I-710 Freeway Corridor
Urban Design Concepts
*Bridges/Freight Corridor*

Concepts in process (subject to change)

June 10, 2010
Earlier Discussions with Working Group

• **Initial Alternative Themes**
  - Conventional Treatments with LA River Theme
  - Eco / High Technology Concept
  - Contemporary Art Concepts

• **Design Principles**
  - Overall Theme
  - Sustainability
  - Sound Walls and Privacy Walls
  - Greening/Landscaping
  - Artistic Treatments
  - Connectivity with Communities
  - Freight Corridor
  - Bridges
Freight Corridor: Design Principles

- Design railings, sound walls and structures to reduce apparent massing as viewed from the community
  - Thin cantilevered sections of viaducts
  - Curved sound walls and/or walls with varied shadow patterns
  - Perforated or translucent screen walls
  - Light colors and materials that blend with the sky

- Graceful structural elements

- LED and colored lighting as accents

- Integrate with the L.A. River
  - Use of green-screen at columns and at some interchanges
Freight Corridor - Conventional Masonry Wall Alternative

Proposed Sound Wall

With color and texture enhancements
Freight Corridor - Conventional Masonry Wall Alternative

With color and texture enhancements
Freight Corridor - Conventional Masonry Wall Alternative
Freight Corridor - Conventional Masonry Wall Alternative
Freight Corridor - Curved Wall High-Tech Alternative

Metal or precast concrete panels
Freight Corridor - Curved Wall High-Tech Alternative
Freight Corridor - Curved Wall High-Tech Alternative
Freight Corridor - International Examples

A2 Sound Barrier, Bellinzona, Switzerland
Freight Corridor - Switchover Gateway (Opportunity for Solar)
Freight Corridor - Switchover Gateway
Freight Corridor - Curved Wall High-Tech Alternative

Proposed Sound Wall

Proposed Screen Wall
Freight Corridor - Curved Wall High-Tech Alternative

East elevation with green screen

West elevation with green screen
Freight Corridor - Solar Power Opportunity

NW corner of the Intersection of I-5 and I-205, Oregon

A12 Utrecht, the Netherlands

A13 Domat, Switzerland
Freight Corridor - LED Art Lighting

Hume Freeway, Melbourne, Australia
Freight Corridor - At L.A. River Interface

- Proposed Sound Wall
- Proposed Green Screen
Freight Corridor - At L.A. River Interface

Section at Gordon St.

Section at Carson St.
Artistic Treatments at Bridges: Design Principles

- In scale with the speed of the freeway
- Large-scale contemporary art work at select locations
- On/off ramps sound walls could differentiate an adjoining community
- Recycled material art and other public art representing communities on arterial crossings
- Renewable energy as sculptural elements and providing energy for LED lighting
Single Point Urban Interchange

Landscape

Potential Water Infiltration / Retention Areas
Bridges - High Technology / Renewable Energy Concept A

- Woven wire mesh guardrail
- Micro wind turbine
- Galvanized steel frame
- LED light fixture
- Bridge structure
Bridges - High Technology / Renewable Energy Concept A
Bridges - High-Tech/Renewable Energy/Community Concept B

- Photovoltaic panel
- Galvanized steel fin
- Woven wire mesh guardrail
- Bridge structure

LED light cove
Bridges - Community (Expanded Steel Mesh) Concept C
Bridges - Community (Expanded Steel Mesh) Concept C

- Galvanized expanded steel mesh
- Galvanized tube steel support
- Bridge structure
- LED light cove
Bridges - L.A. River Concept D

- Precast concrete panels
- Openings in panels
- Bridge structure
- Galvanized steel supports
- LED light fixture
Bridges - Greening Concept E

Galvanized steel pipe
With LED light fixture
Woven wire mesh guardrail
Galvanized steel plate
light shield
Planter box
Bridge structure
LED light fixture behind
galvanized steel pipe
Next Steps

- Four Workshops with Working Group
  - Design Principles, Gateways, Linkages
  - Bridges and Freight Corridor
  - Aesthetics and Sustainable Concepts
  - Urban Design Concepts

- Key View Enhancement Drawings for Freight Corridor

Questions & Discussion

- Freight Corridor
- Bridge Concepts
- Other