Charrette Report Appendix

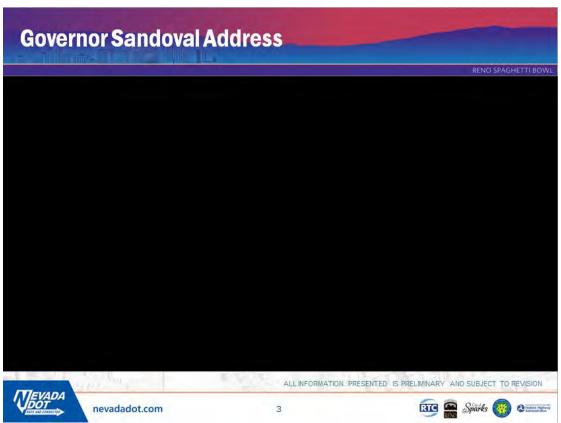
Table of Contents

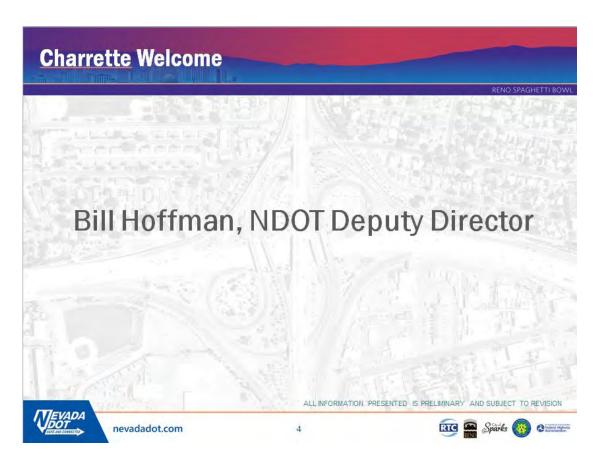
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PowerPoint Presentation















History of Spaghetti Bowl

RENO SPAGHETTI BOW

- TMRPA
- Background (construction, past project, regional growth, phased project)
- Future planned development and area improvements
- Current conditions
- Condition assessment (freeway, structures, safety)



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Washoe County Consensus Forecast

RENO SPAGHETTI BOWL

- Assessment of forecasted population and employment growth; performed every 2 years by TMRPA to inform planning efforts across the region.
- Sources
 - Nevada State Demographer
 - Truckee Meadows Water Authority
 - Woods and Poole
 - IHS Global Insight









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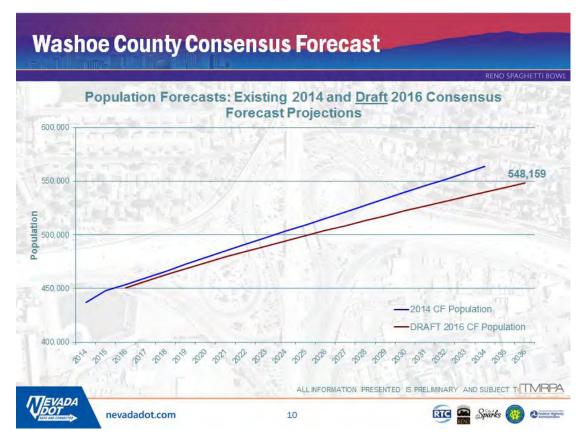


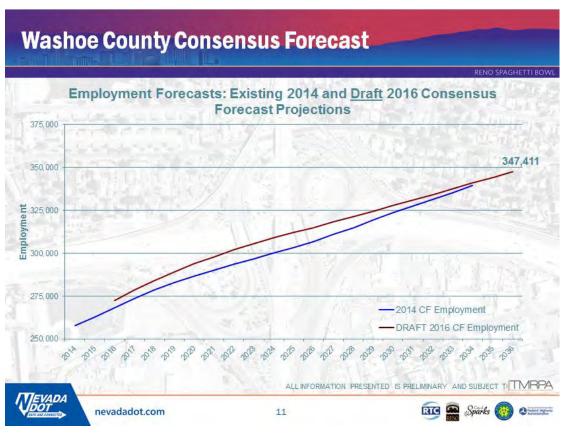










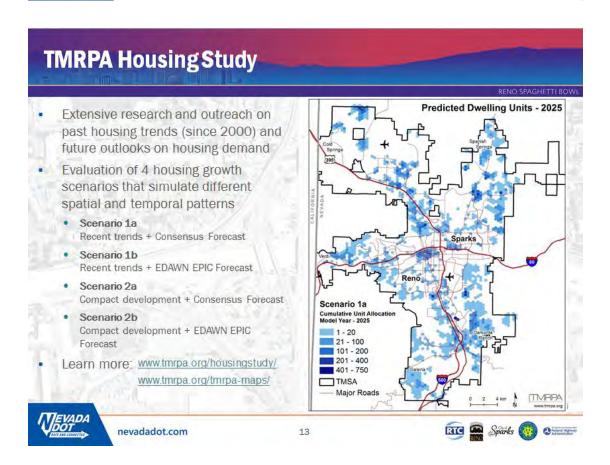


Translate time series projections to spatial allocation of housing units and employment Rule-based allocation model that uses an overall suitability score Parcel-based Dual-mode suitability model Population Employment Model results aggregated to Traffic Analysis Zones (TAZ) RTC Regional Transportation Plan update

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Reno-Sparks Traffic Study

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History of Spaghetti Bowl - Background

- Originally constructed in 1969-1971
- Population at the time was approximately 130,000 people
- Numerous improvements have been added since then

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RIC Sparks

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History of Spaghetti Bowl - Background



