



City of Albuquerque PAWS

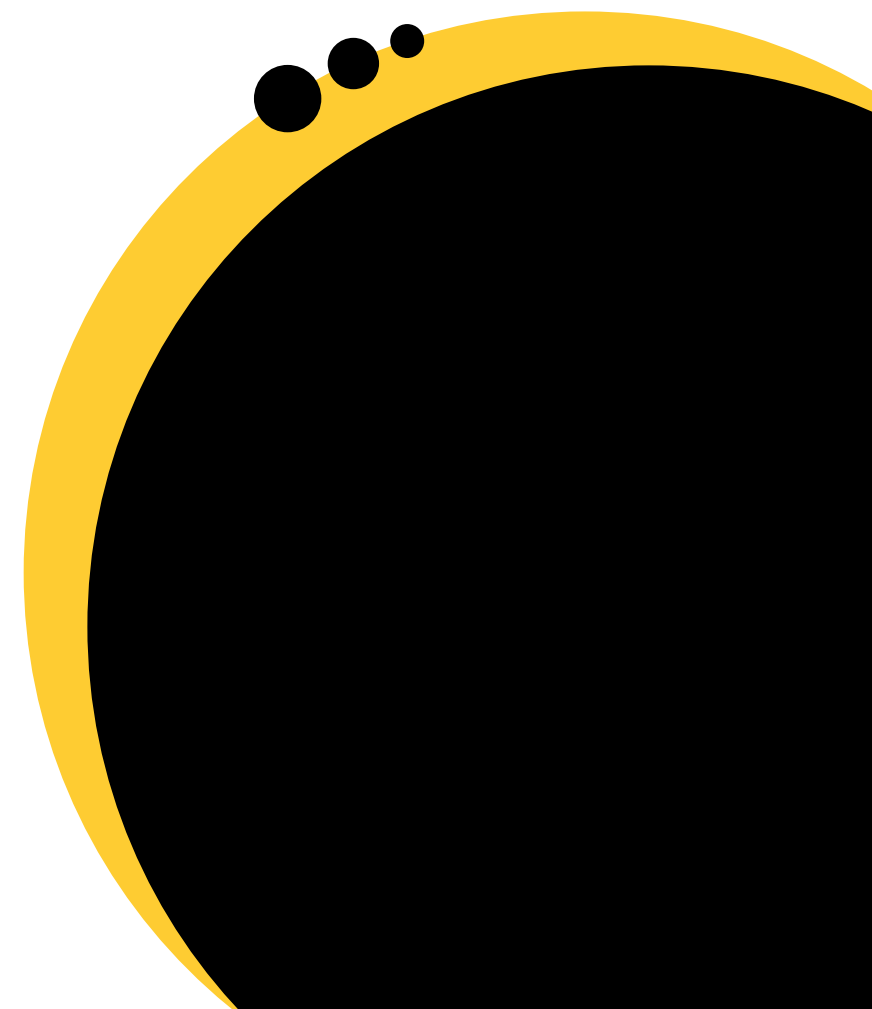
**Leveraging Existing Infrastructure
to Enhance Pedestrian Safety in
High-Risk Transit Corridors**

November
2025



Contents

- 1 Project Origin
- 2 Albuquerque Rapid Transit (ART)
- 3 Crash Data Review
- 4 System Concept
- 5 Trial System: Louisiana & Central
- 6 System Operation
- 7 Known Issues
- 8 Modified Trial System

