I-805/47th Street Trolley Station Area Planning

Community Working Group Meeting
September 24, 2012
Discussion Items

- Goals and Objectives from June 4th Meeting
- Overview of Alternatives & Community Working Group Ideas
- Initial Screening – Criteria and Process
- Other Activities
  - Transit Rider Survey
  - Land Use Analysis
  - Economic Analysis
<table>
<thead>
<tr>
<th>Goal/Objective</th>
<th>Incorporation into Alternatives &amp; Screening</th>
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<tbody>
<tr>
<td>• Enhance safety and security near and at the station</td>
<td>• Evaluate alternative platform layouts for security issues</td>
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<td>• Better connect the communities east and west of I-805</td>
<td>• Include pedestrian/bicycle connection across I-805 in alternatives</td>
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<td>• Promote job growth in the local community</td>
<td>• Evaluate interaction with nearby employment areas</td>
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<td>• Allow easier access for community travel</td>
<td>• Evaluate pedestrian and bicycle access</td>
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<td>• Promote economic development opportunities, related to property values and community enhancement</td>
<td>• Evaluate economic development opportunities</td>
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<td>• Enhance and support the stability and influence of the family</td>
<td>• Consider effect on nearby housing and opportunities to enhance access to local and regional services</td>
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<td>Goal/Objective</td>
<td>Incorporation into Alternatives &amp; Screening</td>
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<td>• Create a station that is designed as a destination, and will be seen as a community asset</td>
<td>• Evaluate proximity of bus/Trolley platforms to existing and new development on and near the station</td>
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<td>• Bring in the 8 cultures of the community by including travel information in multiple languages and incorporating nature into the design</td>
<td>• Work with MTS to provide information in appropriate languages. Provide community input in design process.</td>
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<td>• Create a design that minimizes impacts</td>
<td>• Review alternatives for potential environmental impacts</td>
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<td>• Provide services with limited stops</td>
<td>• BRT service will operate on I-805 with limited stops both north and south of 47th Street Station</td>
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<td>• Take advantage of nearby rail</td>
<td>• Provide effective connection between BRT and Trolley</td>
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<td>• Incorporate a broad-scope perspective for this project</td>
<td>• Include access, land use, and economic develop in the evaluation</td>
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BRT-Trolley Connection Alternatives

• Three Levels
  • Freeway
  • Mid-Level
  • Track Level

• Three Types of Connections
  • In-Line
  • Direct Access Ramps
  • Flyovers

• Two Types of Platforms
  • Side
  • Bus Island

• 15 Alternatives
# Summary of Alternatives

<table>
<thead>
<tr>
<th>3 - Street/Track Level</th>
<th>Off-line Station West of Freeway</th>
<th>In-line Station</th>
<th>Off-line Station East of Freeway</th>
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<tbody>
<tr>
<td></td>
<td>(3b) Off-line - West BRT Station</td>
<td>(3a) In-line - Track Level Side Platform</td>
<td>(3c) Off-line - East BRT Station with Left Hand DAR</td>
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<td>2 - Mid-Level</td>
<td>(2b) Flyover - pass through a tunnel</td>
<td>(2a) In-line - Mid-level Side Platform</td>
<td>(2e) Flyover - pass through a tunnel</td>
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<td>(2d) Flyover - pass btw 805 shoulder and LRT bridge wall at mid-level</td>
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<td>1 - Freeway Level</td>
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<td>(1a) In-line - Freeway Level Side Platform</td>
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<td>(1b) In-line - Freeway Level Center Platform</td>
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**Legend**

- **Bus Lane Ramp**
  - Left Hand Exit DAR
  - Right Hand Exit DAR
  - Flyover above the general purpose lanes
  - Mid-level
  - At grade freeway level
FREEWAY LEVEL ALTERNATIVES
Alternative 1B

Freeway Level, In-Line Station Center Platform

Bus Lanes
Express Lanes
General Lanes
Bus Platforms
MTS Buses
MID-LEVEL ALTERNATIVES
Alternative 2A

2A  Mid-Level, In-Line Station
Left Hand DAR
Alternative 2B

Mid-Level, Off-Line Station Flyover, West Side Platform Tunnel Crossing Under Tracks

Bus Lanes
Express Lanes
General Lanes
Bus Platforms
MTS Buses

Tracks
Mid-Level
Freeway
Alternative 2C

2C Mid-Level, Off-Line Station Flyover, East Side Platform Tunnel Crossing Under Tracks

Not to Scale

Bus Lanes
Express Lanes
General Lanes
Bus Platforms
MTS Buses
Tracks
Mid-Level
Freeway
Alternative 2D

