

San Diego International Airport

March 10, 2014







Agenda









Process

Objectives Opportunities, constraints & considerations

Alternatives Developed

Initial brainstorm / vetting Coordinate alternatives with Airport staff

Elimination of some alternatives

Traffic Modeling

SANDAG model to remaining alternatives LOS determination for alternative segments

Refine alternatives

Comparative Analysis

Cost Estimation for Alternatives Present ranked alternatives

Objectives

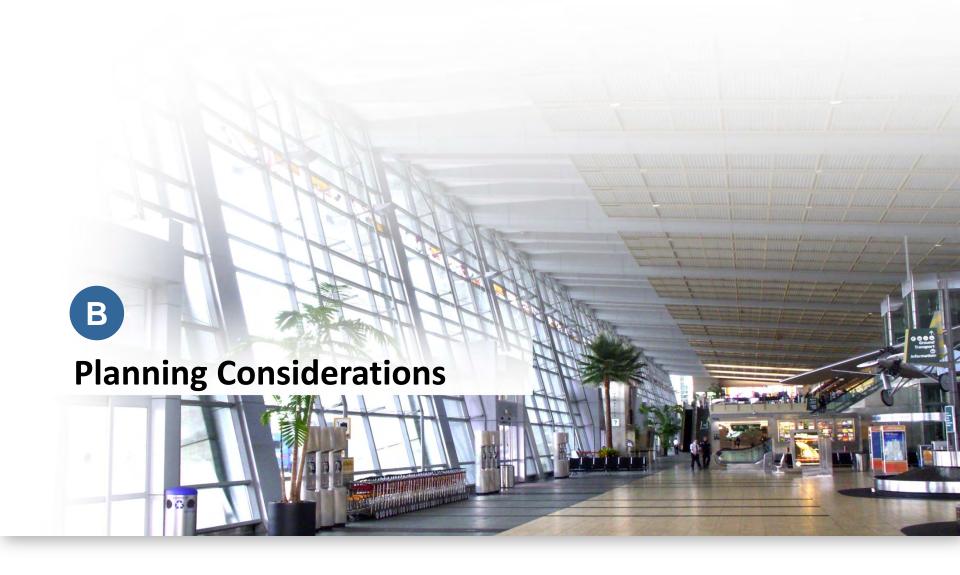
- Remove Airport traffic from N. Harbor Drive
- Connect the On-Airport access roadway efficiently and cost effectively to the city street network
- Improve connectivity to Interstate 5, if possible
- Align with regional traffic objectives (SANDAG)
- Maintain western access (Point Loma)



Evaluation Criteria

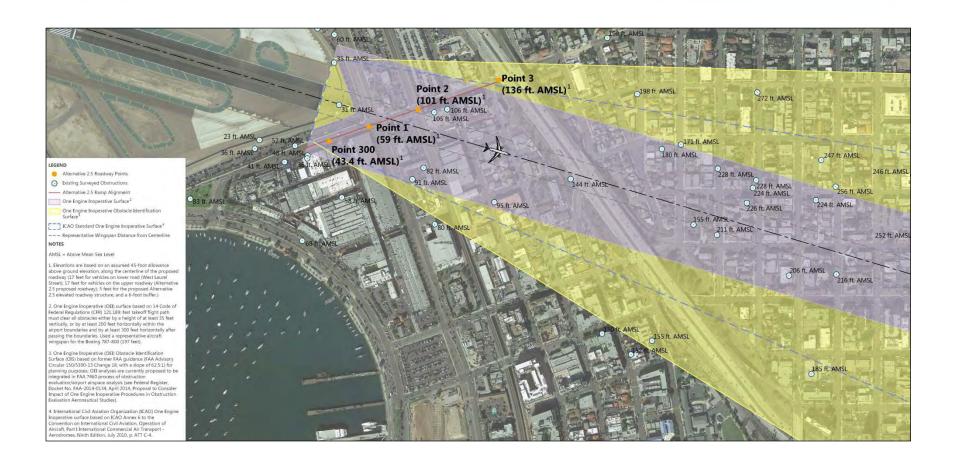
- Removes airport traffic from Harbor Drive
- Improves connectivity to I-5
- Aligns with regional traffic objective (Pacific Highway vs. Harbor Dr.)
- Level of improvements required to off airport roads (for non-airport traffic)
- Level of impacts to off-airport traffic flows
- Level of impacts to off-airport facilities
- Level of impacts to airport facilities
- Cost implications
- LOS results





