



# Alma/ Churchill Near Term Safety Improvements Community Meeting #2

November 16, 2021



HEXAGON TRANSPORTATION CONSULTANTS, INC.



[www.cityofpaloalto.org/almachurchill](http://www.cityofpaloalto.org/almachurchill)

# Housekeeping

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- Today's meeting is recorded
- Submit questions or comments in Q&A function or email to:  
[transportation@cityofpaloalto.org](mailto:transportation@cityofpaloalto.org)
- Use Raise Hand function during Q & A
- Send email for project updates: [transportation@cityofpaloalto.org](mailto:transportation@cityofpaloalto.org)
- Materials posted to project website:  
[https://www.cityofpaloalto.org/gov/depts/trn/alma\\_churchill\\_section\\_130\\_project.asp](https://www.cityofpaloalto.org/gov/depts/trn/alma_churchill_section_130_project.asp)

# Background - Funding

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**Project Limits:** Alma/Churchill intersection

## **Funded by Section 130**

- Federal program for the elimination of hazards at at-grade rail crossings
- Addresses more immediate safety concerns
- Partnership between Caltrain and Caltrans and City
- Adhere to CPUC requirements and guidelines
- Limited to specific scope of work

## **Typical Design Elements**

- Traffic signal modifications; adding pre-signal
- Sidewalk realignment /widening
- Drainage improvements, signing and striping

# Background – Railroad Crossing Constraints

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- Caltrans Section 130 Funding Scope
- Multiple Stakeholders
  - Caltrans
  - Caltrain
  - Joint Powers Board (JPB)
  - California Public Utilities Commission (CPUC)
  - Palo Alto High School
  - PAUSD
  - Adjacent Homeowners
- Technical Constraints
  - Right-of-Way
  - Existing Utilities
  - Visibility
  - Intersection Capacity

