

Capital Improvement Program Traffic Signal Prioritization and Funding

City Council Meeting

April 27, 2015



Why Are Traffic Signals Installed

- Meets requirements in Manual on Uniform Traffic Control Devices (MUTCD)
 - Excessive overall delay at all-way stop
 - Excessive side street delay at two-way stop
 - Crash problems/Safety concerns



Traffic Signal Warrants

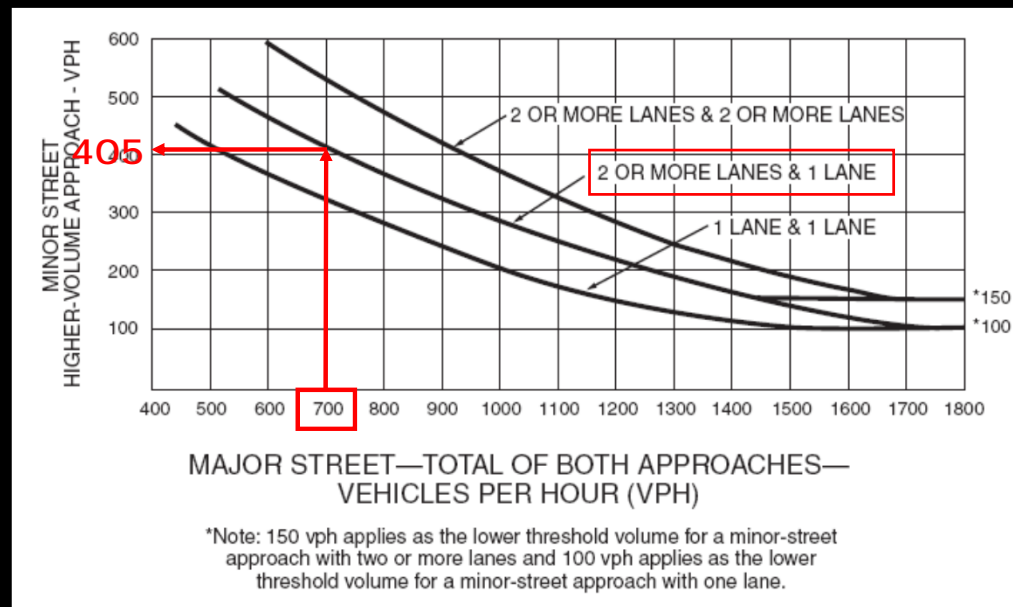
- Warrant 1 - Eight-Hour Vehicular Volume
- Warrant 2 - Four-Hour Vehicular Volume
- Warrant 3 - Peak Hour
- Warrant 4 - Pedestrian Volume (At least 93 pedestrians in peak hour)
- Warrant 5 - School Crossing
- Warrant 6 - Coordinated Signal System*
- Warrant 7 - Crash Experience (At least 5 correctable crashes in 12 months)
- Warrant 8 - Roadway Network (Two major streets)
- Warrant 9 - Intersection Near a Grade Crossing (Railroad Crossing)*

*Not commonly applicable



Warrant 3 – Peak Hour Warrant

Plotted point representing vehicles per hour (vph) on major street and vph on minor street for one hour falls above applicable curve



Current Status of Traffic Signal Warrants

Intersection	Warrant					Growth
	1	2	3	4	7	
Yuma Road and Canyon Trails Boulevard				N/A		0
Elliot Road and San Gabriel Drive						+
Estrella Parkway and Harrison Street				N/A		+
158th Avenue and Van Buren Street				N/A		+
Estrella Parkway and Romley Road				N/A		0
Bullard Avenue and Earll Drive				N/A		0
Estrella Parkway and Vineyard Avenue				N/A		0
135th Avenue and Thomas Road				N/A		0
152nd Drive and Van Buren Street				N/A		+

Note: Warrants 5, 6, 8, and 9 not shown because they are not applicable to intersections included on this table.



Meets traffic signal warrant

Meets at least half of warrant requirement

Meets less than half of warrant requirement

N/A Warrant not applicable due to intersection conditions

Warrant 1: Eight Hour Vehicular Volume

Warrant 2: Four-Hour Vehicular Volume

Warrant 3: Peak Hour

Warrant 4: Pedestrian Volume

Warrant 7: Crash Experience



Funding

- Currently no ongoing funding; projects are requested as warranted
- Recommend funding for three traffic signals in FY 16.
 - Yuma Road and Canyon Trails Boulevard
 - Elliot Road and San Gabriel Drive
 - Undetermined



Questions

