

## **Presentation Highlights**

- Project Review
  - Overall Concept
  - City Master Plan and Code
  - Implementation Activities
- Status Report

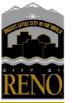


## **Project Review**

8.22.07 Reno City Council directed staff to work with Regional Transportation Commission (RTC) to analyze improvement alternatives for South Virginia TOD corridor

4.22.09 Reno City Council approved multi-phase transit project concept and seven item action plan

• Eliminated over \$100 million in street projects using existing right-of-way while maintaining similar automobile levels of service



## **Project Review**

#### 4.22.09 Continued

- Phase 1: Bus Rapid Transit between California Avenue and Reno-Sparks Convention Center
- Phase 2: Streetcar between Lawlor Events Center and California Avenue
- Phase 3: Streetcar between California Avenue and Reno-Sparks Convention Center
- Phase 4: Light rail between Lawlor Events Center and Reno-Sparks Convention Center



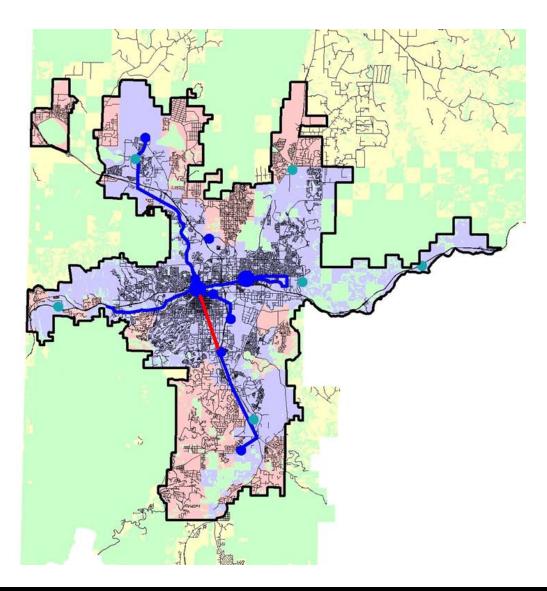
## **Project Review**

#### 10.7.09 Reno City Council and approved status and requested RTC to begin process of obtaining Federal funds

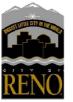
#### 11.12.09 RTC approves funding for Virginia Street transit studies for Federal funding application



 Regional Context
 First segment of regional system



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Phase 1
Bus Rapid Transit



Regional Transportation Commission of Washoe County



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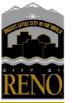
- Phase 2
  - Bus Rapid Transit
  - Streetcar Downtown



Portland Streetcar, LLC

Virginia Street Transit Project





- Phase 3
  - Expanded Streetcar

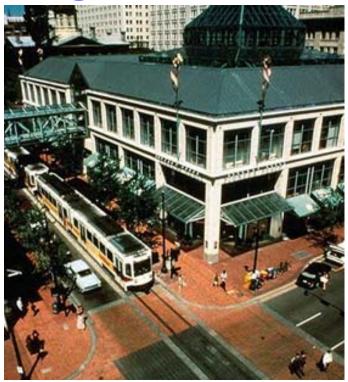


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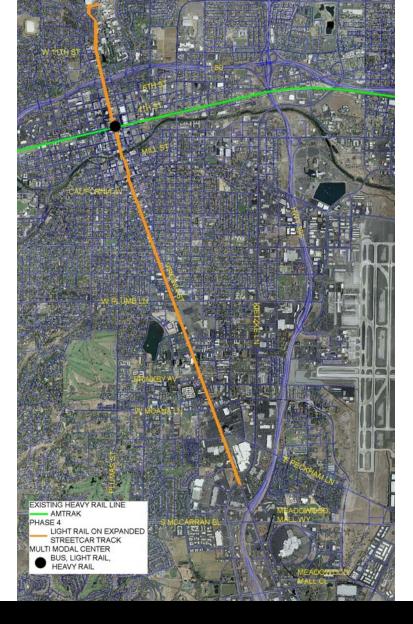




