GLENDALE BL – HYPERION AVE COMPLEX OF BRIDGES IMPROVEMENT PROJECT

Project Elements

• Structural Upgrade of 5 Bridges along Glendale-Hyperion Corridor
  • Seismic retrofit & widening
• Historic Preservation and Reservation
  • Balustrades, street lights, & Red Car mural
• Traffic Safety and Efficiency Improvement
  • Hyperion Ave reconfiguration; Glendale Blvd NB & SB widening
  • Realignment of I-5 NB off ramp
• River Revitalization: Access and Water Quality Improvement
  • Phase I - Red Car Pedestrian Bridge over LA River
  • LA River Bike Path access ramp
  • Biofiltration basin and bioswale
GLENDALE BL – HYPERION AVE COMPLEX OF BRIDGES IMPROVEMENT PROJECT
GLENDALE BL – HYPERION AVE COMPLEX OF BRIDGES IMPROVEMENT PROJECT
Structural Upgrade
GLENDALE BL – HYPERION AVE COMPLEX OF BRIDGES IMPROVEMENT PROJECT

Historic Restoration

1929 Balustrades

Red Car Mural

Proposed Balustrades
GLENDALE BL – HYPERION AVE COMPLEX OF BRIDGES IMPROVEMENT PROJECT
Traffic Safety & Efficiency Improvement

Hyperion Ave – 4 Vehicular Lanes, 2 Striped Bike Lanes & ADA-Compliant Sidewalk

Glendale Blvd NB & SB – 2 Vehicular Lanes, Shoulder & ADA-Compliant Sidewalk
GLENDALE BL – HYPERION AVE COMPLEX OF BRIDGES IMPROVEMENT PROJECT

Proposed Barriers adjacent to Historic Replica Rail

BARRIER ELEVATION FROM ON BRIDGE
1" = 1'

BARRIER ELEVATION FROM OUTSIDE OF BRIDGE
1" = 1'
GLENDALE BL – HYPERION AVE COMPLEX OF BRIDGES IMPROVEMENT PROJECT

Proposed Realigned I-5 Northbound Off Ramp & LA River Bike Path Access Ramp
GLENDALE BL – HYPERION AVE COMPLEX OF BRIDGES IMPROVEMENT PROJECT

Phase I – Red Car Pedestrian Bridge over LA River
GLENDALE BL – HYPERION AVE COMPLEX OF BRIDGES IMPROVEMENT PROJECT

Proposed Biofiltration Basin and Bioswale

Proposed Biofiltration Basin

Proposed Bioswale
GLENDALE BL – HYPERION AVE COMPLEX OF BRIDGES IMPROVEMENT PROJECT

Focus on the Overall Project

- Estimated at $62 M total project cost, this project is predominantly funded by the Federal Highway Bridge Program, State Proposition 1B, and Metro Call for Projects.

- Many years of collaboration with Caltrans/FHWA, along with support of elected officials and community groups, to receive funding on the following components that are typically not part of a bridge improvement:
  
  - I-5 Off ramp realignment
  - Bike access from NB Glendale Blvd to LA River Bike Path
  - Red Car Pedestrian Bridge over the LA River
  - Biofiltration basin and bioswale

- The above components of this project embody the vision and goals of the LA River Revitalization Master Plan.
End of Presentation
In service of highlighting the ongoing revitalization effort, this proposal illustrates two artwork concepts that will activate forthcoming points of interest along the L.A. River. These concepts are creative elaborations of local artist Patrick Shearn’s sensational temporary installation, “Liquid Shard,” (2016) which bears mythic status in L.A. public art consciousness.

Skynets, as these works have come to be known, add bold and surprising, kinetic design to urban environments, but their function is more than aesthetic—these artworks invariably create a unique sense of place, encouraging diverse visitors to marvel, engage and play nearby.

Skynets create ample shade. The motion of the artwork has a calming effect similar to bodies of water, undulating and swaying naturalistically in the breeze. Skynets appear to hang in thin air, inspiring curiosity and a sense of magical possibility. In these ways, the following proposal offers each site in question an awe-inspiring intervention—one that beautifies space, encourages community gathering, evokes nature and celebrates wonder and creativity.
Work Example: "Liquid Shard," 2016. Los Angeles, CA
Skynet Concept Imagery, Griffith Park, Los Angeles, CA
Concept Imagery: Griffith Park Equestrian Bridge, Los Angeles, CA
Skynet Concept Imagery: Cheonggyecheon River, Seoul, Korea
CREATIVE STRATEGY AND DESIGN

MATERIALS SHEET: Art Components

Nylon Monofilament Netting
#30 3.5” Monofilament net
Breaking Strength: 54 lbs
www.memphisnet.net

Fabric Streamers
Skynets are composed of fabric streamers of various lengths and materials according to the unique creative design of each artwork.

