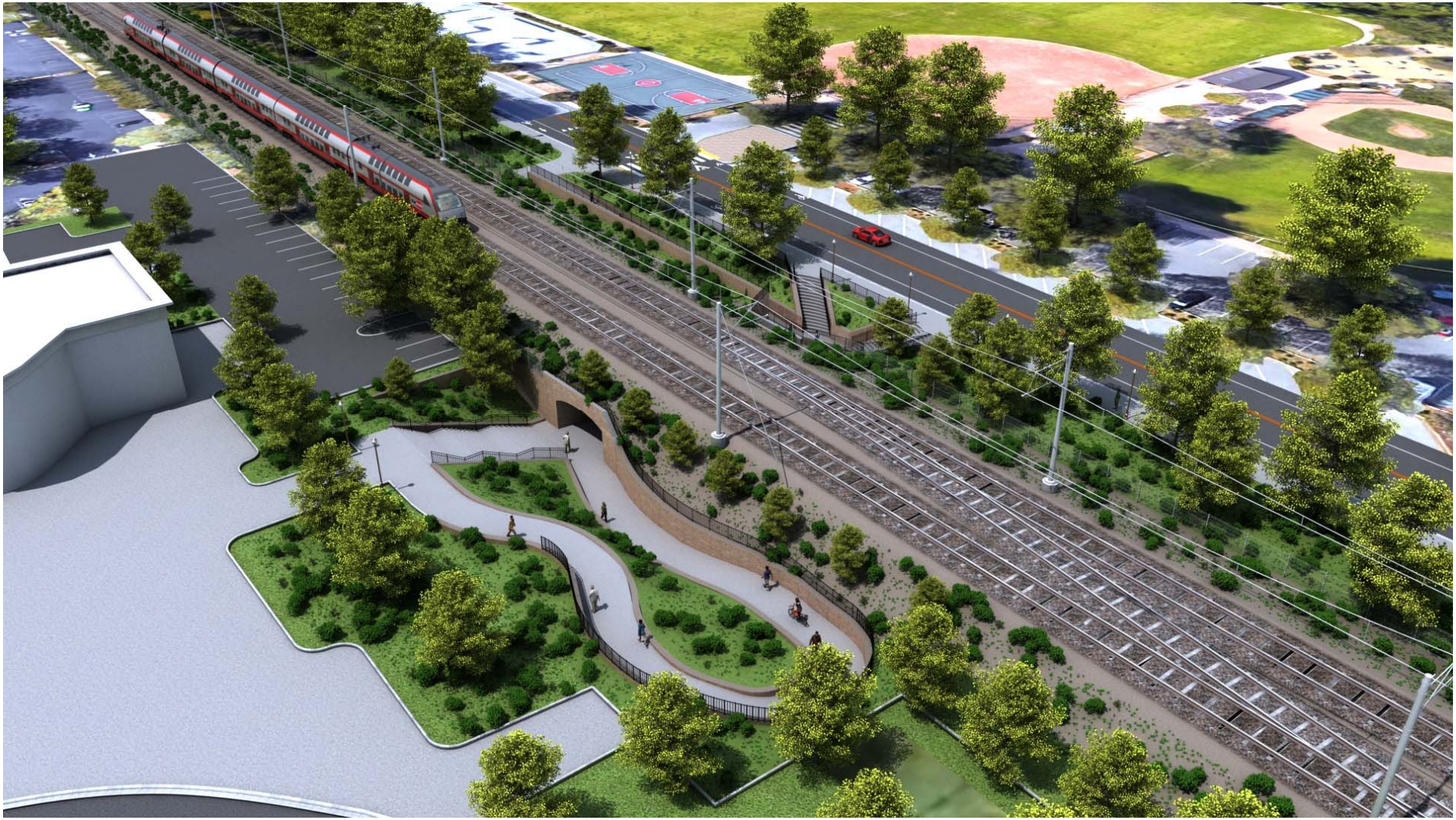
- Accessibility
- Right-of-Way Impacts
- Utility Impacts
- Geometric Design Requirements
- Constructability
- Railroad Operations
- Trees/Landscaping
- Cost

Concept 1 – Plan View



Concept 1 – 3D Rendering (1 of 5)

(Looking North)



Concept 1 – 3D Rendering (2 of 5)

(Looking South)

Concept 1 – 3D Rendering (3 of 5)