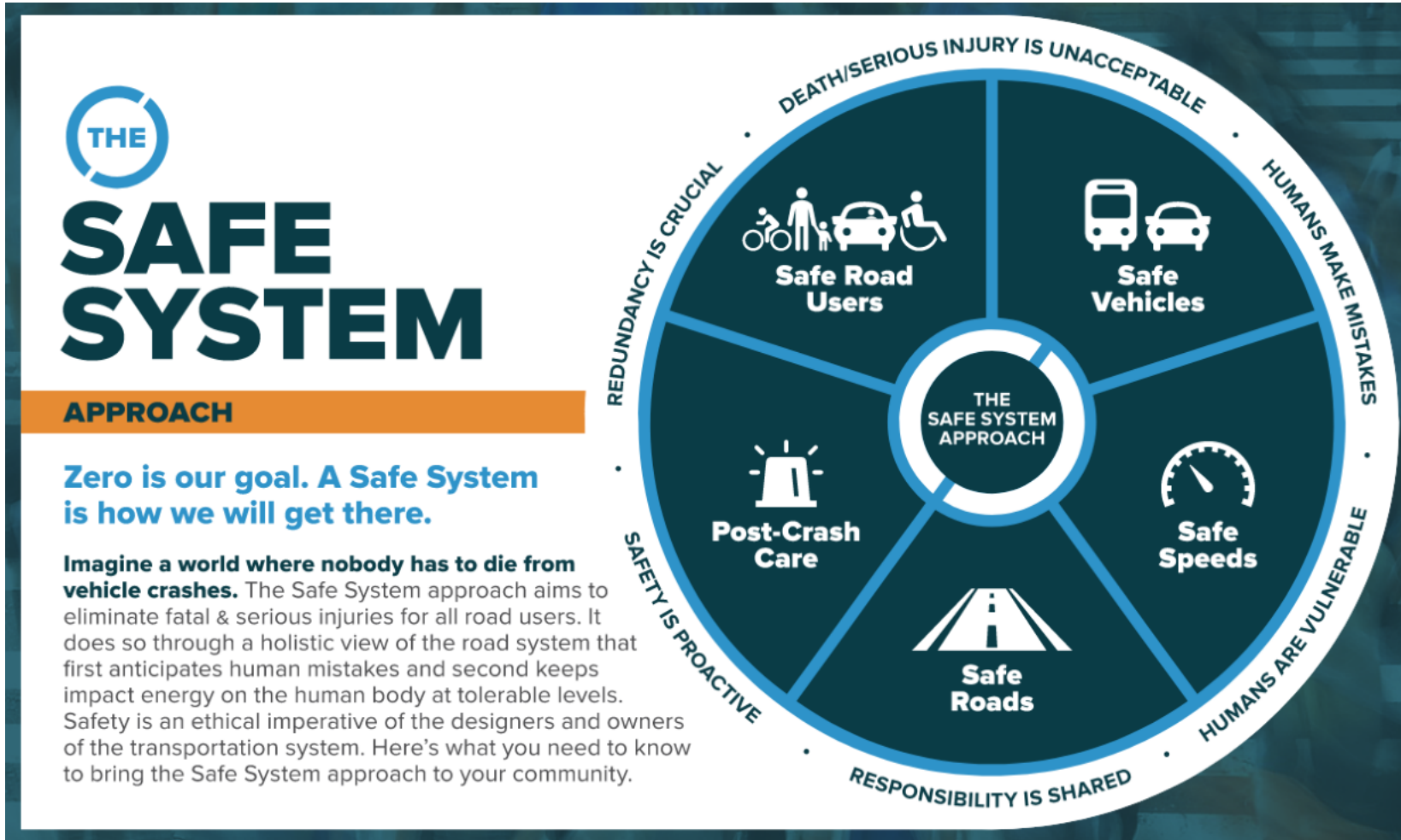


Project Origin

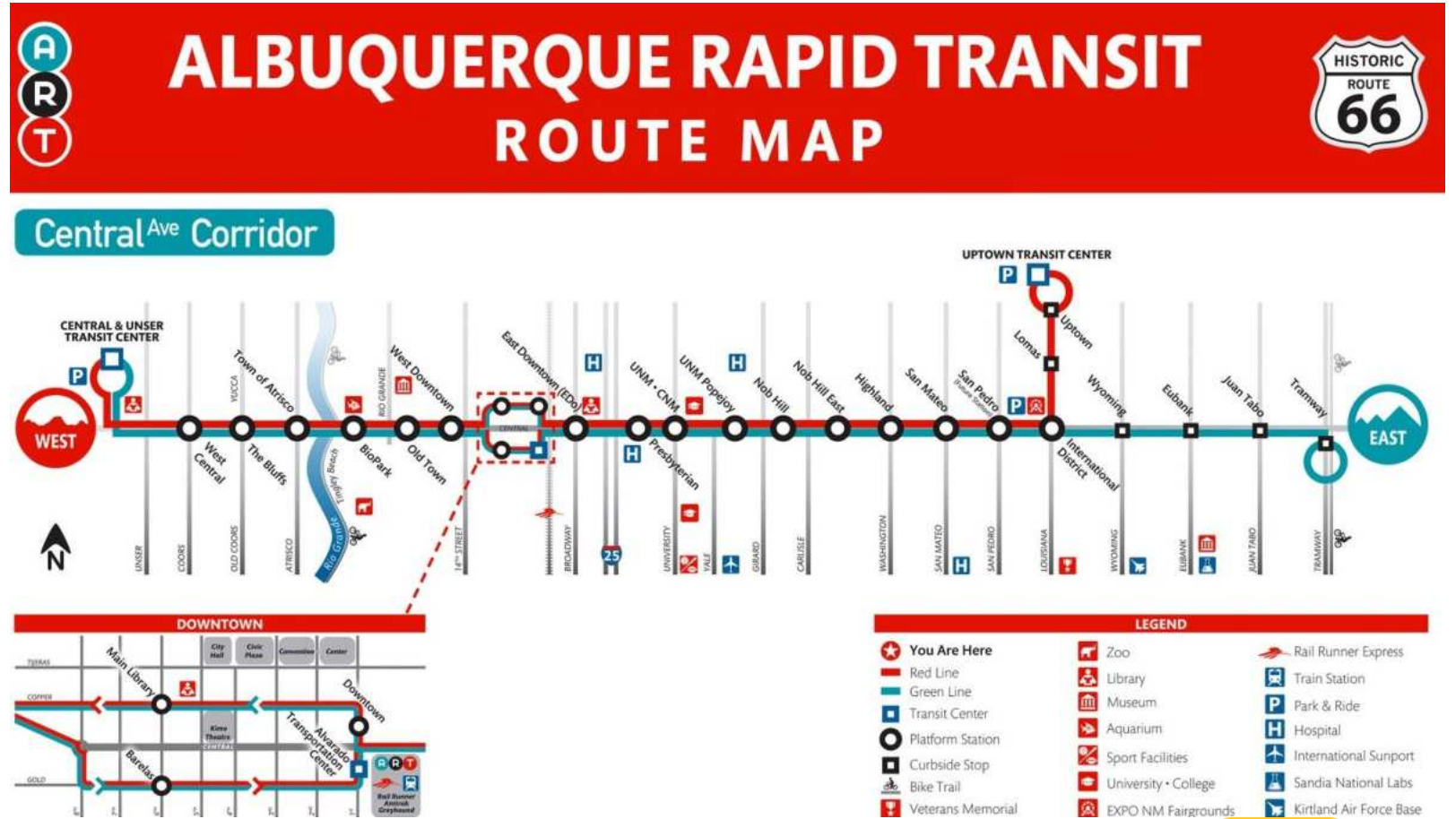
- Off-hand Conversation with City Traffic Engineer
- Frequent Pedestrian Fatalities along ART
- Observed Frequent Near Miss-Crashes
- Reports from ART Bus Drivers
- Name:
 - Pedestrian
 - Actuated
 - Warning
 - System



Safe System Approach



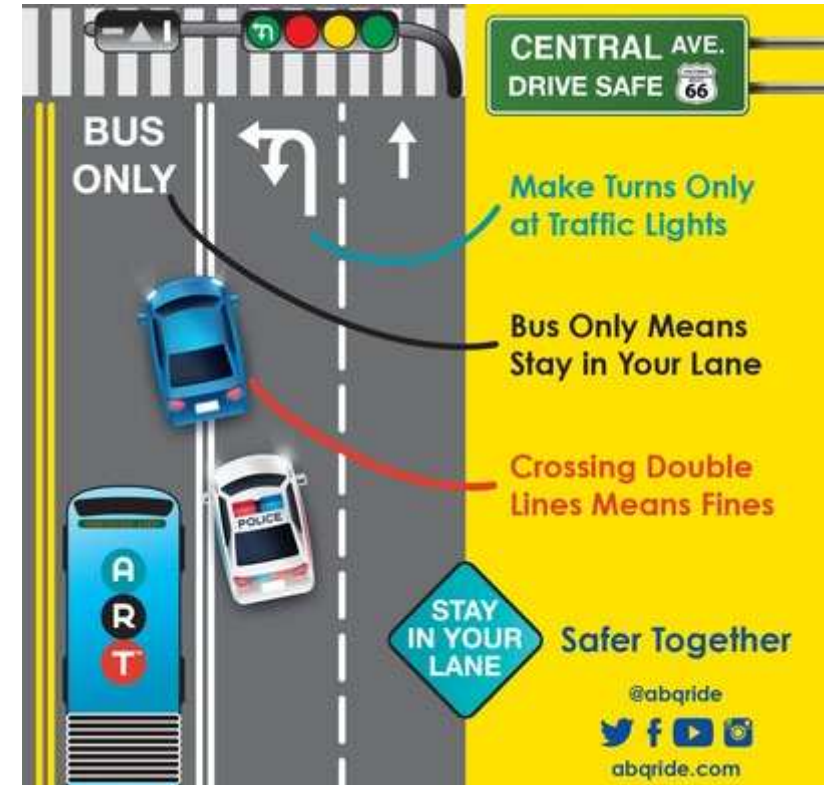
- Central Ave from Coors Blvd to Louisiana
- 28 Stations
 - All Center/Median
- Dedicated Bus Lanes
- 40+ PHB's / Traffic Signals



