

***Receive Update on
Caltrain Safety
Performance and
Trespasser and
Suicide Prevention
Safety Plan***

**JPB TOPS Committee
July 23, 2025**



Overview

- Safety – First and Always is Caltrain's #1 Core Value
- Safety Culture Enhancements
- Caltrain Safety Dashboard
- Grade Crossings
- Partnering/Outreach
- Security Calls for Service

2025 Commuter Rail Safety Gold Award

- Awarded at APTA Rail Conference last month in San Francisco
- Presented to one agency each year that has demonstrated the best overall safety achievement
- Prestigious public recognition of Caltrain's efforts and commitments to safety



Safety Culture

- Created **Safety – First and Always** as our primary core value
- Safety Moments at all Caltrain meetings and briefings
- Safety Leaders recognition
- Safety Survey
- Safety Award
- Safety Roadshow
- Risk Based Decision Making/Assessments



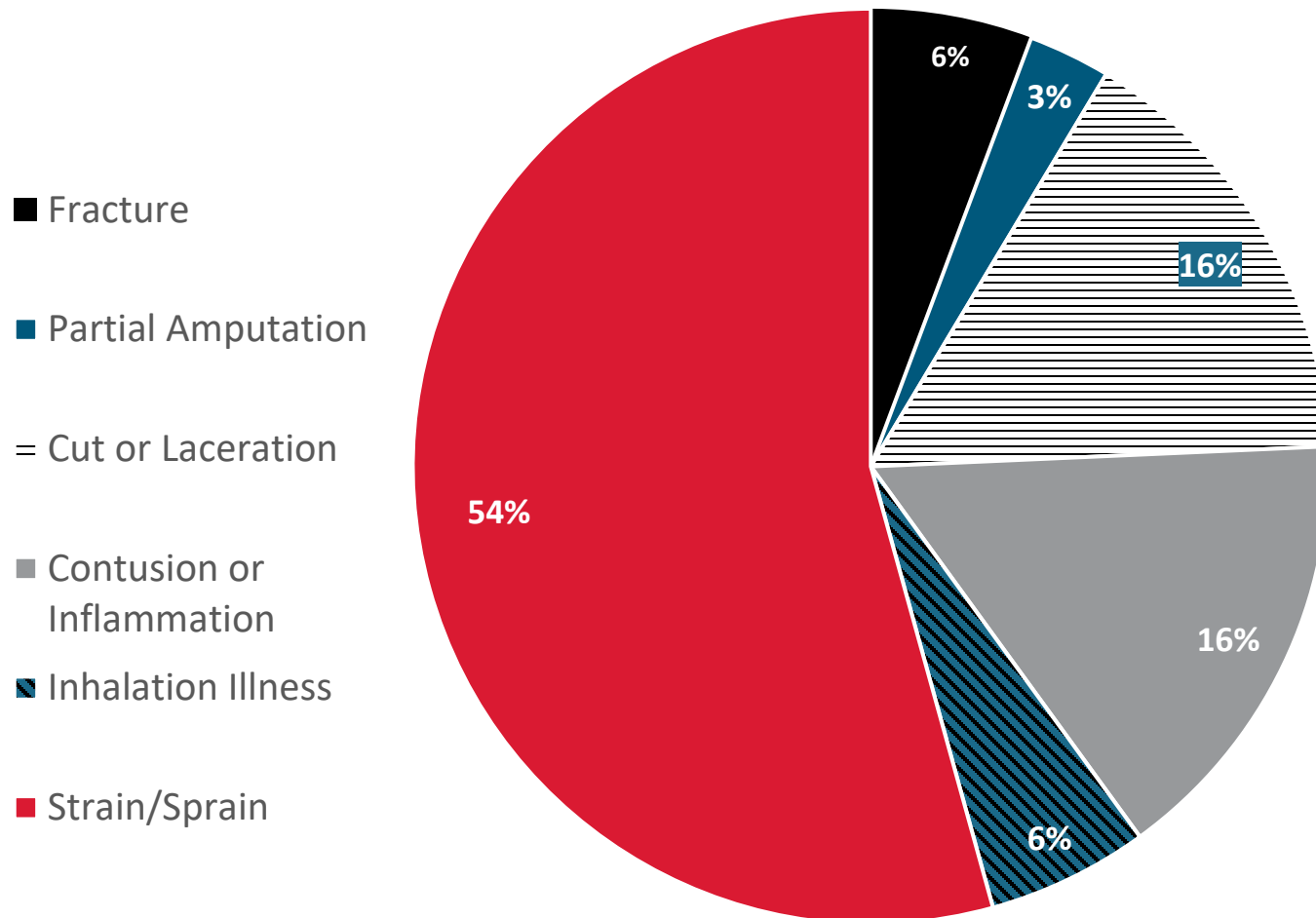
	Severity			
	1 Catastrophic	2 Critical	3 Marginal	4 Negligible
Frequency of Occurrence				
(A) Frequent	1A	2A	3A	4A
(B) Probable	1B	2B	3B	4B
(C) Occasional	1C	2C	3C	4C
(D) Remote	1D	2D	3D	4D
(E) Improbable	1E	2E	3E	4E