(Looking East)

Concept 1 – 3D Rendering (4 of 5)

(Looking South)

Concept 1 – 3D Rendering (5 of 5)

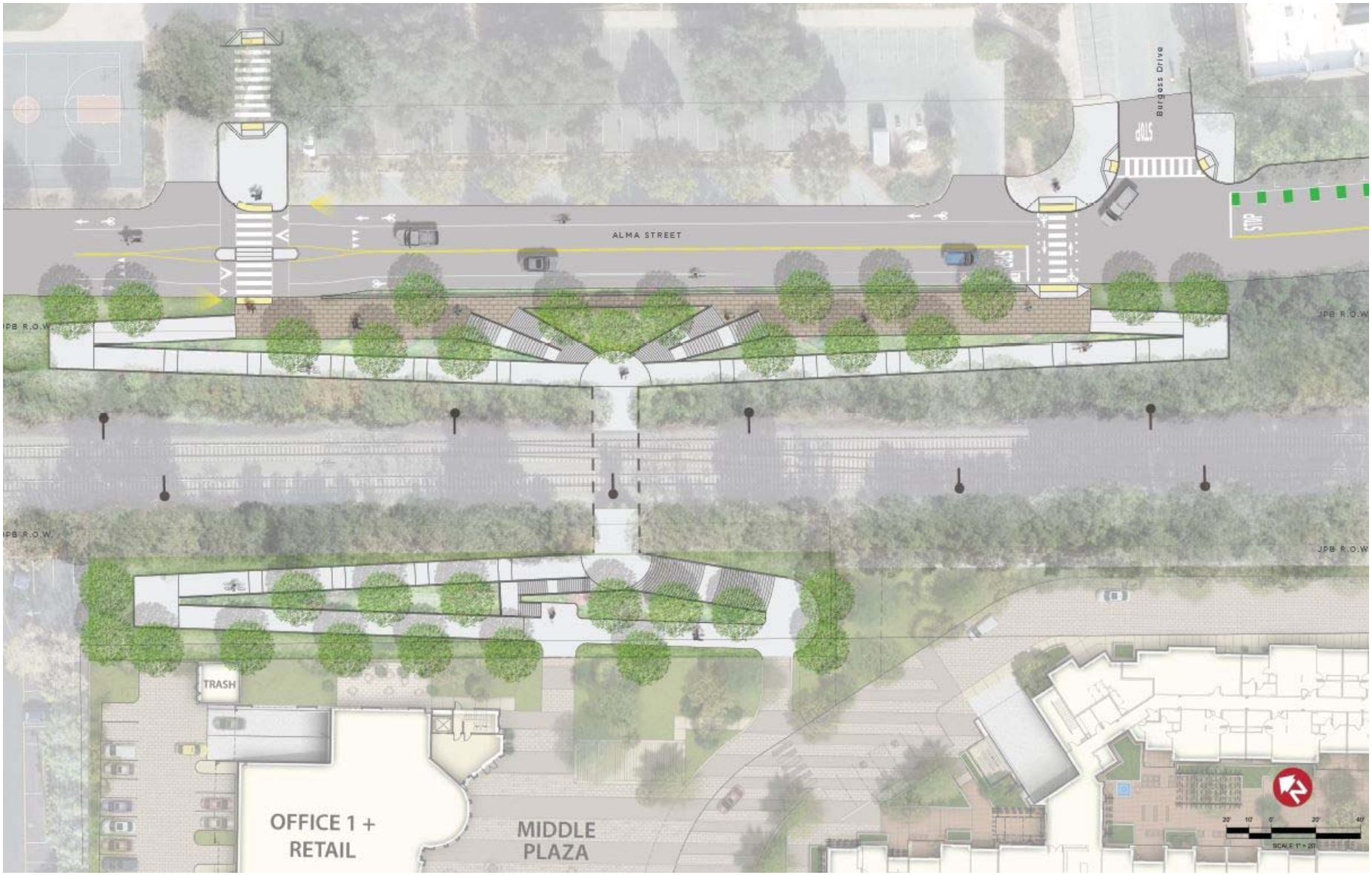
(Looking West)

Concept 1 – Trench Method

5-Step Process, can be completed over a 4-day weekend (~100 hours)

- Remove Tracks
- Excavate to the Bottom of the Tunnel
- Place Precast Concrete Box Segments
- Backfill Trench
- Replace Tracks