Albuquerque Rapid Transit



Albuquerque Rapid Transit



Albuquerque Rapid Transit



DEADLY PEDESTRIAN CRASH
SOUTHEAST ALBUQUERQUE

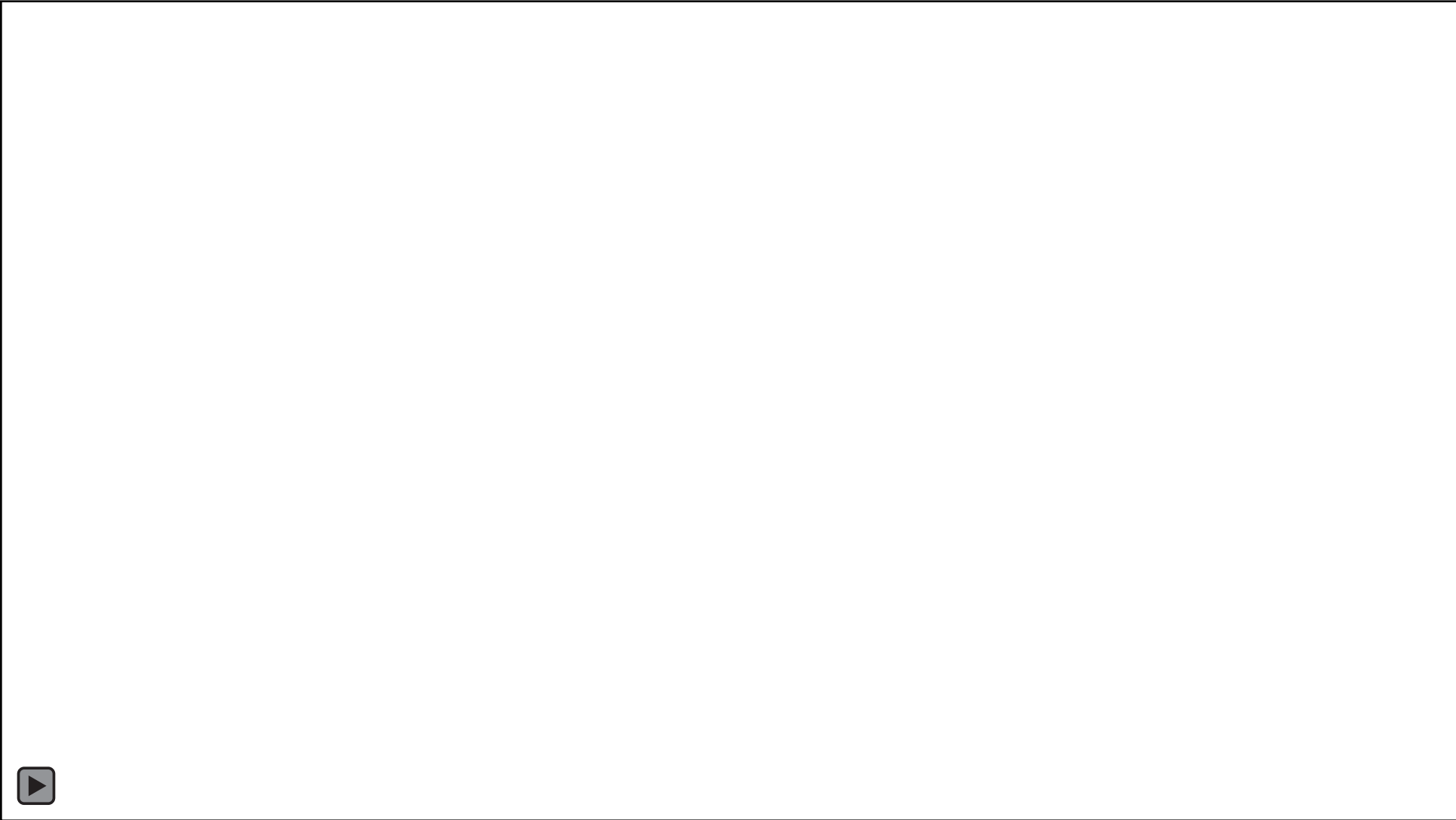


PERSON HIT BY CAR
CENTRAL AVE. AND VALENCIA DR.

