

## SAFETY IMPROVEMENTS ALREADY COMPLETE

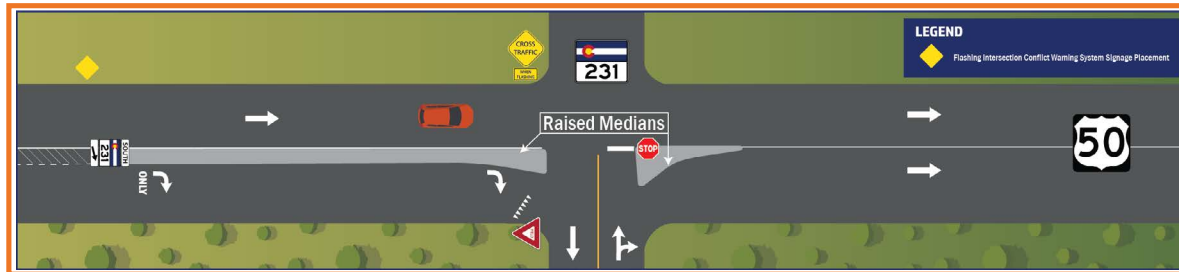
The following improvements have already been initiated prior to the start of construction:

- Reduced speed limit approaching the intersection on US 50B and 36th Lane
- Repositioned existing signage to improve sight distance at both intersections
- Advanced guide signs were relocated ¼ mile before the US 50 and 36th Lane intersection
- Update and replace pedestrian signs at US 50B and 36th Lane and added a rapid flashing beacon sign to alert motorists of pedestrians

## NEW DESIGN INTERSECTION IMPROVEMENTS | US 50 & CO 231 (36TH LANE)

The following design improvements will be implemented when construction is anticipated to begin in September 2023.

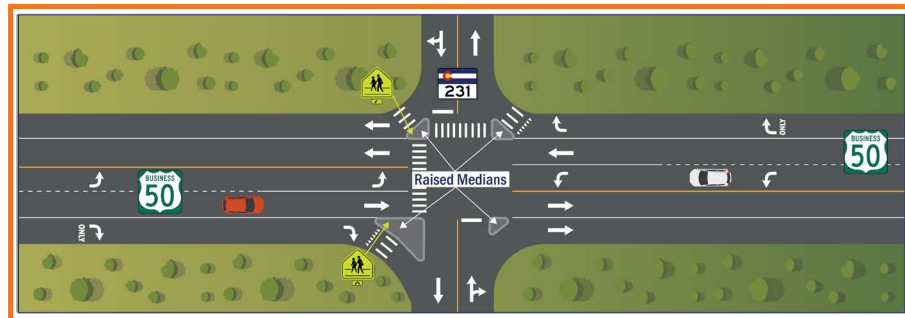
- Converting the right thru lane of US 50 eastbound into a right turn only lane 1/2 mile in advance of the intersection with 36th Lane
- Installation of an intersection conflict warning system on US 50 and on 36th Lane. The system recognizes approaching traffic and illuminates the warning signs alerting motorists of approaching vehicles to the intersection on both US 50 and on 36th Lane
- Moving the stop line of 36th Lane at US 50 up to the eastbound lane of travel so the right turn lane will not impact the view of motorists trying to cross the intersection. This will also reduce the crossing distance for northbound left-turning vehicles
- Installation of raised islands that allows the stop line to be moved up and improves sight distance when crossing the intersection



## NEW DESIGN INTERSECTION IMPROVEMENTS | US 50 BUSINESS & CO 231 (36TH LANE)

The following are design improvements that will be implemented when construction begins in September:

- Moving the stop line of 36th Lane at US 50 Business up to the travel lanes of US 50 Business to reduce the crossing distance for northbound and southbound left turning vehicles
- Installation of raised islands with pedestrian refuge that allows the stop line to be moved up and improves sight distance when crossing the intersection



# US 50 AND CO 231 (36TH LANE)

## INTERSECTION IMPROVEMENTS PROJECT Project Safety Pamphlet

### PROJECT OVERVIEW

The Colorado Department of Transportation has successfully completed the design phase for intersection improvements at both US 50 and US 50 Business and 36th Lane in Pueblo, Colorado. After a thorough evaluation, the design has been finalized with the aim of enhancing safety by increasing sight distance to facilitate secure motorist crossing of US 50 and to improve overall pedestrian and motorist safety near schools along US 50 Business and 36th Lane. Construction is scheduled to commence in late September 2023.