Injuries

Days Without a Reportable Injury as of 7/10/2025		
<u>Department</u>	<u>Days Without Injury</u>	<u>Date of Last Injury</u>
OPS	274	10/9/2024
MOE	3	7/7/2025
MOW	20	6/20/2025
OTHER	1,870	5/27/2020

Vehicle Track Incursions

Types of Injuries CY2020 - CY2025



Employee Injuries, Reportable Injury Rate by Year



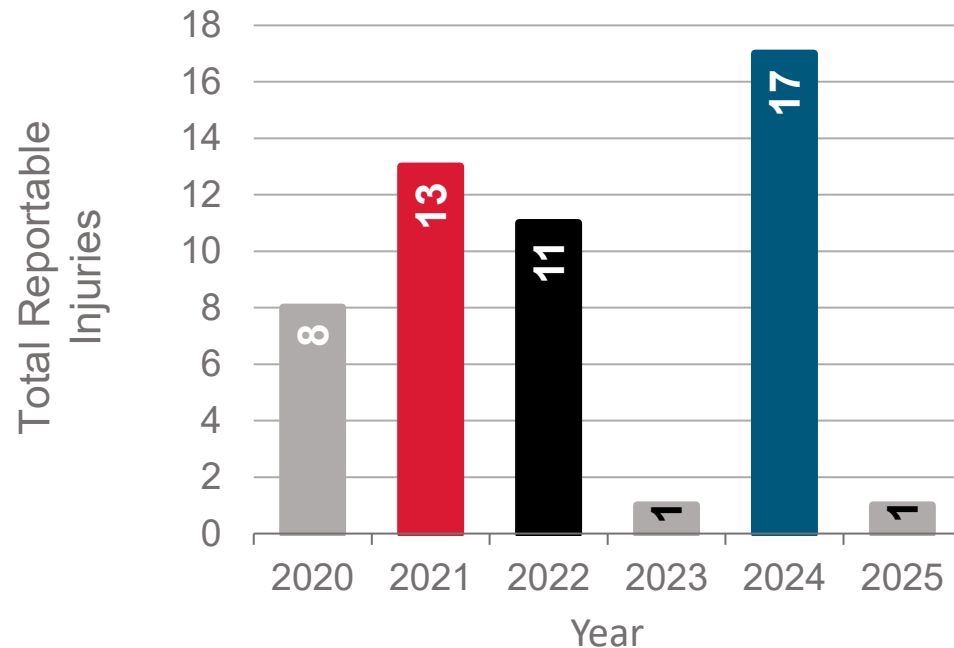
The national average RIR is 3.0 across all industries, per the U.S. Bureau of Labor Statistics.