# Outreach Efforts

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Community Meeting #1

Pedestrian and Bicycle Advisory Committee (PABAC) Meeting

City School Traffic Safety Committee (CSTSC) Meeting

PAUSD Staff Meeting

Planning and Transportation Commission Meeting

City Council Meeting

**Community Meeting #2**



# Opportunities and Constraints

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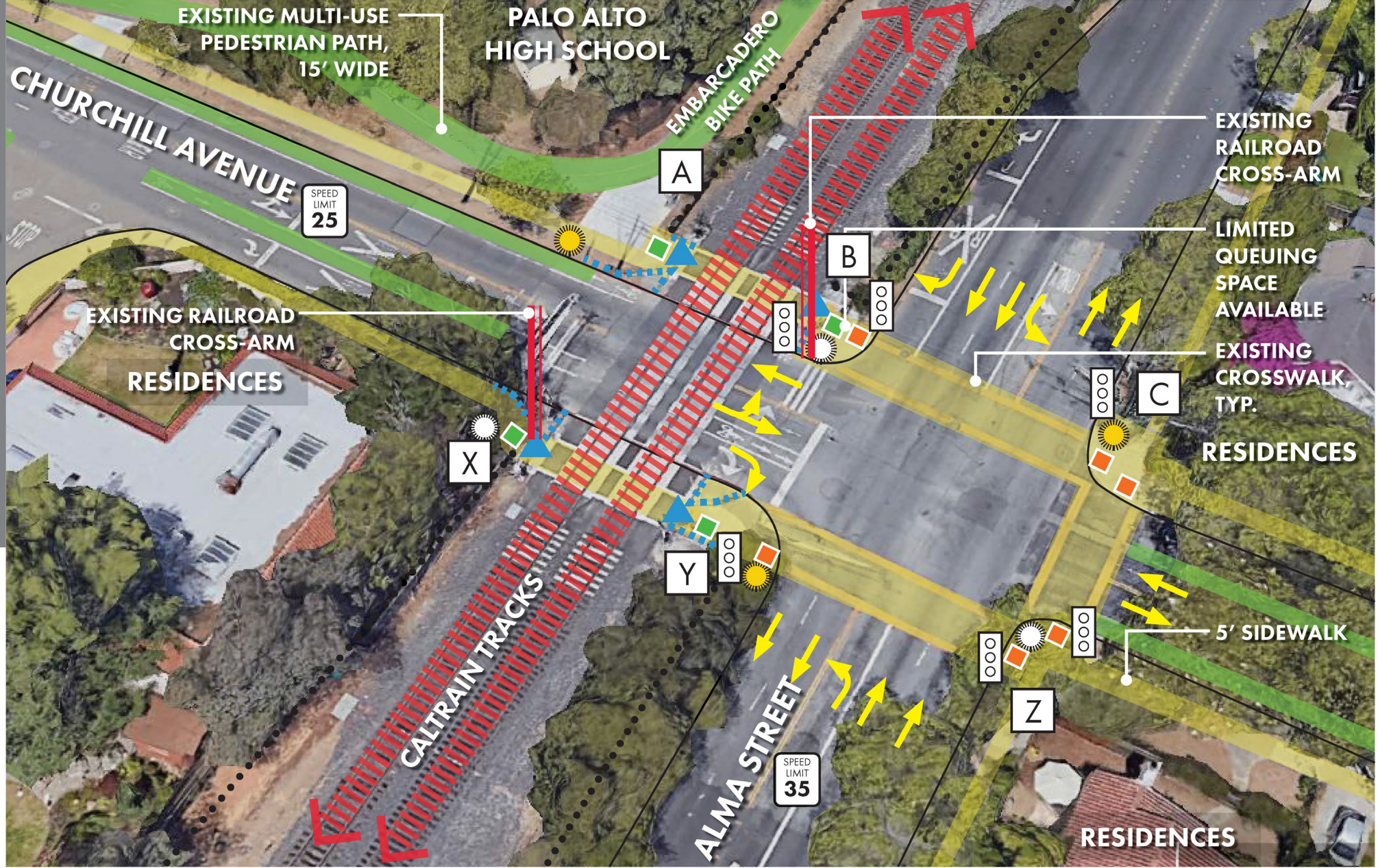
November 16, 2021

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# LEGEND

-  RAILROAD SAFETY GATE
-  RAILROAD SAFETY BARRIER
-  FENCE
-  CURB RAMP WITH TRUNCATED DOMES
-  CURB RAMP WITHOUT TRUNCATED DOMES
-  STREET LIGHT
-  OPPORTUNITY TO IMPROVE PEDESTRIAN LIGHTING
-  VEHICULAR TRAFFIC SIGNAL
-  PEDESTRIAN ROUTE
-  BICYCLE ROUTE

\*Existing bicycle facilities shown are diagrammatic and do not reflect actual striping.





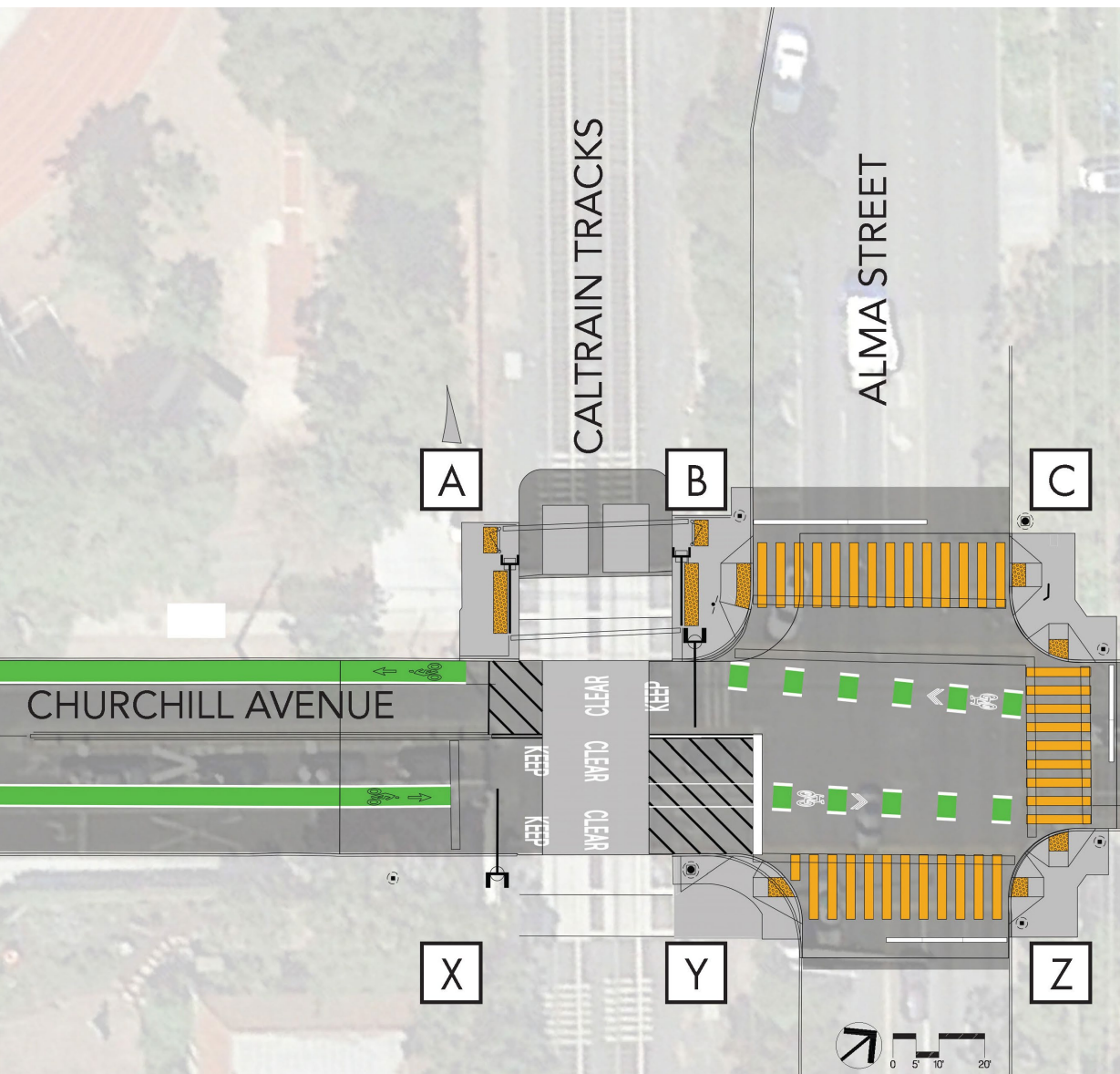
# Preliminary Conceptual Alternatives

November 16, 2021

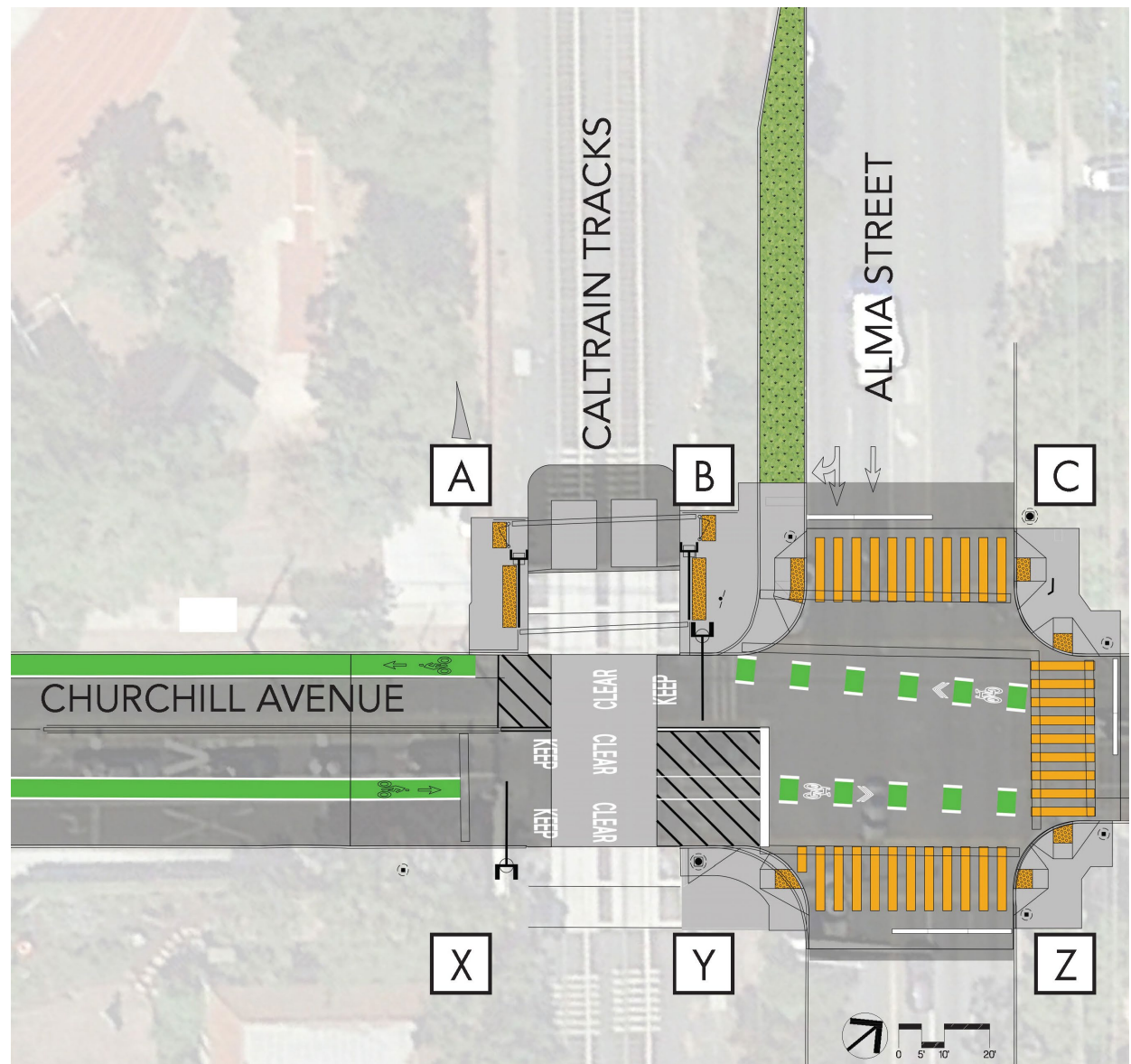
[www.cityofpaloalto.org/almachurchill](http://www.cityofpaloalto.org/almachurchill)



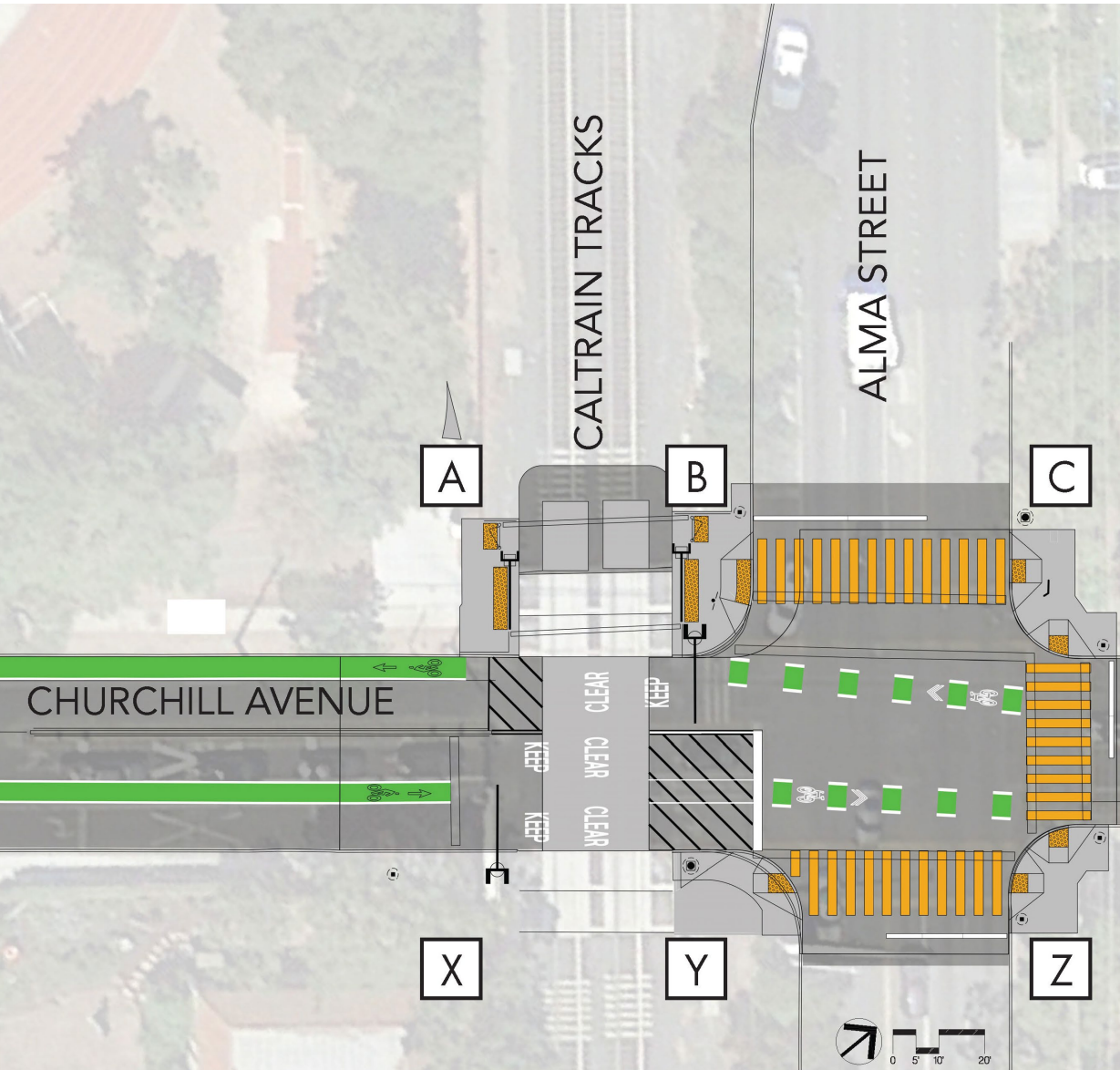
# CONCEPT 1



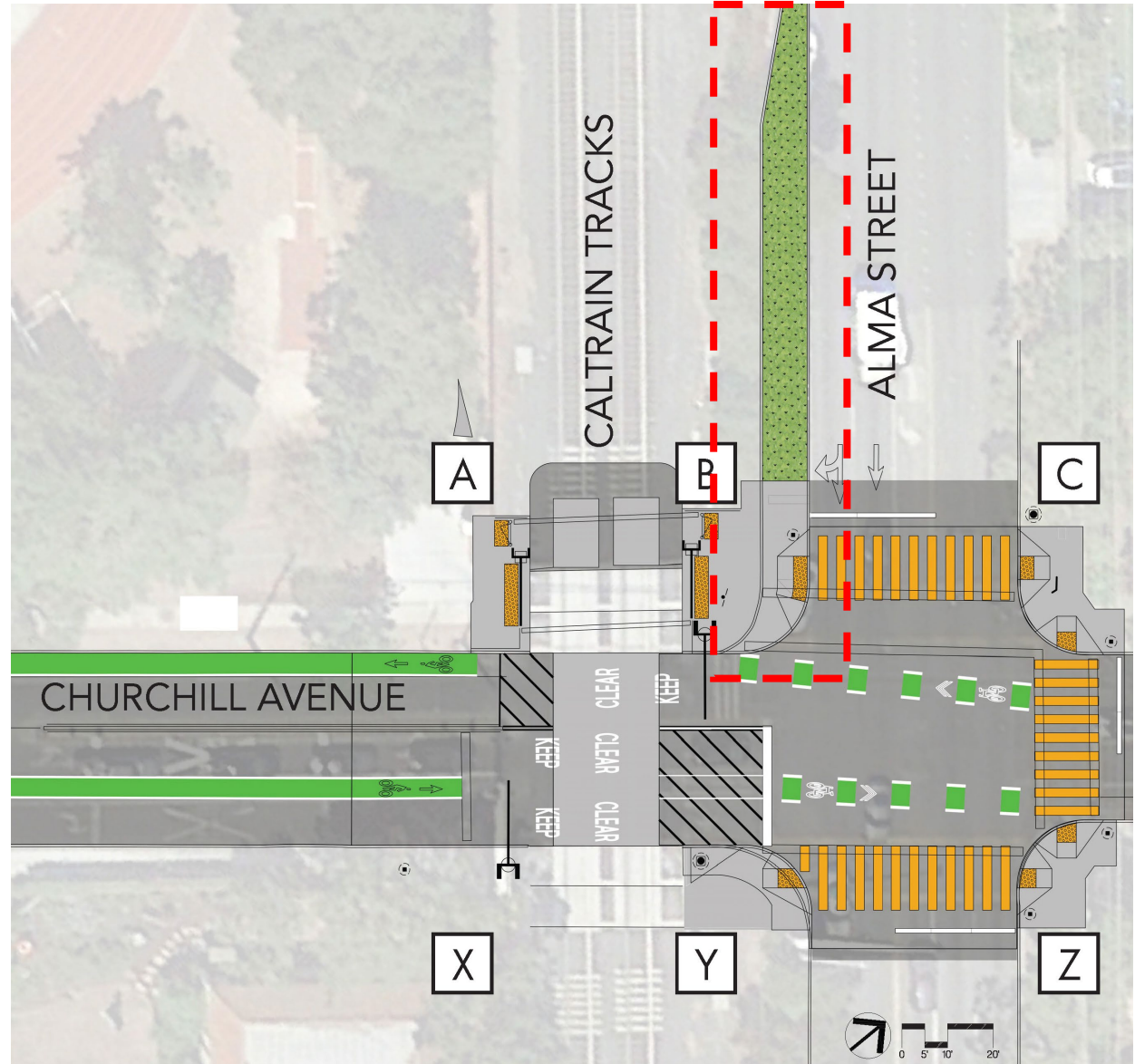
# CONCEPT 2



# CONCEPT 1



# CONCEPT 2





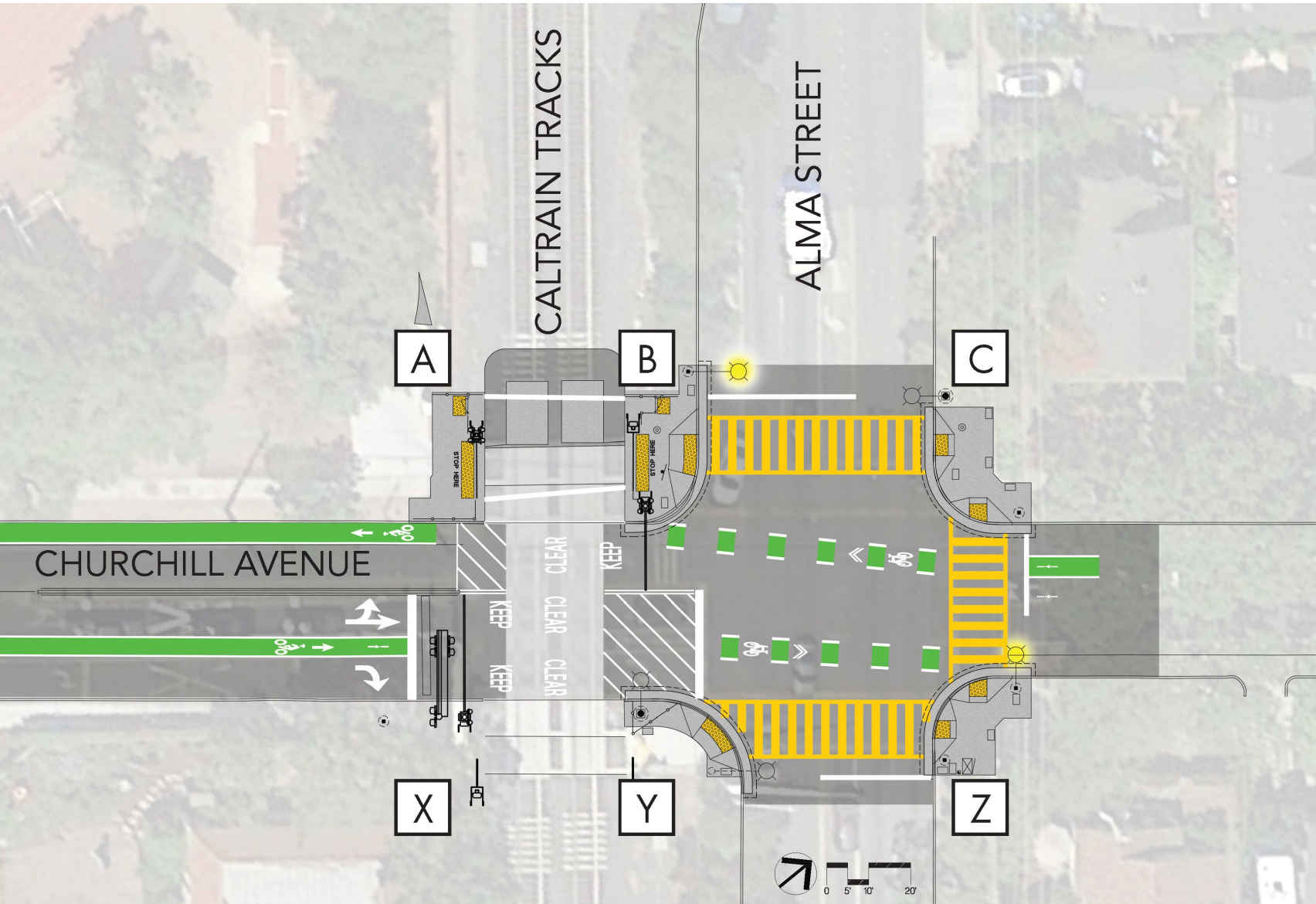
# Final Design Based on Concept 1

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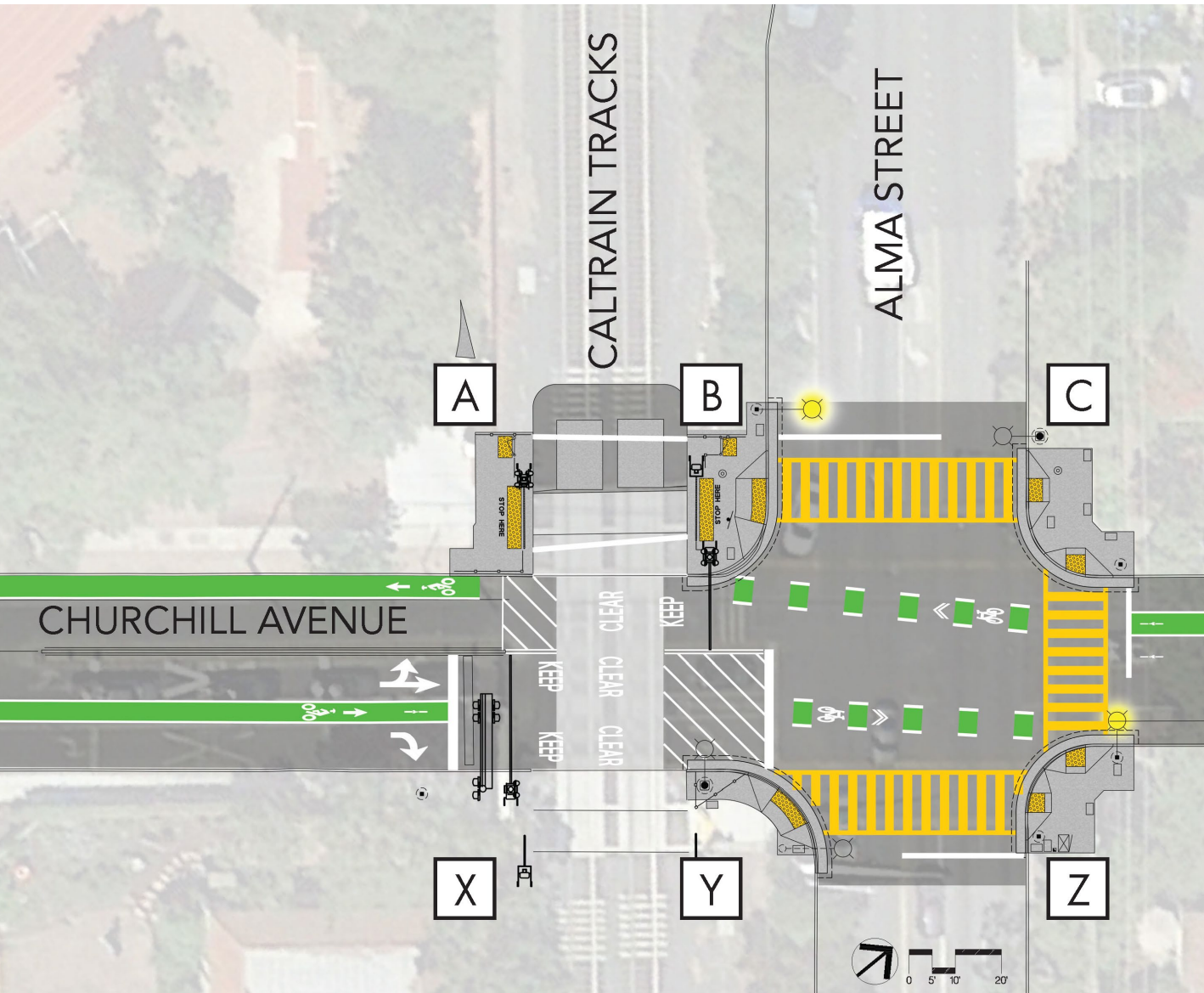
November 16, 2021

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# FINAL DESIGN



# FINAL DESIGN



1. Coordinates location of pre signal in area X with all involved stakeholders
2. Coordinates pedestrian railroad crossing areas at locations A and B with Caltrain crossing improvement project
3. Expands limits of paving improvements on Churchill Avenue
4. Adds safety lighting at locations B and Z to increase visibility of the intersection at night
5. Adds vehicle detection cameras and emergency vehicle preemption
6. Refines intersection phasing
7. Provides wider curb ramps and adds pavement markings
8. Adds bike detection loops on Churchill Avenue

## Next Steps

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**Complete Design**

Winter 2021

**Solicitation of Bids**

Winter 2021 / Spring 2022

**Construction**

2022

**Project Completion**

2023



CITY OF  
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ALTO**

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