

CONTINUOUS FLOW INTERSECTION (CFI)

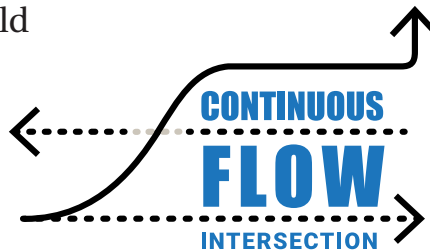
INTERSECTION OF EAGLE ROAD AND IDAHO 44

The Idaho Transportation Department is developing design plans to improve safety and reduce congestion at the Eagle Road (Idaho 55) and Idaho 44 intersection in Eagle. Traffic volumes, accidents and delay times have continued to rise at the existing intersection, which serves 70,000 drivers each day.

A NEW INTERSECTION DESIGN

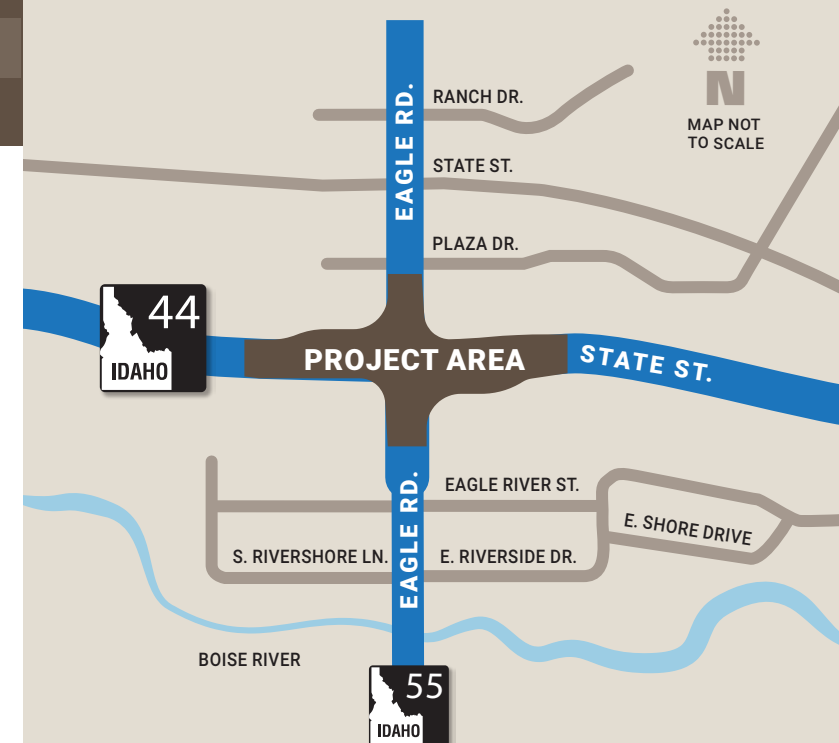
Based on a detailed review of several potential designs, ITD has selected a new intersection layout called a continuous flow intersection. A CFI is an innovative intersection design that has been used to improve safety and reduce congestion in many locations over the last 10 years, including Utah.

A detailed study has shown that a half CFI would significantly decrease wait times and improve safety at the Eagle Road/Idaho 44 intersection. The study showed that adding lanes to the existing intersection would not result in the same benefits.



ESTIMATED WAIT TIME EAGLE ROAD AND ID 44 INTERSECTION

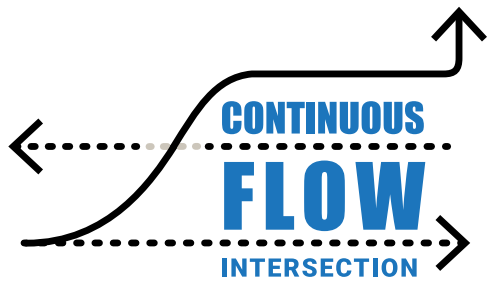
2018	<i>current intersection</i>
46 SECONDS	
2040 ↑	<i>widening the intersection</i>
79.9 SECONDS	
2040 ↑	<i>no change to the intersection</i>
87 SECONDS	
2040 with CFI ↓	
29.5 SECONDS	



