



FLASHING YELLOW LEFT-TURN INDICATIONS – PILOT PROJECT

Public Works Department

Transportation Committee
July 11, 2019

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BACKGROUND

1. On June 1, 2016, the Transportation Board recommended approval of the Flashing Yellow Left-Turn Indication Pilot Project.
2. On September 8, 2016, the Transportation Committee recommended City Council approval of the pilot project and requested a one-year project update.
3. On November 8, 2016, City Council approved the proposed pilot project.



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BACKGROUND

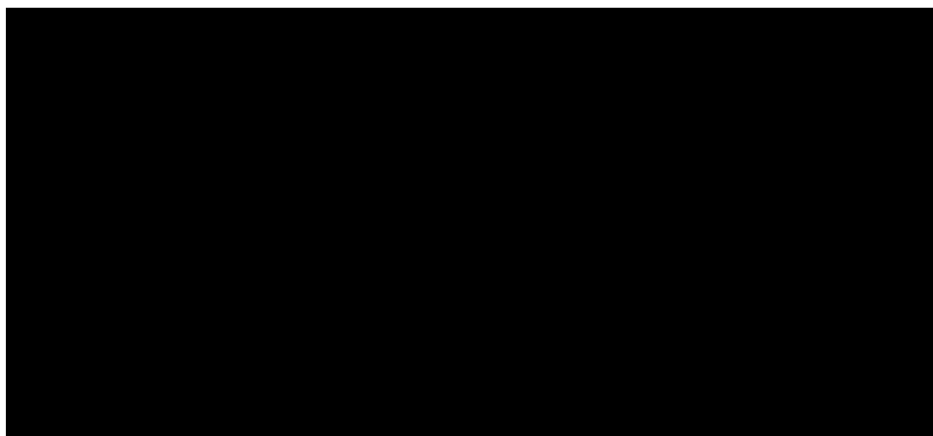
4. On July 12, 2018, the Transportation Committee received an interim update on the pilot program. This update confirmed the installation of flashing yellow left turn arrows at six pilot locations and recommended a full report following a one-year assessment period.



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INFORMATIVE NEW VIDEO



<https://youtu.be/MNgDj1gUNOg>



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PILOT PROJECT COMPONENTS

1. Upgrade of existing protected/permissive traffic signal operations to flashing yellow left-turn indications at up to seven intersections.
2. Assessment of impacts of pilot project after one-year implementation period including evaluation of:
 - a. Safety / collision history;
 - b. Motorist understanding; and
 - c. Overall operations at project intersections.



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PILOT PROJECT LOCATIONS SELECTED

1. La Sierra Avenue at Vista Terrace / Ralphs Shopping Center;
2. Magnolia Avenue at Overland Street;
3. Market Street at First Street;
4. Market Street at Ninth Street;
5. Market Street at Tenth Street; and
6. Market Street at Third Street.



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PHOTO OF PILOT PROJECT IMPROVEMENTS



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COLLISION RATE ASSESSMENT

Reflective Yellow Pilot Locations	Left Turn Collisions Per Year Before	Left Turn Collisions Per Year After	Total Collisions Per Year Before	Total Collisions Per Year After	Change in Left Turn Collisions		Change in Total Collisions	
La Sierra Ave at Vista Terrace	0.00	0.00	2.30	0.92	—	0.0%	↓	59.8%
Magnolia Ave at Overland St	2.04	0.92	3.83	1.85	↓	54.8%	↓	51.8%
Market St at Third St	2.81	1.85	7.40	4.62	↓	34.3%	↓	37.7%
Market St at First St	0.00	0.92	1.79	1.85	—	N/A	—	0.0%
Market at Ninth St	0.51	0.92	1.02	2.77	↑	80.8%	↑	171.2%
Market at Tenth St	0.26	0.92	2.04	4.62	↑	261.5%	↑	126.0%
Total	5.62	5.53	18.38	16.62	↓	1.4%	↓	9.6%

*Before Period is from May 25, 2014 to April 24, 2018 (47 months)

**After Period is from April 25, 2018 to May 25, 2019 (13 months)



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PILOT PROJECT ASSESSMENT

1. Locations with very low left turn collision rates were more volatile and sensitive to change;
2. Locations with higher left turn collision rates experienced collision reductions and benefited from the ability to restrict permissive left turn movements during peak hours of traffic; and
3. La Sierra / Vista Terrace operations on the side street benefited operationally from the addition of protected / permissive left turn movements.



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RECOMMENDATIONS

That the Transportation Committee:

1. Receive and file the assessment of the City's Flashing Yellow Left-turn Indication Pilot Project; and
2. Support the Public Works Department's continued use of Flashing Yellow Left Turn Arrows as a replacement for traditional protected / permissive left turn signalization.



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