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Engineering Solutions

- Section 130 crossing improvements
- Grade Crossing Closure Program
- Dynamic envelope installation
- Preemption signal inventory
- Higher Speed Grade Crossing Design Manual
- 2021 RAISE Grant with Indian River County and Brightline
- Collaborating SRRT anti-trespassing recommendations









Educational Efforts

- Operation STRIDE
- Operation Lifesaver
- Media campaigns
- CFRC Task Force
- Partnering with mental health experts
- Safety messages on DMS
- Suicide prevention signage
- FLHSMV driver test collaboration













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Enforcement

- Rail Safety Week partnerships with local law enforcement at crossings
- Worked to expand Florida Operation Lifesaver Board of Directors to include law enforcement and Brightline







Way Forward

- Defining roles and responsibilities
- Building a cohesive vision together
- FDOT and partners, building on current efforts, has developed matrix of safety strategies

Safety Strategies



Pedestrian Trespassing



Vehicular Trespassing



Traffic Queuing Over Grade Crossings



Motorist and Pedestrian Behaviors

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Mitigation of Pedestrian Trespassing

	OBJECTIVES	MITIGATION STRATEGIES
0	Improving pedestrian walkability	New pedestrian crossingSidewalk connectionPedestrian gatesBarrier to keep pedestrians on the sidewalk
****	Preventing illicit activities through better boundaries	FDOT Type B fencingHardened fencingVegetative barrier
5	Artificial Intelligence monitoring technologies	CCTV Al for detecting trespassers Speakers and lights Transmission of alerts
「「「「「「」」	Enhancing lighting for pedestrian visibility	LED streetlight in each grade crossing quadrant



Mitigation of Vehicular Trespassing

	OBJECTIVES	MITIGATION STRATEGIES
/i	Implement a passive warning system	Continuous pavement markings across the grade crossing RPMs Delineators
###	Thwart access to the railroad	Guardrail Nine button sign
5	Artificial Intelligence monitoring technologies	CCTV Al for detecting trespassers Speakers and lights Transmission of alerts
*	HSR Grade Crossing Design Standards	•FDOT At-Grade Railroad Crossings and Corridors for (80-110 mph) Design Criteria and Standards Manual addressing the planning, design, construction, maintenance and operational characteristics associated with highway–rail grade crossings located in Florida







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Traffic Queued Over Grade Crossings OBJECTIVES MITIGATION STRATEGIES Move queued vehicles •Continue to conduct preemption studies, install through downstream preemption per Florida Administrative Code 14traffic signals 57.013(5) Hold traffic upstream Pre-signals of a grade crossing · Queue cutter signals • Sensor-activated LED R8-08 "Do Not Stop On Warn motorists to not Tracks" signage block grade crossings Allow motorists to Escape lanes escape if stopped by queuing Restrict downstream No trucks designation vehicle movements on •Permit only right turns at downstream minor roadways with intersection short clear storage Merge/acceleration lane

• Provide stop signs for all intersection approaches except from the grade crossing

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distance



Motorist and Pedestrian Behavior

OBJECTIVES

MITIGATION STRATEGIES



Bolster public outreach and education programs

- · Grade crossing safety outreach
- Trespass prevention outreach
- Suicide prevention training









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Closing

- What are the next steps?
- How do we effectively implement with a diverse group?
- Any other challenges?
- Who else should be included in the effort?

