

TRANSPORTATION & SAFETY COMMITTEE

August 24, 2016

Agenda

- ▣ Items from the Public not on the Agenda
- ▣ Coal Creek Drive Origin-Destination Data
- ▣ Rectangular Rapid Flashing Beacon (RRFB) at 88th St/Rock Creek Parkway Roundabout
- ▣ 2016 DDI Accidents
- ▣ Potential Items for Future Meetings

Coal Creek Drive O/D



Coal Creek Drive O/D

Coal Creek Drive Traffic Data						
Segment	2003	2005	2010	2014	2015	2016
McCaslin to First Avenue		1,219	1,350		1,608	2,210
First Avenue to Second Avenue	853			1,735	954	1,831
Second Avenue to Third Avenue	696				968	
Third Avenue to Fourth Avenue				1,401		1,124
Fourth Avenue to 76th Street	387			487		
Fourth Avenue to Eighth Avenue						774
Eighth Avenue to 76th Street						1,045
Fourth Ave, Coal Creek Dr to Sycamore						1,295
<u>Speed Data</u>						
Third Avenue to Fourth Avenue						
85th percentile Speed						22 mph
Vehicles Exceeded 25 mph Speed limit						2.3%
Vehicles Exceeding 30 mph						1
<u>Truck Data</u>						

Coal Creek Drive O/D

	Westbound									
	From		To							
Time Period		Town Hall	1st	2nd	3rd	4th	6th	8th	76th	Total
8-9:30 AM	McCaslin	5	37	5	1	32	7	5	9	101
	Town Hall		3		1				1	5
	1st			2		4	1		1	8
	2nd					3				3
	3rd					3				3
	4th						1		3	4
	6th								2	2
	8th								7	7
Total		5	40	7	2	42	9	5	23	133

Coal Creek Drive O/D

	Westbound									
	From		To							
Time Period		Town Hall	1st	2nd	3rd	4th	6th	8th	76th	Total
12-1 PM	McCaslin	3	6	6	2	23	1	1	2	44
	Town Hall		3		1	3				7
	1st			2		2				4
	2nd					1				1
	3rd			1		2				3
	4th			1					3	4
	6th							2	3	5
	8th								3	3
	Total	3	9	10	3	31	1	3	11	71

Coal Creek Drive O/D

	Westbound									
	From		To							
Time Period		Town Hall	1st	2nd	3rd	4th	6th	8th	76th	Total
4:30-5:30 PM	McCaslin	6	14	5	1	37	1	1	11	76
	Town Hall		4	2		1				7
	1st			1	2	4			1	8
	2nd				1	5				6
	3rd					4			3	7
	4th								8	8
	6th								3	3
	8th								1	1
	Total	6	18	8	4	51	1		27	115

Coal Creek Drive O/D

		Eastbound								
		From		To						
Time Period		8th	6th	4th	3rd	2nd	1st	Town Hall	McCaslin	Total
8-9:30 AM	76th	2	1	3		3	1		6	16
	8th		2	2					8	12
	6th			2		2	1	1	8	14
	4th		2		2	3	4	1	8	20
	3rd					4				4
	2nd								2	2
	1st								10	10
	Town Hall								2	2
	Total	2	5	7	2	12	6	2	44	80

Coal Creek Drive O/D

		Eastbound								
		From			To					
Time Period		8th	6th	4th	3rd	2nd	1st	Town Hall	McCaslin	Total
12-1 PM	76th	1		2		2			1	6
	8th			1					1	2
	6th			3	1	1			7	12
	4th				1	3			9	13
	3rd					2			5	7
	2nd								2	2
	1st								5	5
	Town Hall								2	2
	Total	1		6	2	8			32	49