Concept 2 – Plan View



Concept 2 – 3D Rendering (1 of 4)

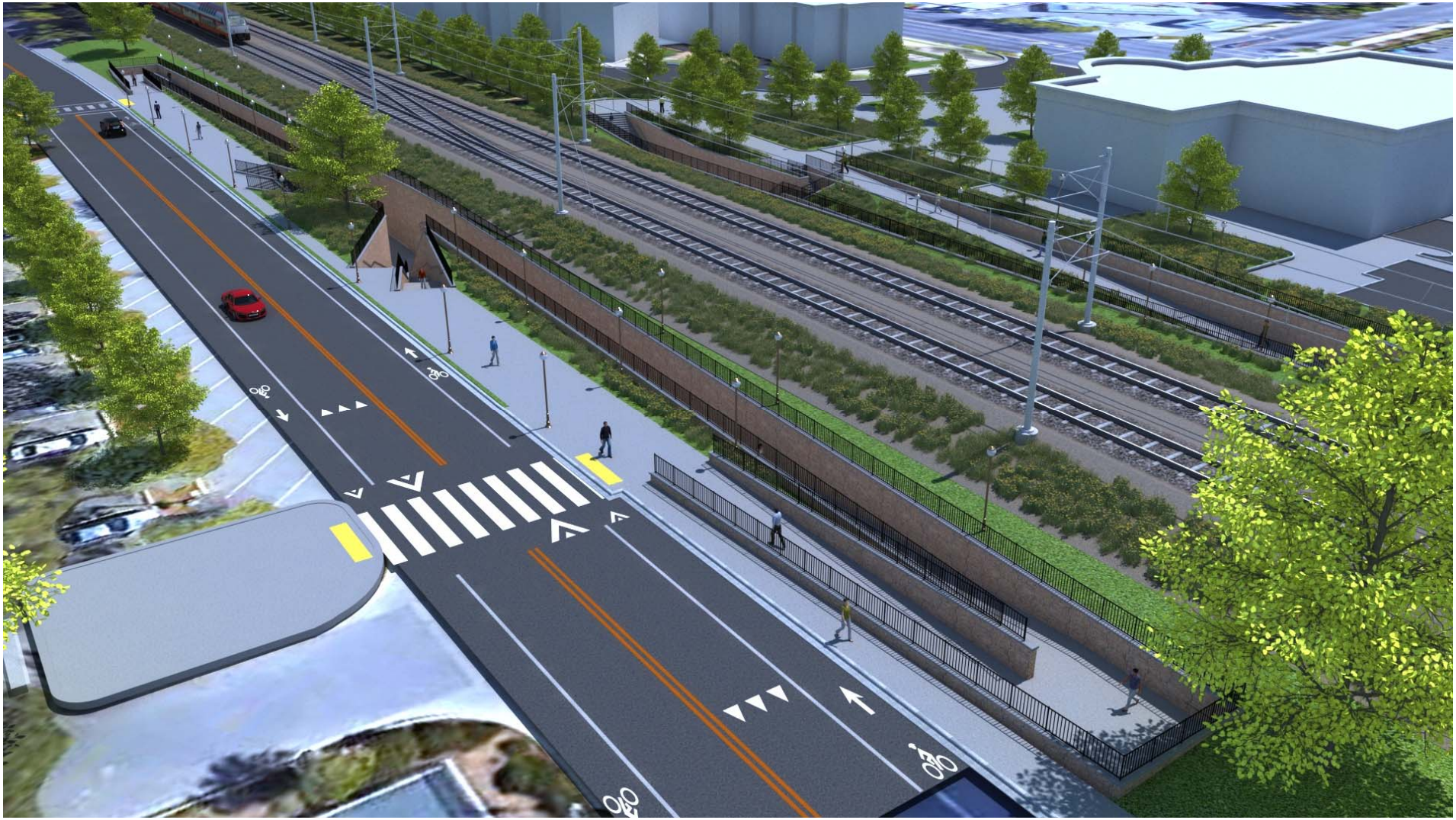
(Looking North)

Concept 2 – 3D Rendering (2 of 4)

(Looking North)

Concept 2 – 3D Rendering (3 of 4)