NEW ON 7

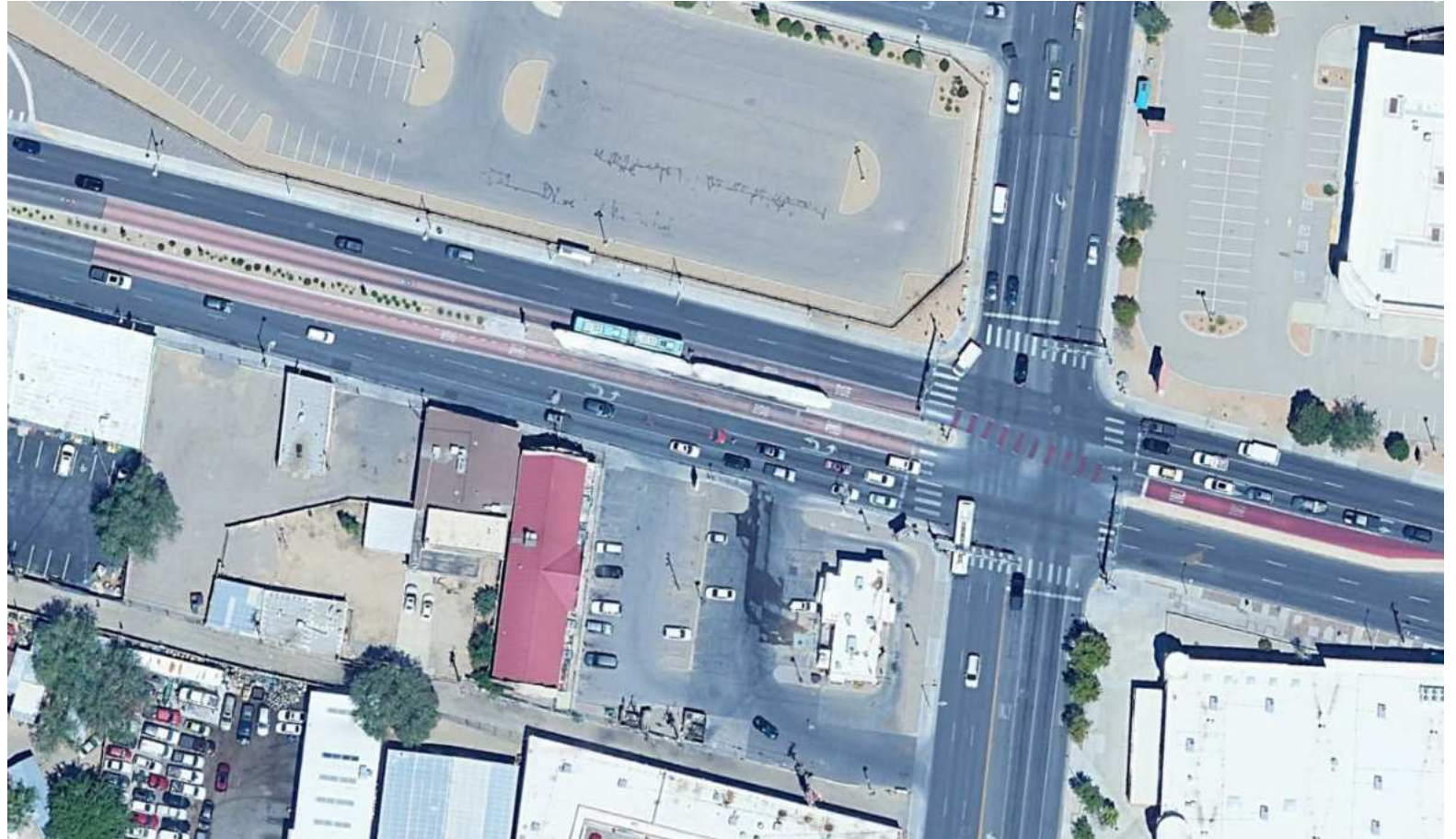


Albuquerque Rapid Transit



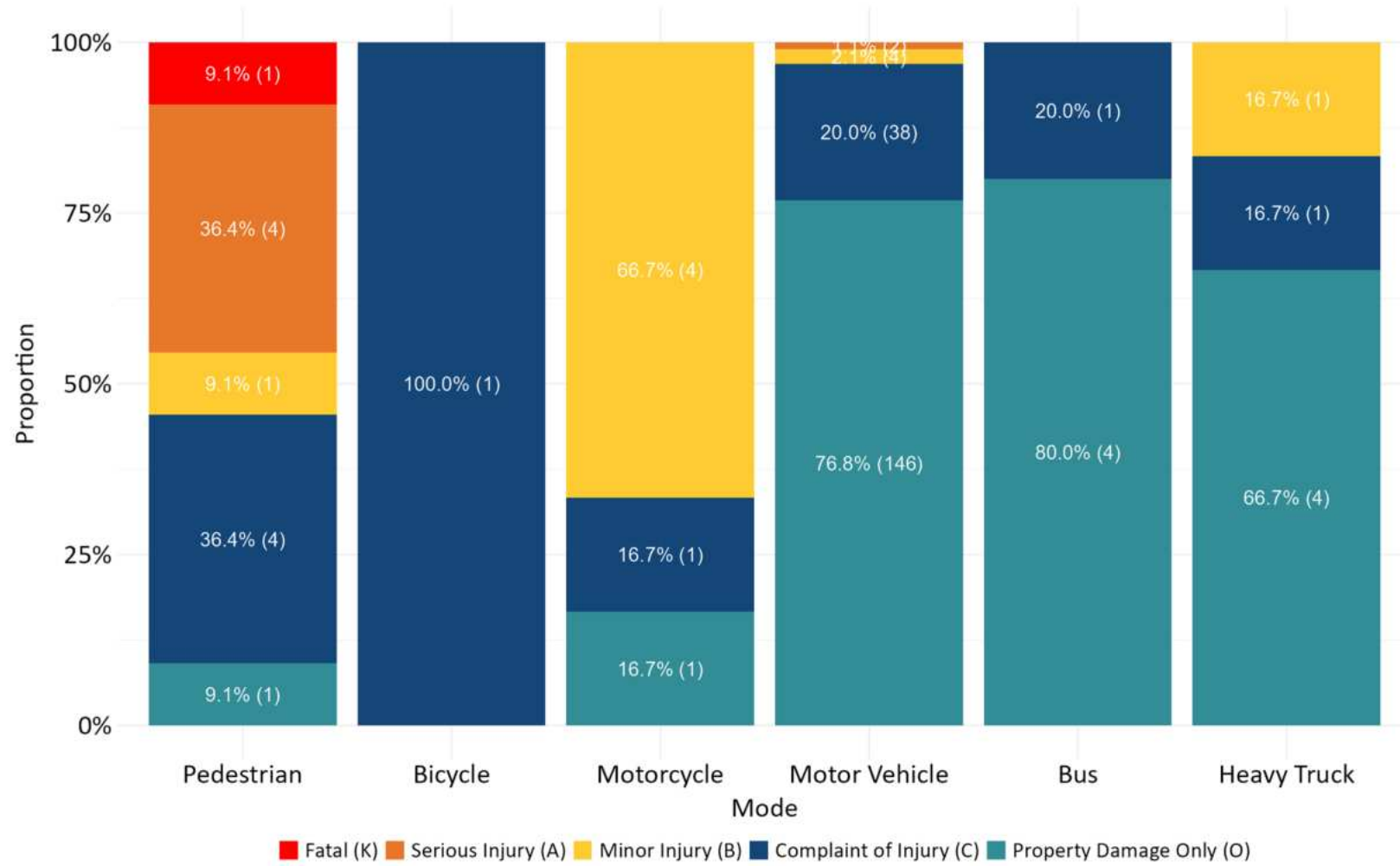
The Cause

- High Frequency of Pedestrian Fatalities and Serious Injuries
- Observed Pedestrians Crossing Central from “Everywhere”
- Existing Fiber Communications & Existing CCTV Camera
- Station Next to Signal