Mid-Level, Off-Line Station
Flyover, West Side Platform
Open Crossing Under Tracks

Not to Scale

- Bus Lanes
- Express Lanes
- General Lanes
- Bus Platforms
- MTS Buses

Tracks
Mid-Level
Freeway
Alternative 2E

2E  Mid-Level, Off-Line Station Flyover, East Side Platform Open Crossing Under Tracks
TRACK LEVEL ALTERNATIVES
Alternative 3A

Track Level, In-Line Station
Left Hand DAR

Bus Lanes
Express Lanes
General Lanes
Bus Platforms
MTS Buses
Tracks
Mid-Level
Freeway
Alternative 3B

3B Track Level, Off-Line Station
Left Hand DAR, West Side Platform

Not to Scale

Bus Lanes
Express Lanes
General Lanes
Bus Platforms
MTS Buses

Tracks
Mid-Level
Freeway
Alternative 3C

Track Level, Off-Line Station
Left Hand DAR, East Side Platform

Not to Scale

Bus Lanes
Express Lanes
General Lanes
Bus Platforms
MTS Buses

Tracks
Mid-Level
Freeway
Alternative 3G

3G Track Level, Off-Line Station Flyover, West Side Platform

Bus Lanes
Express Lanes
General Lanes
Bus Platforms
MTS Buses

Tracks
Mid-Level
Freeway
DISCUSSION
Initial Screening Criteria

Ability to Meet Project Goals and Objectives – Yes or No

(1a) Order of Magnitude Cost Estimates w/o West Trolley Platform
(1b) Order of Magnitude Cost Estimates w/ West Trolley Platform

(2) Effect on Bus & Trolley Operations

(3) Proximity of Platforms & Ease of Access

(4) Economic Development Potential

(5) Need for Design Exceptions

(6) Environmental Impacts

(7) Passenger Security & Related Operating Costs
## Scoring Matrix

### I-805 47TH ST INITIAL SCREENING MATRIX

#### 9/24/12

<table>
<thead>
<tr>
<th>Alt No.</th>
<th>Description</th>
<th>Score</th>
<th>Ability to Meet Project Goals and Objectives - Yes or No</th>
<th>(1a) Order of Magnitude Capital Cost w/o West LRT Platform</th>
<th>(1b) Order of Magnitude Capital Cost w/ West LRT Platform</th>
<th>(2) Effect on Bus &amp; Trolley Operations</th>
<th>(3) Proximity of Platforms &amp; Ease of Access</th>
<th>(4) Economic Development Potential</th>
<th>(5) Need for Design Exceptions</th>
<th>(6) Environmental Impacts</th>
<th>(7) Passenger Security &amp; Related Operating Costs</th>
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**Legend:**
- Left Hand DAR
- Right Hand DAR
- Flyover
- Mid-Level In-Line
- Freeway Level

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**IBI Group**

www.ibigroup.com

**Community Working Group Meeting**

September 24, 2012
Next Steps

• Working Group Review of Preliminary Scoring

• Select Up to Four Alternatives for Further Study

• Begin the Detailed Analysis
Passenger Survey

• Euclid & 47th Street Stations
• Both Trolley & Bus Passengers
• Origin & Destination Information
• Transfer Patterns
• Existing & Planned Future Conditions
• Interaction with New BRT Services at 47th Street
• Pedestrian & Bicycle Access
• Connecting Areas West and East of I-805
Economic Analysis

• Review of Market Data
• Discussions with Jacobs Center
• Developments near Euclid and 47th Street Stations
• Study Area Demographics
Next Meeting

- October 2012

- In Conjunction with the Euclid and Market Land Use and Mobility Plan (EMLUMP) Working Group
Plan and Cross-Section Drawings
PROPOSED FEATURES

1. BRT LANES IN MEDIAN.
2. AT-GRADE SIDE PLATFORMS, WITH STAIRS AND ELEVATORS.
3. PEDESTRIAN BRIDGE AT TRACK LEVEL SOUTH OF GREENWOOD UP.
4. REALIGN I-805 EXPRESS LANE AND GENERAL-PURPOSE LANES.
5. REPLACE GREENWOOD UP AND IMPERIAL AVE OC.
PROPOSED FEATURES

1. BRT LANES IN MEDIAN.
2. BRT GRADE-SEPARATED CROSSEOVERS.
3. AT-GRADE CENTER PLATFORMS, WITH STAIRS AND ELEVATORS.
4. PEDESTRIAN BRIDGE AT TRACK LEVEL SOUTH OF GREENWOOD UP.
5. REALIGN I-805 EXPRESS LANES AND GENERAL-PURPOSE LANES.
6. REPLACE GREENWOOD UP, IMPERIAL AVE OC, OCEANVIEW BLVD, AND MARKET ST OC.