### Contact Information

If you have questions or concerns or if you would like to be added to our public outreach contact list to receive construction updates, please contact us!

719-691-7106 | us50intersectionimprovements@gmail.com  
www.codot.gov/projects/us50-co231-intersection-improvements



**COLORADO**  
Department of Transportation

# How the New Safety Systems Work

## INTERSECTION CONFLICT WARNING SYSTEM STEPS

The Intersection Conflict Warning System uses a radar sensor and two infrared sensors that trigger lights when traffic is approaching in this location. When those sensors detect traffic, they activate all of the flashing beacons on the mast arm and the LED arrays on the “T” intersection sign as well as the “STOP” and “YIELD” signs. After a brief hold period, all of the lights deactivate until another vehicle is sensed.



### SENSORS AND DETECTION

At the intersection, there are special sensors and cameras installed. These act like the system’s eyes and ears. They watch the road and look for any vehicles that might be getting too close to each other.



### IDENTIFYING POTENTIAL CONFLICTS

The sensors and cameras identify potential conflict situations where two cars might end up in the same spot at the same time. The sensors can sense if one car is going straight while another is turning, or if two cars are about to cross paths.



### WARNING SIGNS AND LIGHTS

When the system detects a potential conflict, it sends a signal to the traffic lights or special signs near the intersection. These signs might light up or change to warn you and the other drivers about the situation.



### PAYING ATTENTION AND SLOWING DOWN

When you see the flashing lights it’s important to pay extra attention. Slow down a bit and be ready to stop if needed. This gives you time to avoid potential conflicts.



### CLEARING THE INTERSECTION

Once the potential conflict is no longer a problem (for example, the other car has finished turning), the warning lights will stop flashing.

To learn more about Intersection Conflict Warning Systems, visit the project website to view the videos.



# How Rapid Flashing Beacon Signs Work

Rapid Flashing Beacon Signs are a widely-used and highly effective for pedestrian and bicyclist crossings. Their amber color and erratic flash pattern are proven to capture drivers’ attention, increasing yield rates by up to 98% and reducing crashes up to 47%, according to the FHWA and are a Proven Safety Countermeasure promoted by the Safe Transportation for Every Pedestrian (STEP) initiative.



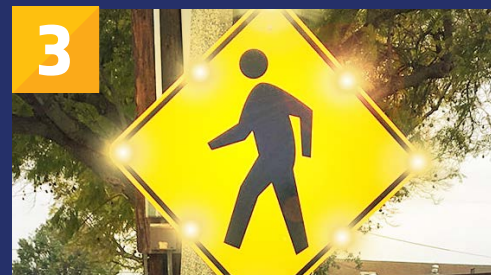
### INTRODUCTION TO RAPID FLASHING BEACON SIGNS

Imagine you’re walking up to an intersection or crossing the street. Rapid Flashing Beacon Signs are like bright, attention-grabbing lights that help you cross safely. They’re there to make sure drivers notice you and stop to let you cross.



### ACTIVATING THE BEACON

When you’re about to cross the street, you’ll see a button on a pole or a box nearby. Pressing this button activates the Rapid Flashing Beacon Signs.



### CATCHING DRIVERS' ATTENTION

Once you press the button, the lights on the Rapid Flashing Beacon Signs start blinking rapidly. These bright, blinking lights are hard to miss. They’re designed to alert drivers to pedestrians needing to cross the street.



### SLOW DOWN AND STOP

As the lights start flashing, drivers on the road will see them and know that someone is waiting to cross. When they see the flashing lights, they know they need to slow down and eventually stop to let you cross safely.



### SAFE CROSSING

Once the drivers have stopped their cars, it’s your turn to cross. Look both ways, when the road is clear, and all the cars have stopped, you can confidently cross the street.



### LIGHTS STOP FLASHING

Once you’re safely on the other side of the street, the Rapid Flashing Beacon Signs will stop blinking. This lets the drivers know they can start moving again.