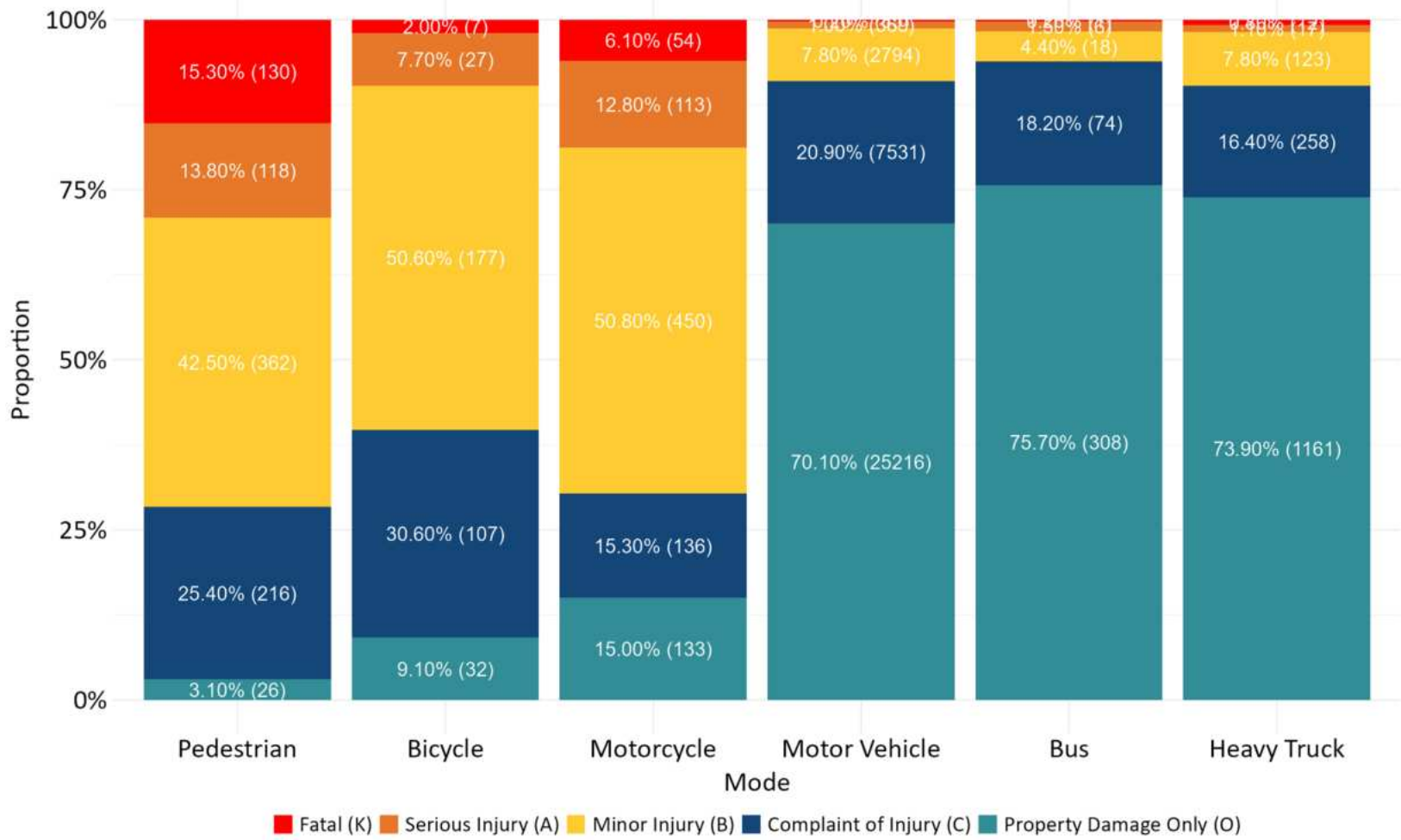


Pilot Project: Central Ave & Louisiana Blvd

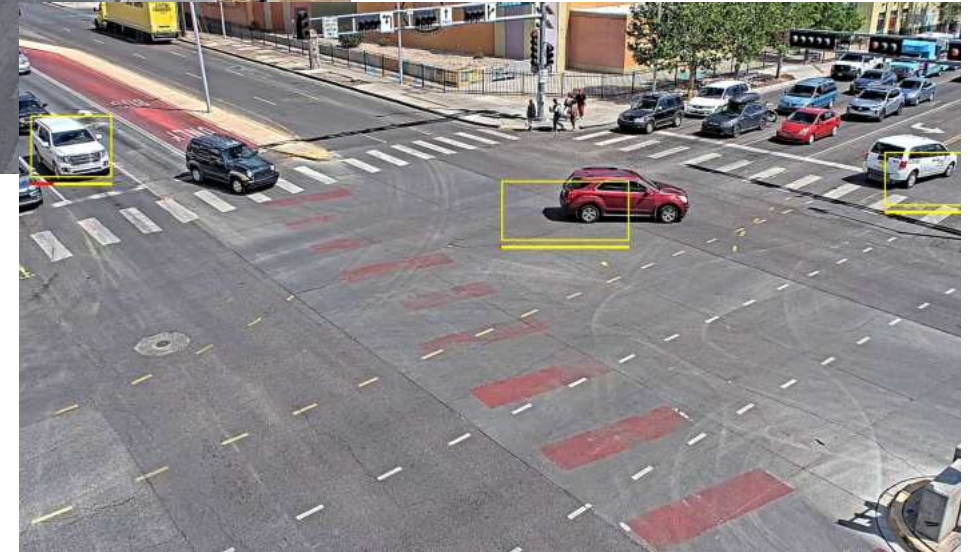
Crash Data: Central & Louisiana



Crash Data: Central & Louisiana



- First Trial Used Existing CCTV
- Proved Analytics Were Viable
- The Issue:
 - Only works with PTZ in Certain Position
 - View Angle Not Ideal
 - Frequent Police Use of Camera



Pilot Project: Central Ave & Louisiana Blvd

Pilot Project: Central Blvd & Louisiana

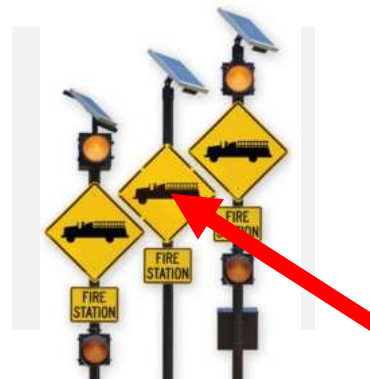
- Selected and Purchased Fixed View Camera
 - Installed on the back side of Mastarm Near Station
- Purchased Relay Module
- Purchased Warning System & Signs



