



AGENDA

- **Delivery Guide** Update
- **November Workshop** Recap
- **What is the Strategy?**
- **Breakout** Session
- **Next Steps**

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Caltrain | Corridor Crossings STRATEGY

Crossings Delivery Guide

Created out of request from community partners to have a more consistent and transparent process for grade separation or closure projects.

Goals for Delivery Guide:

- ✓ Provide a unified location of applicable design, construction, and operational standards.
- ✓ Clearly define the processes, practices, roles, and responsibilities of Caltrain and Local partners.
- ✓ Publicly accessible on the Caltrain website with the design standards
- ✓ A living document updated when design standards change



Background Information

- Corridor Overview
- Regulatory Environment
- At-Grade Rail Crossings




How to initiate a project

- Planning a Grade Separation
- Grade Crossing
- Implementation Process
- Funding and Grant Programs



What to consider when designing a project

- Key Design Criteria
- Grade Separation Types and Components



How to deliver and implement a project

- Delivery Methods
- Construction Methods

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Crossings Delivery Guide Update

- January 2024:**
Received Comments and Incorporating Revisions
- April 2024:**
Coordinate with Jurisdictions on Comment Responses
- April/May 2024:**
Finalize Guide. Post publicly.
- Summer/Fall 2024:**
Overview presentation(s) of Guide to jurisdictions and industry partners

Jurisdictions Review Period:
12/21/23 - 1/29/24

523
comments

17
jurisdictions

BRIDGE

- Caltrain requires vertical clearance from the top of the Caltrain tracks to the underside of the bridge structure. This required height is determined by the clearance height of the highest vehicle allowed on the bridge. See Chapter 7 for the specific clearance requirements.
- Reviewing with jurisdiction support

OVERLAPPING CLOSURE SYSTEMS (OCS)

- The OCS equipment influences the construction requirements, as well as the vertical clearance requirements for overhead crossings.

CONCRETE

- Protective Barrier:** A solid barrier in place safety due to pedestrian safety.
- Access Control Fencing:** For passenger safety, fencing may need to be installed to separate pedestrians from vehicular traffic and to control the crossing during construction. See Chapter 7 for more information on fencing to separate access from adjacent areas.

PROTECTIVE AND OTHER ACCESS

- Barriers and other access items provide access to the crossing for safety, sign and lighting. Signage should be provided for signage to provide safety and access control to prevent that traffic through the facility.
- Blue houses offer a secure form of bridge storage at crossing.
- Place over-structure crossing elements on outside of site and avoid an existing site for the community. Entry areas to overstructure should be well-lit and maintained.
- Caltrain and OCS services can contribute to safety, and an improved sense of security.

LIGHTING


- Review on-site lighting should be implemented in an uniform and consistent manner and not create glare which impacts safety and the sense of adjacent areas.
- Signage can be used in an uniform to provide consistent lighting in the same, height, for more consistent lighting.



ACCESS

- Wayfinding signs help users orient themselves and provide information on the high speed rail station and the crossing. Signage should be provided on the other side of the tracks.

DRAINAGE

- Imperviousness of permeable facilities and generate excess the drainage system and create the underlying facility more stable.
- Drainage systems are required to manage storm water. In impervious facilities, removing water from the facility typically requires an attached pump station due to the lower elevation.



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Purpose

As an outcome of the **Business Plan**, the Corridor Crossings Strategy is an effort to **define a systematic corridor-wide approach** to crossings.

The strategy aims to **align stakeholder ambitions into balance with an implementable program**, addressing:

- Funding
- Organization
- Program Delivery

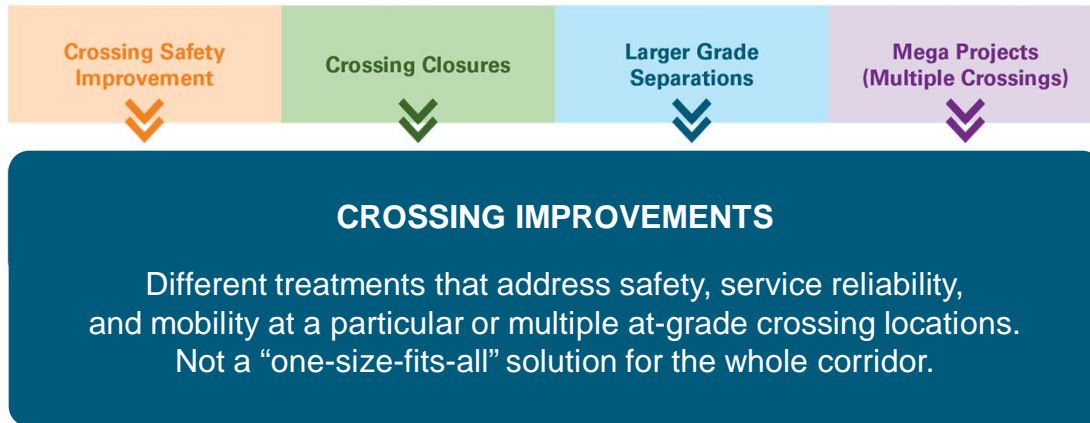
Note: Active grade separation projects will continue in parallel as the program gets developed