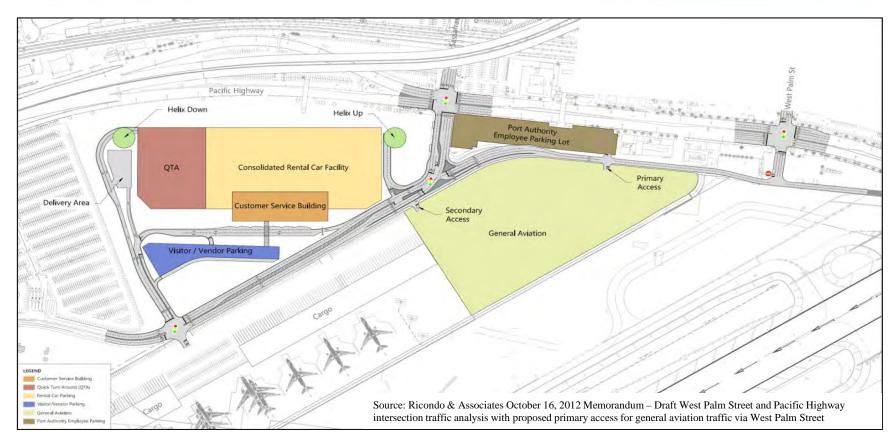


Planning Considerations - Protect Runway Operations





Planning Considerations – North Side



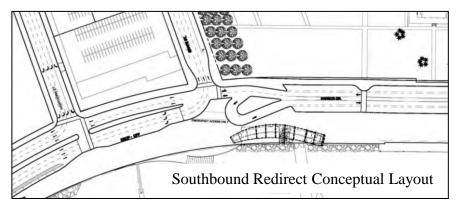
- North Side Improvements
- Marine Corps Recruit Depot (MCRD)
- Intermodal Transit Center (ITC)



Planning Considerations – Regional Transportation



- Limitations of existingI-5 exit ramps
- Railroad crossings along the I-5 /Pacific Highway corridor



- Waterfront redevelopment
- Southbound redirect of Harbor Drive

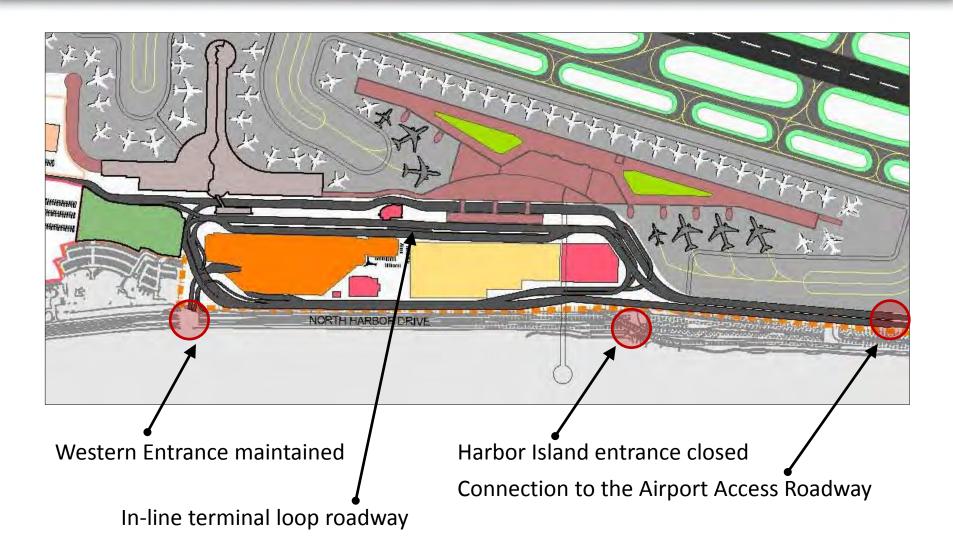
Planning Considerations – Traffic Volumes