Axis M2036-LE CCTV Camera

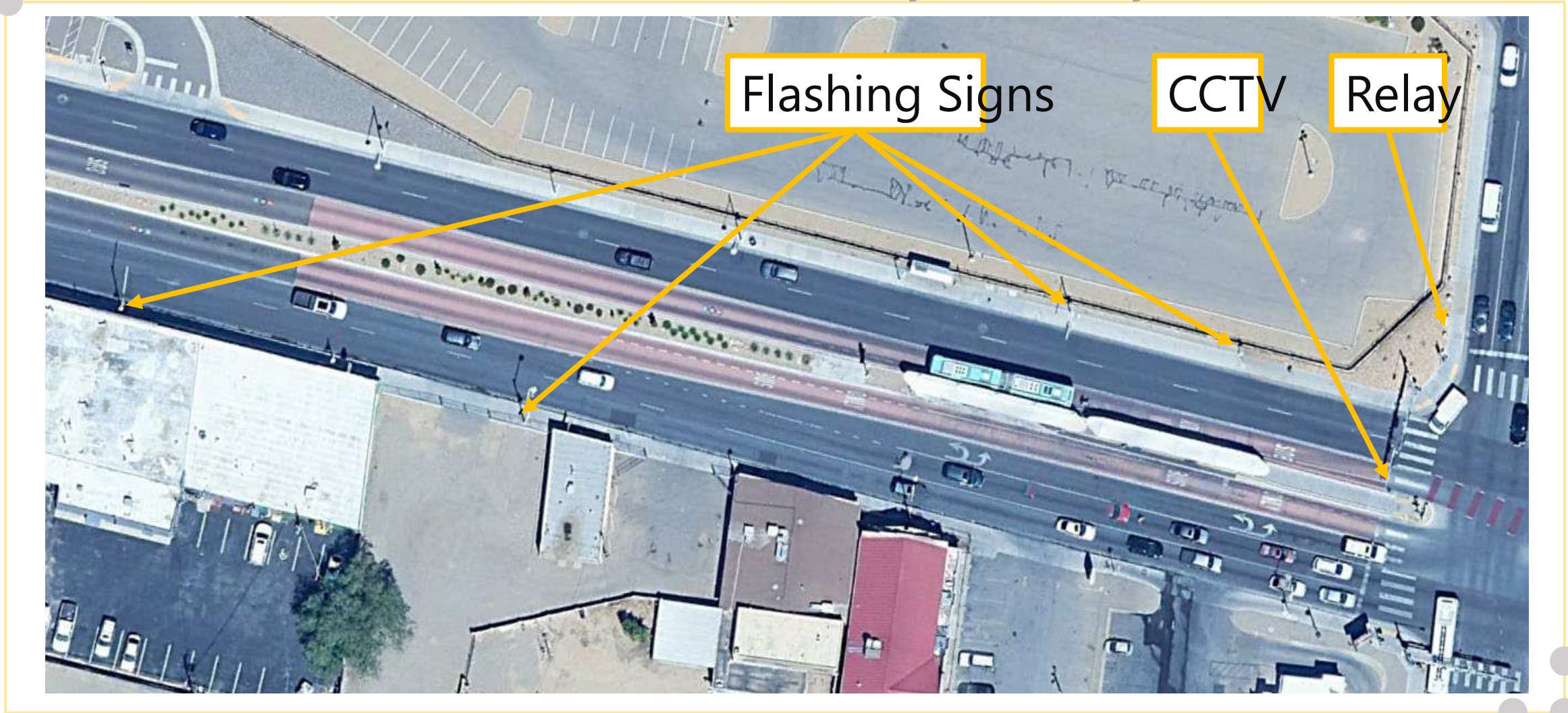


Axis A9188-VE Relay Module



RTC Flasher System

System Layout



System Layout: CCTV



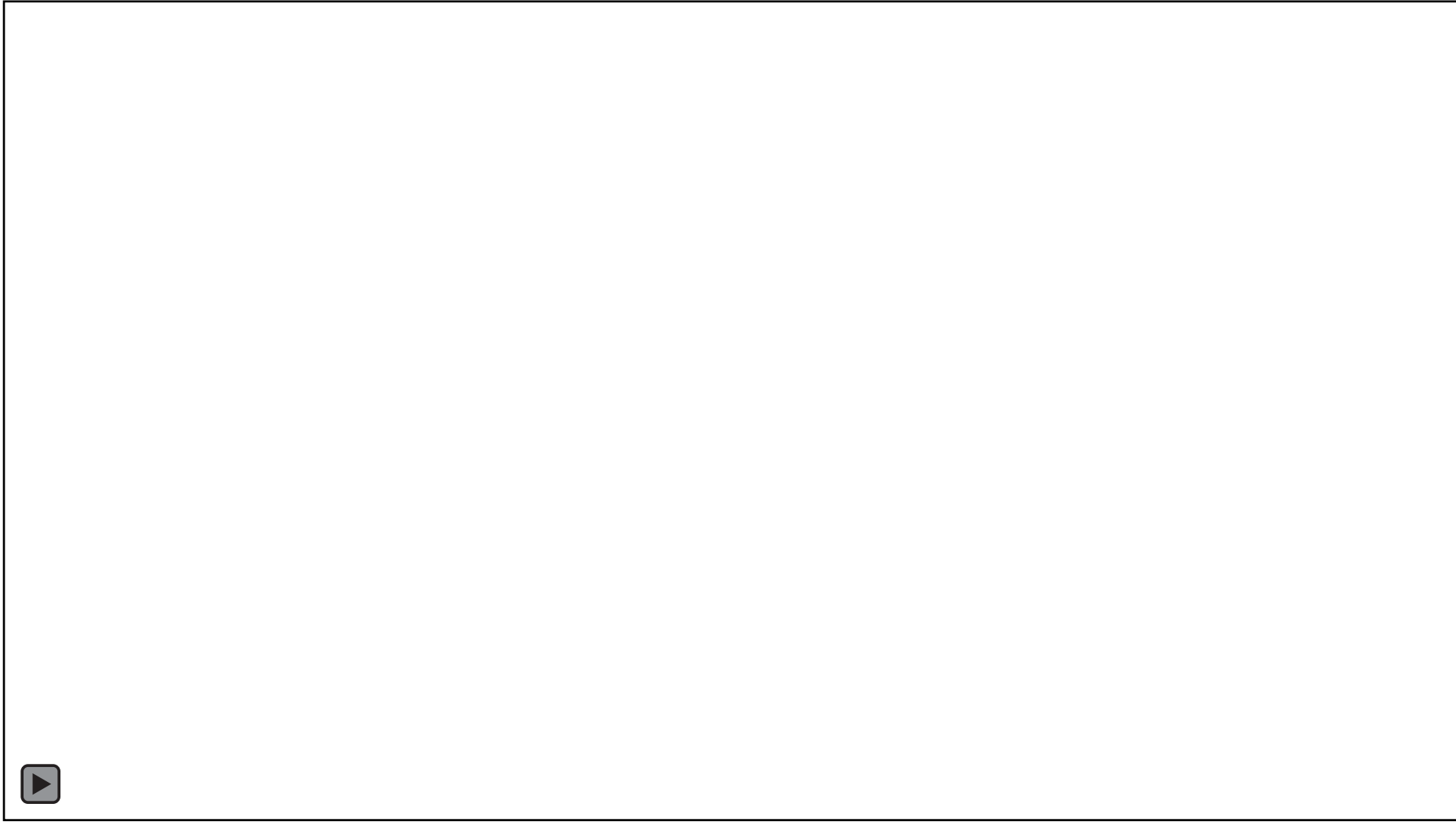
System Layout: Warning Signs



System Layout: AI Pedestrian Detection



System Operation Video