Coal Creek Drive O/D

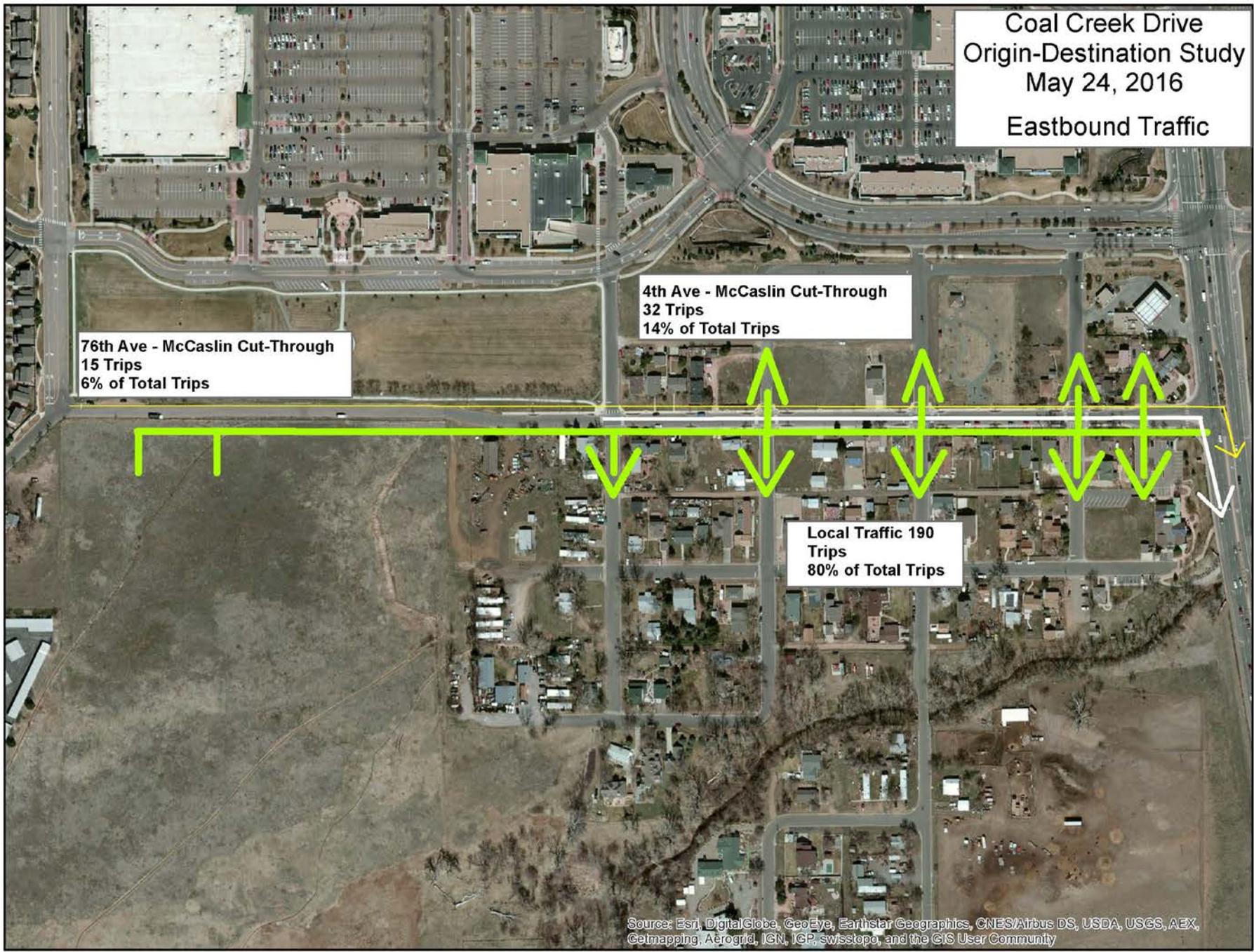
		Eastbound								
		From		To						
Time Period		8th	6th	4th	3rd	2nd	1st	Town Hall	McCaslin	Total
4:30-5:30 PM	76th	3	2	7	1	1	3		8	25
	8th		2	4						6
	6th			5					5	10
	4th				4	6	6		15	31
	3rd					10	7		8	25
	2nd								4	4
	1st								3	3
	Town Hall								4	4
	Total	3	4	16	5	17	16		47	108

Coal Creek Drive
Origin-Destination Study
May 24, 2016
Eastbound Traffic

76th Ave - McCaslin Cut-Through
15 Trips
6% of Total Trips

4th Ave - McCaslin Cut-Through
32 Trips
14% of Total Trips

Local Traffic 190
Trips
80% of Total Trips



Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

Coal Creek Drive
Origin-Destination Study
May 24, 2016
Westbound Traffic

McCaslin - 76th Ave Cut-Through
22 Trips
7% of Total Trips

McCaslin - 4th Ave Cut-Through
92 Trips
29% of Total Trips

Local Traffic
205 Trips
64% of Total Trips

Coal Creek Drive O/D

Eastbound

Internal	4th Ave Cut Through	76th Ave Cut Through	Total
190	32	15	237
80%	14%	6%	100%