- Refinements were made to the SANDAG traffic model to align model assumptions with airport plans
- Baseline (2014) and forecast (2035) volumes are being used to model alternatives



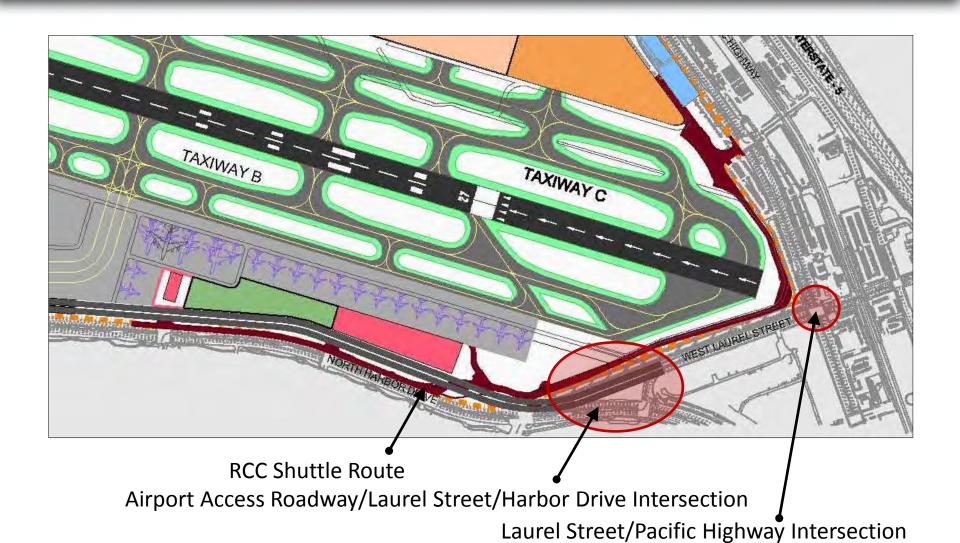


Terminal Core – Terminal Layout (Alternative #4)





