

## Highway Safety Improvement Program Cycle VII Grant

Public Works Department

**City Council**  
**February 27, 2018**

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### BACKGROUND

1. In April 2015, the Public Works Department submitted a Highway Safety Improvement Program (HSIP) grant application seeking funding for signal timing, pedestrian HAWK signal, and High Friction Surface Treatment improvements
2. In December 2015, the City was awarded grant funding in the amount of \$1,098,030 for the project
3. Local matching funds of \$193,770 were committed



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## PROJECT COMPONENTS

1. Signal timing project in the Downtown area bounded by Fourteenth, Third, Market and Lime Streets
2. Installation of High Intensity Activated Crosswalk (HAWK) Pedestrian Signal Systems at 2 high pedestrian activity intersections
3. Installation of the City's first High Friction Surface Treatments on select arterial roadways



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## SIGNAL TIMING COMPONENT





1. Adds new traffic signal controllers and CCTV cameras at select Downtown locations
2. Provides a single grid coordination system within the core Downtown
3. Seeks to reduce traffic collisions
4. Aids in optimizing traffic flow

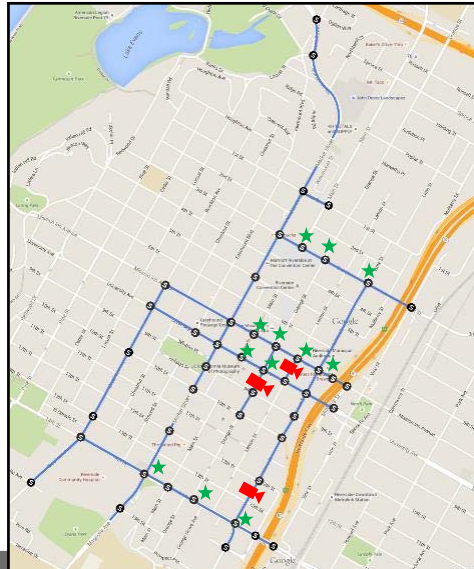


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## DOWNTOWN SIGNAL TIMING COMPONENT MAP

-  New CCTV Location
-  New Signal Controller
-  Signalized Locations
-  Coordinated Roadway



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## HAWK / PEDESTRIAN SIGNAL COMPONENT

1. Installs HAWK Pedestrian Signal Systems at:
  - a. Madison Street at Emerald Street; and
  - b. Lincoln Avenue at Grace Street
2. Improves pedestrian safety
3. Heightens driver awareness
4. Increases motorist stop/yield compliance



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## HAWK / PEDESTRIAN SIGNAL IMAGE



MAGNOLIA AVE. AT FARNHAM PL.



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## HAWK PEDESTRIAN SIGNAL COMPONENT MAP

★ HAWK / Pedestrian  
Signal System Improvement  
Locations



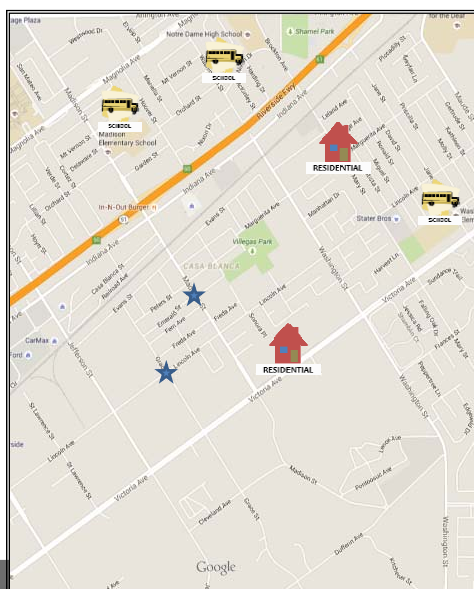
SCHOOL  
PUBLIC

Nearby Public  
School Locations



RESIDENTIAL

Nearby  
Residential  
Communities



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## HIGH FRICTION SURFACE TREATMENT COMPONENT

1. Installs the City's first High Friction Surface Treatments at:
  - a. Alessandro Boulevard at Glenhaven Avenue;
  - b. Arlington Avenue at Hawarden Drive;
  - c. Arlington Avenue between Stover and Jones Avenues;
  - d. Central Avenue at Fairview Avenue; and
  - e. Riverwalk Parkway between Collett Avenue and Pierce Street
2. Seeks to reduce traffic collisions on streets experiencing accidents involving vehicles navigating curves