LEGEND

- EXISTING CALTRANS RIGHT-OF-WAY
- BRT ONLY LANE
- EXPRESS LANE
- PLATFORM
- REPLACE BRIDGE/Roadway
- NEW PEDESTRIAN BRIDGE
- NEW VEHICULAR BRIDGE
- NEW BRT/LRT STATION
PROPOSED FEATURES

1. BRT LANES IN MEDIUM.
2. MID-LEVEL SIDE PLATFORMS, WITH PEDESTRIAN BRIDGES.
3. PEDESTRIAN BRIDGE AND PLATFORM AT TRACK LEVEL SOUTH OF GREENWOOD UP.
4. REALIGN I-805 EXPRESS LANES AND GENERAL-PURPOSE LANES.
5. REPLACE GREENWOOD UP AND IMPERIAL AVE QC (OR MARKET ST QC IF PLATFORMS ARE NORTH OF LRT LINE).

LEGEND
- EXISTING CALTRANS RIGHT-OF-WAY
- BRT ONLY LANE
- EXPRESS LANE
- PLATFORM
- REPLACE BRIDGE/ROADWAY
- NEW PEDESTRIAN BRIDGE
- NEW VEHICULAR BRIDGE
- NEW BRT/LRT STATION
PROPOSED FEATURES

1. BRT LANES IN MEDIAN.
2. NEW FLYOVERS THROUGH TUNNEL WEST OF FREEMAY.
3. REALIGN I-805 EXPRESS LANES AND GENERAL-PURPOSE LANES.
4. REPLACE OCEANVIEW BLVD 5C, IMPERIAL AVE 5C, AND MARKET ST 5C.
5. BRT STATION (NUMBER OF BUS BAYS TO BE DETERMINED) WEST OF FREEMAY.
6. PEDESTRIAN BRIDGE SOUTH OF GREENWOOD UP.
PROPOSED FEATURES

1. BRT Lanes in median.
2. New flyovers through tunnel east of freeway.
3. Realignment I-805 express lanes and general-purpose lanes.
4. Replace Oceanview Blvd. Oc, Imperial Ave. Oc, and Market St. Oc.
5. BRT Station (number of bus bays to be determined) east of freeway.
6. Pedestrian bridge south of Greenwood up.

LEGEND
- Existing Caltrans Right-of-Way
- BRT only lane
- Express lane
- Platform
- Replace bridge/roadway
- New Pedestrian Bridge
- New Vehicular Bridge
- New BRT/LRT station
PROPOSED FEATURES

1. BRT LANES IN MEDIAN,
2. NEW LANE COLORS,
3. REALIGN 1-805 EXPRESS LANES AND GENERAL-PURPOSE LANES,
4. REPLACE GREENWOOD UP, OCEANVIEW BLVD OC, IMPERIAL AVE OC, AND MARKET ST OC,
5. BRT STATION (NUMBER OF BUS BAYS TO BE DETERMINED) WEST OF FREEWAY,
6. PEDESTRIAN BRIDGE SOUTH OF GREENWOOD UP,
### PROPOSED FEATURES

1. BRT Lanes in Median.
2. New Flyovers.
3. Realignment 1-805 Express Lanes and General-Purpose Lanes.
4. Replace Greenwood up, Oceanview Blvd OC, Imperial Ave OC, and Market St OC.
5. BRT Station (Number of Bus Bays to Be Determined) East of Freeway.

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**LEGEND**

- **EXISTING CALTRANS RIGHT-OF-WAY**
- **BRT ONLY LANE**
- **EXPRESS LANE**
- **PLATFORM**
- **REPLACE BRIDGE/ROADWAY**
- **NEW PEDESTRIAN BRIDGE**
- **NEW VEHICULAR BRIDGE**
- **NEW BRT/LRT STATION**