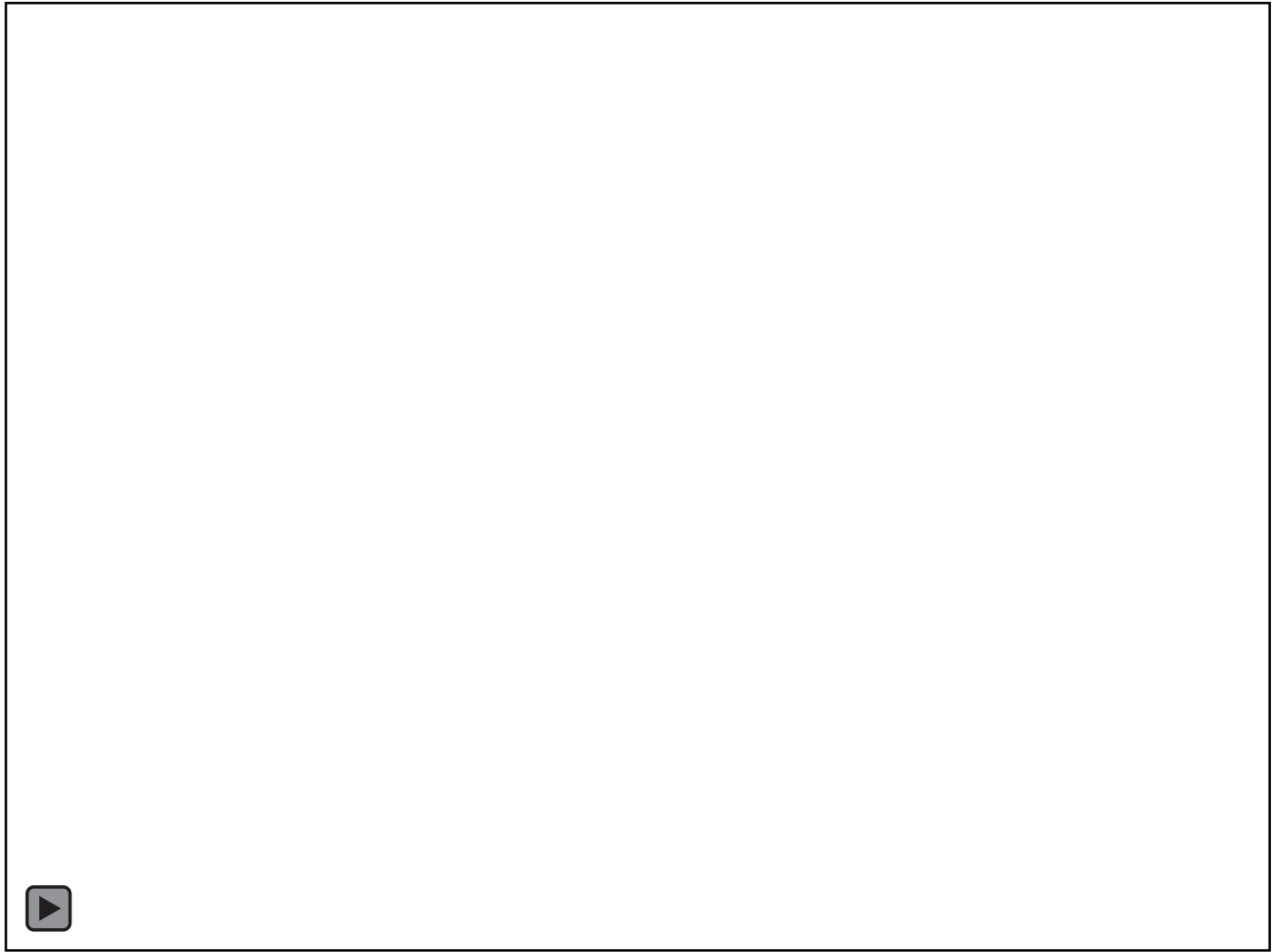
Pilot Project Cost

Item	Quantity	Cost	Total
Axis M2036-LE Camera	1	\$ 429.00	\$ 429.00
Axis A9188-VE Relay Module	1	\$ 899.00	\$ 899.00
RTC Flasher Sign and Assembly	4	\$ 5,001.55	\$ 20,006.20
Lee Engineering (T&M)	1	\$ 4,408.38	\$ 4,408.38
		Total	\$ 25,742.58