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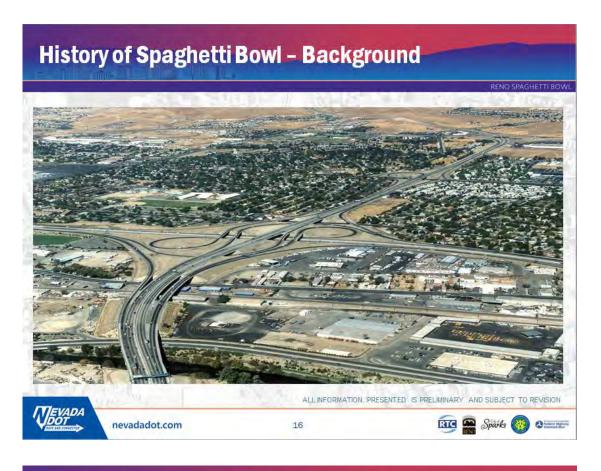
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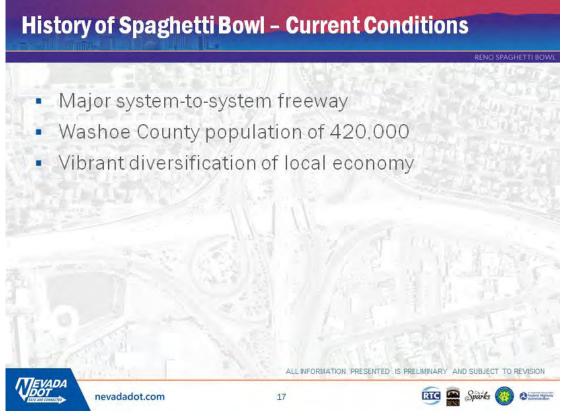
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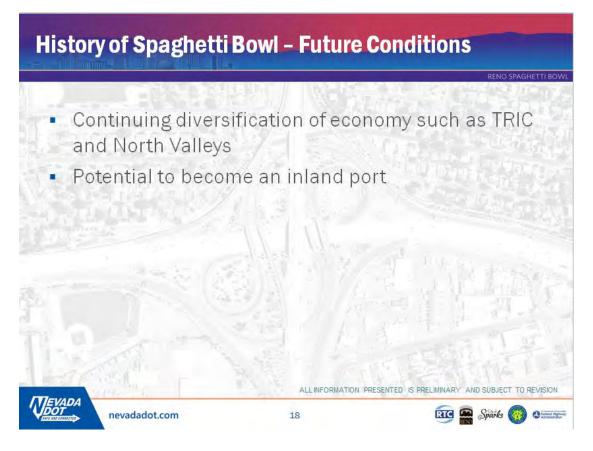




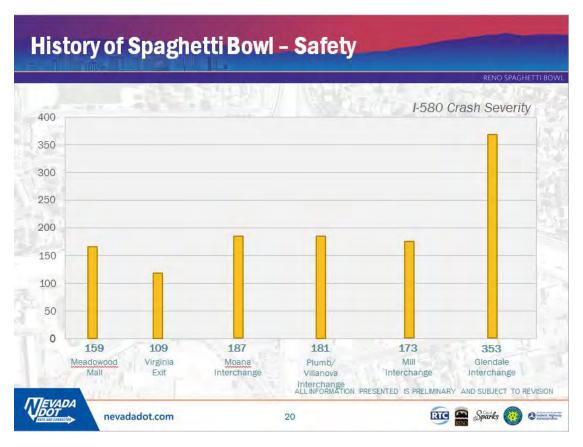


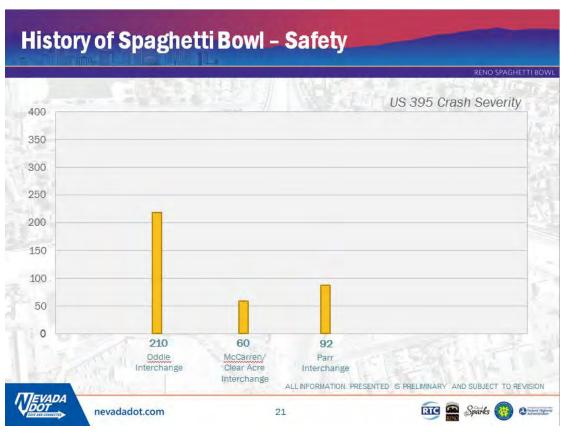


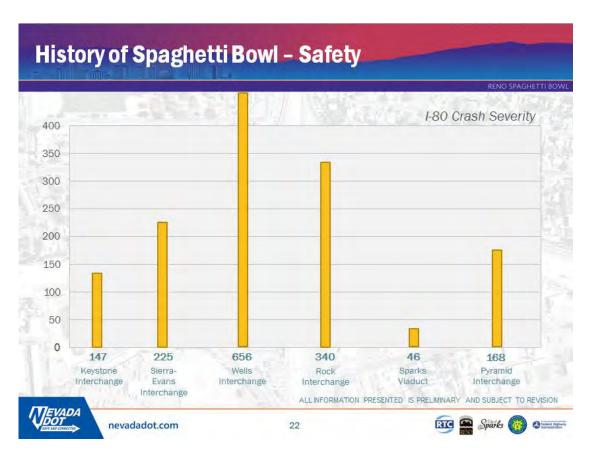






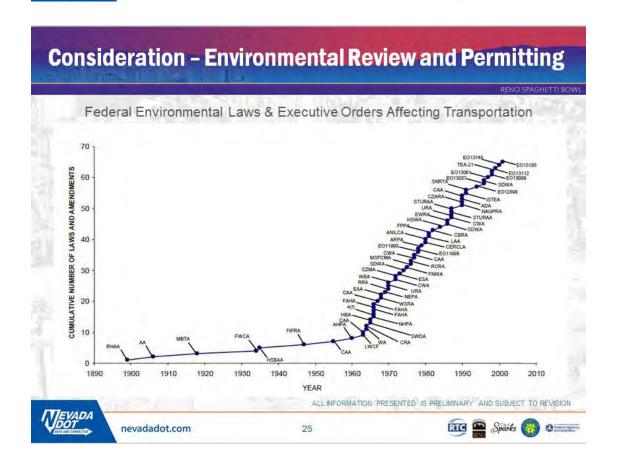


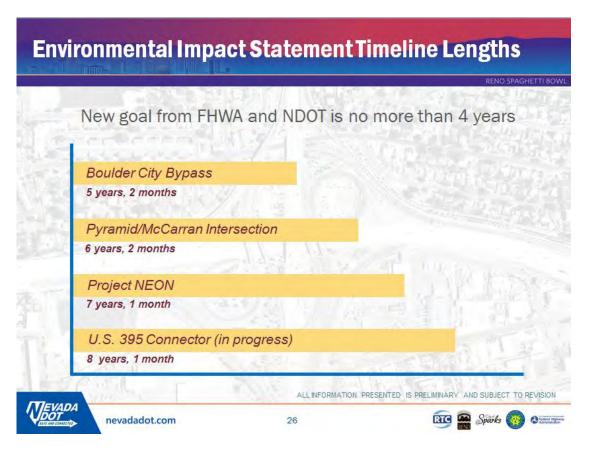






Consideration - Environmental Review and Permitting REND SPAGHETTI BOWL ■ National Environmental Policy Act (NEPA) levels ■ Categorical Exclusion (CE) ■ Environmental Assessment (EA) Finding of No Significant Impact (FONSI) ■ Environmental Impact Statement (EIS) Record of Decision (ROD) ALL INFORMATION PRESENTED IS PRELIMINARY AND SUBJECT TO REVISION PROSPAGHETTI BOWL ALL INFORMATION PRESENTED IS PRELIMINARY AND SUBJECT TO REVISION Revadadot.com 124