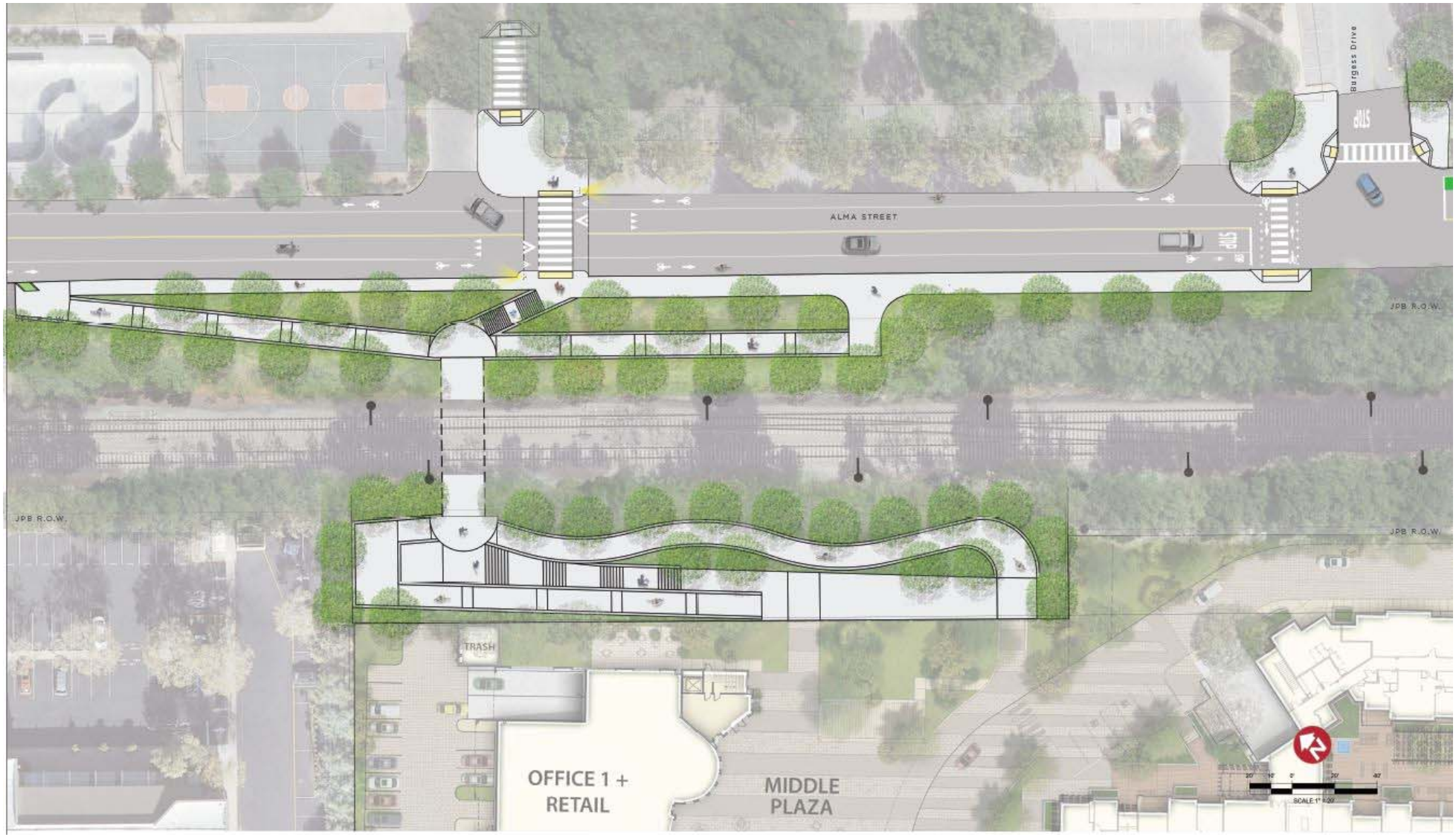
(Looking South)



Concept 2 – 3D Rendering (4 of 4)

(Looking South, Close up of Tunnel)

Concept 3 – Plan View



Concept 3 – 3D Rendering (1 of 3)