# Phase 4 Light Rail Train



Tri Met

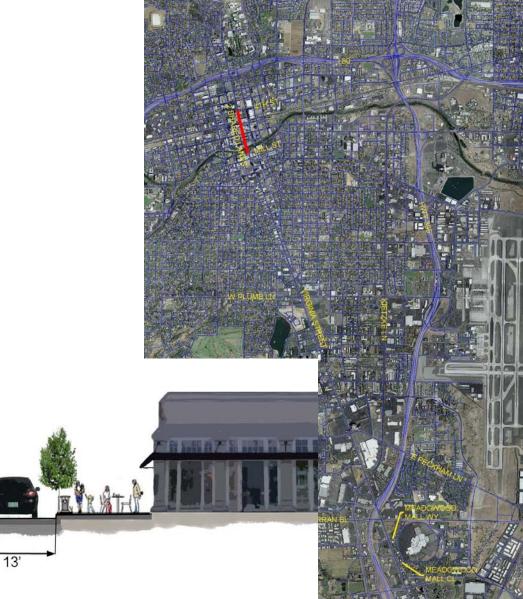




Street Cross Section
 2 Shared Lanes

13'

12'



KLS Planning and Design

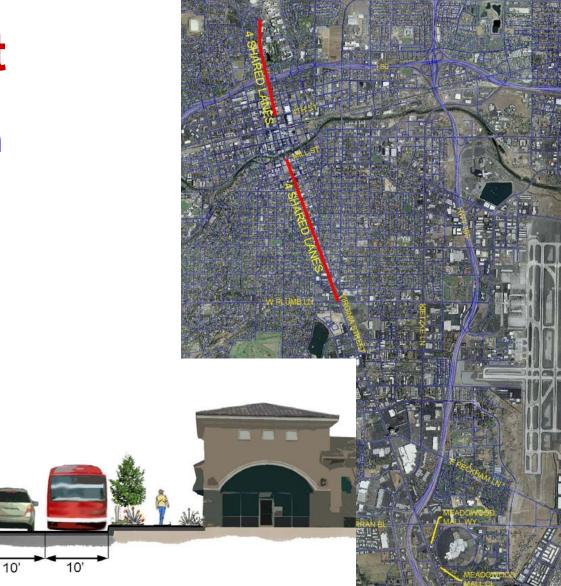
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Street Cross Section
 4 Shared Lanes

10'

10'



11

KLS Planning and Design

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Street Cross Section
 - 6 Shared Lanes

11'

11'

11'

11'



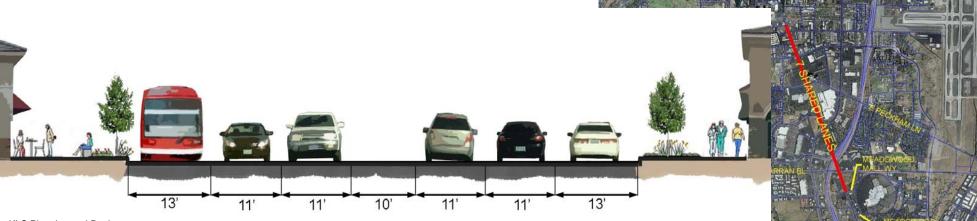
KLS Planning and Design

Virginia Street Transit Project

12'



Street Cross Section
 7 Shared Lanes



KLS Planning and Design

Virginia Street Transit Project





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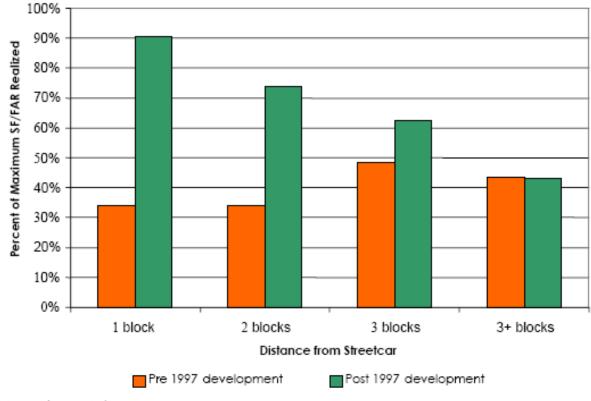
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#### Portland Streetcar