Consideration - Right-of-Way/Access Management

- The 5th Amendment to the U.S. Constitution states:
 - ... nor shall private property be taken for public use, without just compensation."
- All of our ROW activities are governed by the Uniform Relocation and Real Property Acquisition Policies Act of 1970, as amended, a.k.a. the Uniform Act.
 - This act was passed into law on January 2, 1971 as Public Law 91-646 to ensure that persons whose real property is acquired or who move as a result of projects receiving Federal funds will be treated fairly and equitably.
 - The Uniform Act is codified in title 42 of United States Code Chapter 61 and further defined in 49 Code of Federal Regulations (CFR) part 24 & 23 CFR part

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Consideration - Right-of-Way/Access Management

REQUIRED STEPS

- Project need is identified
- Project alignments are proposed
- Environmental document is completed
- Project alignment is selected
- Design is completed to a level that is sufficient to determine property impacts
- Project General Information Notices issued
- Acquisition/relocation

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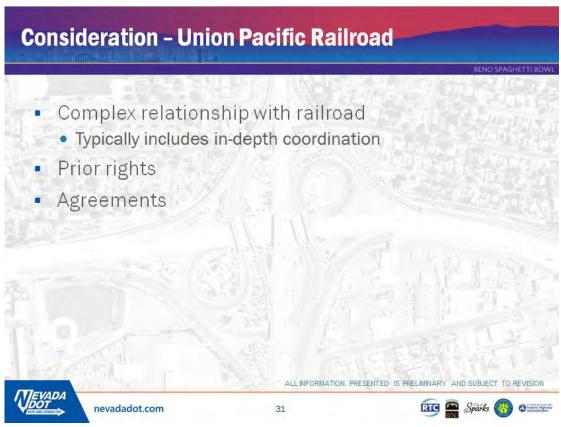