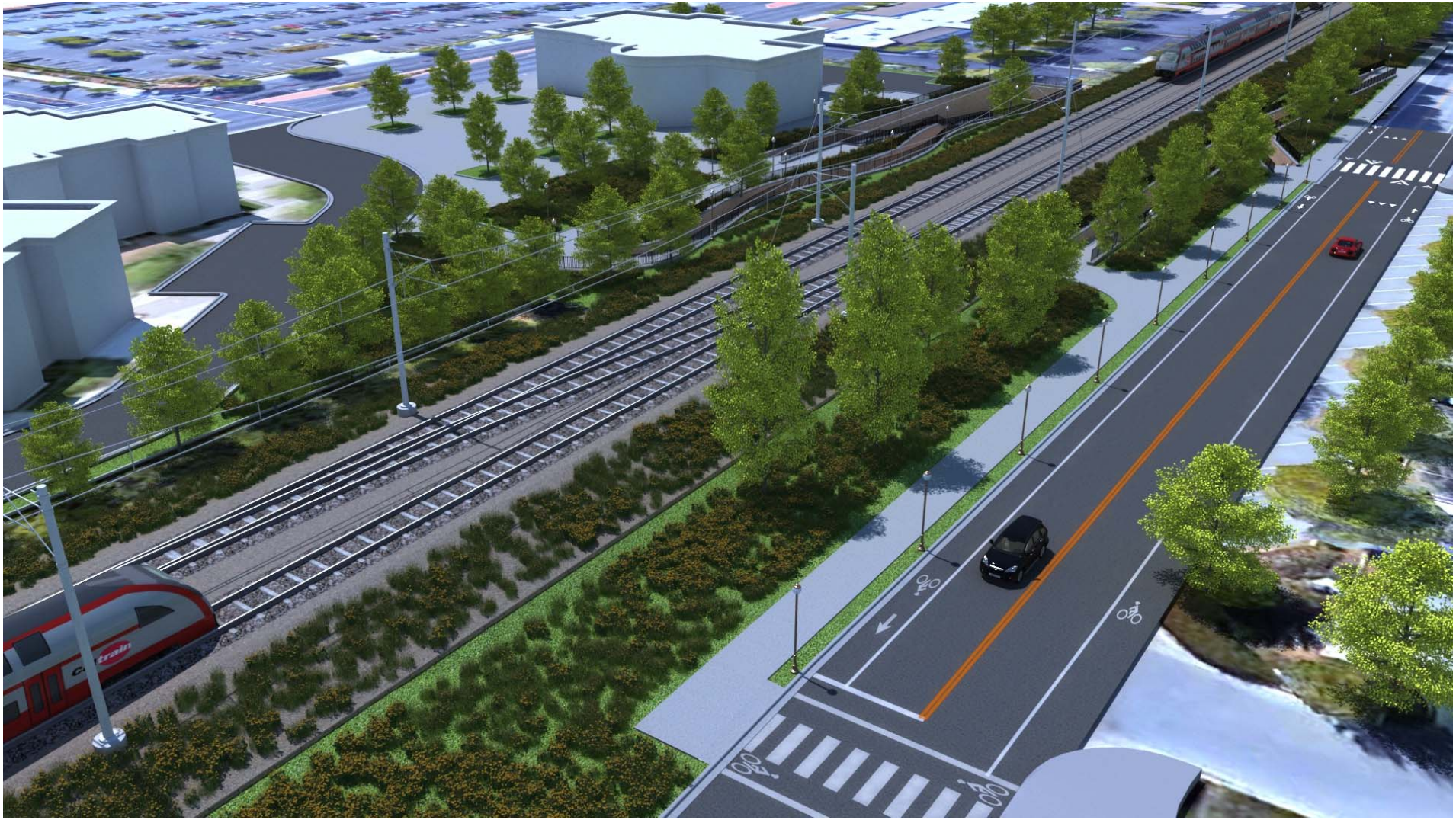
(Looking North)

Concept 3 – 3D Rendering (2 of 3)

(Looking South)

Concept 3 – 3D Rendering (3 of 3)

(Looking North)