November Workshop Recap



Expanded Crossing Improvements



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Described Proposed New Program Approach

Based on technical topics and community partner feedback a **coordinated program approach** brings the following benefits:


- ✓ *Allows for a holistic methodology in implementing corridor crossings improvements*
- ✓ *Considers the unique characteristics along the corridor, and allows for implementation that considers geography, jurisdictions, and service*
- ✓ *Leverages the advantages of integrated planning, design, and delivery of projects within the corridor*

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CSCG Workshop Key Points





Develop a **consistent multi-year plan** to guide corridor crossing work **shared across corridor partners**



Caltrain in position to **lead plan development**; **endorsement and approval roles** for other partners

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LPMG Workshop Key Points



Agreed with the CSCG-defined concept of a **Corridor Crossings Investment Plan**



Emphasized the 'mega' investment and funding need, clear priorities, and a strong structure of **developing, endorsing, and adoption** would be necessary

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DRAFT Program Strategy

What is the purpose of document?

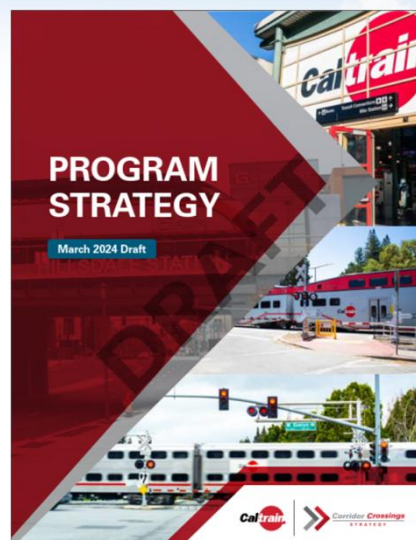
- Obtain an agreement in principle with transportation authorities and corridor partners on the strategy.
- Provide a roadmap for institutional change in delivery approach, program organization, and funding strategy.

What the document is not

- Not a detailed ranking or a prescriptive process for delivering crossing improvements.

What the document communicates

- Outlines Caltrain's proposed approach and components for future delivery of crossing improvements – reflective of corridor discussions over the last 18 months.



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Workshop Goals and Objectives

- ✓ Feedback on Strategy and Investment Program Components
- ✓ Feedback on Investment Program roles and responsibilities
- ✓ Program Strategy Next Steps





What is the Strategy?



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The Investment Program


>> A comprehensive **corridor-wide crossing program** consisting of a coordinated set of activities and actions to strategically fund and deliver small to large *crossing improvements*.


<div style="border: 1px solid #008000; padding: 5px; background-color: #008000; color: white; font-weight: bold; font-size: 0.8em;">Integrated Funding Approach</div>  <div style="margin: 10px 0;">  </div> <div style="background-color: #d9ead3; padding: 5px; font-size: 0.8em;">Unified corridor-wide funding priorities</div>	<div style="border: 1px solid #00a0c0; padding: 5px; background-color: #00a0c0; color: white; font-weight: bold; font-size: 0.8em;">Multi-Year, Tiered Implementation</div>  <div style="margin: 10px 0;">  </div> <div style="background-color: #d9ead3; padding: 5px; font-size: 0.8em;">Strategic development and sequencing of crossing improvements in a tiered manner</div>	<div style="border: 1px solid #6aa84f; padding: 5px; background-color: #6aa84f; color: white; font-weight: bold; font-size: 0.8em;">Integrated Program Delivery Team</div>  <div style="margin: 10px 0;">  </div> <div style="background-color: #d9ead3; padding: 5px; font-size: 0.8em;">Dedicated, integrated team to streamline delivery of crossing improvements</div>	<div style="border: 1px solid #f0ad4e; padding: 5px; background-color: #f0ad4e; color: white; font-weight: bold; font-size: 0.8em;">Risk Management and Change Control</div>  <div style="margin: 10px 0;">  </div> <div style="background-color: #d9ead3; padding: 5px; font-size: 0.8em;">Assess and manage associated risks and establish change control/approval processes</div>
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Integrated Funding Approach