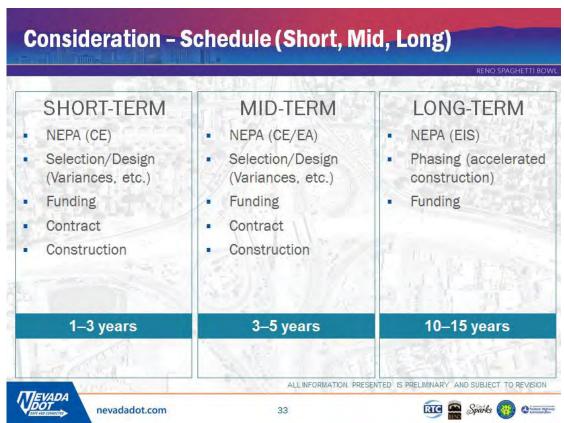


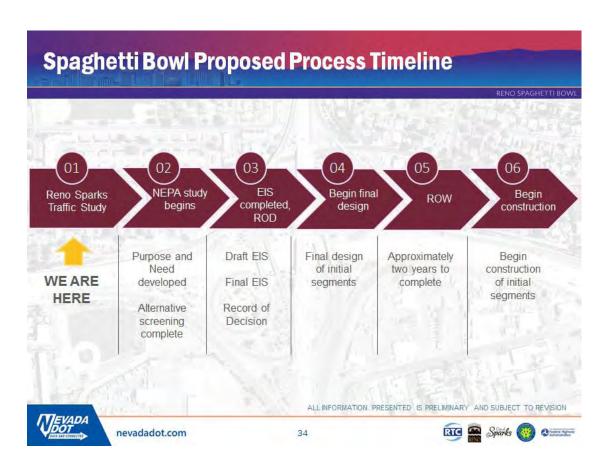




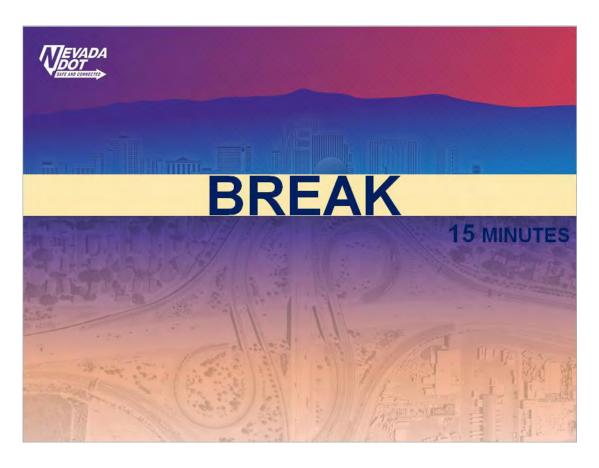




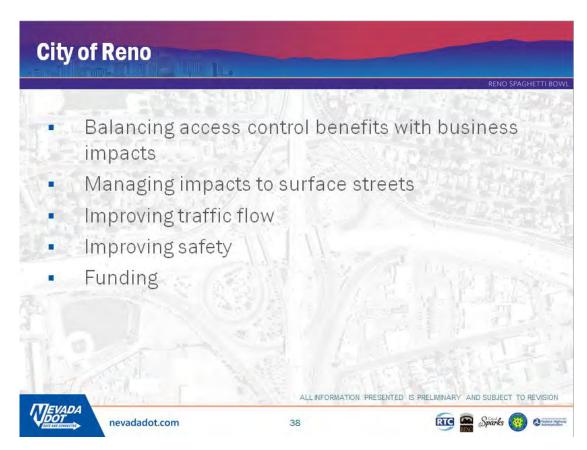


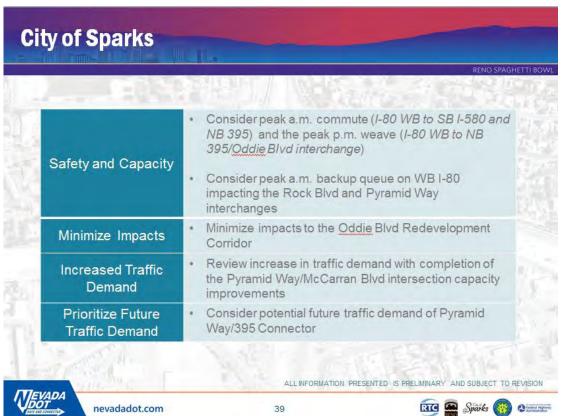




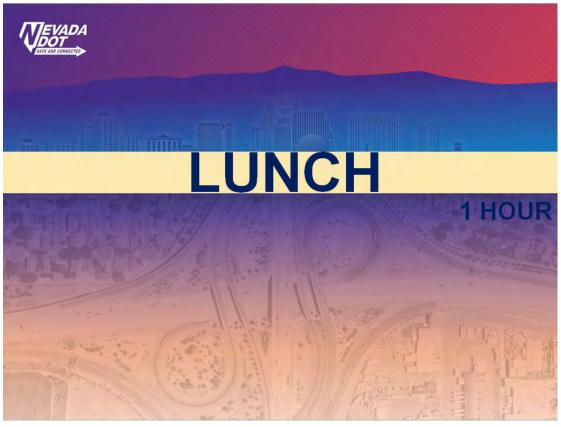








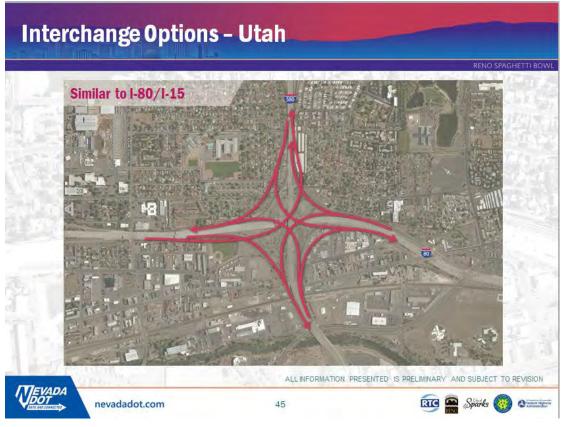




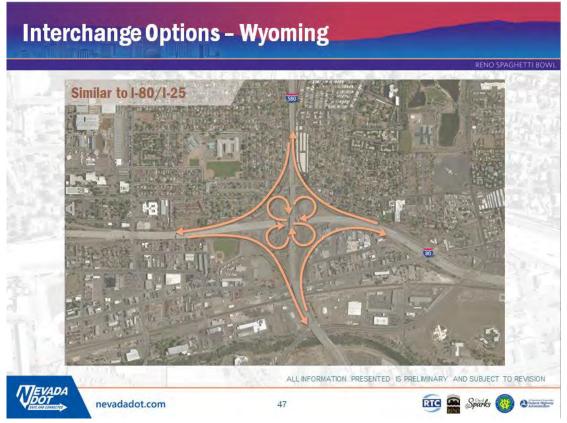


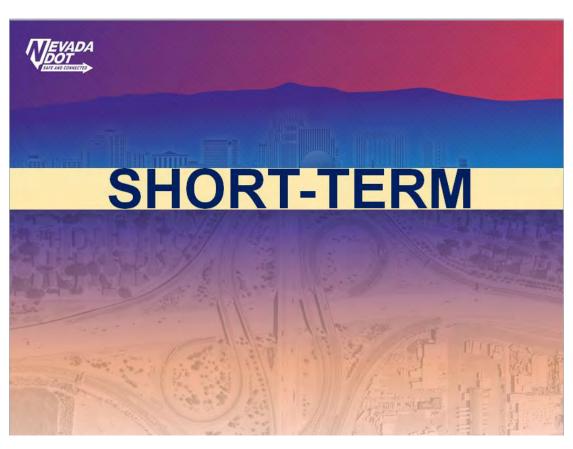






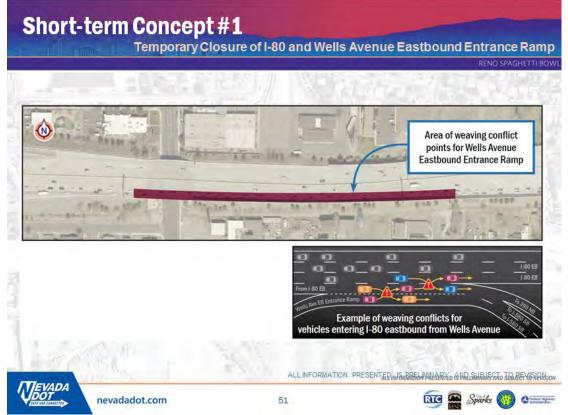






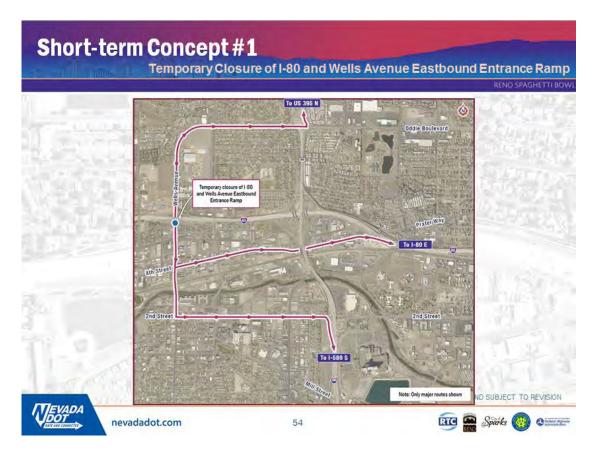






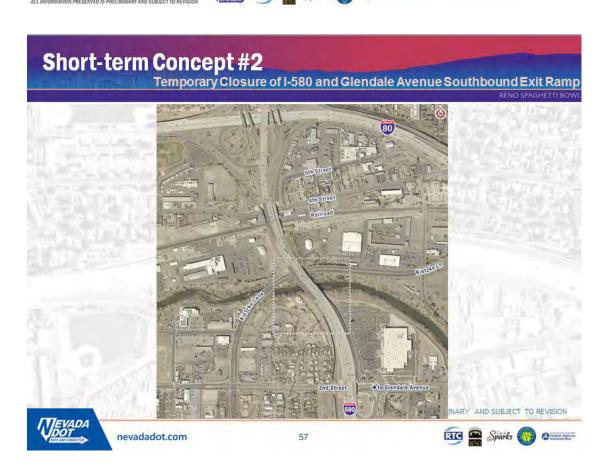


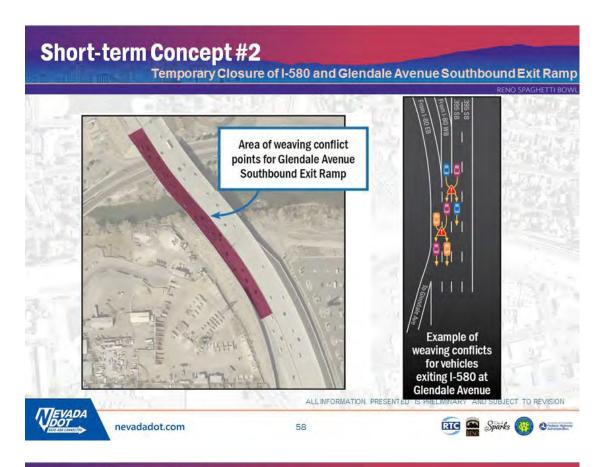


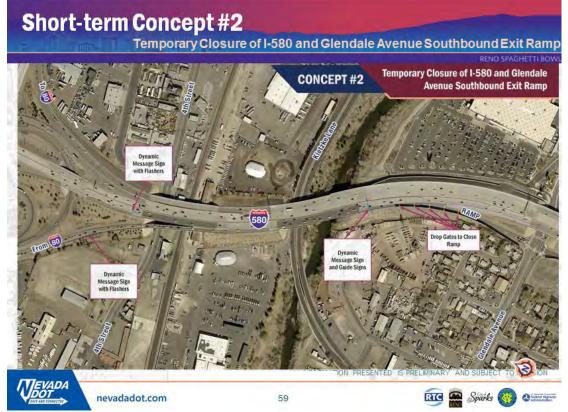




Temporary Closure of I-580 and Glendale Avenue Southbound Exit Ramp RENO SPAGHETH GOWN Potential routes for vehicles to get from I-580 southbound to Glendale Avenue during temporary closures Advantages Potential routes for vehicles to get from I-580 southbound to Glendale Avenue during temporary closures Advantages Only implemented during protection and analysing temporary closures Potential routes for vehicles to get from I-580 southbound to Glendale Avenue during temporary closures | Bottom or | Bottom | Bo









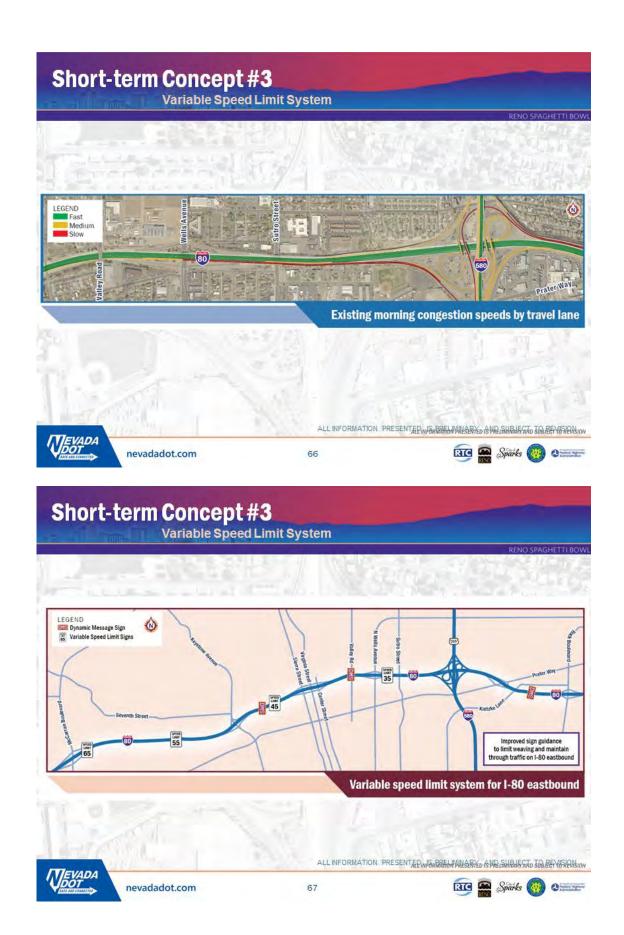


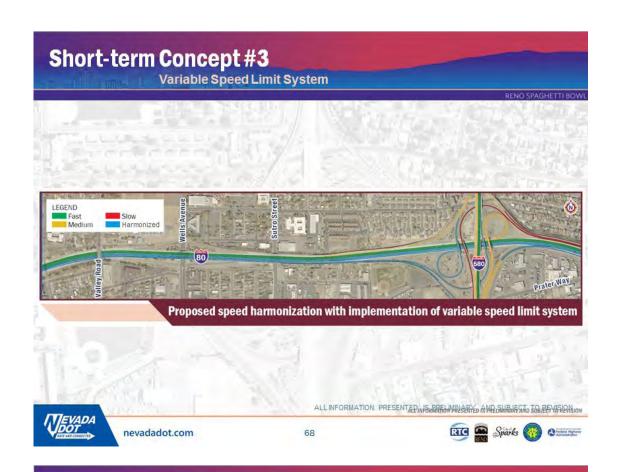
















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Short-term Concept #3

Variable Speed Limit System





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Improves

I-80 EB to I-580 SB

I-80 WB to I-580 SB



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Short-term Concept #3

Variable Speed Limit System

Advantages