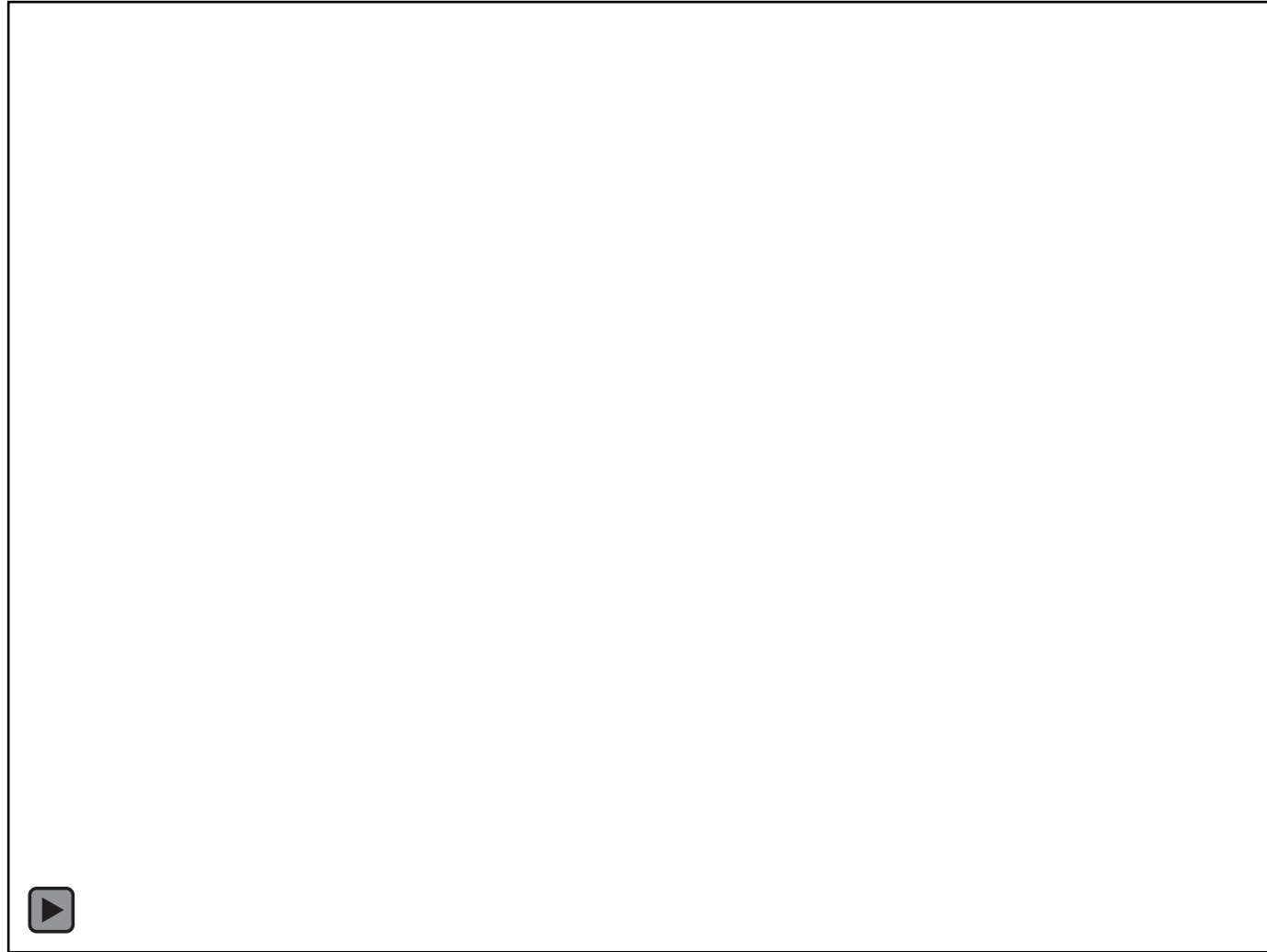
Known Issue #1: Motorcycle Detection



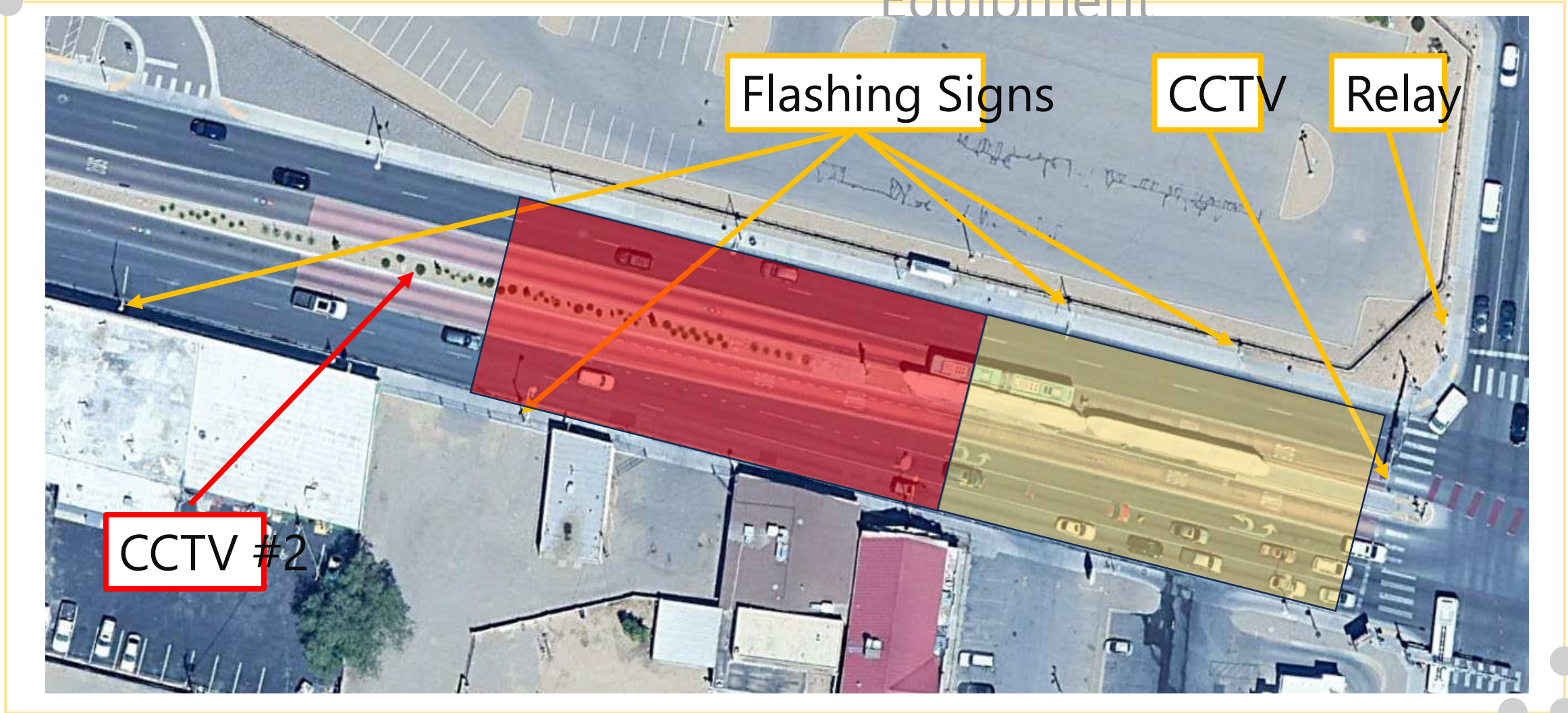
Known Issue #2: Detection Zone



Known Issue #3: Panhandling



Next Steps: Additional Equipment



Pilot Project Cost – Modified System

Item	Quantity	Cost	Total
Axis M2036-LE Camera	4	\$ 429.00	\$ 1716.00
Axis A9188-VE Relay Module	1	\$ 899.00	\$ 899.00
RTC Flasher Sign and Assembly	4	\$ 5,001.55	\$ 20,006.20
Lee Engineering (T&M)	1	\$ 6,532.25	\$ 6,532.25
Second Pole, Foundation and Conduit	1	\$ 33,978.44	\$ 33,978.44
		Total	\$ 63,140.89



Final Thoughts

Considering a Directional Component

Fine Tuning Analytics

Considering expansion to other stations



Questions?