Harbor Drive Bypass Roadway

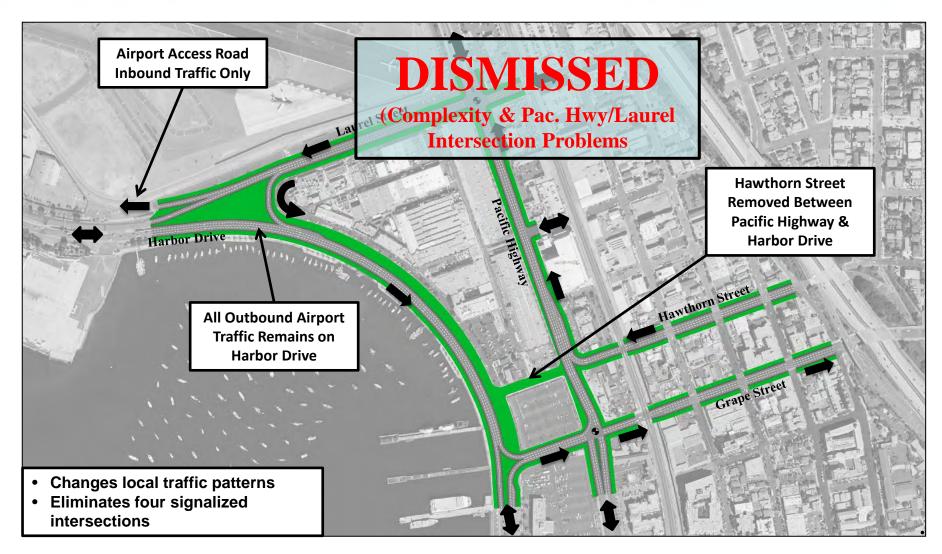








Alternative 1.1: One Way Streets





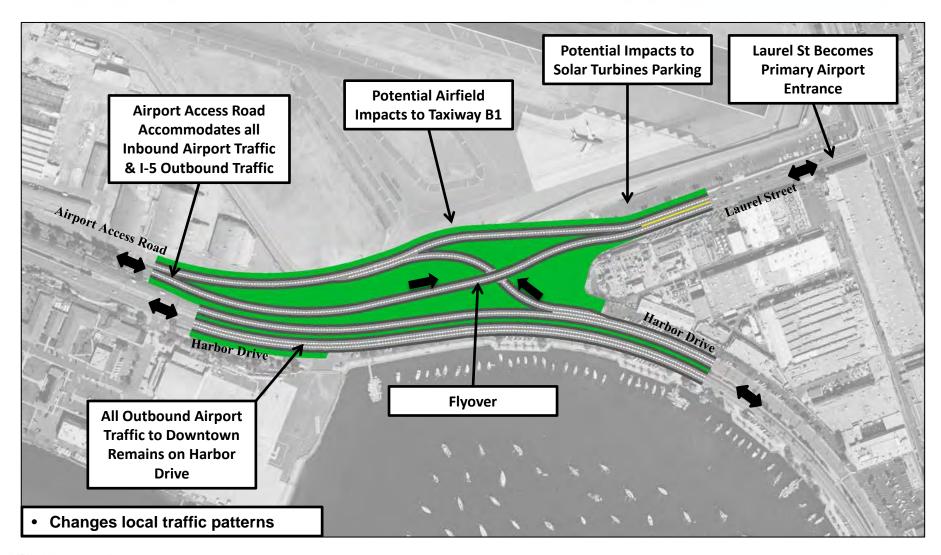
Alternative 1.2: Terminal Core Flyover





