



# Rail Safety and Trespassing Initiatives

## Office of Modal Development FDOT District 4

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# Existing Safety Measures



- **Crossing Exit Gates**
  - All State Road Crossings Except SR 704 and SR 804
- **Pedestrian Gates**
  - All State Road Crossings
- **Rail Dynamic Envelopes Medians**
  - All State Road Crossings
- **Delineators, Raised Pavement Markers, and Edge Striping**
  - Multiple Locations
- **Fencing and/or Landscaping**
  - Multiple Locations
- **"Do Not Stop on Tracks" and Crisis Support Signage**
  - Multiple Locations



# East Coast Corridor Trespassing and Intrusion Mitigation Project



**FDOT was awarded a \$25 million federal RAISE Grant to enhance safety between Miami-Dade and Brevard counties**

- Federal Grant Funding: \$25 million
- Brightline & FDOT match: \$10 million each
- Estimated Total Project Costs: \$45 million

**The project mitigations aim to reduce the two primary types of crashes**

- Vehicle collisions
- Trespasser strikes

**The supplemental safety measures to be installed include are:**

- Rail Dynamic Envelopes
- Delineators, Raised Pavement Markers, and Edge Striping
- Fencing and/or Landscaping
- "Do Not Stop on Tracks" and Crisis Support Signage

**AGREEMENT IS CURRENTLY UNDER REVIEW BY THE FEDERAL RAILROAD ADMINISTRATION**



# Onsite Signal Safety Improvements (OSSSI)



**Grant Funding: \$12.9 million**

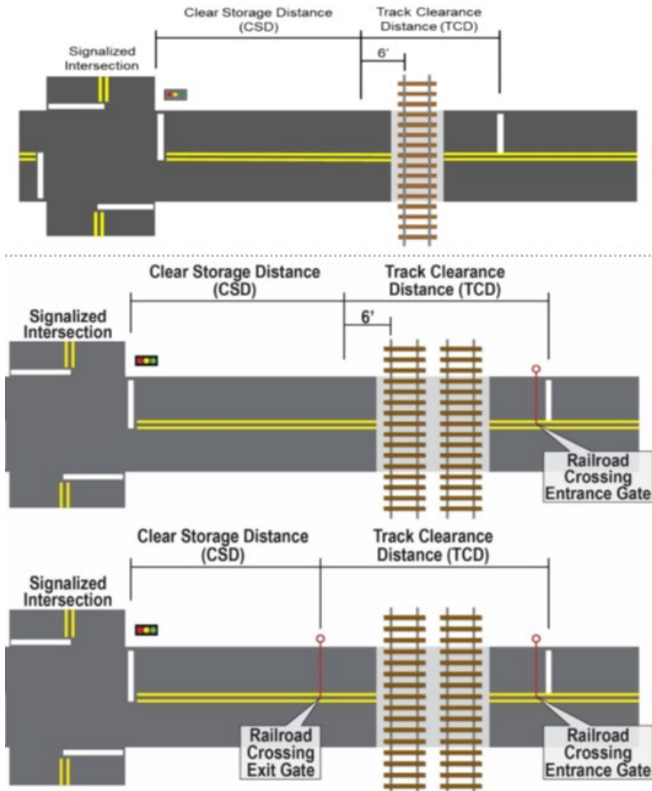
**FDOT match: \$9.8 million**

**Estimated Total Project Costs: \$22.75 million**

- The project is located on the South Florida Rail Corridor (SFRC) spanning from Miami-Dade to Broward
- The project will modernize 25 critical, dated, at-grade railroad crossings by replacing 35 signal houses, 34 gate mechanisms, 7 cantilevers, and more than 70 light assemblies at the most traveled crossings along the SFRC.
- **Palm Beach County Crossings included in this grant:**
  - 45th Street
  - Palm Beach Lakes Blvd.
  - Belvedere Road
  - Forest Hill Blvd.
  - South 6th Ave.
  - Atlantic Ave.
  - Linton Blvd.
  - Palmetto Park Rd.



