

Receive Update on Trespasser Prevention Safety Plan

**JPB Board Meeting
April 3, 2025**



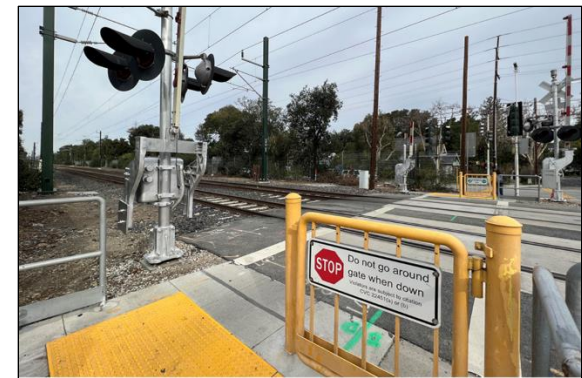
Trespasser Prevention Safety Plan

1. Plan Overview – The Why
2. Plan Approach
3. Historical Data
4. Education Efforts
5. Engineering Efforts
6. Enforcement Efforts
7. Data, KPI and Budget Development
8. Next Steps



Trespasser Prevention Safety Plan Overview

- 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 Prevention Safety Plan Approach

- Trespasser Prevention Safety Plan will be a part of an overarching Caltrain Strategic Safety Plan (December 2025)
- Utilize a Data-Driven approach (incidents, near misses, reporting): Identify the problem, analyze risk, identify resources/stakeholders, develop mitigation strategies, implement plan, monitor effectiveness
- Incorporate documented best practices from American Public Transportation Association (APTA), FRA, Transportation Research Board (TRB), transit peers, national suicide and local universities and mental health organizations.



Trespasser 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.**



Best Practices – Peer Engagement

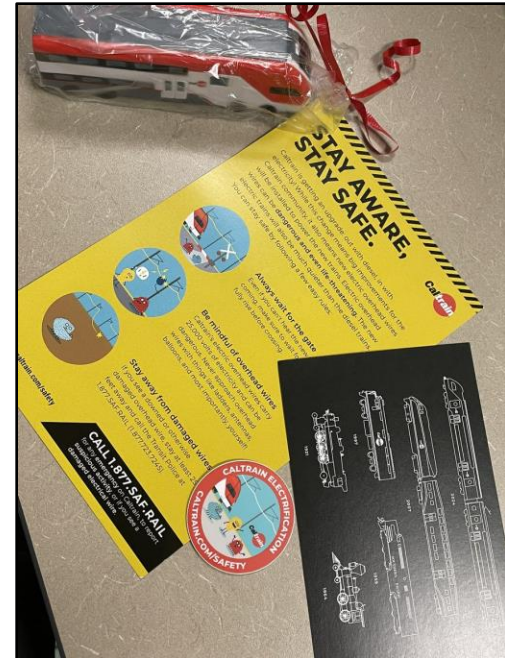
- Caltrain has engaged many industry peers, to understand best practices for suicide prevention, and use of technology and KPIs:
 - All agencies take a “Three E’s” approach.
 - Many have in-house transit police, with larger forces and more technology tools like CCTV.
 - Partnerships including mental health crisis and encampment management.
 - KPIs are harder to come by, heat-mapping is common but often not public-facing.



Education

Education Efforts Focused on Collaboration:

- Industry/Community Collaboration for Best practices
- San Mateo and Santa Clara County Behavioral Health
- Stanford University and Project Safety Net
- Operation Lifesaver Initiative (OLI)
- Peer Transit Agencies and Industry Committees
- Suicide and Crisis Organizations
- **Engage with San Francisco Behavioral Health and Homeless Advocacy**
- **Engage with BART, VTA, ACE, etc. for regional events/promotions**



Education - Continued

Upstream Mental Health and Safety Information

- Signage at Stations and along the ROW
- Operation Lifesaver Presentations - Schools and Community Groups
- Community Events/Partnerships - MH Awareness
- **Expand Mental Health, Suicide Awareness Training for Employees**
- **Expand Mental Health and Resources messaging on trains, stations, website, social media, etc.**
- **Explore adding FT/PT Community/School Outreach Ambassadors**
- **Explore City/Municipality/Special Interest group partnerships**



Education - Continued

Crisis Intervention (CI):

- 988 Suicide and Crisis Lifeline
- Signage at Stations and Ped Crossings along the ROW
- Psychiatric Emergency Response Teams (PERT) – Follow Up
- **Station and Pedestrian Crossing site CI signs, posters, etc.**
- **Provide proactive Trauma Counseling Services for Employees**
- **Explore Adding Counselors/Social Workers to TP Teams**



Engineering

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

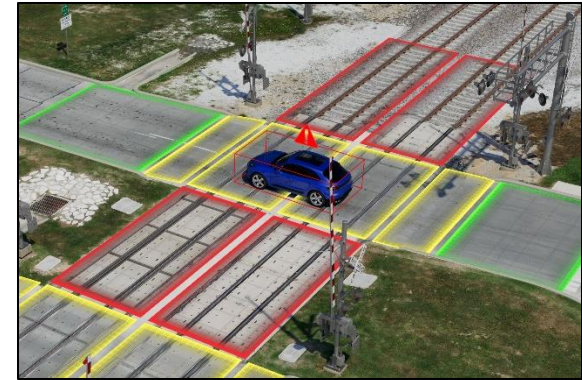
- Fencing – SOGR, New Fencing Projects in High-Risk Areas
- Channelization / Barriers
- Continue to pursue grade separation projects
- **Exploring trespasser panels**
- **Exploring other access barrier technologies for platforms and grade crossings enhancements**



Engineering Continued

Detection and Alert Technologies:

- CCTV - Grade crossings, stations, and high-risk locations
- Intrusion detection analytics at platform ends and tunnels
- Rail Sentry or similar technology at grade crossings
- **Exploring other technologies for ROW detection**
- **Exploring Transit Watch Apps – public crowdsourcing**



Engineering Continued

Environmental Deterrents / Enhancements:

- Solar Markers and Delineators at Grade Crossings
- Improved pavement markings
- Grade crossing signage / blank outs
- GPS Navigation Instructions
- **Enhance Pedestrian Crossing Channelization / CI Signage**
- **Enhance lighting at Grade / Ped crossings**
- **Exploring blue lighting and auditory enhancements at stations**
- **Exploring Transit Watch Apps – public crowdsourcing**



Enforcement

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

- Grade Crossing Enforcement blitzes - ticketing
- Trespasser Report Engagement
- Crisis Intervention Training for Law Enforcement
- **Exploring Partnering with Municipal PD for enforcement coverage**
- **Exploring Increasing Transit Police Officers**



Key Performance Indicators (KPIs)

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

- Trespasser and vehicle incursion data
- Crew reporting/observations
- Contacts/Enforcement made by transit and local police
- Outreach activities including OLI presentation
- Progress on fencing and grade crossing enhancements



Budget Development

- Caltrain is working with TA's on funding for near- and long-term efforts.
- Efforts will be evaluated and costs assigned.
- Caltrain will evaluate all potential safety improvements based upon risk and cost vs benefit.
- Considering the constrained nature of existing budgets and the opportunity costs of implementation.

Timeline and Next Steps

- **March** – Plan overview presentation (today)
- **Jun** – Near-term and long-term efforts
- **Sep** – Longer term plans, cost benefit, resource needs update
- **Nov** – Present Final recommended plan for feedback
- **Dec** – Final plan adopted

Questions and Feedback