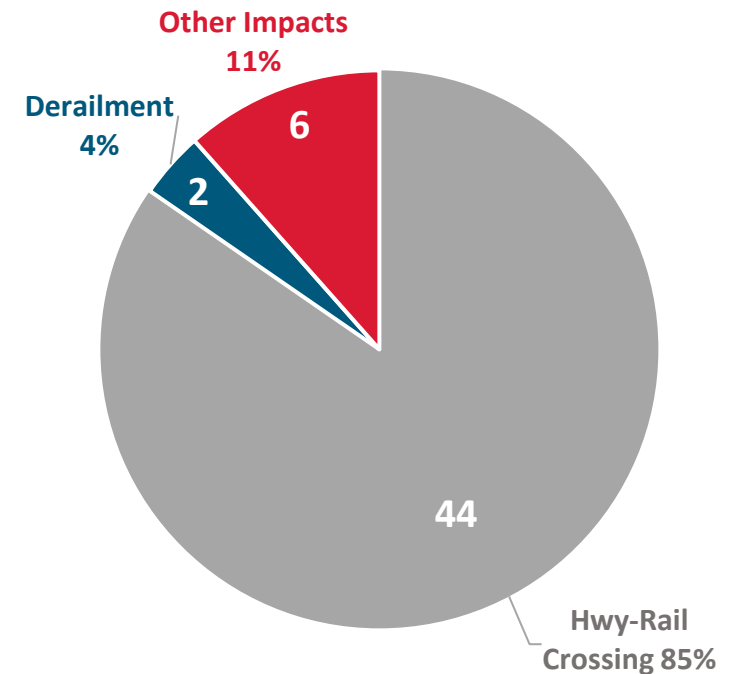
Reportable Accidents/Incidents

All

Reportable Rail Equipment Incidents
YoY CY2020 – CY2025



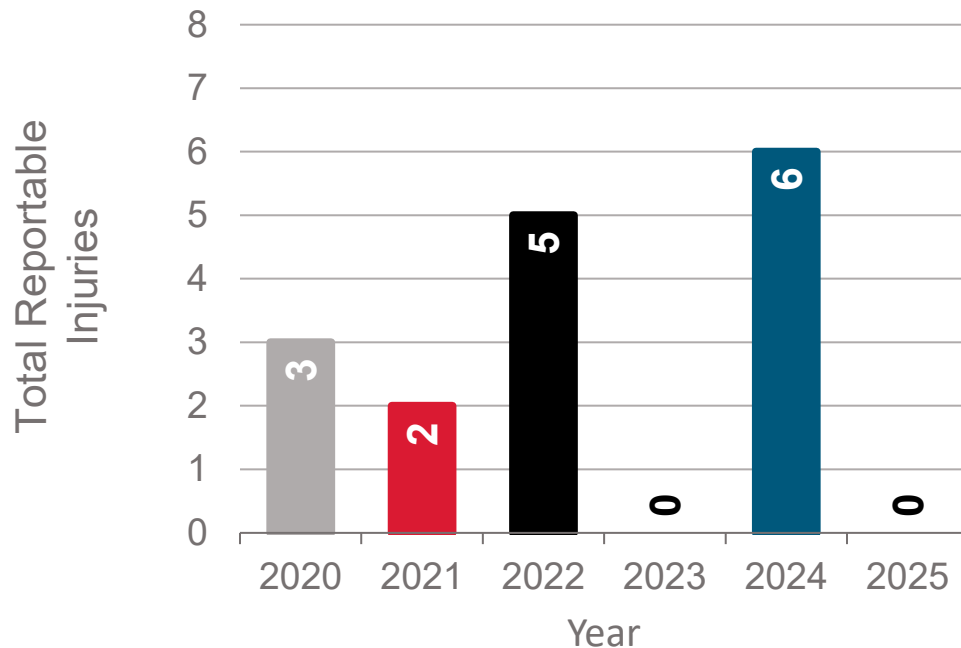
Reportable Rail Equipment Incidents
CY2020 - CY2025



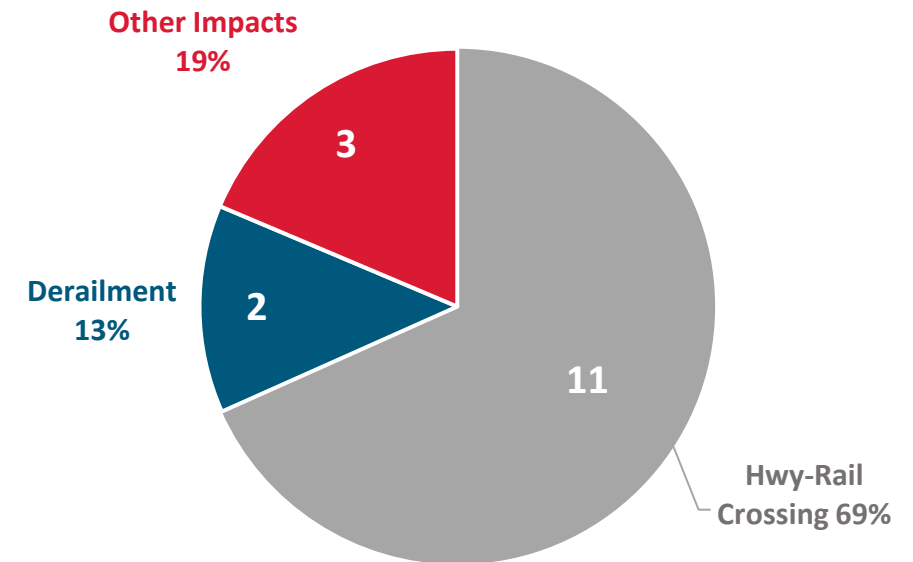
Reportable Accidents/Incidents

Monetary Threshold

Reportable Rail Equipment Incidents
Exceeding Monetary Threshold
YoY CY2020 – CY2025