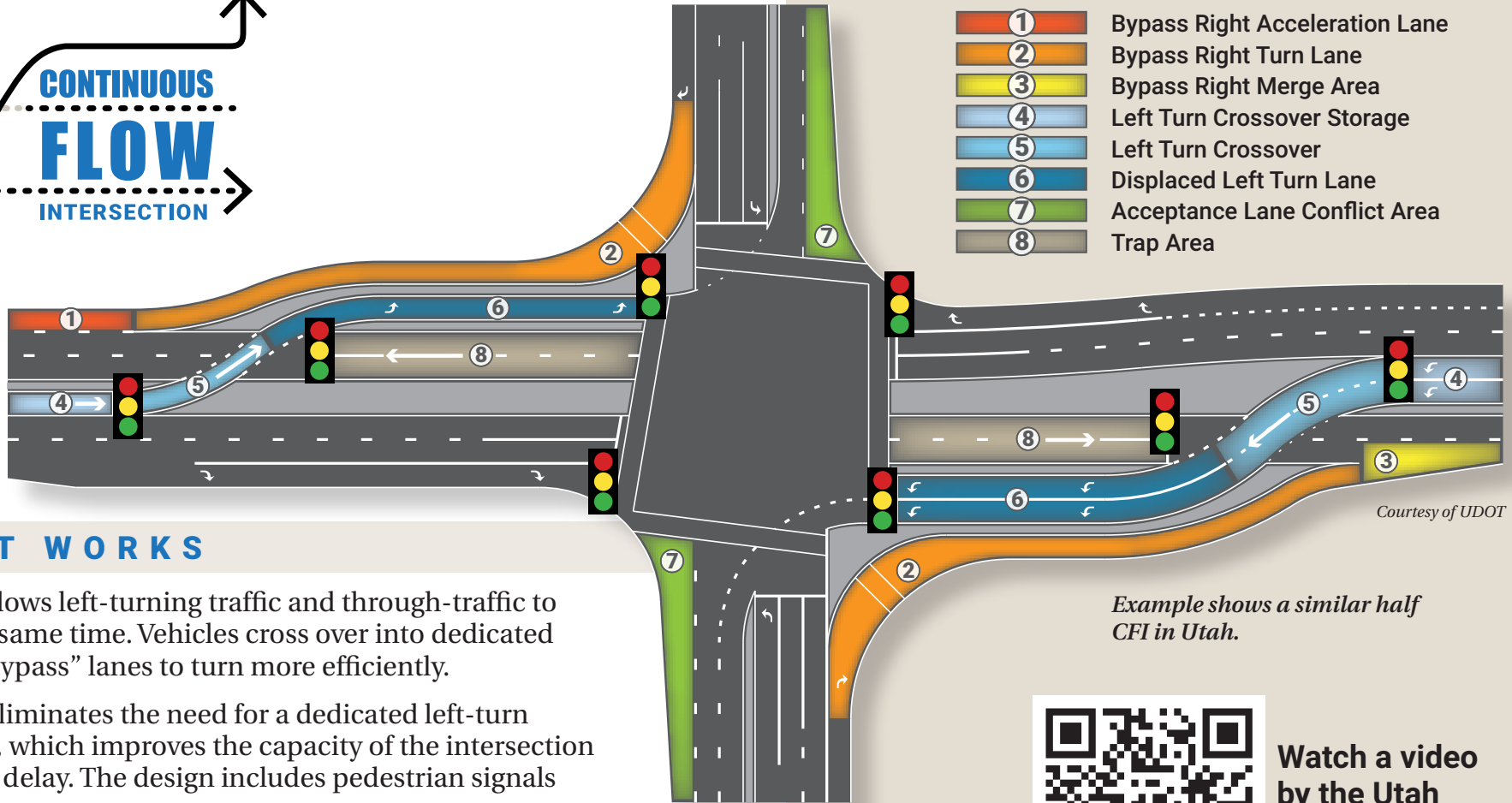
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SEE REVERSE FOR CFI EXAMPLE IN UTAH



- ① Bypass Right Acceleration Lane
- ② Bypass Right Turn Lane
- ③ Bypass Right Merge Area
- ④ Left Turn Crossover Storage
- ⑤ Left Turn Crossover
- ⑥ Displaced Left Turn Lane
- ⑦ Acceptance Lane Conflict Area
- ⑧ Trap Area



Courtesy of UDOT

HOW IT WORKS

A half CFI allows left-turning traffic and through-traffic to move at the same time. Vehicles cross over into dedicated “right turn bypass” lanes to turn more efficiently.

The layout eliminates the need for a dedicated left-turn green phase, which improves the capacity of the intersection and reduces delay. The design includes pedestrian signals and crossings.

Example shows a similar half CFI in Utah.



Watch a video by the Utah Department of Transportation

WHY A HALF CFI MAKES SENSE

This half CFI design is well suited for this intersection at Eagle Road and Idaho 44 because of high traffic and many businesses in the area. The half CFI design is expected to significantly increase safety and capacity without requiring significant property impacts. This results in excellent value for a very reasonable cost.

NEXT STEPS:

ITD will host a public open house later this year to share details about the design and how the half CFI would operate. At this time, construction is expected to begin in 2021.



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