Integrated Funding Approach





Unified corridor-wide funding priorities

Anticipated Outcomes



- Unified corridor-wide funding priorities
- Strategic positioning for future funding opportunities
- Shared responsibility to continuously secure funding
- Ongoing and cyclical adjustments to address changing needs

Initiatives

- Identify applicable funding sources
- Pursue funding sources
- Adapt and update funding plan
- Communicate funding priorities

Legend:

Key Initiative

Multi-Year, Tiered Implementation

Multi-Year, Tiered Implementation



Strategic development and sequencing of crossing improvements in a tiered manner

Will be developed concurrently with active projects and with projects being conceived/planned.

Once the program is adopted by the JPB, active and planned projects will be incorporated into the program based on project phase at that time.

Anticipated Outcomes

- Centralized crossing information for informed decision-making
- Sequenced activities to efficiently and equitably allocate available resources
- Focused funding pursuits leading to reduced competition between corridor jurisdictions
- Continuous and systematic delivery across identified improvements including active projects
- Early action safety measures and improvements

Initiatives

- ☑ Launch a corridor crossing database
- ☑ Conduct a crossing assessment
- ☑ Develop sequencing and bundling
 - ☑ *Active projects included in manageable investment tranches*
- Launch an Investment Program public dashboard
- Establish funding priorities

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Legend:

- ☑ Key Initiative



Integrated Program Delivery Team

Integrated Program Delivery Team



Dedicated, integrated team to streamline delivery of crossing improvements

Anticipated Outcomes

- Dedicated multi-disciplinary staff to leverage expertise and resources
- Integrated staff from Caltrain, TAs, and local jurisdictions to ensure transparency and community perspectives
- Defined roles and responsibilities
- Promote “one corridor, one voice” to funding agencies

Initiatives

- ☑ Identify key personnel
 - *Reassign existing or hire staff with the necessary skills, expertise, and disciplines to provide a multi-disciplinary process.*
- ☑ Establish management framework
- ☑ Assign roles and responsibilities
 - Implement communication and reporting channels
 - Develop new leadership structures (oversight and change control)

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Legend:

- ☑ Key Initiative



Risk Management and Change Control

Risk Management and Change Control

Assess and manage associated risks and establish change control/approval processes

Anticipated Outcomes

- Identified, assessed, and mitigated financial and organizational risks
- Reevaluated multi-year, tiered implementation and adjust funding priorities accordingly
- Updated the roles, responsibilities, and delivery process accordingly to address risks and community partners' concerns
- Shared responsibility of risk management by Caltrain, TAs, and corridor jurisdictions