Westbound

Internal	4th Ave Cut Through	76th Ave Cut Through	Total
205	92	22	319
64%	29%	7%	100%

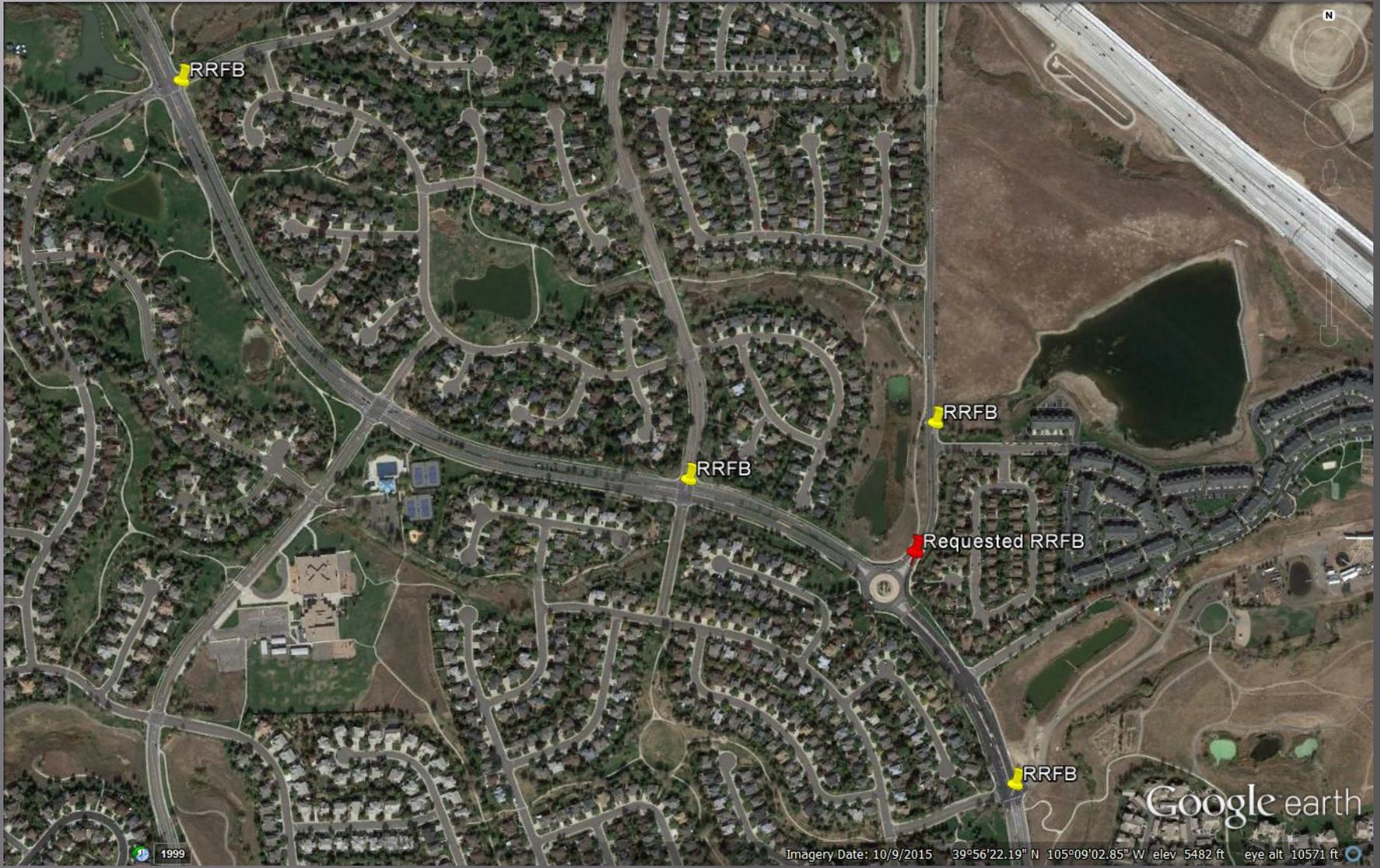
Rectangular Rapid Flashing Beacons

- ▣ RRFBs are user-actuated amber LEDs that supplement warning signs at unsignalized intersections or mid-block crosswalks.
- ▣ RRFBs use an irregular flash pattern that is similar to emergency flashers on police vehicles.