Super Bond Adhesive Tape
- Polyester backing offers abrasion, chemical and thermal resistance
- Rubber resin adhesive provides aggressive grab to irregular surfaces
- Ideal for use on polyethylene and other low surface energy materials
- Good temperature resistance from 40°F to 200°F
www.3m.com
CREATIVE STRATEGY AND DESIGN
MATERIALS SHEET: Rigging Components

Dyneema Rope
FIBER(CORE COVER): DYNEEMA®
Avg. Strength: 1600# - 148,000#, varies by diameter
www.samsonrope.com

Shackles
Rated rigging hardware.
Safe working loads:
1/2 ton - 55 tons
www.versales.com

Spansets
A polyester sling used in many rigging applications.
Rated Capacity:
Choker: 4,200 lbs
Vertical: 5,300 lbs
Basket: 10,600 lbs
www.spanset.com
Thank you

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LOS ANGELES RIVER WAY-SAN FERNANDO VALLEY COMPLETION

July 09, 2018

Presented by:
Nur Malhis, P.E.
Architectural Division
LA River Way-San Fernando Valley Completion
Complete Project Scope

**Scope:** Design and Construct approximately 13 miles of new bike path and greenway facilities along the LA River in San Fernando Valley (SFV), which complement projects that have already been built or are underway by closing critical gaps in the public transportation system.

<table>
<thead>
<tr>
<th>Type</th>
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<td>Total in SFV</td>
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LA River Way - San Fernando Valley Completion
Overall Project Map

TAMPA
RESEDA
WHITE OAK
BALBOA
SEPULVEDA
VAN NUYS
WOODMAN
COLDWATER CANYON
WHITSETT
LANKERSHIM
BARHAM
FOREST LAWN

START
IN DESIGN
EXISTING
EXISTING
EXISTING
IN DESIGN
IN DESIGN OR CONSTRUCTED SEGMENTS
LA RIVER VALLEY BIKEWAYS AND GREENWAYS
DESIGN COMPLETION PROJECT

END
LA River Way - San Fernando Valley Completion
Segments Along Valley - Existing and In Construction

Existing
West Valley – Tampa to Corbin

Existing
Winnetka Undercrossing

Existing
Mid Valley – Coldwater Canyon to Whitsett
LA River Way-San Fernando Valley Completion
Renderings of Overcrossings and Tunnels

Conceptual Overcrossing

Conceptual Tunnel
LA River Way-San Fernando Valley Completion
Conceptual Cross Sections –Various Locations

Components: Bike /Ped Path, Wayfinding Signage, Bioswales, Integrated Seating, Habitat Refuge, Pollinator Landscape, Plant Pallete
LA River Way-San Fernando Valley Completion Feasibility Study Phase -Community & Advisory Meetings

- **Advisory Stakeholder Committee**
  - Meeting Set 1: West Valley (11/30/16) ; East Valley (11/30/16)
  - Meeting Set 2: West Valley (07/26/17) ; East Valley (08/02/17)

- **Technical Advisory Committee**
  - Meeting No. 1: 11/16/16
  - Meeting No. 2: 04/19/18

- **River Cooperation Committee**
  - Meeting No. 1: 07/11/16
  - Meeting No. 2: 01/09/17
  - Meeting No. 3: 07/09/18

- **Community**
  - Meeting Set 1: West Valley (12/06/16) ; East Valley (12/13/16)
  - Meeting Set 2: West Valley (10/12/17) ; East Valley (10/17/17)
LA River Way-San Fernando Valley Completion Project Schedule

Feasibility Study Phase: Completed in Fall of 2017

Design Phase: Design of the segments between Vanalden Ave to Balboa Blvd, a total of approximately 3 miles, has began in June 2018.

Active Transportation Program (ATP): The project is currently applying through the ATP to fund the construction for this stretch. The purpose of ATP is to increase use of active modes of transportation through various means.

Segment 1 and 2 (Vanalden Ave to Balboa Blvd) – Appx 3.0 Miles

Design: 7/01/2018 – 6/30/2021 (3 years)*
Bid and Award: 07/01/2021 - 12/30/2021 (6 months)
Construction: 01/01/2022 - 06/30/2025 (3.5 years)

*Long Duration Due to Federal Agency Approvals and Processes
On-Street Bike Sharrows: Seg 04, (partial), 06, 07 (partial), 08 (partial)

Utilize existing Bike Lanes/Multi Use Path: Seg 03, 04, 09

Bikeway bioswale

At-Grade crossings primarily

Overcrossings: Seg 05

Undercrossings: Seg 02, 08

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**TOTAL PROJECT COST $ 132M**

