



Costa Mesa Freeway (State Route 55) Access Study - Initial Screening of Alternatives



Board of Directors' Meeting October 27, 2008



Study Purpose



- Improve mobility and reduce existing and future congestion
- Minimize environmental and traffic impacts
- Manage regional traffic impacts to local streets
- Consider existing and planned transit programs such as bus rapid transit
- Enhance system linkage and connectivity according to local and regional plans

Community Outreach Methods



- Stakeholder groups
- Web site and online survey
- E-newsletter
- Direct mail piece
- News media
- Open houses (3)



Outreach Findings



- Cut/cover alternative preferred
- No build/baseline second most preferred
- Signal synchronization needs improvement
- Cut-through traffic remains

 a concern primarily on
 weekends and during summer
- Cost, funding, and schedule need refinement



No Build/Baseline





LEGEND

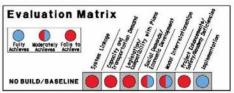


EXISTING OCTA

PROPOSED BRT ROUTES

COMPONENTS

- MAINTAIN SR-55/NEWPORT BLVD IN EXISTING CONDITION.
- 2 4 NB LANES ON NEWPORT BLVD FROM 17TH ST TO 19TH ST.
- 3 SB LANES ON NEWPORT BLVD FROM BROADWAY TO 17TH ST.
- 4 ADD 4+h SB LANE ON NEWPORT BLVD FROM 19TH TO BROADWAY.
- ADD SB RIGHT TURN LANE ON NEWPORT BLV
- 6 IMPROVE ORANGE/17TH ST AND SANTA ANA/17TH ST INTERSECTIONS.
- 7 IMPROVE MOBILITY THROUGH 17TH ST.
- T ENHANCE EXISTING BUS ROUTES WITH BRT ROUTES.



Current Freeway Plan



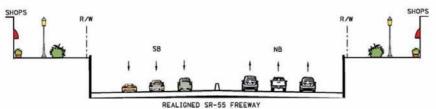


IMPACTS

RELOCATION OF 85 RESIDENTIAL UNITS AND 40 BUSINESSES

HIGH PROJECT COST





Evaluation Matrix CURRENT FREEWAY PLAN (EASTERLY FREEWAY EXTENSION)

COMPONENTS

TYPICAL SECTION A-A NOT TO SCALE

- NOT TO SCALE

 REALIGN/EXTEND SR-55 FREEWAY TO THE EAST OF EXISTING NEWPORT BLVD FROM INDUSTRIAL AVE TO JUST SOUTH OF BAY ST AS DEPRESSED FREEWAY, THREE LANES EACH DIRECTION.
- 2 PROVIDE STREET OVERCROSSINGS.
- PROVIDE INTERCHANGES AT 17TH ST AND 19TH ST.

Transportation Systems Management (TSM)





LEGEND

PROPOSED STREET



BASELINE IMPROVEMENTS PROPOSED PEDESTRIAN



BRIDGE



EXISTING OCTA BUS ROUTES



PROPOSED BRT ROUTES
PROPOSED SIGNAL TIMING
MODIFICATIONS



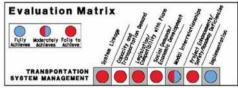
EXISTING BUS STOPS

COMPONENTS

- ADD ONE SB LANE TO MAINTAIN 4 NB AND SB LANES ON NEWPORT BLVD AS CONVENTIONAL HIGHWAY FROM 19TH ST TO 17TH ST.
- 2 ADD BUS TURNOUTS.
- 3 MODIFY SIGNAL TIMING AT INTERSECTIONS.
- CONSTRUCT PEDESTRIAN BRIDGE ACROSS NEWPORT BLVD AT BROADWAY ST.

IMPACTS

- POTENTIAL LOSS OF STREET PARKING
- B ADDITIONAL RIGHT OF WAY REQUIRED



Vertical Terminal Enhancement





LEGEND PROPOSED STREET IMPROVEMENTS PROPOSED RAMPS BASELINE IMPROVEMENTS

PROPOSED PEDESTRIAN BRIDGE

CITY LIMITS

EXISTING OCTA BUS ROUTES



TYPICAL SECTION A-A

NOT TO SCALE

COMPONENTS

- IMPROVE MOBILITY TO 19TH ST ON THE WEST SIDE OF NEWPORT BLVD:

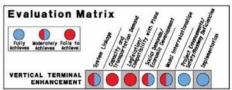
 ADD RAMP BRAID AT SB NEWPORT BLVD THE-IN AT SR-55.

 ADD FREE RIGHT FROM 19TH ST TO NEWPORT BLVD BY RELOCATING EXISTING BUS TURNOUT TO THE WEST.