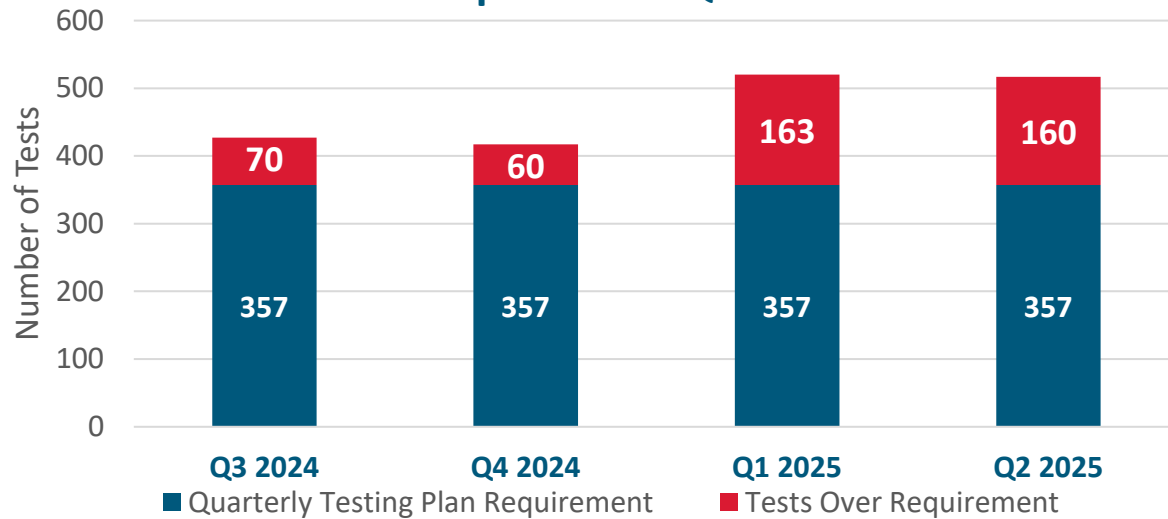


Reportable Rail Equipment Incidents
Exceeding Monetary Threshold
CY2020 - CY2025



Efficiency Testing

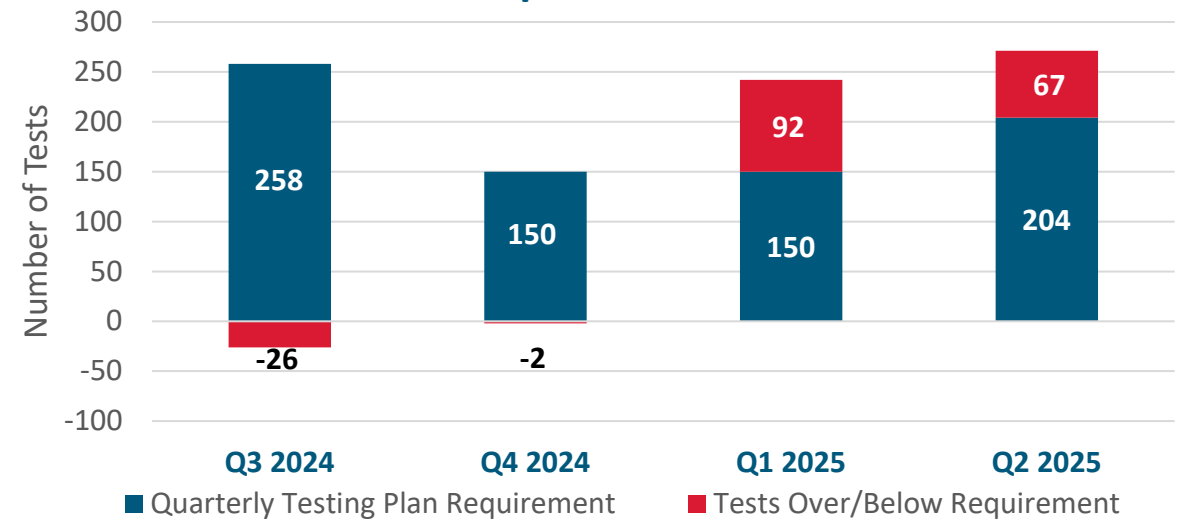
Operations Core Program Tests Completed vs. Quota



Operations Testing Requirements:

- Flags
- Trains/Engines/Cars Left Unattended
- Speed Requirements
- Delayed in the Block
- Communication of Signals
- Block Signal Drop
- Running Brake Test
- Conduct Proper Job Briefing

MOE Core Program Tests Completed vs. Quota

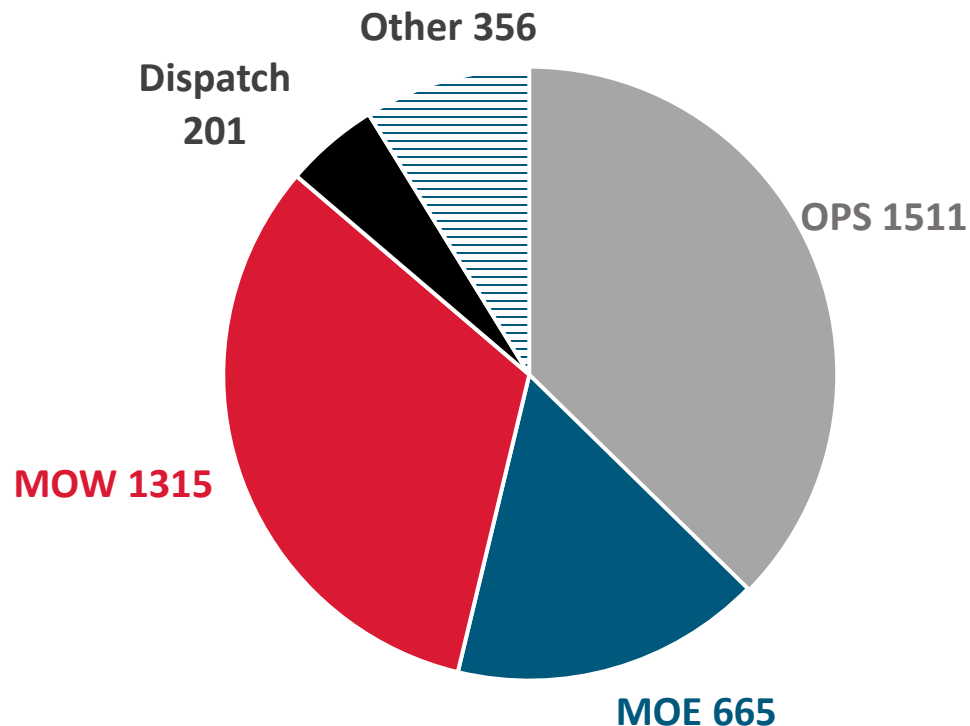


MOE Testing Requirements:

- Separation During Travel and Work
- Multiple Work Groups Using Same Authority
- Protection of Track, Car, Men, or Machines
- Blue Signal MOE
- Crossing Warning Devices

Employee Engagements

Employee Engagement
Across Safety Events
2025



Safety Week, Spring Trends and Summer Spike 2025

The 5-day Safety Week event consisted of one engagement topic each day:

- Planning with Precision
- Identifying High-Energy Hazards
- Own Your Part
- Engage and Empower Team Members
- Commit to Excellence

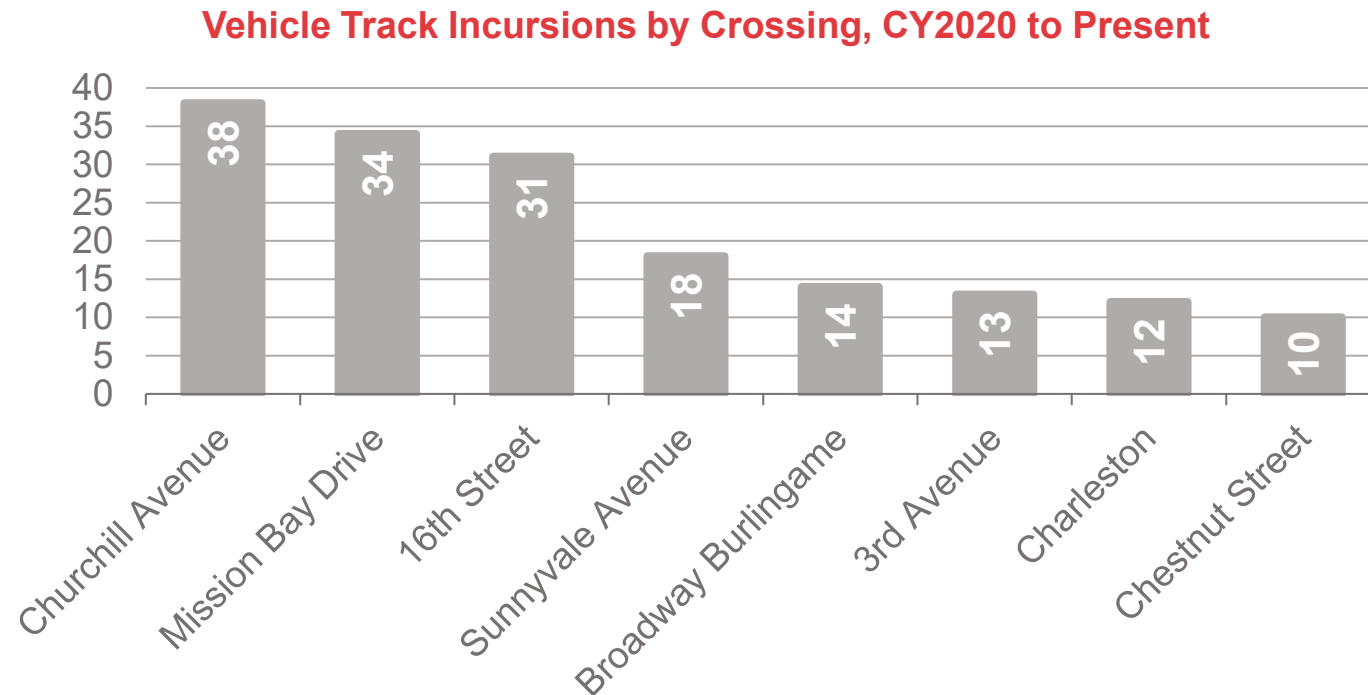
TASI management engaged with **1,395** employees during Safety Week 2025. In 2024, there were a total of 1,434 engagements.

Collectively TASI management has engaged with **1,266** employees after the second week of Summer Spike.

Collectively TASI management has engaged with **1,387** employees during the 3 months of Spring Trends.

Vehicle Track Incursions

- Over 70% of the 230+ vehicle track incursions since 2020 have occurred at 8 grade crossings.
- The decrease in some values vs Q1 2025 is due to a measurement change: Q2 shows confirmed vehicles on the tracks instead of *all* vehicles stalled on the tracks, as measured by RailSentry.
- The following slides highlight Caltrain's efforts to enhance safety at crossings.