Stair and Ramp Options

Stairs

- On Diagonal
- Straight
- 90 or 180 degree Turns

Ramps

- Curvilinear
- Straight
- 90 or 180 degree Turns

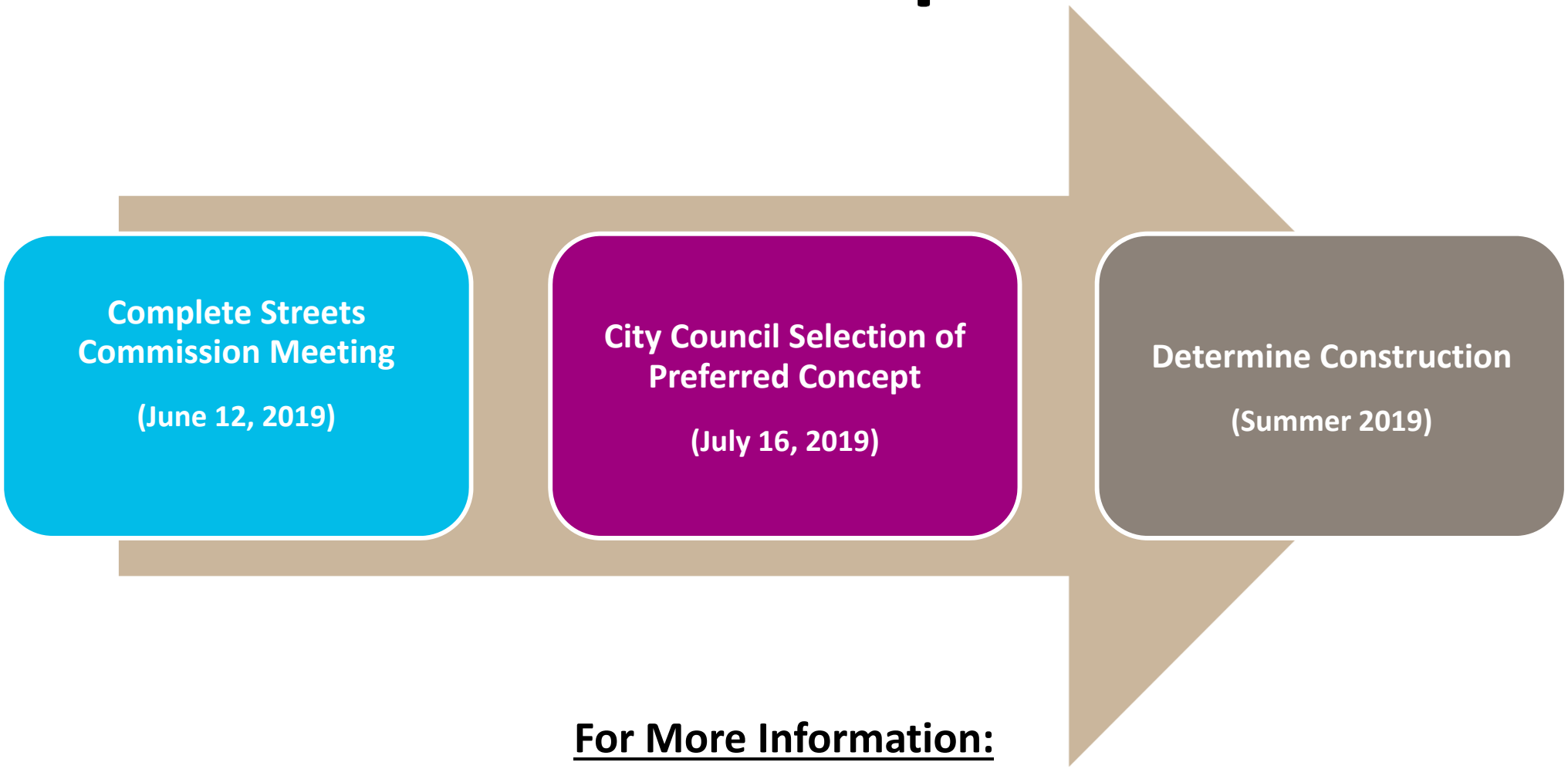
Cost Estimate Summary

Concept	Cost
1	$20-25M ($14-18M)
2	$35-40M
3	$20-25M

Cost Includes:

- Construction
- Utility Relocations
- Right-of-Way Acquisition
- Support Costs for:
  Design Services & Construction Management
- Escalation to 2022
- **Value Engineered**

Next Steps



For More Information:

Visit Us at: http://www.menlopark.org/Middle

Email Us at: transportation@menlopark.org

Questions?

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Open House/Additional Feedback

- Take another look around and tell us:
  - ✓ Your preferred crossing concept
  - ✓ Your preferences on ramp/stair types and locations
  - ✓ Design elements (clear width, lighting, safety features, etc.)

Meeting ends at 8:30 pm

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