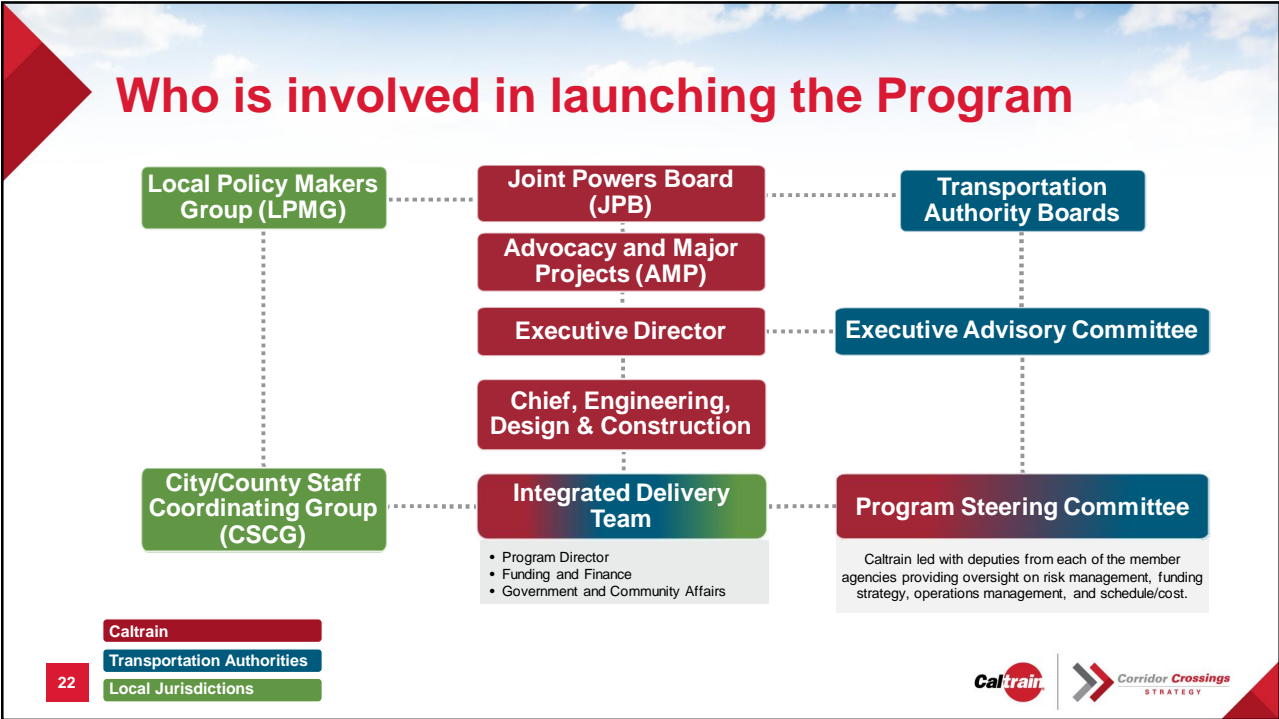
Initiatives

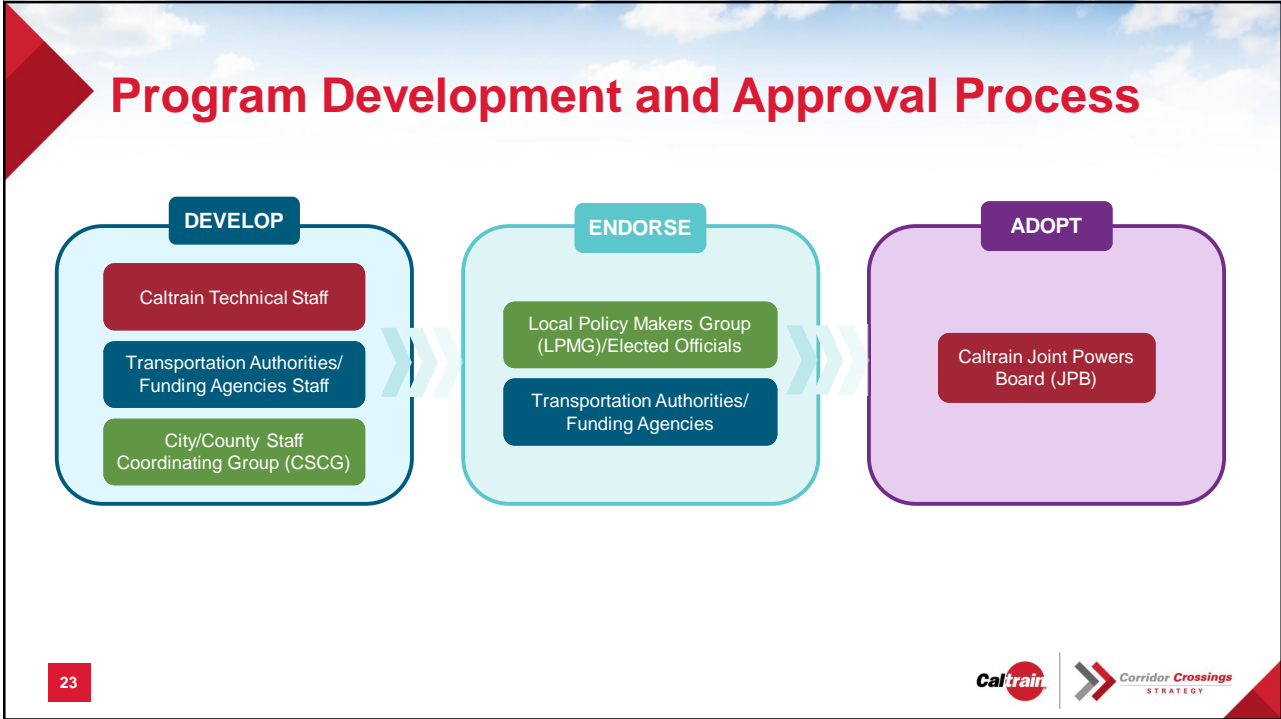
- Establish Investment Program Baseline
- Define accountability and oversight structure
- Develop Investment Program risk register
- Monitor and evaluate progress
- Establish lines of communication and reporting

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Legend:

- Key Initiative





Report Out

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Next Steps

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