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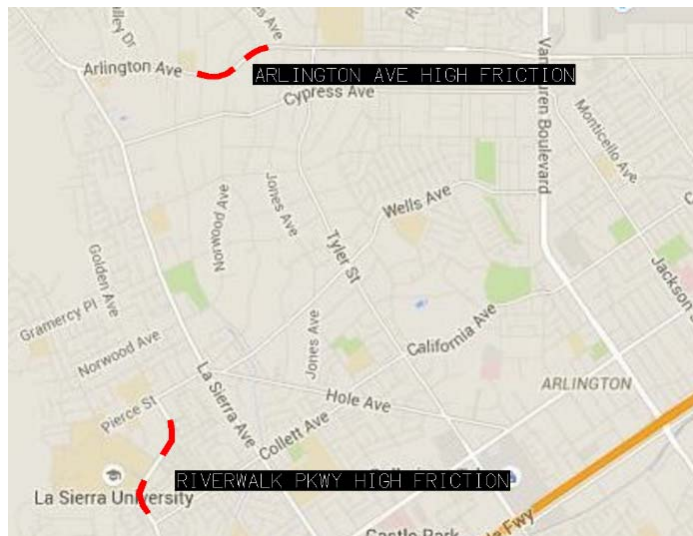
## HIGH FRICTION SURFACE TREATMENT SAMPLE PROJECT EXHIBIT



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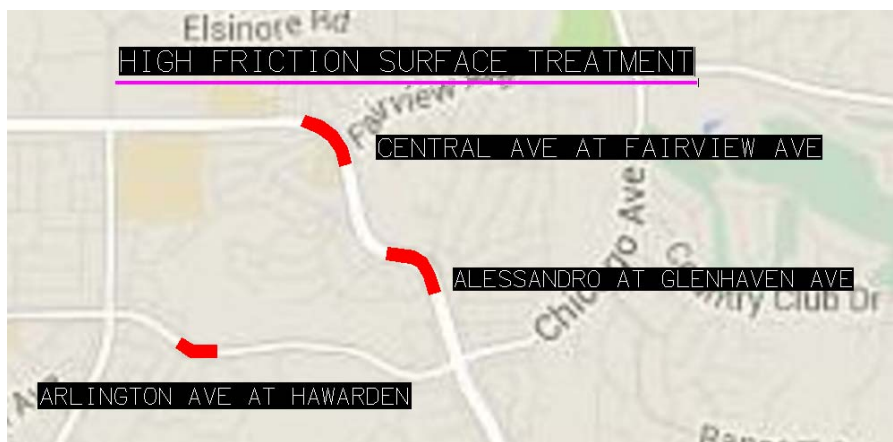
## HIGH FRICTION SURFACE TREATMENT COMPONENT MAPS



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## HIGH FRICTION SURFACE TREATMENT COMPONENT MAPS



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## LOCAL MATCHING FUNDS

1. Local matching funds committed total \$193,770
2. Funds have been identified and are available in Account #9893630-440313 High Friction Surface/HAWK Signals (Measure A)



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## RECOMMENDATIONS

That the City Council accept grant funds in the amount of \$1,098,030 from the Highway Safety Improvement Program Cycle VII for implementation of the selected High Friction Surface Treatment and High-Intensity Activated Crosswalk signal improvements and new signal timing plans for thirty-five traffic signals Downtown project.



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