

CITY OF GLENDALE, CA

*November 21, 2013*



**GLENDALE AVENUE**

*WASTEWATER CAPACITY AND STREET IMPROVEMENT PROJECT*

# GLENDALE AVENUE

WASTEWATER CAPACITY AND STREET IMPROVEMENT PROJECT



Concrete Improvements

Sewer Main Pipe Improvements

Street Pavement Rehabilitation

Traffic Signal Modifications

Signing and Striping

Construction Phasing/Scheduling

Public Notification Process

# LOCATION MAP



## LEGEND

- CITY BOUNDARY
- STREET IMPROVEMENTS
- SEWER MAIN PIPE IMPROVEMENTS

# GLENDALE AVENUE

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ANTICIPATED CONSTRUCTION START DATE:

*May 2014*

PROJECT DURATION:

*140 Working Days*

*barring any unforeseen conditions*

# RESOURCEFUL FACTS



- R&R (Remove & Replace)
- ARHM (Asphalt Rubber Hot Mix)
- AC (Asphalt Concrete)
- CIR (Cold-in-Place Recycling)
- ADA (Americans with Disabilities Act)

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## CONCRETE IMPROVEMENTS

### Selective R&R of Uplifted and Damaged:

- Sidewalks
- Curb Ramps
- Driveway Aprons
- Curb/Gutter
- Bus Pads
- Upgrade Curb Ramps with ADA Compliance





# SEWER MAIN PIPE IMPROVEMENTS

# GLENDALE AVENUE

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## SEWER MAIN PIPE IMPROVEMENTS

### A. Pipe Upgrade/Replacement in Glendale Ave (Maple St. to Chevy Chase Dr.)

- *Remove Existing Sewer Pipe and Replace with New Larger Pipe at Same Location*
- *Open Trench/ Occupy 2 Lanes During Construction*



### B. Point Repair (Glendale Ave and Side Streets)

- *Repair of Damaged/Cracked Pipes at Various Locations*
- *2-3 Day Work at Specific Locations*
- *Working Hours: 9am – 3pm*



## STREET PAVEMENT REHABILITATION

- Pavement Grinding
- Cold-in-Place Recycling of Existing Pavement
- Rubberized Pavement Overlay (Wearing Surface)

(The Road to Smart Solutions)

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## PAVEMENT GRINDING (AKA Cold Mill/ Surface Plane)

### Remove Existing Deteriorated AC Pavement

- *Grinds will be Hauled Away and Recycled*
- *Full Lane Grinding*
- *Eco Friendly/ No Heat*
- *Can Drive on Immediately Upon Completion*



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## COLD-IN-PLACE RECYCLING OF EXISTING AC PAVEMENT

**Method Used to Rehabilitate the Existing Aging Pavement**

**Without Removing the Pavement From the Site**

- *All-In-One Continuous Process (Grind the Existing Pavement, Crush AC, Add Binding Components, Produce and Lay Recycled Pavement)*
- *Partial Street Closure*
- *On Going Traffic in Adjacent Lane*
- *Eco Friendly, No Heat/ Noxious Flume*
- *Reduce Traffic on Streets/Freeways*
- *Cost Half of Traditional Pavement R&R*

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## COLD-IN-PLACE RECYCLING OF EXISTING AC PAVEMENT



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## RUBBERIZED (ARHM) PAVEMENT OVERLAY

### Improves the Ride and Structural Integrity of the Roadway

- *Place 1.5" ARHM Overlay Over Base Pavement (Recycled Base)*
- *Compact Newly Placed Pavement*
- *Hot Mix Application*
- *Eco Friendly (Uses Tires)*
- *Begins NEW Service Life for Pavement*
- *Quieter and Smoother Ride*
- *Better Road Friction*





# TRAFFIC SIGNAL MODIFICATIONS

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## TRAFFIC SIGNAL MODIFICATIONS

### A. Relocate Existing Signals

### B. Remove Existing Signals and Install New Signals to Comply with

#### New CALTRANS Standards

- *Upgraded Signal and Pedestrian Indications*
- *New Safety Lighting at the Intersection to Improve Visibility*
- *Video Detection System to Detect Vehicles and Bicyclists*
- *New LED Street Name Signs*



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## C. Rectangular Rapid Flashing Beacons (RRFB)

- *Reduce Crashes between Vehicles and Pedestrians at Unsignalized Intersections and Mid-blocks*
- *Shown to Increase Driver Yielding Behavior at Crosswalks*
- *Lower Cost Alternative to Traffic Signals*





# LOCATION MAP

(Traffic Signal and Flashing Beacon Locations)



**LEGEND**

- CITY BOUNDARY
- STREET IMPROVEMENTS
- SEWER MAIN PIPE IMPROVEMENTS

<span style="border: 1px solid red; border-radius: 50%; padding: 2px 5px;">TS</span>	TRAFFIC SIGNAL
<span style="border: 1px solid blue; border-radius: 50%; padding: 2px 5px;">FB</span>	FLASHING BEACON

# SIGNING AND STRIPING

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## SIGNING AND STRIPING

### Install New Signing and Striping to Comply with New CALTRANS Standards

- *New Pavement Markings, Lane Lines, Curb Markings, Retro-reflective Pavement Markings*
- *Installation of Yield Markings at Unprotected Crosswalk Approach*
- *Installation of New Fluorescent and High Intensity Paint Signing for Improved Visibility*



# CONSTRUCTION PHASING

# GLENDALE AVENUE

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## ANTICIPATED CONSTRUCTION PHASING

**Phase 1a:** *Sewer Improvements*

**Phase 1b:** *Traffic Signal Modifications*

**Phase 1c:** *Concrete R&R*

*Phase 1a, 1b and 1c Will Not Occur Simultaneously within Several Blocks of Each Work*

**Phase 2:** *Pavement Grinding/ Recycled Pavement Installation/  
Rubberized Pavement Overlay*

**Phase 3:** *Utility Covers Adjustment to Finished Grade*

**Phase 4:** *Striping and Pavement Markings, Sign Installation*

**CONSTRUCTION WORK WILL BE COORDINATED TO MINIMIZE IMPACT  
TO LOCAL BUSINESSES & TRAFFIC**

# Public Notification Process

Community Meeting

Director of Public Works Letter

Contractor's Notification Letter  
(1-2 weeks prior)

Project Signs

3 Day Door Hanger  
(Grinding/Paving)

Driveway Closures

Website Updates

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*For questions or general information, please contact:*

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**:::THANK YOU:::**

**Public Works' Website:** [http://www.ci.glendale.ca.us/public\\_works](http://www.ci.glendale.ca.us/public_works)