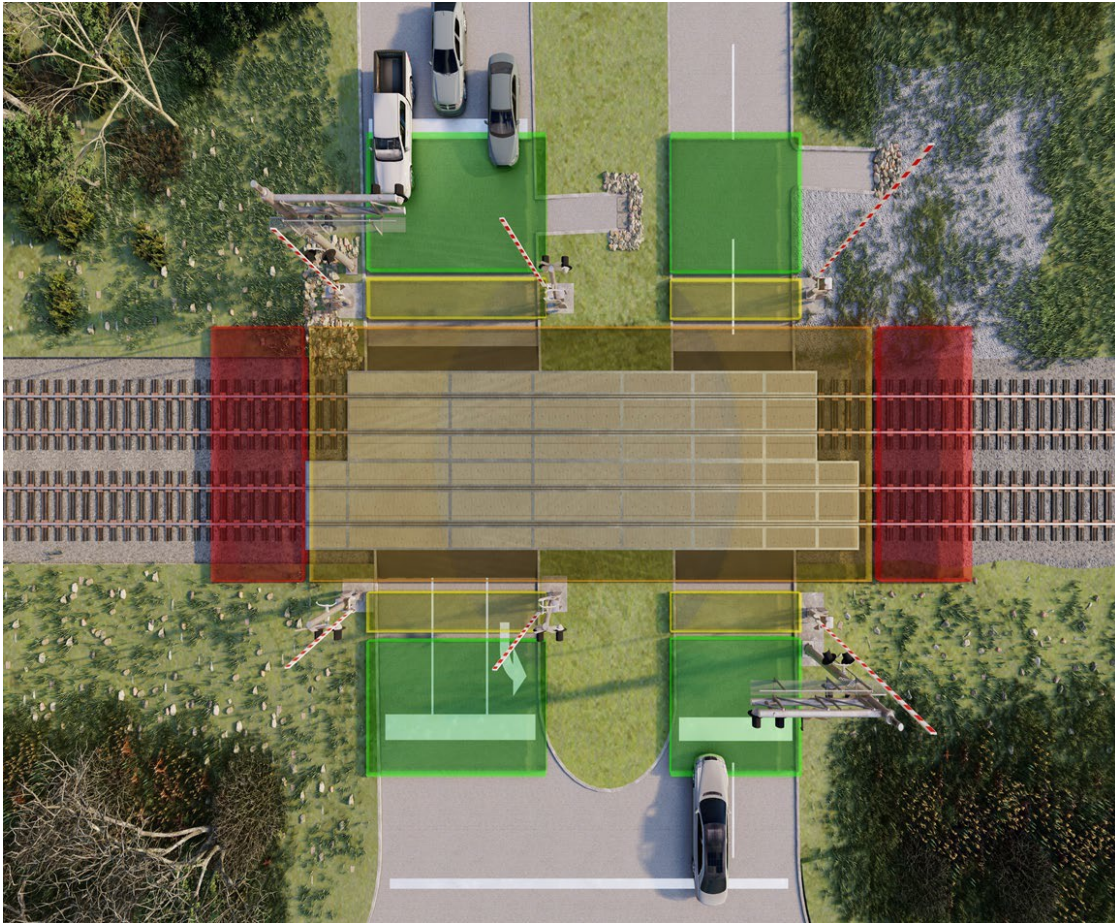
Grade Crossing Enhancements

Corridor Wide Strategy

- Pavement Markings
- Solar Lane Markers
- Delineators
- Signage
- Lighting
- Technology
- Trespasser Panels
- GO-88 Process

Grade Crossing Enhancements

Technology - Intrusion



- Pilot Testing at high-risk crossings
- LIDAR
- CCTV
- Analysis and Alert (AI)
- DATA – behavior, traffic control, etc.
- Broadway / Churchill

Grade Crossing Enhancements

Technology and Enforcement

- CCTV/Video Analytics
- Intrusion/AI
- GPS Application Enhancements
- Detection/Deterrent
- Transit Police Enforcement

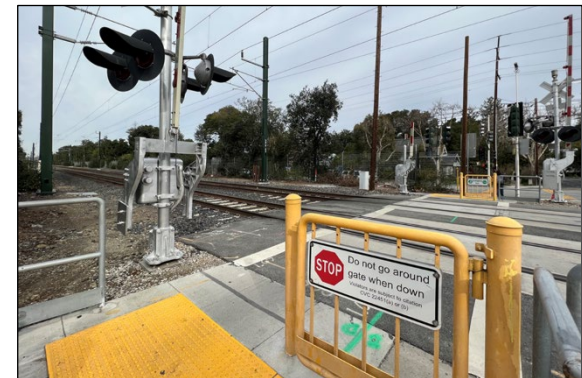
Fencing and Barriers

- Full alignment risk assessment in progress
- PCEP and general fencing repairs continuing (risk-based)
- Multiple fence funding sources/projects
- Fence replacement project – Palo Alto (Completed)

Trespasser/Suicide Prevention Safety Plan

Overview - The Why

- Caltrain is a regional railroad operating in a dense corridor, with 31 stations and 71 at-grade crossings on an unsealed corridor.
- Trespasser and vehicle strikes, including suicides, are a serious issue for Caltrain operations and communities.
- These incidents cause tremendous negative impacts on family members, friends, train crews, passengers, witnesses, emergency responders and rail operations through delays and damage to property and reputation.



