

Brockton Avenue Restriping Project -Update

Public Works Department

City Council Meeting December 6, 2016

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BACKGROUND

- 1. Land Use Committee project reviews:
 - A. Reviewed original proposal on 4/22/13 and requested traffic studies and collision data.
 - B. Reviewed study and collision data on 10/2/13 and recommended City Council approval.
- 2. City Council approved project on 10/22/13
- 3. Project was completed 11/14.



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PROJECT COMPONENTS

- 1. Reduced travel lanes from 4 to 2
- 2. Installed two-way left-turn lane
- 3. Installed Class II bike lanes
- 4. Allowed parking where widths permitted



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PROJECT COMPONENTS CONT

- 5. Utilized coordination and protected / permissive phasing to optimize traffic flow
- 6. Slurry sealed roadway
- 7. Provided infill and repair of sidewalk, curb and gutters



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PROJECT BENEFITS

- 1. Enhanced motorist safety by improving sight distance, discouraging speeding, and moving left-turns away from thru traffic.
- 2. Preserved emergency response times.
- 3. Improved pedestrian safety by minimizing exposure across travel lanes.
- 4. Increased cyclist use and safety by installing Class II bike lanes with buffers.



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ACHIEVED TOTAL COLLISION REDUCTIONS 100% 1. Hit Object & Overturned: 100% 2. Head-On, Other, Not Stated: 67% 3. Sideswipes: 50% 4. Broadsides: 15% 5. Pedestrian: 31% 6. Rear Ends: 67% 7. <u>Bicyclist Involved:</u> **Total Collisions:** 35% RiversideCa.gov

BROCKTON AVENUE PEDESTRIAN AND BICYCLIST ACTIVITY Day of the @ Bandini Avenue Date @ Terracina Drive Week # of # of # of # of Pedestrians Bicyclists Pedestrians Bicyclists 6/9/16 Thursday 81 112 37 57 6/11/16 Saturday 163 82 24 40 6/12/16 Sunday 113 112 42 22 RiversideCa.gov

NORTHBOUND SEGMENT: Regular RCC Session / Finals Week / Semester Break	7:30 am	10:00 am	1:00 pm	4:00 pm
Jurupa to Maplewood	0/0/0	0/0/0	0/0/0	0/0/0
Maplewood to Garden Home	0/0/0	0/0/0	0/1/0	0/0/0
Garden Home to Rosewood	1/1/0	2/1/0	0/0/0	0/0/0
Rosewood to Oakwood	3/2/0	0/2/0	1/0/0	1/0/1
Oakwood to Linwood	0/0/0	0/0/0	1/0/0	0/0/0
Linwood to Bandini	0/0/1	0/0/1	0/0/1	0/0/1
Bandini to Elmwood	0/0/1	0/0/0	0/0/0	0/0/0
Elmwood to Beechwood	1/2/1	1/2/1	0/2/1	0/2/1
Beechwood to Chapmar	0/0/0	0/1/0	0/0/0	0/0/0
Chapman to Larchwood	0/1/0	3/0/0	2/2/0	3/3/0
Larchwood to Ramona	2/3/0	2/2/0	2/1/0	3/2/0
Ramona to Terracina	9/7/0	26 / 15 / 0	17 / 22 / 0	18 / 12 / 0
Terracina to Rice	0/2/0	5/2/0	2/3/0	2/2/0
Rice to Tequesquite	1/0/0	8/o/o	4/2/0	4/3/0
Tequesquite to 14 th	3/4/3	7 / 11 / 6	7/12/7	3/5/3
Tota	20 / 22 / 6	54 / 36 / 8	36 / 45 / 9	34 / 29 / 6