Rectangular Rapid Flashing Beacons

- ▣ RRFBs are a lower cost alternative to traffic signals that are shown to increase driver yielding behavior at crosswalks significantly when supplementing standard pedestrian crossing warning signs and markings.
- ▣ An official FHWA-sponsored experimental implementation and evaluation conducted in St. Petersburg, Florida found that RRFBs at pedestrian crosswalks are dramatically more effective at increasing driver yielding rates to pedestrians than traditional overhead beacons.
- ▣ The novelty and unique nature of the stutter flash may elicit a greater response from drivers than traditional methods.

Rectangular Rapid Flashing Beacons



Accelerating Roundabout Implementation
in the United States - Volume I of VII

Evaluation of Rectangular Rapid-Flashing
Beacons (RRFB) at Multilane Roundabouts

PUBLICATION NO. FHWA-SA-15-069

SEPTEMBER 2015

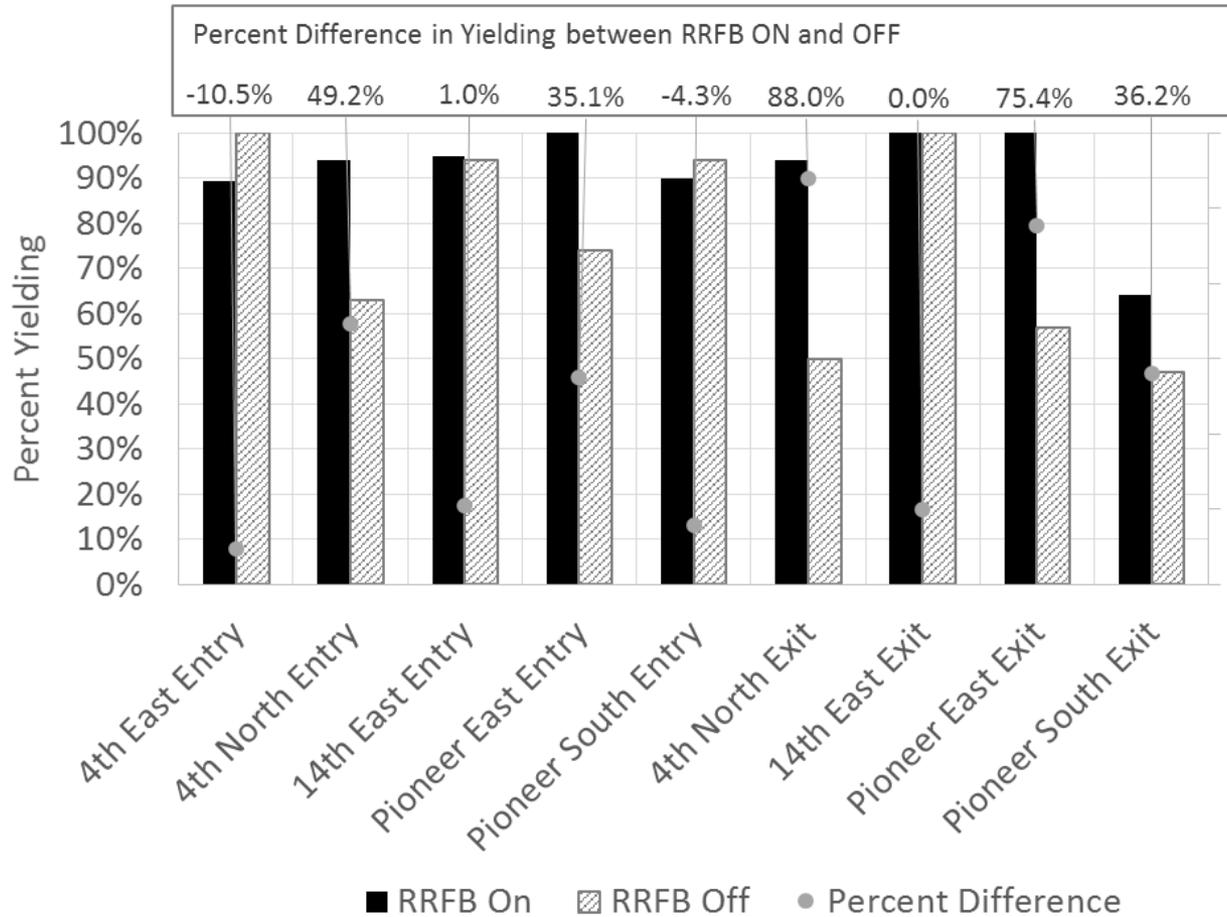


U.S. Department of Transportation
Federal Highway Administration



Safe Roads for a Safer Future