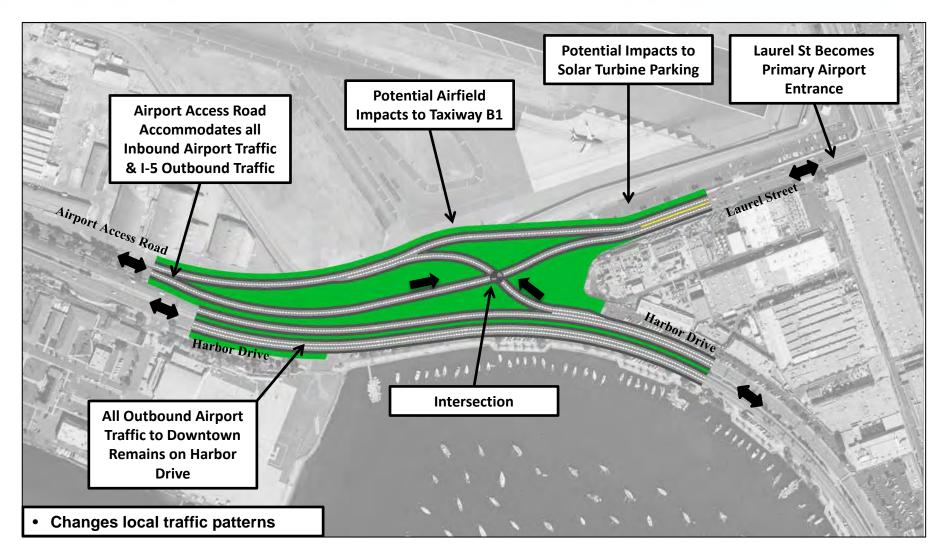


Alternative 1.3: Laurel Street Flyover



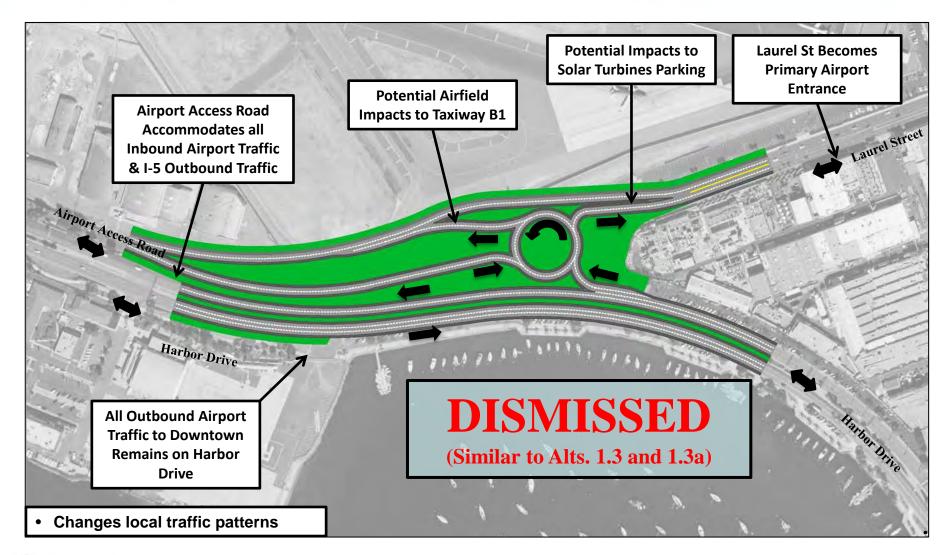


Alternative 1.3a: Laurel Street