- 2001 2.4 mile line
- In street operation
- Modern low floor cars
- Ridership 12,000/day
- Development:
  - 10,000 dwelling units
  - 5.4 million square feet
  - \$3.5 billion invested within 2 blocks



#### Portland Streetcar Development Density

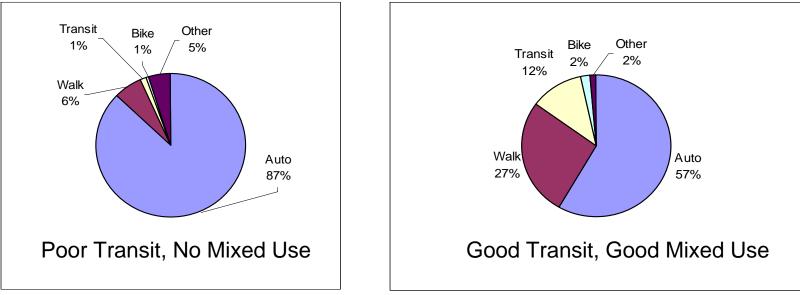


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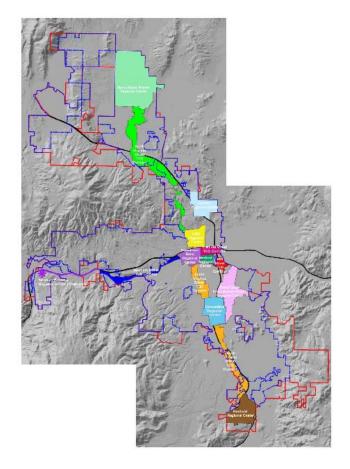
#### Portland Travel Mode by Area



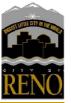
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- City Master Plan
  - 9 Regional Centers
  - 5 Transit Oriented Development Corridors
  - Special Planning Area in Land Use Plan
  - Individual Plan and Code Adopted for Each Center and Corridor

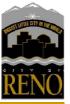




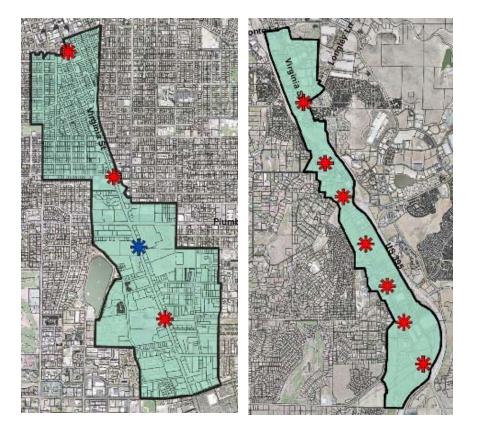
Clarion Associates

- TOD Plan Concept
  - Transit at highest density nodes (station areas)
  - Pedestrian circulation and density between nodes

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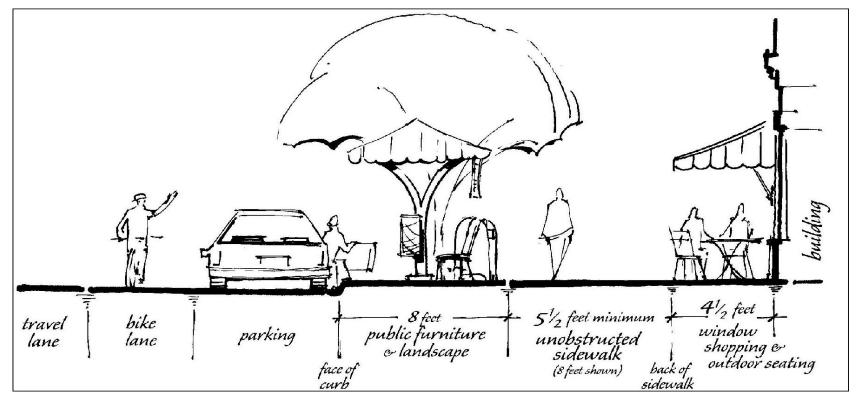
- South Virginia TOD Corridor Plan
  - 2 Sections Between Downtown Regional Center, Convention Regional Center and Redfield Regional Center
  - 11 Station Areas