Trespasser/Suicide Prevention Safety Plan

Approach

- Evaluate near term and potential long-term programs and rank for consideration according to cost /benefit (risk reduction) analysis.
- Caltrain is committed to developing this plan to reduce trespasser suicide and the broad ranging impacts following the documented best practice of the “Three E’s” of rail safety: **Education, Engineering, and Enforcement.**



Education

Collaboration, Upstream and Crisis Intervention:

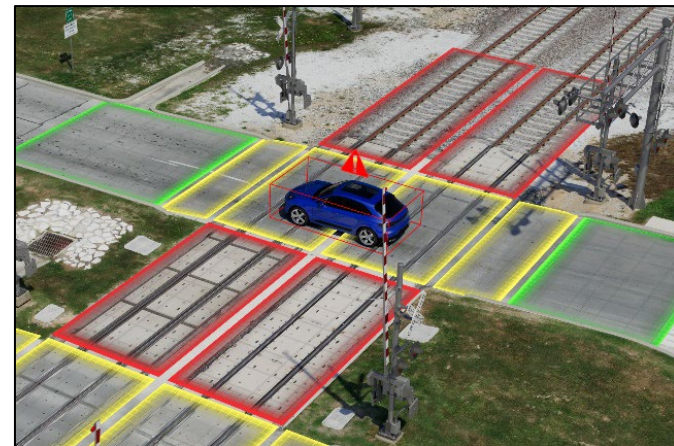
- Regional Mental Health Partnership Events
- Operation Lifesaver
- Peer Transit Agencies and Industry Committees
- MH and Suicide Awareness Training for Employees
- Expand MH messaging on trains, stations, website, social media, etc.
- 988 Suicide and Crisis Lifeline- Signage – Complete
- Provide proactive Trauma Counseling Services for Employees



Engineering

Means Restriction, Detection and Alert Technologies, and Environmental Deterrents:

- Fencing – SOGR, New Fencing Projects in High-Risk Areas
- Pedestrian Channelization/Barriers
- Trespasser panels
- Grade crossings enhancements
- CCTV
- Intrusion detection technologies i.e Rail Sentry, Fiber, etc



Enforcement

Site enforcement, training and outreach. It requires the commitment of safety and security personnel from Caltrain, and municipalities.

- Grade Crossing Enforcement blitzes - ticketing
- Exploring Partnering with Municipal PD for enforcement coverage
- Increasing Transit Police Officers



Evaluation Criteria

Caltrain is committed to a risk-based data-driven approach to Safety and Trespasser suicide prevention.

- Utilize Near Miss, Safety Reporting, Incident, Inspection data
- Prioritize potential trespasser/suicide areas
- Risk Assessments of identified areas (mitigation options)
- Determine most cost-effective solution(s) to reduce risk
- Present recommendations/pilots to committee
- Implement
- Monitor for effectiveness



Preliminary Cost Estimates

- Fencing – 9' wire mesh with winglet top installed
\$410 - \$440 per linear foot
General Repair and Replacement of existing \$1.5M Annually
Replacement of all unfenced Caltrain owned ROW ~ \$40M
- Anti-Trespass Panels ~ \$40K - \$50K per crossing
- Pedestrian Barriers / Channelization Solutions - TBD
- Grade Crossing Enhancements (excluding Lidar technology) - \$100K per GC

Preliminary Cost Estimates

- Lidar Intrusion Technology ~\$200K per location (GC, tunnels, etc.)
Exploring additional technologies
- CCTV – Cameras / Analytics / Installation
GC ~ \$100K
Station ~ \$200K
Yard/Other access areas - TBD
- Additional Transit Police (TP) - Annually
\$390,000 per Deputy + one time \$90K for vehicle
Four additional TP ~ \$2M (first year) and \$1.5M thereafter (shared 78%)
Reduce average response times to 5-7 minutes
Law Enforcement Secondary Employment – option?

Preliminary Cost Estimates

- MH Awareness – on trains, stations, print, social media, GC, etc. - TBD
- Employee MH Training - TBD
- Employee MH Trauma Services - TBD

Churchill Grade Crossing - Example

- Rail Sentry – LIDAR Intrusion technology - \$200K
- Enhancements – markers, delineators, *pavement markings, *signage ~ \$100K
- *Anti-Trespass Panels ~ \$ 40K
- Miscellaneous – \$10K
- Total Cost ~ \$350K

* Not yet completed

Budget Development

- Caltrain will recommend potential safety improvements based upon risk and cost vs expected benefit.
- Risk mitigations may include multiple solutions
- Caltrain is working with TA's on funding for some potential solutions.
- Caltrain is researching Grant funding opportunities