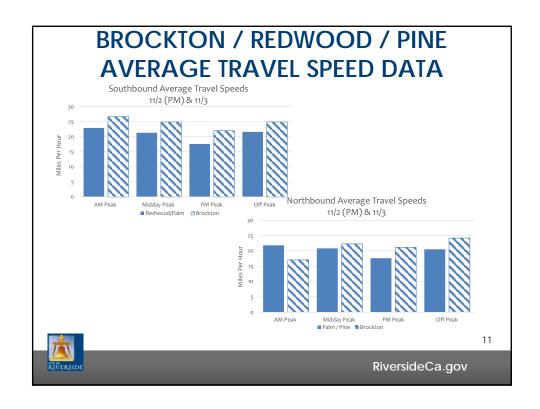
SOUTHBOUND SEGMENT: Regular RCC Session / Finals Week / Semester Break	7:30 am	10:00 am	1:00 pm	4:00 pm
14 th to Tequesquite	0/0/0	0/0/0	0/0/0	0/0/0
Tequesquite to Alta Vista	3/2/1	8/3/5	6/4/4	5/6/4
Alta Vista to Homewood	0/0/0	0/0/0	0/0/0	0/0/0
Homewood to Ramona	1/1/0	10 / 1 / 0	8/0/0	5/1/0
Ramona to Larchwood	0/0/1	2/0/1	1/0/1	1/1/1
Larchwood to Highland	0/0/0	0/0/0	0/0/0	0/0/0
Highland to Beechwood	0/0/0	0/0/0	0/0/0	0/0/0
Beechwood to Elmwood	0/0/0	0/0/0	0/0/0	0/0/0
Elmwood to Bandini	0/0/0	0/0/0	0/0/0	0/0/0
Bandini to Linwood	1/1/1	2/0/2	1/0/1	0/0/1
Linwood to Oakwood	0/1/1	0/0/0	0/1/0	0/0/1
Oakwood to Rosewood	3/3/2	3/2/2	4/2/2	2/2/2
Rosewood to Edgewood	1/2/1	1/1/1	1/2/0	1/3/1
Edgewood to Maplewood	2/2/3	2/3/3	1/2/3	1/2/1
Maplewood to Rubidoux	0/0/0	0/0/0	0/0/0	0/0/0
Rubidoux to Jurupa	0/0/0	0/0/0	0/0/0	0/0/0
Total	11 / 12 / 10	28 / 10 / 14	22 / 11 / 11	15 / 15 / 12

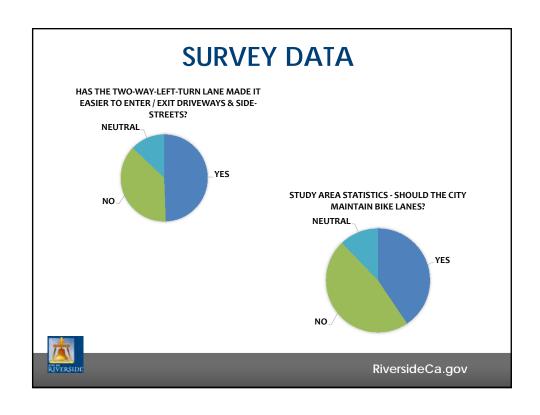
IMPACTS TO REDWOOD DRIVE

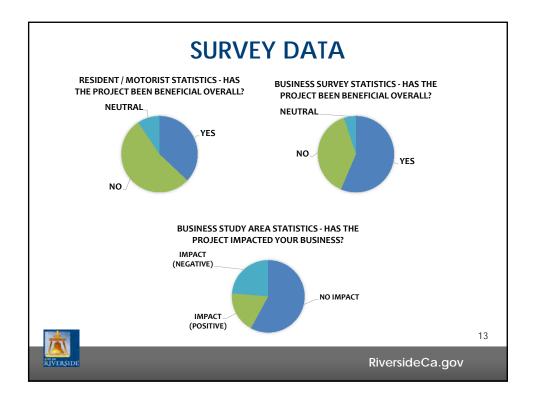
- 1. Initial 32% increase in traffic on Redwood after Brockton Ave. project completion
- 2. Subsequent 15% reduction in traffic on Redwood within the past 6 months
- 3. Fluctuations in traffic volumes may be attributed to events at Ryan Bonominio & Mt. Rubidoux Parks
- 4. Shorter travel times on Redwood may also encourage motorists to utilize this corridor

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PRELIMINARY FINDINGS

Brockton Restriping Project has resulted in:

- 1. 29% reduction in accidents
- 2. Slight reduction in 85th% speeds from 41 MPH to 38 MPH.
- 3. Increased traffic volumes on Brockton Ave suggesting that the new configuration is comfortable to motorists and operating at an acceptable level.



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CONTINUED STAFF MONITORING

Continued monitoring by Traffic Engineering staff to:

- 1. Assess the need for signal timing adjustments.
- 2. Determine if additional striping improvements are warranted.
- 3. Ensure optimal performance.
- 4. Maximize efficiency for all users.



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RECOMMENDATION

That City Council receive and file the post construction traffic study data.



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