- Reno Municipal Code TOD Corridor Regulations
  - Mixed use zoning with overlays
  - Minimum number of dwellings 14 45 du/acre
  - Minimum floor area ratio 0.25 4.0
  - Pedestrian oriented sidewalk standard
  - Building forward and parking to rear/side
  - Reduced parking
  - Pedestrian amenities 1% 1.5%
  - Complementary land uses allowed without special use permit
  - Construction allowed without special use permit if meets standards



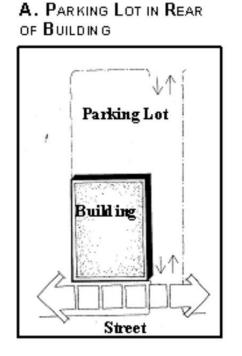
# Reno Municipal Code TOD Corridor Street and Sidewalk Standard



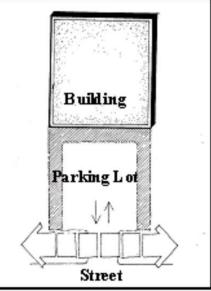
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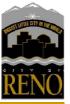
## City Master Plan and Code • Reno Municipal Code TOD Corridor Narrow Lot Parking Options



B. PARKING LOT IN FRONT OF BUILDING

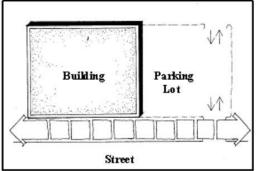


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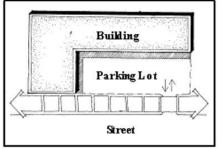


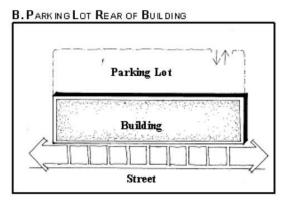
## City Master Plan and Code • Reno Municipal Code TOD Corridor Shallow Lot Options



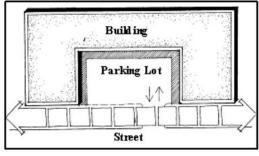


C. L-Shape Building: Parking Lot in Front of Building

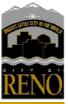




D. DOUBLE L-SHAPE BUILDING: PARKING LOT IN FRONT OF BUILDING

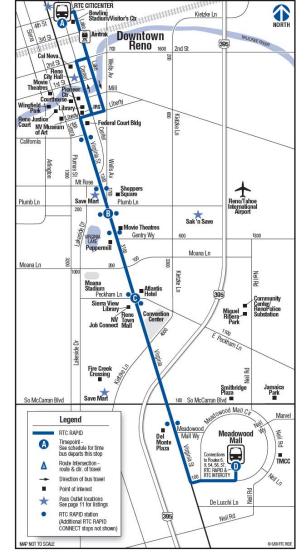


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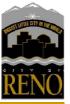
#### Item 1: RTC implement Bus Rapid Transit (BRT)



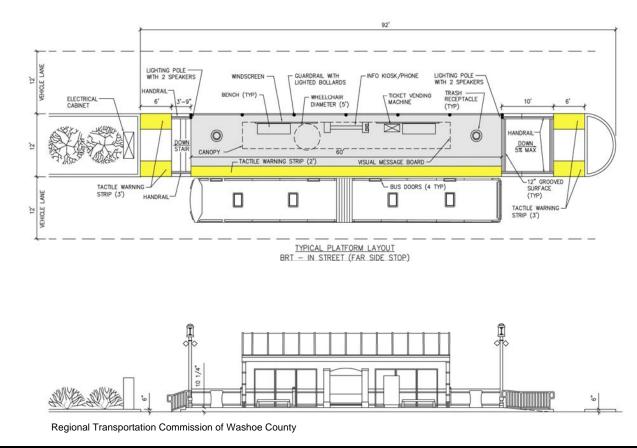


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#### Item 2: Add station requirements/design standards to RMC