Timeline and Next Steps

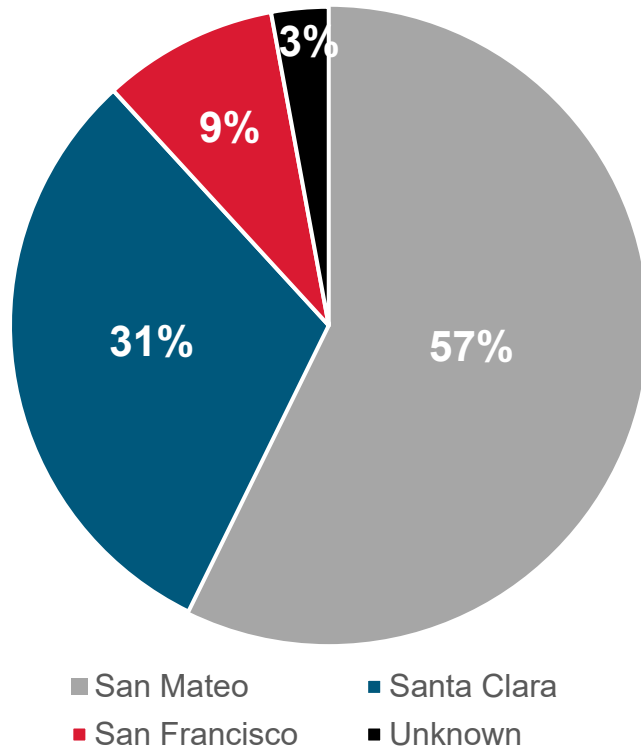
- **July** - Update TOPS on near-term and long-term efforts
- **Oct** - Risk ranking, cost benefit, resource needs, recommendations
- **Nov** - Present Final recommended plan to TOPS for feedback
- **Dec** - Present to Caltrain Board

Community Partnering and Outreach

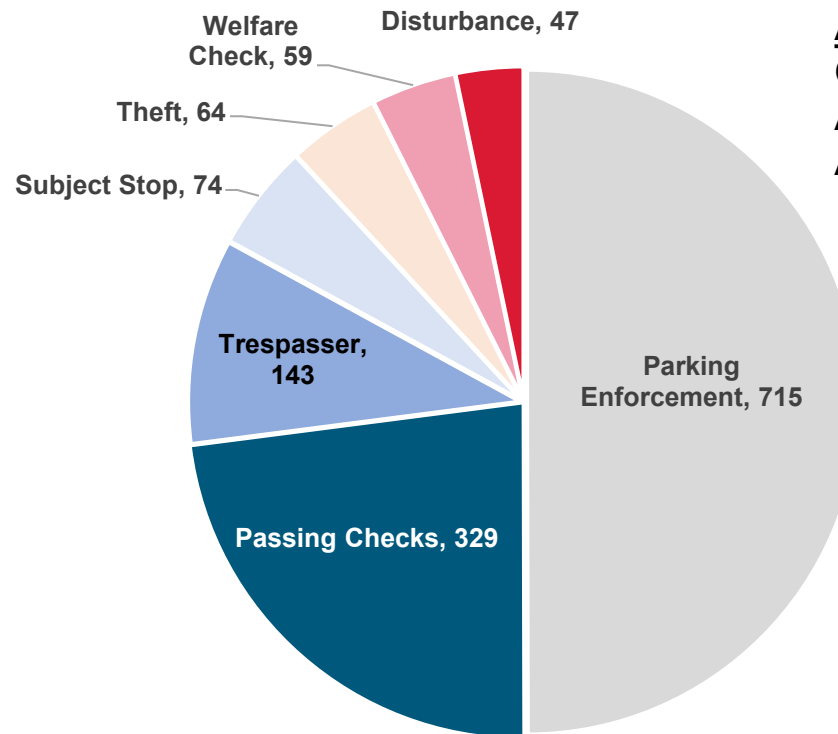
- City of Palo Alto - Churchill Ave GC and Fencing
- City of Burlingame - Broadway GC and Trees
- City of Redwood City - Sequoia Station Fare Zone
- City of Mountain View – GC and technology
- Operation Lifesaver
- GPS App Companies
- Residential/ Grade Crossing/ School Outreach continues
- First Responder Education and Trainings

Transit Police Calls for Safety

Calls for Service by County
April-June 2025



Number of Calls by Category
April-June 2025¹



April-June 2025 Service Call Data

Overall Average Response Time: **21:31**

Average Response Time for **Priority 1***: **11:54**

Average Response Time for **Priority 2****: **21:31**

*Priority 1 Calls: *In Progress* – Crimes Against Persons

**Priority 2 Calls: *Just Occurred* – Crimes Against Persons/ *In Progress* – Property Crimes

Footnote 1: Total calls for service totaled 1,967 in April-June across 21 categories. The pie chart shows the top 7 categories representing 1,431 calls or 73% of the total.

See Something, Say Something

Do your part to keep the rails safe! **Call Transit Police at 1.877.SAF.RAIL (1.877.723.7245) immediately** to report any unsafe situation or suspicious activity, such as children playing near the tracks or people hanging out along the right of way.

Save the number in your cell phone for quick and easy access.



Questions/Comments?

FOR MORE INFORMATION

WWW.CALTRAIN.COM