# Traffic Signal Preemption



## Preemption required if any of the following:

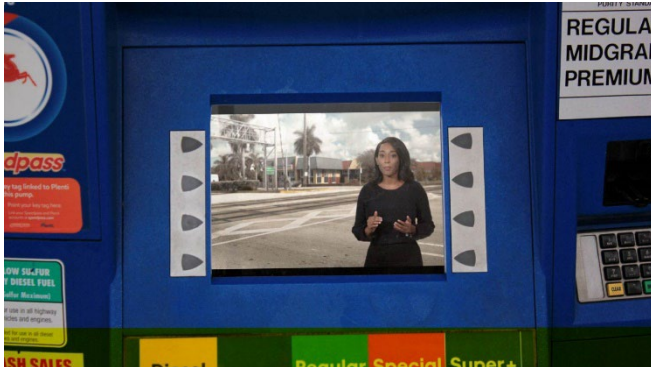
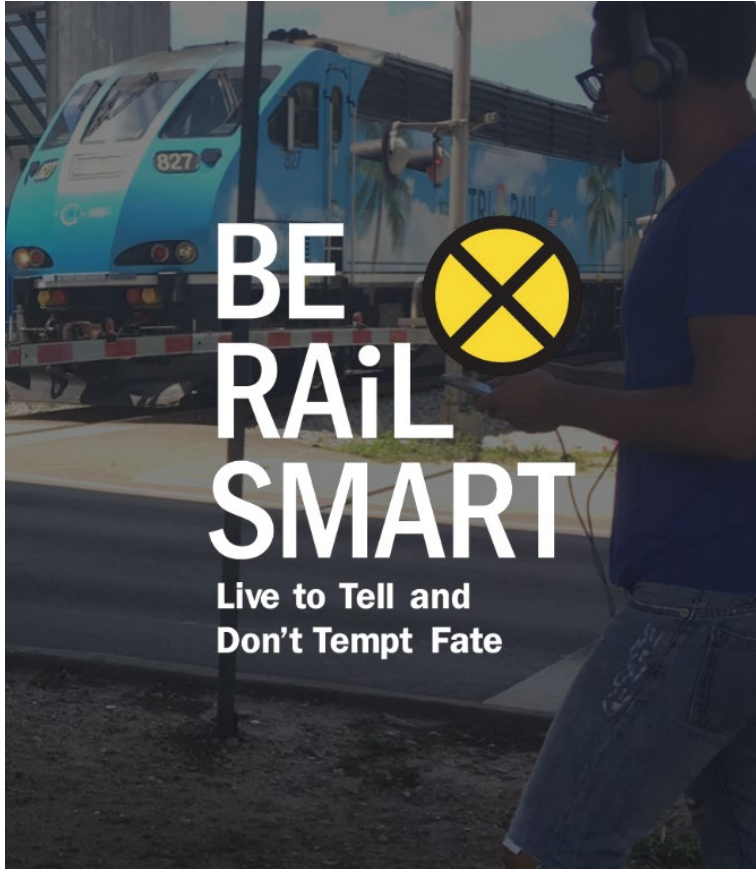
- Traffic Signal within 200 ft. of railroad crossing
- Highway traffic queues have potential to extend across railroad crossing
- Traffic backed up from nearby downstream RR crossing could interfere with a signalized intersection

## A study to determine the need for preemption is required for a signal within 500 ft of a railroad crossing

- Three proposed locations in FEC/Brightline corridor
  - Indiantown Road (SR 706)
  - Blue Heron Blvd. (SR 708)
  - Dr. MLK Jr. Blvd. (SR 710)



# Safety Education



# Be Rail Smart Campaign 2023

## Campaign Metrics / Impact



Successful Media Buy Campaign with an estimated **19M+ impressions**



**Tens of thousands** of printed educational/materials were distributed throughout the District



**51 events**



Compared to year 2022 & 2023 it was about **2X the number of events and 4X the amount of impressions**



# BE RAIL SMART

## Safety Message

Any time is train time!

Many drivers pay little or no attention at highway-rail crossings they drive across day after day because they never see a train there.

Drivers don't realize that freight trains do not run on set schedules and can be anywhere at any time going in any direction at all crossings, and especially those you are most familiar with.

**ALWAYS EXPECT A TRAIN!**