- ✓ Lower speed differential
 - · Improves safety
 - · Improves capacity
 - · Easier for merging
- ✓ Could also be implemented during severe weather

Disadvantages

- * Additional resources needed at the Road Operations Center to manage the system
- × Increased enforcement may be needed

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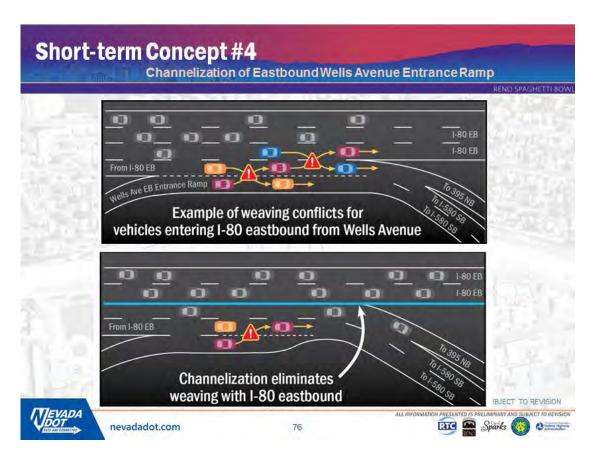














Short-term Concept #4

Channelization of Eastbound Wells Avenue Entrance Ramp

Advantages

- ✓ Limits weaving for better flow on I-80 eastbound and the I-80 eastbound to I-580 southbound ramp
- Reduces conflict points
 - · Improves safety

Improves

I-80 EB to I-580 SB

I-80 WB to I-580 SB

Disadvantages

- * Limits driver choices, even during off-peak periods
- More difficult for snow removal.
- Potential disregard by drivers (depending on chosen treatment)
- × Potential increase in maintenance (depending on chosen treatment)

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I-80 EB to I-580 SB

1-80 WB to 1-580 SB

☑

Short-term Concept #5

Channelization of the I-580 and Glendale Avenue Southbound Exit Ramp





Advantages

- ✓ Limits weaving for better flow on I-580
- Removes a lane merge for eastbound to southbound movements
- ✓ Reduces conflict points
 Improves safety

Disadvantages

- × Limits driver choices, even during off-peak periods
- Vehicles traveling on I-580 southbound will not be able to exit at Glendale
- × More difficult for snow removal
- × Potential disregard by drivers
- (depending on chosen treatment) Potential increase in maintenance (depending on chosen treatment)