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Street Crossings

- At-Grade Crossing: 18
- Under Crossing: 2
- Over Crossing: 1

River Crossings

- On-Street: 2
- Existing Ped Bridge: 1
- New Bridge: 2
BASE OPTION -1

BIKEWAY/ PED PATH ONLY/ NO GREENWAY/ UTILIZE EXISTING BIKE FACILITIES/ AT-GRADE CROSSINGS/ SHARROWS

$50,500,500 Total Direct Costs

$12,600,000 25% Design Contingency

$63,100,000 $12,600,000

$15,800,000 25% General Conditions/ Insurance/ Bonds

$78,900,000 $15,800,000

$11,800,000 15% Escalation

$90,700,000 Estimated Construction Award

$13,600,000 15% Design and Engineering Fees

$13,600,000 $13,600,000

$13,600,000 15% Project and Construction Management, Art Fees, Permits, Testing and Inspections

$13,600,000 $13,600,000

$13,600,000 15% Project and Change Order Contingency

$131,500,000 Total Project Costs
BASE OPTION: 2

BIKEWAY/PED PATH / GREENWAY/ UTILIZE EXISTING BIKE FACILITIES/ AT-GRADE CROSSINGS/ SHARROWS

- On-Street Bike Sharrows: Seg 04, (partial), 06, 07 (partial), 08 (partial)
- Utilize existing Bike Lanes/Multi Use Path: Seg 03, 04, 09
- Bikeway bioswale
- At-Grade crossings primarily
  - Overcrossings: Seg 05
  - Undercrossings: Seg 02, 08

Total Miles ~15.0

TOTAL PROJECT COST $ 144M

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- Existing Bike Facility
- Existing Bike Facility (project connectivity)
- On-Street Bikeway
- Bikeway / Pedestrian Path / Greenway

Street Crossings
- 18 At-Grade Crossing
- 2 Under Crossing
- 1 Over Crossing

River Crossings
- 2 On-Street
- 1 Existing Ped Bridge
- 2 New Bridge
**BASE OPTION 3**

**EXISTING BIKE FACILITIES / AT-GRADE CROSSINGS AND UNDERCROSSINGS / SHARROWS**

- On-Street Bike Sharrows: Seg 04, (partial), 06, 07 (partial), 08 (partial)
- Utilize existing Bike Lanes/Multi Use Path: Seg 03, 04, 09
- Bikeway bioswale
- At-Grade crossings primarily
  - Undercrossings: Seg 01, 02, 08
  - Overcrossings: Seg 05

Total Miles ~ 15.0

**TOTAL PROJECT COST $ 166M**

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**Street Crossings**

- At-Grade Crossing: 13
- Under Crossing: 7
- Over Crossing: 1

**River Crossings**

- On-Street: 2
- Existing Ped Bridge: 1
- New Bridge: 1
BASE/ADDED INVESTMENT OPTION

BIKEWAY/PED PATH / GREENWAY/
UTILIZE EXISTING BIKE FACILITIES/ AT-GRADE CROSSINGS

- On-Street Bike Sharrows: Seg 04 (partial)
- Utilize existing Bike Lanes/Multi Use Path: Seg 03, 04 (partial), 09 (partial)
- Bikeway bioswale
- At-Grade crossings primarily
  Undercrossings: Seg 01, 02, 08
  Overcrossing: Seg 05

Total Miles ~ 15.0

TOTAL PROJECT COST $ 202M

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Street Crossings
- At-Grade Crossing: 13
- Under Crossing: 6
- Over Crossing: 1

River Crossings
- On-Street: 1
- Existing Ped Bridge: 1
- New Bridge: 4

---

Existing Bike Facility
- Existing Bike Facility (project connectivity)
- On-Street Bikeway
- Bikeway/ Pedestrian Path/Greenway
FULL BUILD-OUT OPTION

BIKEWAY/PED PATH/GREENWAY/MAJORITY SEPARATED GRADE CROSSINGS /POCKET PARKS/ ONE FREEWAY CROSSING

- Separated Bikeway, Pedestrian Path, Greenway
- Strategic Over/Undercrossings
- Full Build-out River Parks
- Stormwater BMP: Parks and Greenway
- Only 101 Fwy Tunnel

Total Miles = 17.6

TOTAL PROJECT COST $ 425M

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Street Crossings

- 6 At-Grade Crossing
- 14 Under Crossing
- 2 Over Crossing

River Crossings

- 1 On-Street
- 0 Existing Ped Bridge
- 5 New Bridge

River Park/BMP

- 3 River Park (no BMP)
- 11 River Park (Street End/BMP)
THANK YOU!
The Los Angeles River & Verdugo Wash Confluence Feasibility Study
Planning team includes Estolano Lesar Advisors & Studio MLA.

Project will explore opportunities to marry existing land uses with the proposed river revitalization while equitably working with stakeholders and vital job providers.