---

**DRAFT**

**I-805/47TH STREET BRT/LRT**

**ALTERNATIVE 2e - FLYOVER EAST SHOULDER MID-LEVEL (WITHOUT BRT AUX LANE)**
PROPOSED FEATURES

1. BRT LANES IN MEDIAN.
2. IN-LINE BRT STATION WITH CANTILEVERED PLATFORM SOUTH OF GREENWOOD UP.
3. PEDESTRIAN BRIDGE AT TRACK LEVEL SOUTH OF GREENWOOD UP.
4. REALIGN I-805 EXPRESS LANES AND GENERAL-PURPOSE LANES.
5. REPLACE GREENWOOD UP AND IMPERIAL AVE OC.
PROPOSED FEATURES
1. BRT LAKES IN MEDIAM.
2. BRT STATION WEST OF FREEWAY, RELOCATE 47TH ST.
   LRT STATION TO WEST OF FREEWAY.
3. VEHICLE BRIDGE WITH SIDEWALK AT TRACK LEVEL
   SOUTH OF GREENWOOD UP.
4. REALIGN I-805 EXPRESS LANES AND GENERAL-PURPOSE
   LANES.
5. REPLACE GREENWOOD UP AND IMPERIAL AVE OC.
PROPOSED FEATURES

1. BRT LANES IN MEDIAN.
2. BRT STATION EAST OF FREeway.
3. Vehicular Bridge with Sidewalk at Track Level South of Greenwood UP.
4. REALIGN I-805 EXPRESS LANES AND GENERAL-PURPOSE LANES.
5. REPLACE GREENWOOD UP AND IMPERIAL AVE QC.
PROPOSED FEATURES

1. BRT LANES IN MEDIAN.
2. IN-LINE BRT STATION WITH CANTILEVERED PLATFORM SOUTH OF GREENWOOD UP.
3. PEDESTRIAN BRIDGE AT TRACK LEVEL SOUTH OF GREENWOOD UP.
4. REALIGN I-805 EXPRESS LAKES AND GENERAL-PURPOSE LANES.
5. REPLACE GREENWOOD UP, OCEANVIEW BLVD OC, IMPERIAL AVE OC, AND MARKET ST OC.
PROPOSED FEATURES

1. BRT Lanes in Median.
2. BRT Station West of Freeway, Relocate 47th St LRT Station to West of Freeway.
3. Vehicular Bridge with Sidewalk at Track Level South of Greenwood Up.
5. Replace Greenwood Up, Oceanview Blvd OC, Imperial Ave OC, and Market St OC.

LEGEND

EXISTING CALTRANS RIGHT-OF-WAY
BRT ONLY LANE
EXPRESS LANE
PLATFORM
REPLACE BRIDGE/ROADWAY
NEW PEDESTRIAN BRIDGE
NEW VEHICULAR BRIDGE
NEW BRT/LRT STATION

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I-805/47TH STREET BRT/LRT
ALTERNATIVE 3e - OFF-LINE RIGHT DAR WEST TRACK LEVEL (WITHOUT BRT AUX LANE)
PROPOSED FEATURES

1. BRT Lanes in Median.
2. BRT Station East of Freeway.
3. Vehicular Bridge with Sidewalk at Track Level South of Greenwood Up.
5. Replace Greenwood Up, Oceanview Blvd OC, Imperial Ave OC, and Market St OC.

LEGEND

EXISTING CALTRANS RIGHT-OF-WAY
BRT ONLY LANE
EXPRESS LANE
PLATF0RM
REPLACE BRIDGE/ROADWAY
NEW PEDESTRIAN BRIDGE
NEW VEHICULAR BRIDGE
NEW BRT/LRT STATION

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I-805/47TH STREET BRT/LRT
ALTERNATIVE 3f - OFF-LINE RIGHT DAR EAST
TRACK LEVEL (WITHOUT BRT AUX LANE)
PROPOSED FEATURES

1. BRT Lanes in Median.
2. New Flyovers.
3. Realignment I-805 Express Lanes and General-Purpose Lanes.
4. Replace Oceanview Blvd OC, Imperial Ave OC, and Market St OC.
5. BRT Station (number of bus bays to be determined) west of freeway.
6. Pedestrian Bridge south of Greenwood up.

LEGEND

EXISTING CALTRANS RIGHT-OFF-WAY
BRT ONLY LANE
EXPRESS LANE
PLATFORM
REPLACE BRIDGE/ROADWAY
NEW PEDESTRIAN BRIDGE
NEW VEHICULAR BRIDGE
NEW BRT/LRT STATION

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**PROPOSED FEATURES**

1. BRT LANES IN MEDIAN.
2. NEW FLYOVERS.
3. REALIGN I-805 EXPRESS LANES AND GENERAL-PURPOSE LANES.
4. REPLACE OCEANVIEW BLVD OC, IMPERIAL AVE OC, AND MARKET ST OC.
5. BRT STATION (NUMBER OF BUS BAYS TO BE DETERMINED) EAST OF FREEWAY.
6. PEDESTRIAN BRIDGE SOUTH OF GREENWOOD UP.