Alternative 1.4: Single Roundabout

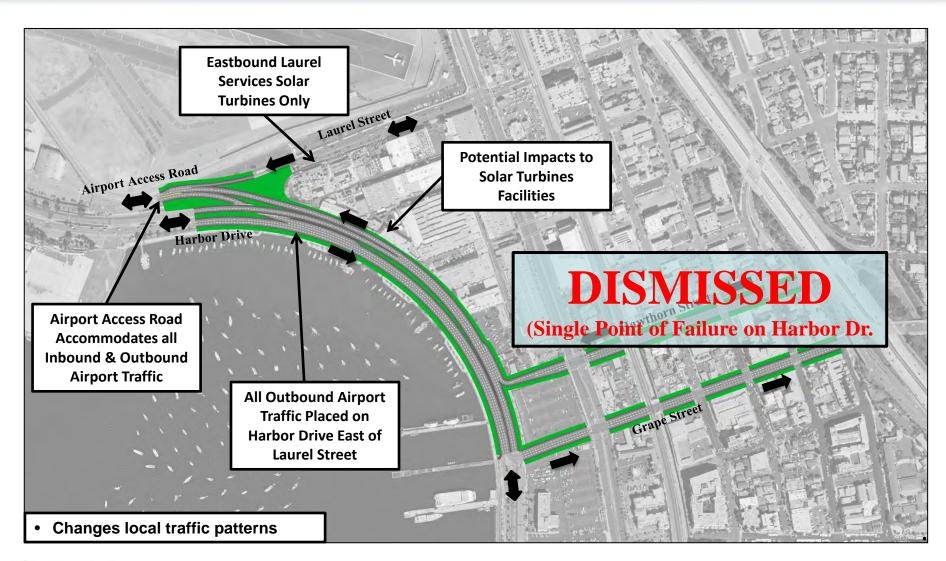




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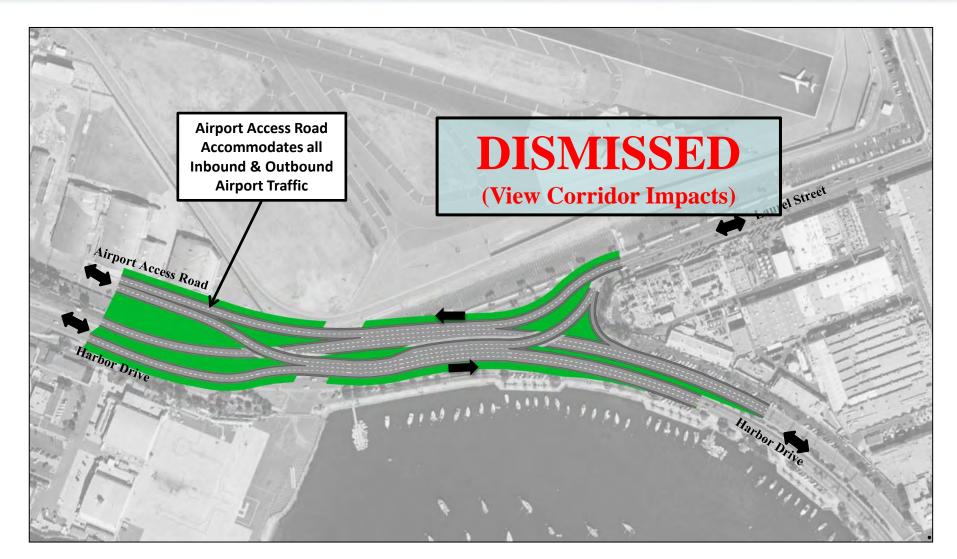
SDIA AIRPORT DEVELOPMENT PLAN