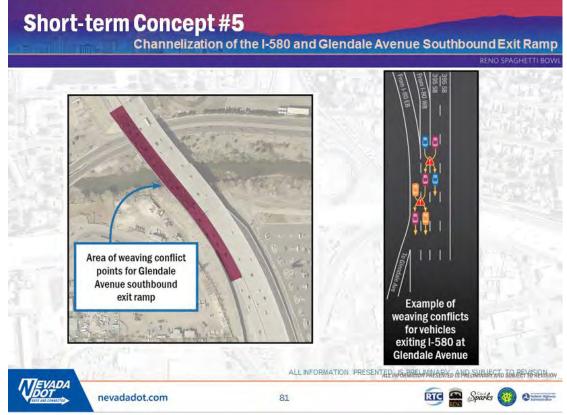




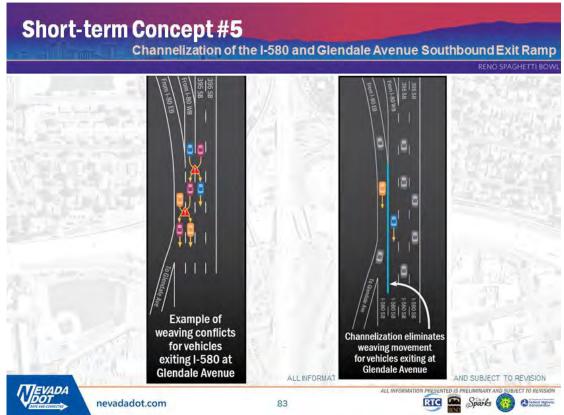












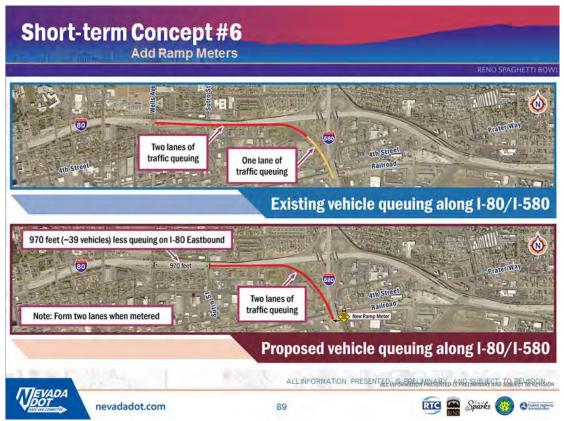






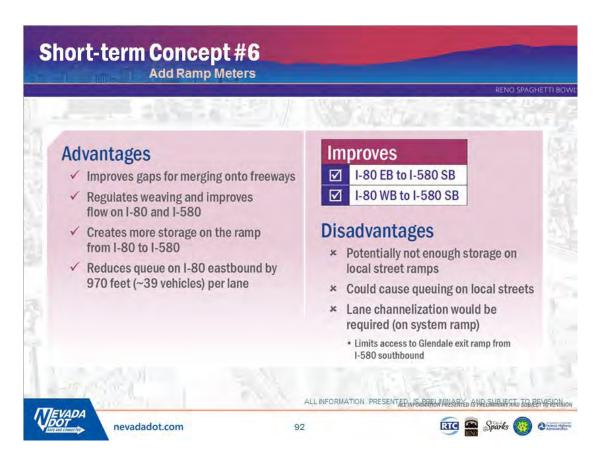


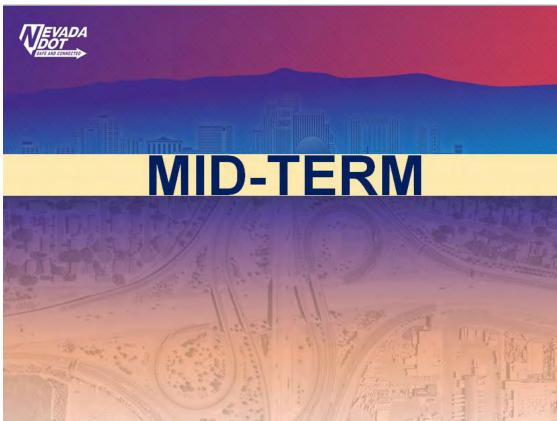












Mid-Term Concept #1 Two-lane Eastbound to Southbound Ramp



Components

- Modify E-S ramp to provide two continuous lanes to I-580 South
- Close I-580 South off-ramp Glendale
- Modify Glendale SB I-580 on-ramp to connect through Mill Street on-ramp

Advantages

- ✓ Removes E-S lane drop
- ✓ Reduces mainline weaving, thus, enhancing I-580 operations
- ✓ Improvements within right-of-way

Disadvantages

- × Closes I-580 off-ramp to Glendale
- Requires widening or reconstruction of older bridge structures

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Mid-Term Concept #2 Partial Two-lane Eastbound to Northbound Ramp



Advantages

- Provides additional storage on E-N to reduce backups onto E-S.
- Maintain existing bridge structure with small retaining walls
- √ Quick implementation

Disadvantages

× Limited impact by driver behavior

Components

Modify E-N Ramp to have two lanes between E-N/E-S gore and E-N bridge over I-80.

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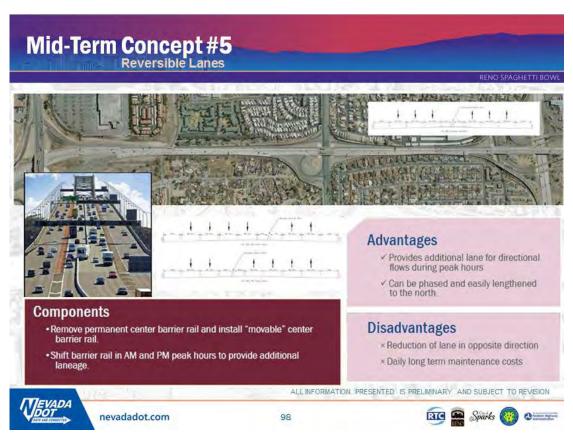