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Item 3: Amend NRS, RMC and/or Regional Road Impact Fee to allow credits if capacity created by construction of parking lot outside right of way

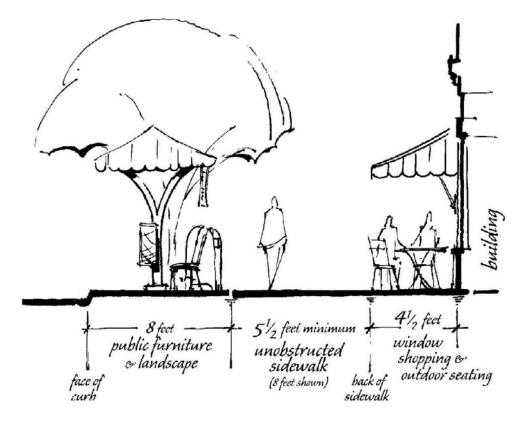








Item 4: Complete Street standards for corridor



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#### Item 5: Include streetcar/light rail capacity on new Virginia Street Bridge



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#### Item 6: Multimodal Downtown Transportation Center Plan

- Virginia Street: Sierra Spirit then Streetcar
- Parking Garage: Auto Park & Ride
- Amtrak Station: Heavy Rail
- 4<sup>th</sup> Street Station: Bus and BRT



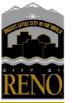
Regional Transportation Commission of Washoe County

Item 7: Staff working group and stakeholders groups for research on other systems, funding options, operational issues, lane reconfiguration, streetscape, parking, etc.





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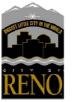


#### **On-going research**

• Design, operations and maintenance, and funding of existing systems in other cities



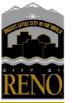
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#### **Preliminary Capital Cost Estimate**

- Phase 2: \$67 million for initial phase (4 track-miles rails, power, vehicles, stations, maintenance facility)
  - \$4.8 million annual cost for 30 years @ 6%
- Phase 3: \$84 million for remaining portion of project (7 track-miles rails, power, and additional vehicles)
  - \$6.1 million annual cost for 30 years @ 6%
- Phases 2 & 3: \$10.9 million annual cost for 30 years
   @ 6%

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### Phases 2 & 3 Operations and Maintenance Costs

• \$3 million/year depending on # streetcars, operating hours, etc.

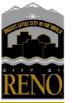
#### **30-Year Replacement Cost Estimate**

• \$1.7 million/year



	Phase 2 (Lawlor Event Center - California Ave)		Phase 2 and 3 (Lawlor Event Center – Convention Center)	
	50%	100%	50%	100%
Annual Capital Costs	\$2.4 M	\$4.8 M	\$5.45 M	\$10.9 M
Annual O & M Costs	\$65.0 K	\$1.3 M	\$1.5 M	\$3.0 M
Annual Sinking Fund	\$375.0 K	\$750.0 K	\$850.0 K	\$1.7 M
Total Annual Costs	\$2.84 M	\$6.85 M	\$7.8 M	\$15.6 M
Total Annual Property Tax Rate Increase (@ \$850,000 per each cent)	\$.033	\$.081	\$.092	\$.184
Total Funding Required from Other Source(s)	\$33.5 M	\$0	\$75.5 M	\$0

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### **Potential Funding Sources**

- Comprehensive funding package to be proposed by Finance Sub-Group
  - Sales Tax
  - Tax Increment Funds
  - Federal Funding
  - Property Tax
  - Tourism Tax
- If property tax, Reno City Council must decide to place on ballot by July 2010



### **Potential Funding Sources (continued)**

- Regional Transportation Commission preparing
   studies and analyses for Federal funding application
  - Corridor study/alternatives analysis
  - Develop Locally Preferred Alternative
  - Initiate preliminary engineering and NEPA documentation