Propose transitional ‘green jobs zone’ to augment existing City and County plans for the Confluence.
The Los Angeles River & Verdugo Wash Confluence Feasibility Study

The project will include:

• Current land uses and the environmental condition of those sites;
• Opportunities for and barriers to sustainable and equitable revitalization;
• Future scenarios inclusive of the existing businesses that will be most impacted by existing plans;
• Research and coordination of existing projects & plans;
• Business involvement to identify needs and priorities;
• Strategic recommendations including phasing strategies of future scenarios.
Area & Project Plans

- Los Angeles General Plan: Northeast LA Community Plan
- LA River Revitalization Master Plan (LARRMP)
- ARBOR Study
- Northeast Los Angeles Riverfront District Vision Plan & Economic Development Implementation Strategy (NELA Vision Plan)
- Sustainable City pLAn (City of Los Angeles)
- Equitable Redevelopment for the Los Angeles River: LA River Equity Principles
- Mobility Plan 2035 (City of Los Angeles)
- Bicycle Transportation Plan (City of Glendale)
- Doran Street At-Grade Separation Project
- The Glendale Narrows River Project
- California High Speed Rail
Opportunities & Constraints

The Project Area is within 1/2 mile of 9 Groundwater Cleanup sites. The cleanup percentile of the Project Area is higher than 93% of the rest of California.

What are Groundwater Threats?
Hazardous chemicals are often stored in containers on land or in underground storage tanks. Leaks from tanks can contaminate soil and groundwater. Common pollutants include gasoline, diesel fuel, solvents, heavy metals and pesticides. Leaking tanks can affect drinking water and expose people to contaminated soil and air. (source: CalEnvironScreen 3.0, 2018).

Impairments to Surface Waters
Both the LA River and Verdugo Wash waterways adjacent to the site are considered impaired under the EPA’s Clean Water Act. Pollutants contributing to the impairment of these waterways include but are not limited to ammonia, copper, lead, coliforms, algae, and trash.

Impervious Surface on the Study Area
There are 95% impervious surfaces. This exceptionally high level of impervious surfaces contribute poor stormwater quality.
Opportunities & Constraints

**AIR QUALITY**

### Issues & Constraints

**PM2.5 in Context to Study Area (CalEnvironScreen 3.0)**

- **PM2.5 Levels:** Levels within the Study Area are higher than 84% of the rest of California.

**What is PM2.5?**

Particulate matter of PM2.5 is very small airborne pollution that is composed of chemicals, dust, soot and metals. PM2.5 comes from cars and trucks, factories, wood burning, and other activities. It can cause serious health problems including heart and lung disease (source: CalEnvironScreen 3.0, 2018).

**Southern California Basin Inversion Layer**

Condition of Southern California topography and weather patterns that traps pollutants.

**Urban Heat Island Effect**

Warmer urban temperatures directly increase rate of ground level ozone formation.

### Opportunities

**AIR QUALITY IMPROVEMENT & HEAT ISLAND REDUCTION OPPORTUNITIES**

- Trees sequester carbon and filter air pollutants.
  - Increase tree canopy to improve air quality and provide shade:
    - Add street trees
    - Add parking lot trees
  - Add green or reflective ground and roof surfaces to reduce urban heat island.

- **Tree Canopy**
  - Reflects 20%
  - Reflects 80%

- **Reflective Roofs & Pavement**

---

Estolano LeSar
ADVISORS

STUDIO
MLA

THE TRUST FOR PUBLIC LAND
**Connectivity, Access, & Safety**

**Issues & Constraints**

**Issues and Constraints Map**

**Issues**
- Rail, river, and freeway make access difficult and confusing.
- Lack of pedestrian and bicycle infrastructure.
- Poor visibility and wayfinding.
- Poor maintenance of vehicle infrastructure.

**Opportunities**

**Opportunities Map**

**Opportunities**
- **Opportunity to improve pedestrian & bike infrastructure:**
  - Add and improve sidewalks
  - Open & improve trail spurs to access river path
  - Connect to bike routes
  - Add crosswalks & ADA ramps
  - Add directional signage
  - Improve visibility
  - Improve comfort with shade

**Improve vehicular infrastructure:**
- Re-paving & striping
- Delineate vehicle access & space

---

**Opportunities & Constraints**

---

**Estolano LeSar ADVISORS**

**STUDIO MLA**

**THE TRUST FOR PUBLIC LAND**
Stakeholder Engagement

- Atwater Village Neighborhood Council
- City of Glendale
- County of Los Angeles, DPW
- FOLAR
- High Speed Rail
- LARiverworks
- LA Sanitation
- Los Angeles City Council District 13
- Metro
- MRCA
- Urban Waters Federal Partnership
- Walk Bike Glendale
Business Engagement

Approximately 30 businesses

Clusters:
- Construction Materials
- Film & Media
- Automotive Repair
- Metals & Recycling
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Thank you!