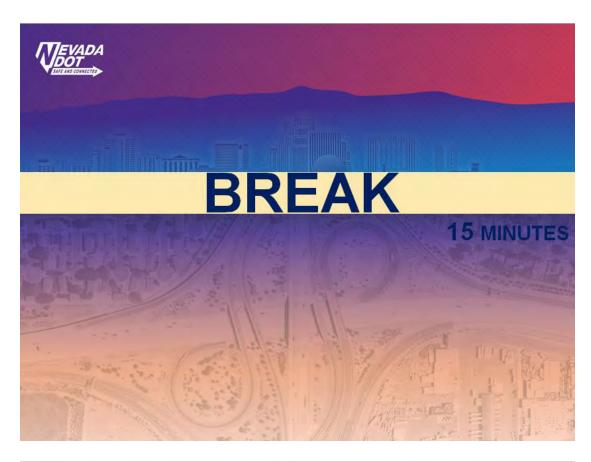


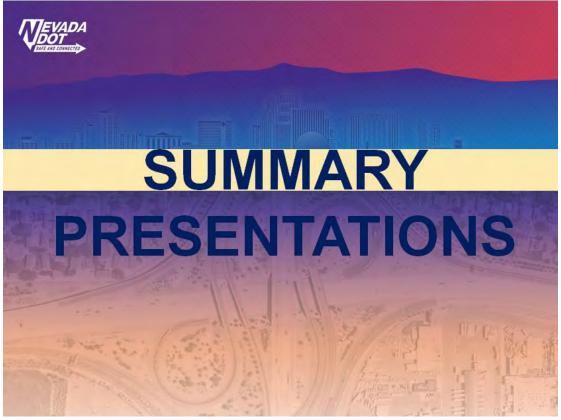


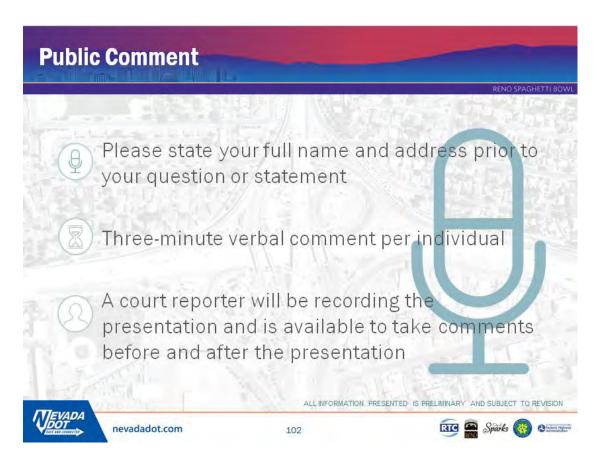






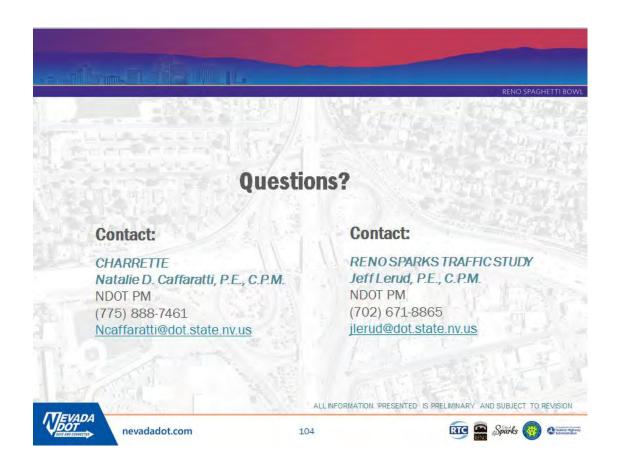






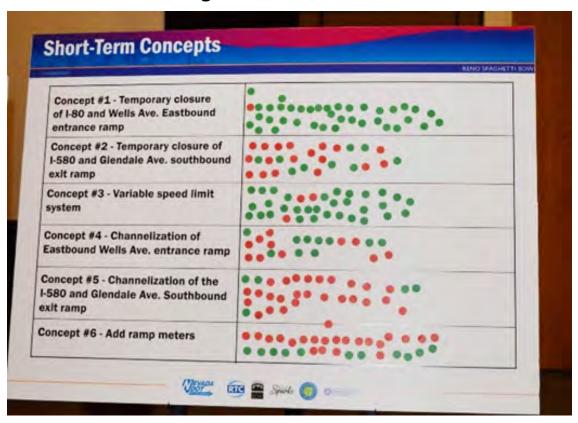


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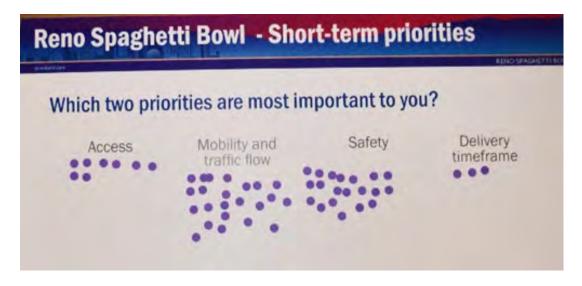


Short-Term Concepts

Break out session voting results:



Short-Term Priorities results:



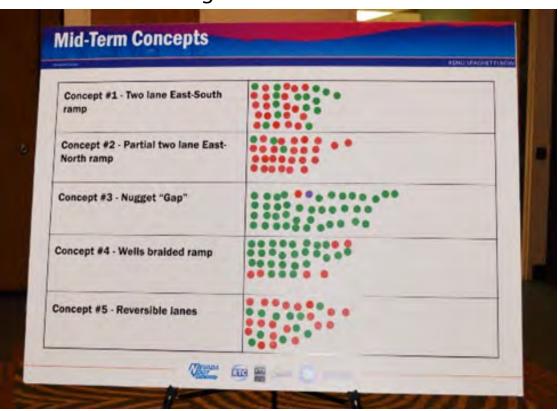
Breakout Session concept comments:

Short-Term Concept Comments	
Concept #1	I question if the weave is a significant contributor to the 80 Eastbound - 580 congestion, since the back-up persists far beyond the wells weave point.
	Great opportunity to test this as a potential long term solution.
	Could result in unsafe conditions on surface streets.
Concept #2	Consider closing Mill S/B off in conjunction between 80 - Glendale
	May worsen the short merge between Glendale and Mill.
	Concern about driver expectations.
Concept #3	Variable speed limit on 395 too!
Concept #4	Could the channelization be done with concrete rail?
Concept #5	Not compatible with driver expectation.
	Could cause a bigger safety issue.
Concept #6	Perhaps a longer protected lane to reduce the traffic backup onto 80?
	Add third lane to 395 N from 80 E.

^{*} Please redesign so the 80 Eastbound to 580 Northbound has a dedicated exit lane. 580 Southbound must narrow to a single lane anyway. But the congestion forces the Northbound traffic to wait when it is otherwise clear.

Mid-Term Concepts

Break out session voting results:



Mid-Term Priorities results:



Breakout Session concept comments:

Add third lane on US 395 North Concept #2 Can you move entrance for E-N ramp further to the east. Not have E-S at the same point. *There were only comments on concept #2 for the mid-term concepts.

