# CITY OF GLENDALE, CA

November 21, 2013





# **GLENDALE AVENUE**

WASTEWATER CAPACITY AND STREET IMPROVEMENT PROJECT



#### WASTEWATER CAPACITY AND STREET IMPROVEMENT PROJECT

Concrete Improvements

Sewer Main Pipe Improvements

Street Pavement Rehabilitation

**Traffic Signal Modifications** 

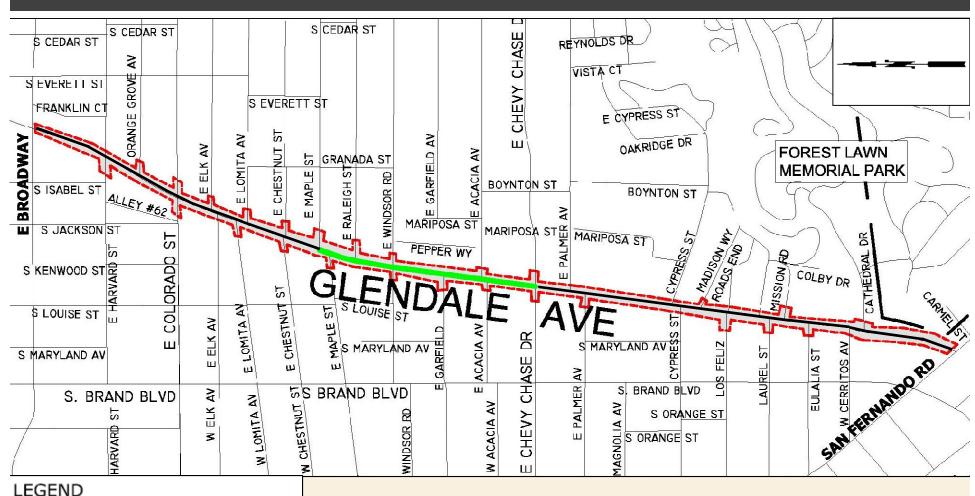
Signing and Striping

Construction Phasing/Scheduling

**Public Notification Process** 

# **LOCATION MAP**





# CITY BOUNDARY STREET IMPROVEMENTS SEWER MAIN PIPE IMPROVEMENTS



WASTEWATER CAPACITY AND STREET IMPROVEMENT PROJECT

#### **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)





#### **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**





#### SEWER MAIN PIPE IMPROVEMENTS

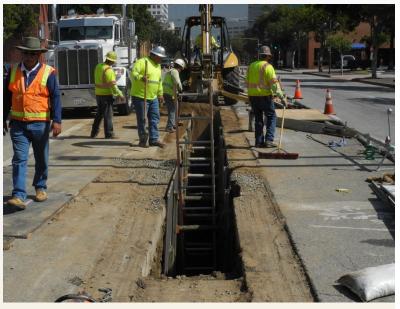
A. Pipe Upgrade/Replacement in Glendale Ave

(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)





# 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





WASTEWATER CAPACITY AND STREET IMPROVEMENT PROJECT

#### 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





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







#### **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 <u>NEW</u> Service Life for Pavement
- Quieter and Smoother Ride
- Better Road Friction





# TRAFFIC SIGNAL MODIFICATIONS





#### 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





WASTEWATER CAPACITY AND STREET IMPROVEMENT PROJECT

#### C. Rectangular Rapid Flashing Beacons (RRFB)

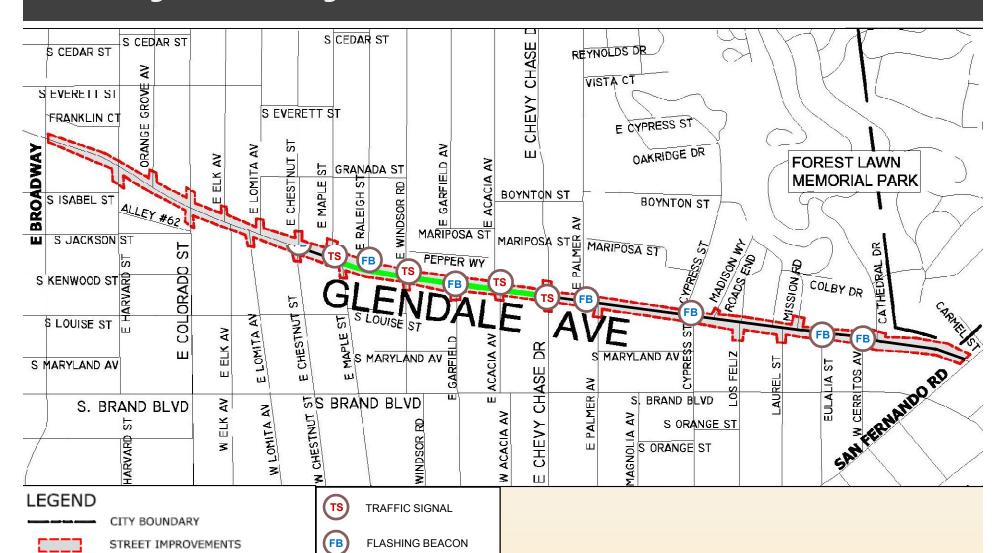
- Reduce Crashes between Vehicles and Pedestrians at Unsignalized Intersections and Mid-blocks
- Shown to Increase Driver Yielding Behavior at Crosswalks
- Lower Cost Alternative to Traffic Signals



# **LOCATION MAP**

SEWER MAIN PIPE IMPROVEMENTS

(Traffic Signal and Flashing Beacon Locations)





# SIGNING AND STRIPING





#### 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**



WASTEWATER CAPACITY AND STREET IMPROVEMENT PROJECT

#### 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

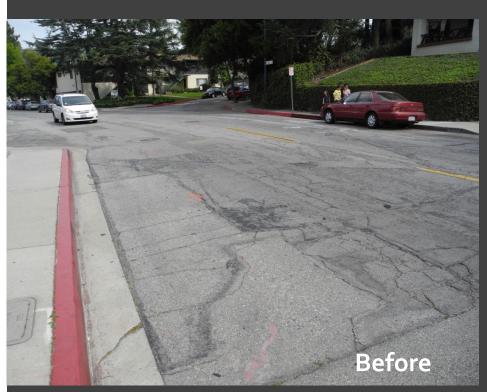
(1 2 weeks prior) Project Signs 3 Day Door Hanger (Grinding/ Paving)

**Driveway Closures** 

Website Updates









For questions or general information, please contact:

Jasmina Zigic, P.E.

Yvonne Guerra

Project Manager

Community Outreach

::THANKYOU::

(818) 548-3945

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Public Works' Website: <a href="http://www.ci.glendale.ca.us/public works">http://www.ci.glendale.ca.us/public works</a>