 ADD EB 19TH ST TO NB SR-55 FLYOVER.
- IMPROVE MOBILITY AT 17TH ST ON THE WEST SIDE OF NEWPORT BLVD:
 SIGNIFICANT GEOMETRIC IMPROVEMENTS AT NEWPORT/17TH/
 SUPERIOR INTERSECTION.
 PARTIAL WIDENING ALONG SUPERIOR AVE MAY BE REQUIRED.
- 3 CONSTRUCT PEDESTRIAN BRIDGE ACROSS NEWPORT BLVD AT BROADWAY ST.

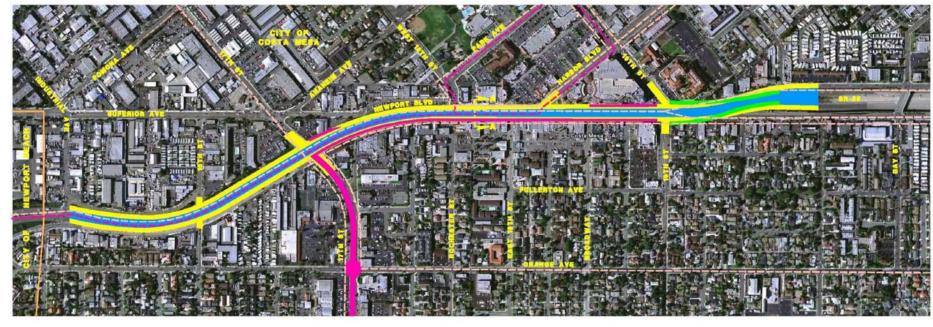
IMPACTS

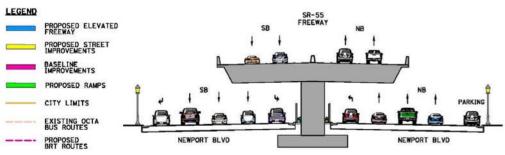
- VISUAL IMPACTS
- ADDITIONAL RIGHT OF WAY REQUIRED
- MODERATE PROJECT COST
- POTENTIAL LOSS OF STREET PARKING



Viaduct



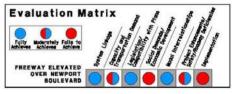




ELEVATED SR-55 FREEWAY
TYPICAL SECTION A-A
NOT TO SCALE

COMPONENTS

- SR-55 FREEWAY ELEVATED OVER NEWPORT BLVD FROM 19TH ST TO INDUSTRIAL WAY.
- CONTROLLED ACCESS FREEWAY OVER NEWPORT BLVD.
- 3 SIDE STREET ACCESS FROM NEWPORT BLVD.
- PROVIDE INTERCHANGE AT 19TH ST.



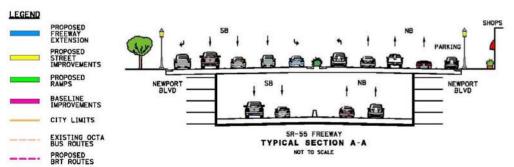
IMPACTS

- HIGH PROJECT COST
- ENVIRONMENTALLY SENSITIVE ALTERNATIVE

Cut and Cover Tunnel





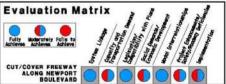


COMPONENTS

- 1 CUT AND COVER SR-55 FREEWAY ALONG NEWPORT BLVD FROM 19TH ST TO INDUSTRIAL WAY.
- CONTROLLED ACCESS FREEWAY UNDER NEWPORT BLVD.
- 3 SIDE STREET ACCESS FROM NEWPORT BLVD.
- PROVIDE INTERCHANGE AT

IMPACTS

HIGH PROJECT COST



Evaluation Criteria



- System linkage
- Capacity and transportation demand
- Compatibility with legislation and plans
- Social demands/economic development
- Modal interrelationships
- Project enhancements/safety
- Feasibility/implementation

Recommended Alternatives



- No build/baseline
- TSM
- Terminal enhancement
- Cut/cover tunnel
- Future study alternatives may be hybrids using most promising elements of screened alternatives

Other Considerations

- Shuttle/park and ride to beach areas
- Avoid potential tunnel queuing at Industrial Way
- Conduct weekend/summer congestion analysis as part of future study

Input Options Rejected



- Bored Tunnel Freeway
 - Cost, water table, utilities
- Reversible Lanes
 - Relatively uniform weekday directional split
- One-Way Couplets
 - No closely spaced parallel streets
- Parallel Routes
 - Superior Avenue is beyond area of worst congestion
 - Irvine Avenue has on-street residential

Next Steps



- Approve initial screening report for the Costa Mesa Freeway (State Route 55) Access Study
- Immediately begin working with the cities of Costa Mesa and Newport Beach and Caltrans to develop cooperative agreement and funding plan for next phase