Public Comments

Johnny Lau	Concept #1 – include a loop off ramp at SB to Glendale. Concept #3 – restripe I-80 from Rock to McCarran to add a lane and remove dual lane off ramp at Pyramid. Concept #4 – ES ramp just make it a flyover ramp down to just before Mill Street.
2388 Cuzco Drive	
Sparks, Nevada 89436	
(775) 240-3568	
johnnylau88@gmail. com	
David Keele	I think that the I-80 eastbound to 395/580 ramp is the worst bottle neck in the Spaghetti Bowl. The two concepts I most strongly feel would help flow are: #4 - channelization at Eastbound Wells and #5 - channelization at Glendale Southbound. I prefer the flexible delineator mounted on curb.
5045 Ross Drive	
Reno, Nevada 89519	
(775) 677- 9696	
b.tugli@att.net	
Garth Oksol	Short term versus Mid/Long-Term - We need to keep public perception at the forefront when weighing the value of short term improvements. The public thinks the Spaghetti Bowl has been under construction for years and years. While we in this room know that we redid the east leg, then the north leg, then the west leg, then two phases of the south leg. The problem is the public saw traffic control on all legs of the Spaghetti Bowl with each individual leg of construction. If a short-term fix can be done with minimal traffic impacts, go for it. If there are greater impacts, bite the bullet and do the mid/long-term fix. The public is tired of the Spaghetti Bowl constantly being worked on.
10560 Batou Court	
Reno, Nevada 89521	
(775) 742-6851	
goksol@rtcwashoe.com	
Clara Lawson	The time of day closure of Wells seems like a mid-term throw-away solu-
Washoe Community	tion and that long-term solution will close the intersection. Closing on/off ramps appears a loss - why not replace closed ramps with efficient front-
Service Department	age roads and surface streets.
Reno, Nevada	
(775) 328-3603	
clawson@washoecounty.	
Brent Wilbur	Light riels from major population centers (W. Reno, S. Reno, Stead,
5275 W. 7 th Street #166	Spanish Springs) to major industrial/commercial centers (s. Reno, Stead, Sparks, Tahoe-Reno Industrial Center) will alleviate enough traffic to begin
Reno, Nevada 89523	construction of underground bypasses for major traffic flows (EB I-80> SB US 395; WB I-80> SB US 395). Pinion Park could act as an inter-
(775) 250-1721	change for the light rails. After the underground bypasses are built, traffic flows on the surface would be light enough that tear down of the Spaghet-
bpwilbur@gmail.com	ti Bowl would be feasible. Separately, expand the Reno-Stead Airport and demolish the Reno-Tahoe Airport to make room for commerce and industry.
Cal Dibble	Saw TV article on redesign of spaghetti bowl. Suggest designers look at
caldibble@frontoer.com	painting lane destinations on roadways like is done on AZ freeways. It is cheap and really works well.

Invitations

Save the Date:















Formal invitation:



Those invited:

State of Nevada

Governor Brian Sandoval Lt. Governor Mark Hutchison Ron Knecht

Regional Transportation Commission (RTC)

Lee Gibson Amy Cummings Jeff Hale David Jickling Michael Moreno Joe Harrington

RTC Board

Paul McKenzie Neoma Jardon Oscar Delgado Julia Ratti

City of Reno

Hillary Schieve Steve Bunnell John Flansberg

Reno-Sparks Indian Colony

Arlan Melendez Scott Nebesky Steve Moran

Grand Sierra Resort

Tracy Minmo Mike Gilbert Kent Vaughan

Reno-Sparks Convention and Visitors Authority

Jennifer Cunningham

Reno-Tahoe Airport Authority

Lissa Butterfield

Daniel P. Bartholomew

UPRR

Terrel Anderson

Federal Highway Administration (FHWA)

Paul Schneider Susan Klekar Greg Novak Jin Zhen

Abdelmoez Abdalla Christina Leach

Nevada Transportation Board

Len Savage Frank Martin Tom Skancke Emil "B.J." Almberg, Jr

AGC

Craig Madole

Nevada Trucking Association

Paul Enos

City of Sparks

Ron Smith Jon Ericson Geno Martini N Krutz

Washoe County

Bob Lucey
Marsha Berkbigler
John Slaughter
Kitty Jung
Vaughn Hartung
Chuck Allen
David Solaro
Bill Whitney
Xuan Wang

Wal-Mart

Denise West

Highway Patrol

Rob Stepien

Department of Public Safety

Colonel Dennis S, Osborn Andy McAfee

Reno Police Department

Jason Soto

Community representatives

Lori Rodriguez Bonnie Weber

TMRPA

Jeremy Smith

NDOT

Sondra Rosenburg P.D. Kiser

P.D. Kiser
Troy Martin
Bill Hoffman
John Terry
Thor Dyson

Thor Dyson Steve Cooke Ruth Borelli Paul Frost Amir Soltani

Denise Inda

Jessen Mortensen Ken Mammen Anita Bush Meg Ragonese Sean Sever

Christopher Young Thomas Moore Rodney Schilling Jeff Lerud Julie Maxey Natalie Caffaratti

Kent Steele Sarah Vido

Advertising

Newspaper notice:



RENO SPAGHETTI BOWL CHARRETTE

WHEN: Thursday, April 28, 2016, from 9 a.m. - 4 p.m.

LOCATION: The Reno-Sparks Convention Center, Rooms A3 – A4 4590 S. Virginia St, Reno, NV

PURPOSE OF MEETING: The Nevada Department of Transportation (NDOT) is hosting a charrette to discuss potential future transportation improvements to the Reno Spaghetti Bowl (I-8Q/I-58Q/US-395 interchange). It will be held in partnership with the Regional Transportation Commission of Washoe County, the City of Reno, the City of Sparks, Washoe County, and in cooperation with the Federal Highway Administration. You are invited to listen to community leaders and agencies explore possible solutions in the morning session, and to participate in afternoon breakout sessions, which begin at 1:30 p.m. Parking will be free for all attendees.

CONTACT: For more information about the meeting, contact Natalie Caffaratti at 775.888.7164. If you are unable to attend in person, please visit us at Nevadadot.com and click on the Home page banner for the Reno Spaghetti Bowl Charrette or send your comments to ncaffaratti@dot.state.nv.us.













NOTE: Reasonable efforts will be made to assist and accommodate physically handicapped persons desiring to attend the meeting. Requests for auxiliary aids or services to assist individuals with disabilities or limited English proficiency should be made with as much advance notice as possible to Julie Maxey. Nevada Department of Transportation, Public Hearings Officer, at (775) 888-7171 or Email jmaxey@dot.state.nvus

Newspaper notice:

