



# Tunnel to Ontario International Airport

Industry Outreach  
July 25, 2022

PLAN. BUILD. MOVE.



**cta**

San Bernardino County  
Transportation Authority





# WELCOME AND INTRODUCTION TO THE TEAM



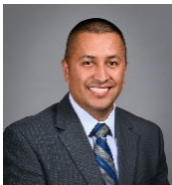
Carrie Schindler, SBCTA  
Deputy Executive Director



Erin Rogers, Omnitrans  
CEO/General Manager



Kevin Keith, OIAA Director of  
Planning



Victor Lopez, SBCTA Director of  
Rail & Transit



Shaneka Morris, SBCTA  
Procurement Manager



Rebekah Soto, SBCTA Multimodal Mobility  
Programs Administrator



Beatriz Valdez, SBCTA Director of Special  
Projects and Strategic Initiatives



Ian Choudri, PCM Project Manager



Brandon Kluzniak, PCM Deputy Project  
Manager



Brent Butzin, Outside Legal Counsel



## AGENDA

- Housekeeping
- About the Project
- Project Background & History
- Project Partners
- Project Key Features
- Program Schedule
- Procurement Approach



## HOUSEKEEPING

- Email [tunneltoontario@gosbcta.com](mailto:tunneltoontario@gosbcta.com) to reserve your spot (limited slots still available)
  - Please note: Lead Contractors, Tunneling Contractors and Technology Providers/Vehicle Suppliers will be given priority
- Sign-in Sheet (<https://sanbag-lfweb.sanbag.ca.gov/Forms/Signin>)
  - RFP No 23-1002870
- Zoom and Meeting Rules
- One-on-One Meetings

Pre-Proposal/Pre-Bid Conference Sign in Sheet	
Please submit this form within 24 hours of the meeting to be included in the addendum	
RFP/IFB Number	<input type="text"/>
Project Title	<input type="text"/>
Firm Name *	<input type="text"/>
1st Attendee *	<input type="text"/>
Firm Type *	<input type="checkbox"/> Prime <input type="checkbox"/> Sub <input type="checkbox"/> DBE Firm
Comments	<input type="text"/>



# REGIONAL TRANSIT MAP





## PROJECT BACKGROUND

- 2014 Rail Access Study
  - Six alternatives were identified.
  - Alternatives resulted in significant environmental impacts and capital costs between \$620M to \$1B (2014 dollars)
  - Less costly alternatives (e.g. bus shuttle) did not provide desired reliability
- Tunneled Option
  - Prior cancelled procurement responded to unsolicited proposal; that effort gave SBCTA opportunity to vet the opportunities the tunnel provides
  - Maximizes use of public ROW; avoids significant acquisitions and residential/business displacements
  - Provides reliability and reduced environmental impacts
- Environmental clearance work is underway
  - Decision expected in September 2023

## PROJECT PARTNERS





## PROJECT FUNDING

- Estimated total program cost: **\$492M**
  - **COMMITTED:** \$202 MILLION
  - **IN PROCESS:** \$290 MILLION



# PROJECT OVERVIEW



- **Alignment Length:** 4.2-mile-long
- **Connecting:** Cucamonga Metrolink Station to Ontario Airport
- **(3) Stations:** Cucamonga Metrolink Station; ONT Terminal 4; and ONT Terminal 2.
- **Vehicles:** Autonomous electric vehicles (fully driverless)
- **Operations:** On-demand
- **Maintenance Facility:** Located at Cucamonga Station
- **Control Center:** Located at Cucamonga Station

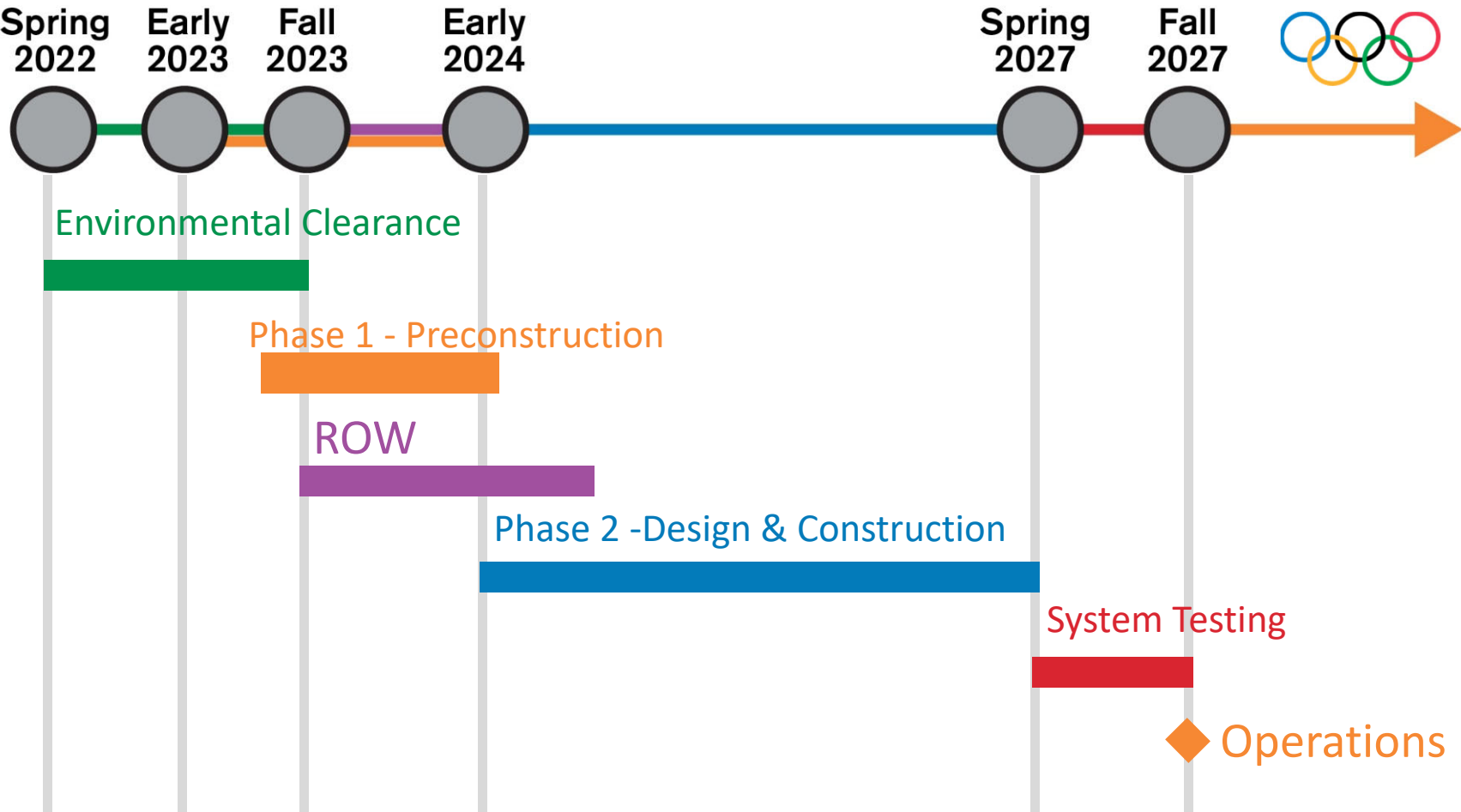


## PROJECT FUNDING

- Preconstruction Period (\$900,000 stipend)
- Construction & Operations
  - Final Design, Construction, System Start-up, Testing, Commissioning
  - Includes one-year (expected, minimum) transitional system operations and maintenance period following system start-up, testing, and commissioning.
  - The design-build team's operations staff will provide training and support to Omnitrans operations staff during this period.
  - Personnel from the design-builder and/or personnel from the autonomous vehicle manufacturer are expected to fulfill this role.
- Omnitrans Involvement:
  - Customer facing staff will be provided by Omnitrans



# PROGRAM SCHEDULE










## WORK PERFORMED TO DATE

Project Element	Status
Existing Conditions	Collected GIS data and as-builts for existing structures and facilities along the alignment.
Tunnel	Performed concept-level studies to inform project footprint, cost and schedule estimates, and technical provisions. Work included conceptual alignment plan/profile, fire and life safety ventilation study, constructability assessment.
Stations	Held design charrettes with OIAA, and Cities of Rancho Cucamonga and Ontario. Identified development footprints for surface stations.
Vehicle Technology, Safety and Operations	Performed conceptual-level studies to inform technical provisions, including operational analysis, safety concept report, and concept of operations.
Stakeholder Coordination	Performed initial outreach and coordination with major project stakeholders, including Metrolink, MWD, Caltrans, and UPRR.
Right-of-Way	Identified project footprint and temporary and permanent easement needs.
Utilities	Performed initial utility evaluation and outreach with owners/operators.
Geotechnical	Performed geotechnical desktop study, tunnel settlement evaluation and five (5) soil borings. Additional twenty (20) geotechnical borings to be performed in Q3/Q4 2022 and ten (10) during pre-construction phase (with input from shortlisted teams)

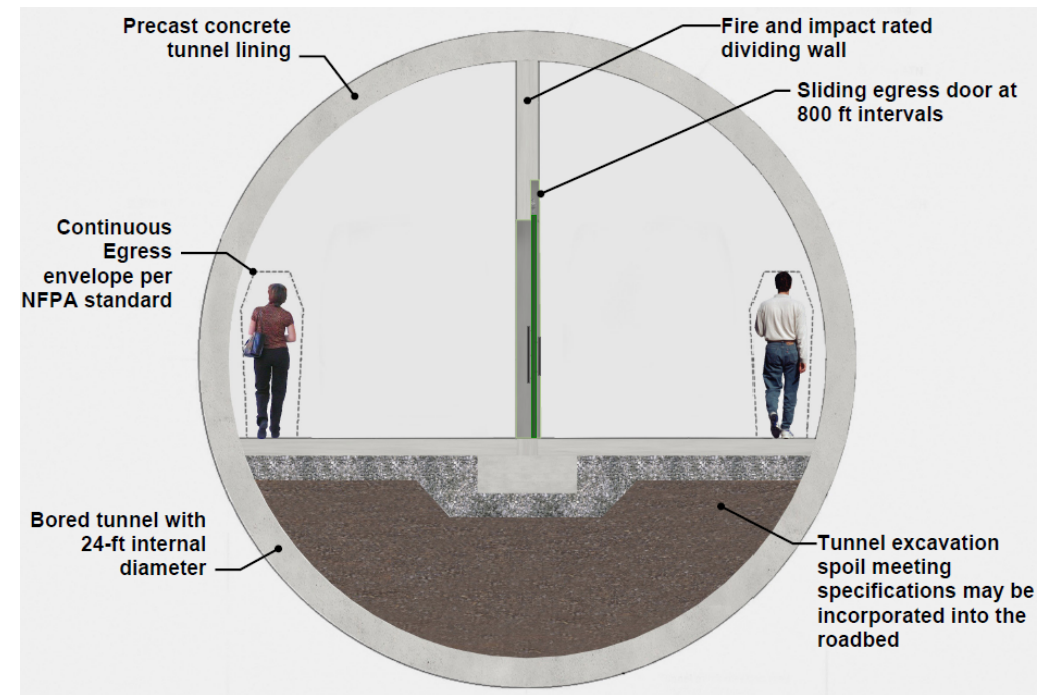
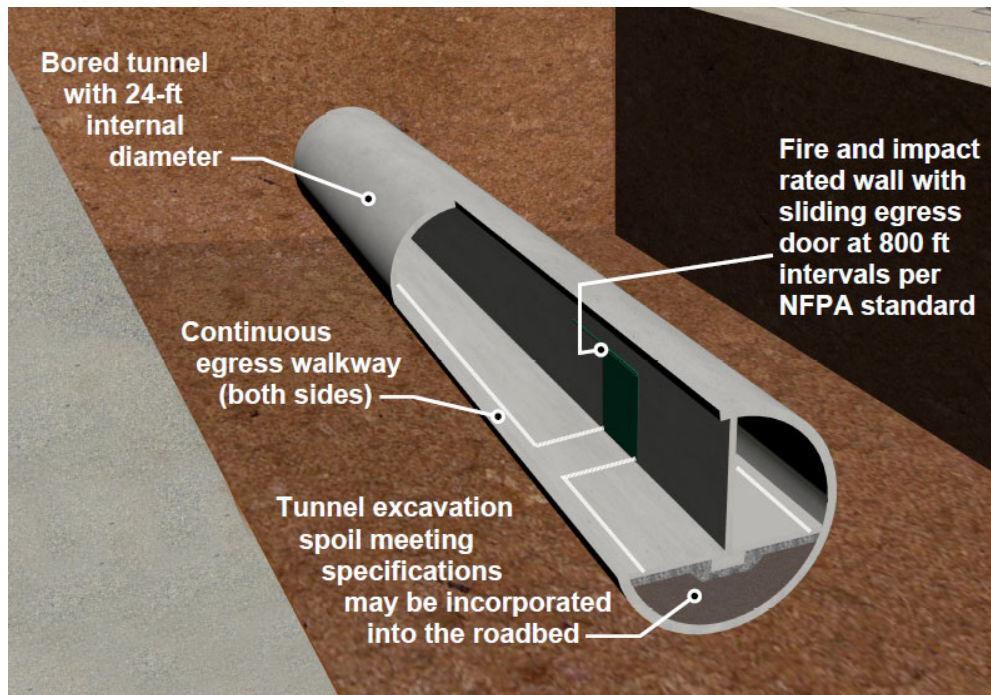
# PROJECT ALIGNMENT & KEY CONSIDERATIONS



- Key engineering constraints
  - MWD pipe u-xing 
  - Caltrans I-10 u-xing 
  - UPRR u-xing 
  - Sweeping curve 
  - 3 design options
- Mid-tunnel vent & egress shaft 



# TUNNEL CONCEPT



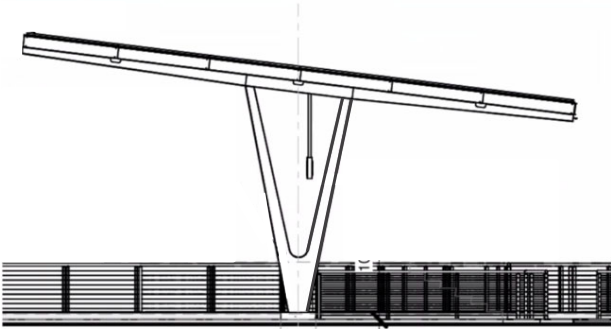


# ONT T2 & T4 STATIONS CONCEPTUAL LOCATIONS

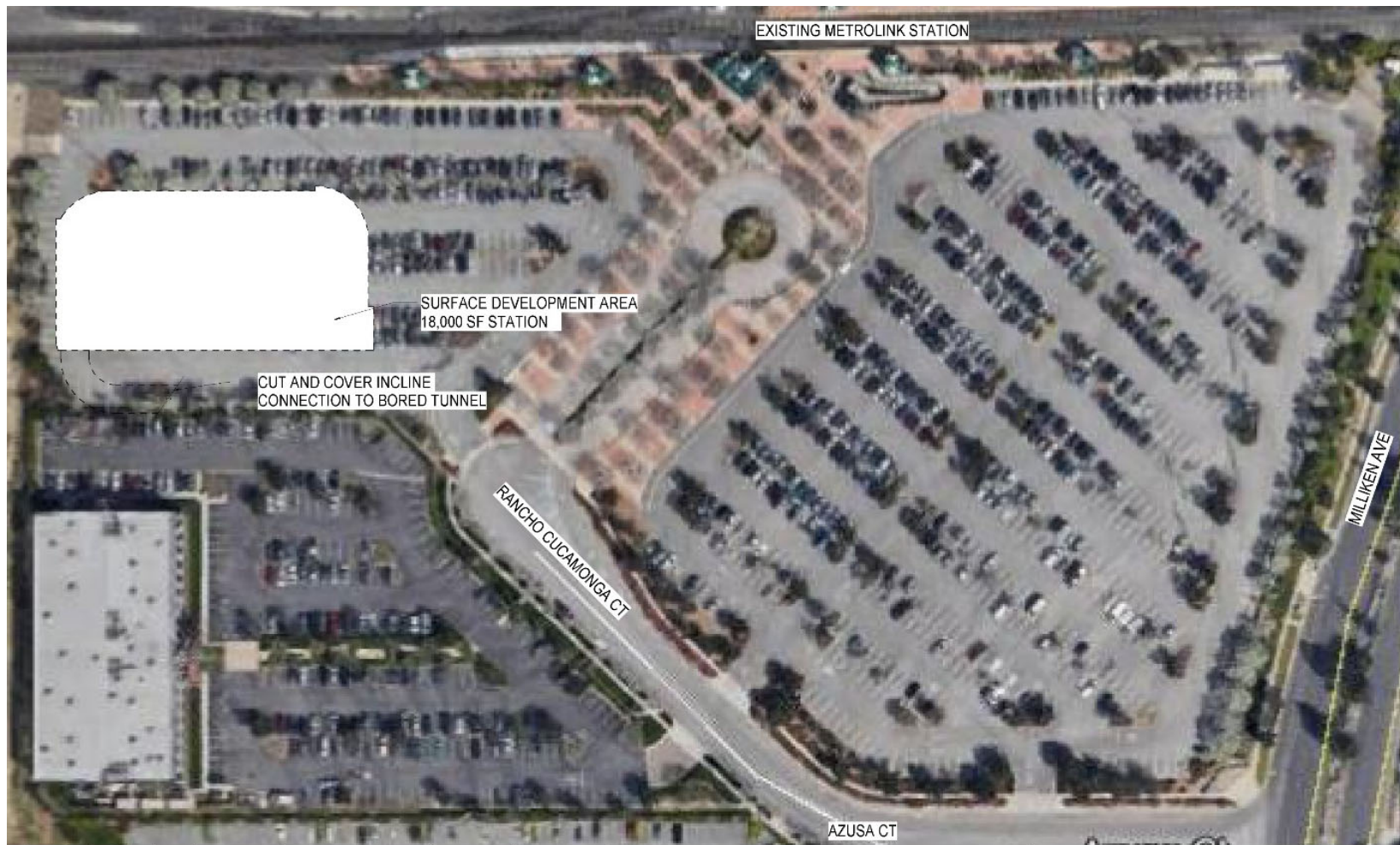




# ONT T2 & T4 CONCEPTUAL STATIONS

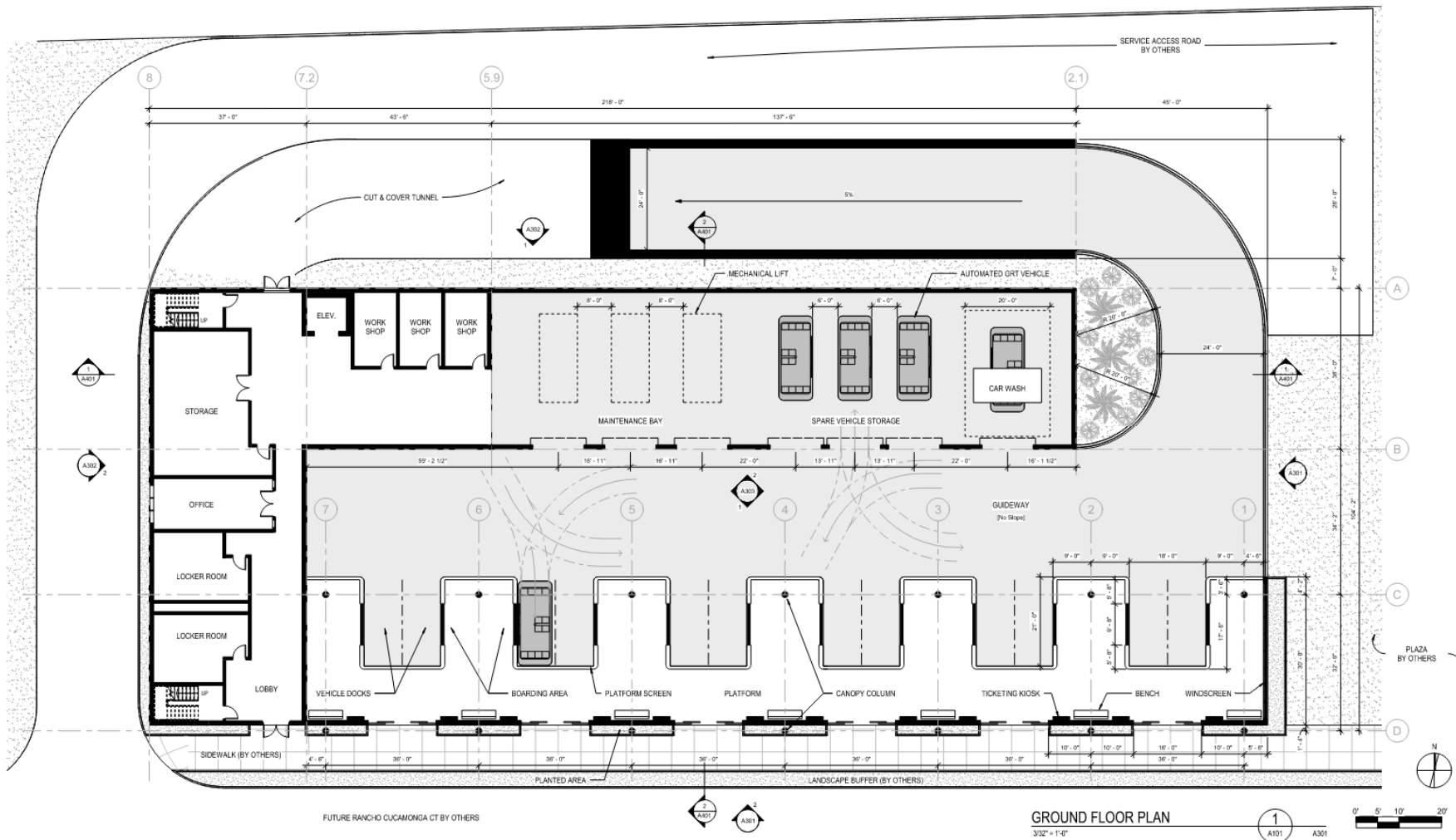


# CUCAMONGA STATION SITE





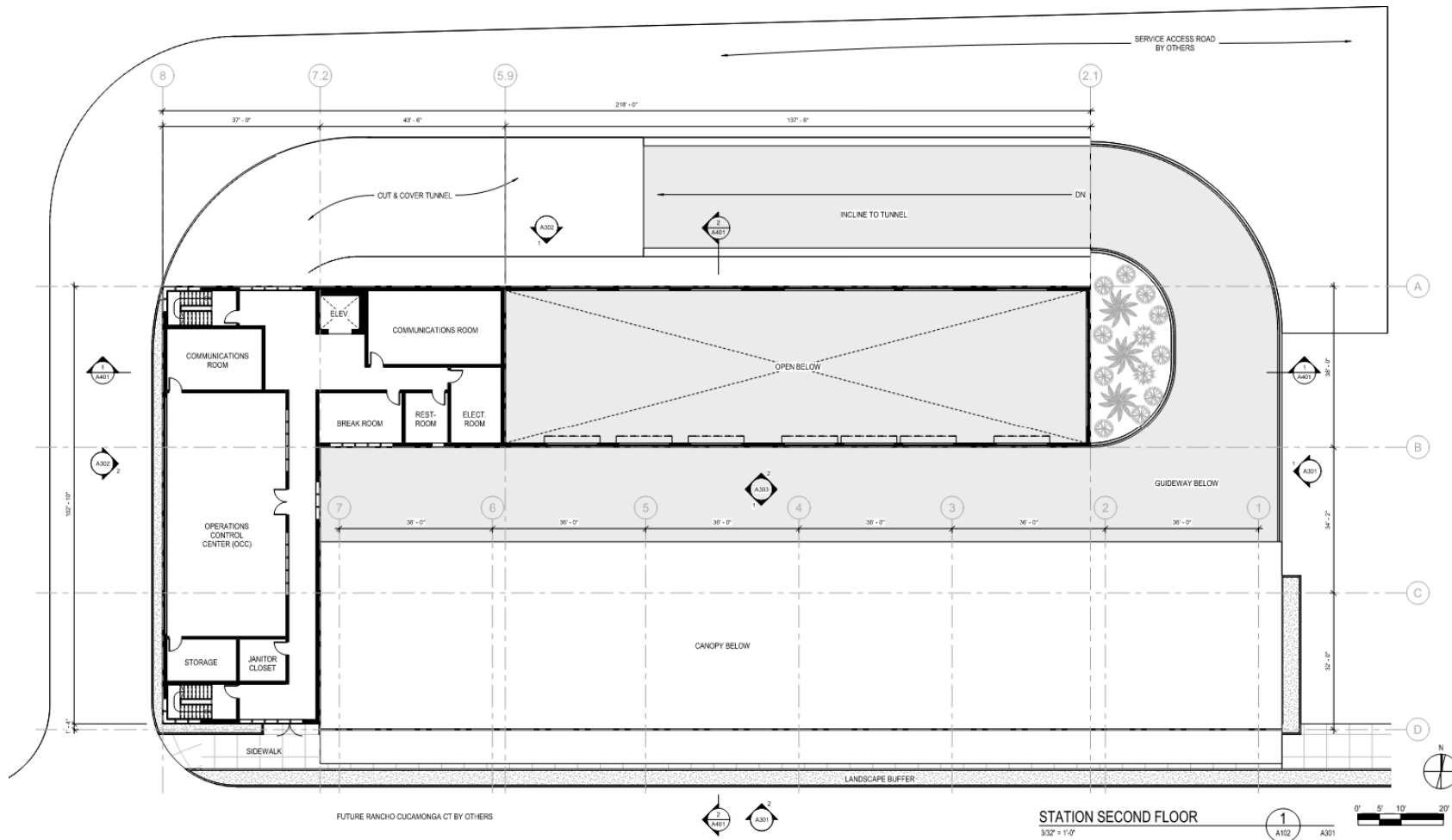
# CUCAMONGA CONCEPTUAL STATION







# CUCAMONGA CONCEPTUAL STATION



- Performance Features:
  - Rubber tired, electric vehicles (zero emission)
  - Autonomous (driverless)
  - ADA compliant (incl. level boarding)
  - On-demand dispatching
  - Able to operate individually and platooned
  - Direct to destination (no intermediate stops at ONT)
  - Compliant with relevant safety standards and regulatory requirements (e.g. ASCE21, CPUC, NFPA, FTA)
  - Compliant with SBCTA/Omnitrans operational requirements (to be furnished at RFP stage)



## PROCUREMENT APPROACH

- Progressive Design-Build (Hybrid)
  - Combines elements of a traditional design-build (DB) contract authorized under the Local Agency Design-Build Law with a ***progressive approach***.
  - SBCTA will retain at least (2) design-build teams through the 10-month ***preconstruction phase***, followed by a proposal and GMP submission.
  - A single design-build team will be selected to proceed to the ***construction phase*** (Phase 2), including final design, construction, and transitional O&M.



## PROCUREMENT APPROACH

- Preconstruction Period
  - Series of confidential meetings between each design-build team and SBCTA (one-on-one meetings), like a traditional design-build process, but with a greater emphasis on design development and project de-risking.
  - Two-step Alternative Technical Concept (ATC) process to allow design-builders to incorporate innovations.
  - Additional supplemental due diligence.
  - Coordination with third-party stakeholders.



## RFQ OVERVIEW

- Request for Qualifications
  - Major Participants
    - Proposer
    - Lead Contractor
    - Lead Tunneling Contractor\* (may be satisfied by Lead Contractor)
    - Lead Designer
    - Lead Technology Provider
    - Lead Operator\* (may be satisfied by another Major Participant)
    - Financially Responsible Parties (if any)
  - Anticipated Key Personnel
    - Project Director, Design Manager, Tunnel Engineering Manager, Construction Manager, Safety Manager, Quality Manager, and Operations Manager





# PROCUREMENT SCHEDULE

Event	Date
RFQ Issuance	September 9, 2022
Statements of Qualifications Due	October 20, 2022
Execute Preconstruction Works (Phase 1) / Stipend Agreements	January 2023
Issue RFP – Including Instructions to Proposers; Draft Design-Build Contract; Technical Provisions; Reference Documents; and Third-Party Agreements	Mid-March 2023
Environmental Decision Anticipated	End September 2023
Proposals (Including Guaranteed Maximum Price) Due	November 2023
Execute Design-Build Agreement	February 2024
Issuance of NTP 1 (Final Design)	March 2024
Target Completion (Commencement of Revenue Service) Date	November 2027

# QUESTIONS



**Plan. Build. Move.**

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**@goSBCTA**



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