Investment in roadway safety saves lives

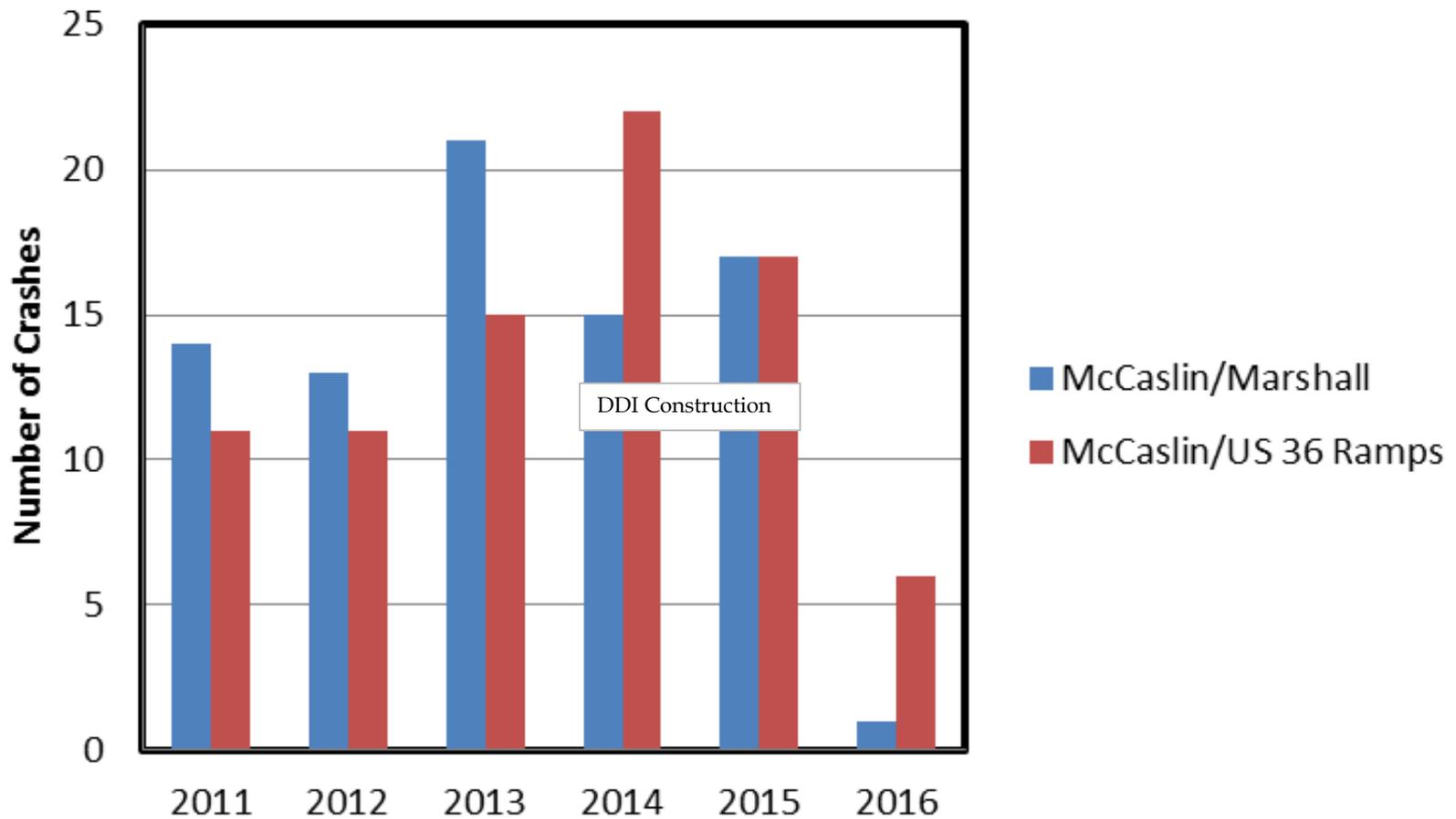
Rectangular Rapid Flashing Beacons



Rectangular Rapid Flashing Beacons

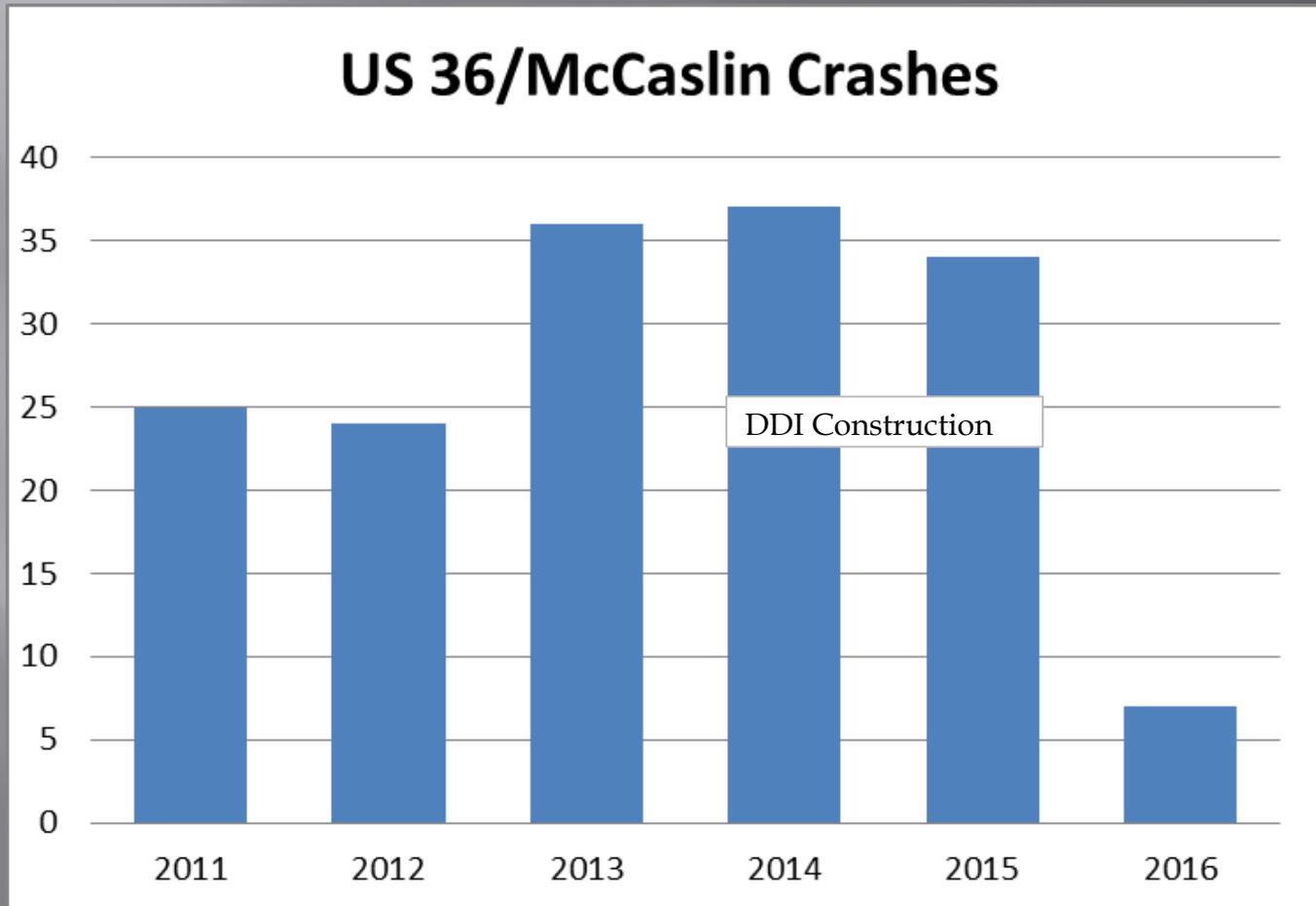
- ▣ RRFBs will be installed at the McCaslin/Main Street Roundabout
- ▣ Cost: \$14,000 per approach (entry & exit)
- ▣ For all Approaches at 88th/RCP and McCaslin/Coalton: \$98,000
- ▣ Recommend a trial program on the 88th St. approach (2017)

DDI Accidents



Through June 30, 2016

DDI Accidents



Through June 30, 2016