Alternative 1.5: Harbor Drive Flyover



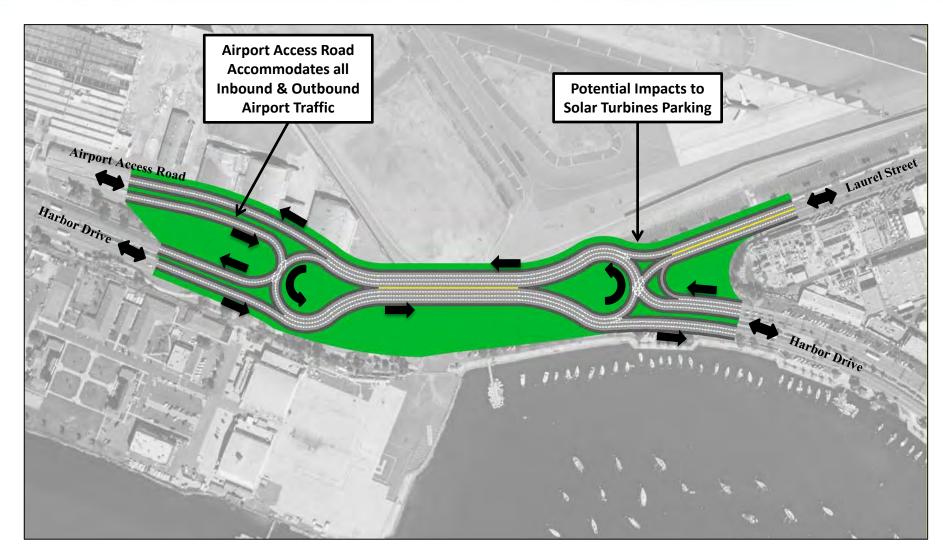


Alternative 1.6: Stacked Roadway



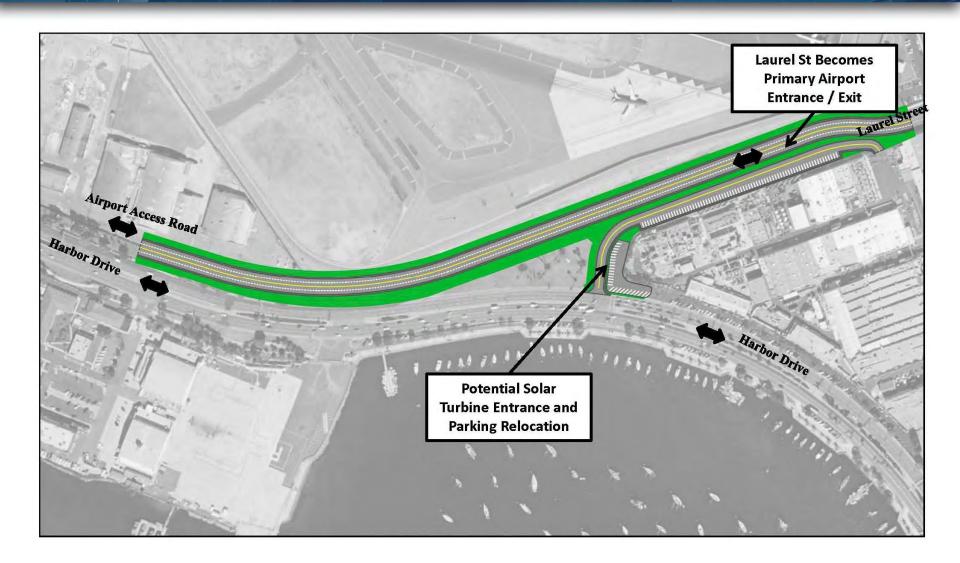


Alternative 1.7: Elongated Roundabout





Alternative 1.8: Laurel becomes Airport-only





Airport Access Road/Off-Airport Road Connection

Selected Alternatives









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Next Steps

- Continuing partnership with SANDAG to complete the traffic model runs for each alternative
- Perform LOS (level of service) analysis on alternatives to:
 - Validate number of lanes required
 - Validate roadway geometry
 - Compare LOS of existing conditions, future w/out changes and future w/alternative
- Identify ROM costs
- Refine alternatives and prepare final comparative analysis
- Coordinate with Stakeholders and recommend preferred alternative(s)



Comparative Analysis/Evaluation Matrix

Evaluation Matrix

- Rankings (where quantifiable) are from 1 to 5 where 1 is the best
- Lowest total ranking will be presented as the preferred alternative

Criteria

- Removes airport traffic from Harbor Drive
- Improves connectivity to I-5
- Aligns with regional traffic objective (Pacific Highway vs. Harbor Dr.)
- Level of improvements required to off airport roads (for non-airport traffic)
- Level of impacts to off-airport traffic flows
- Level of impacts to off-airport facilities
- Level of impacts to airport facilities
- Cost implications
- LOS results



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Evaluation Matrix

Consultant Work Product for Discussion Purposes Only

Preliminary Alternatives Evaluation

NC	. EVALUATION CRITERIA	METRIC	ALTERNATIVE 1.2		ALTERNATIVE 1.3		ALTERNATIVE 1.3a		ALTERNATIVE 1.7		ALTERNATIVE 1.8	
NO.			Criteria Value	Rank	Criteria Value	Rank	Criteria Value	Rank	Criteria Value	Rank	Criteria Value	Rank
On Ai	irport Ground Access											
1	Removes Traffic from Harbor Drive	Y/N						Ì				Î
2	Improves Connectivity to Interstate-5	Y/N										
3	Aligns with Regional Traffic Objectives (to shift traffic to Pacific Highway from Harbor Drive)	Y/N										
4	Requires Improvements to off-Airport roadways (which will include non-airport traffic)	Y/N										
5	Impacts off-Airport roadway traffic flows (negative/positive)	Y/N	7									
6	Impacts existing (or future existing) Airport facilities	Y/N										
7	Impacts existing (or future existing) off- Airport facilities	Y/N										
Cost E	Estimates (ROM)											
8	Costs of on-Airport Roadway modifications	Quan					-					
9	Costs of off-Airport Roadway modifications	Quan										
10	Costs of on-Airport "Replacement" Facilities	Quan										
11	Costs of off-Airport "Replacement" Facilities	Quan										
12	Other costs	Quan										
os (I	Level of Service) Results											
13	LOS ranking achieved by Alternative	LOS									1	
14	LOS ranking impacts to other streets by Alternative	LOS										



