

 Caltrans

 NC
TPA

Soscol Junction Project



November 2014

 Caltrans

 NC
TPA

Presentation Outline

- Project Description
 - Location
 - Purpose of the Project
 - Proposed Solutions
- Studies on Traffic and Transportation
- Other Studies
- Simulated Views
- Questions/Answers

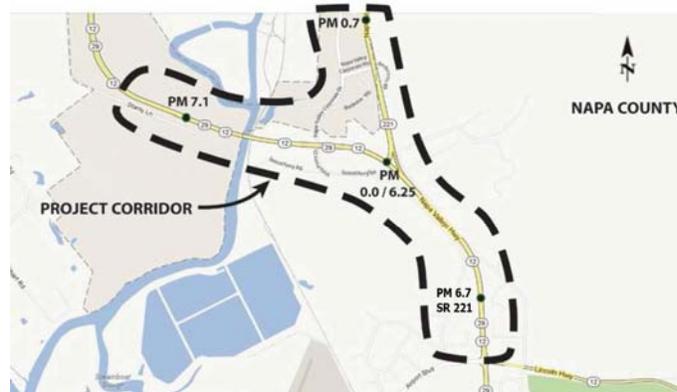
Project Description: **Location**



Sponsor Agency: NCTPA

Implementing Agency: Caltrans

Current Status: Environmental Phase



Project Description: **Purpose**



The purpose of the project is to alleviate congestion, improve operations, and enhance safety at the SR 221 and SR 29 intersection.

Project Description: **Proposed solutions**

The proposed solution is to construct a two-lane connector (flyover) from southbound SR 221 to the southbound 29 with two intersection options as following:

- Alternative 5 Option 1: Keeping the signalized intersection at Soscol Ferry and SR221/SR29
- Alternative 5 Option 2: Removing the signalized intersection at Soscol Ferry and SR221/SR29

Proposed Solutions: Alternative 5, Option 1  

ALTERNATIVE 5 - OPTION 1



SOSCOL JUNCTION IMPROVEMENT PROJECT

Proposed Solutions: Alternative 5, Option 2  

ALTERNATIVE 5 - OPTION 2

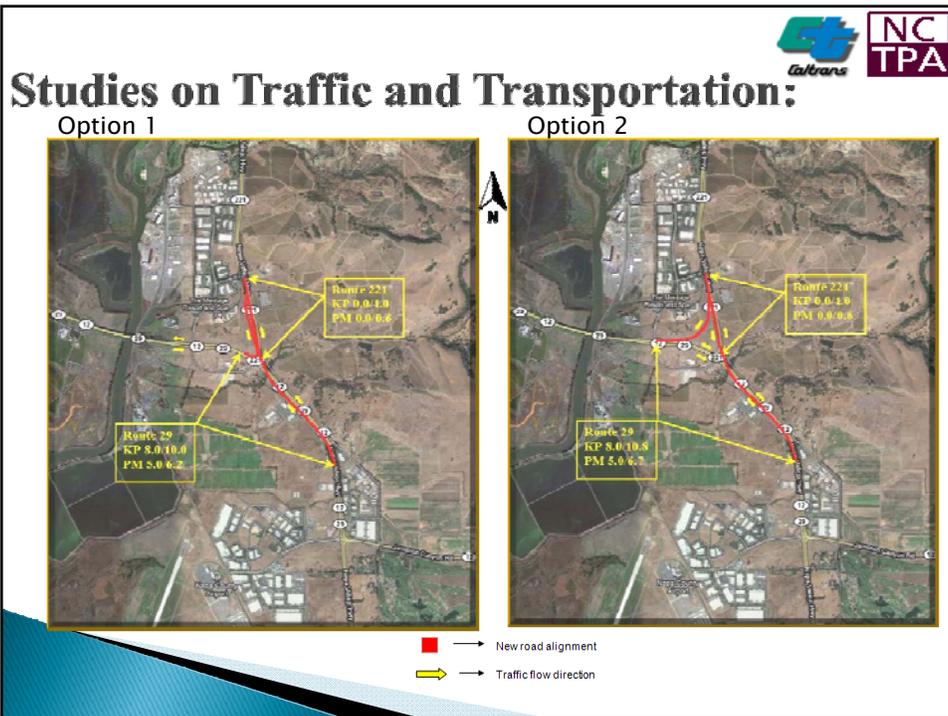


SOSCOL JUNCTION IMPROVEMENT PROJECT




Proposed Solutions: Summary

Summary of Improvements		
Alternative 5, Option 1	Alternative 5, Option 2	No Build
The flyover bridge will be approximately 1,592 ft long with retaining walls on both approaches.	The flyover bridge will be approximately 1,044 ft long with retaining walls on both approaches.	No improvements
Keep the existing turn configuration at Soscol Ferry Road and SR 221/29.	Construct a single connector ramp from southbound SR 221 to northbound 29.	
Cost		
\$40.0 million	\$39.9 million	\$0





Studies on Traffic and Transportation:

Existing Condition

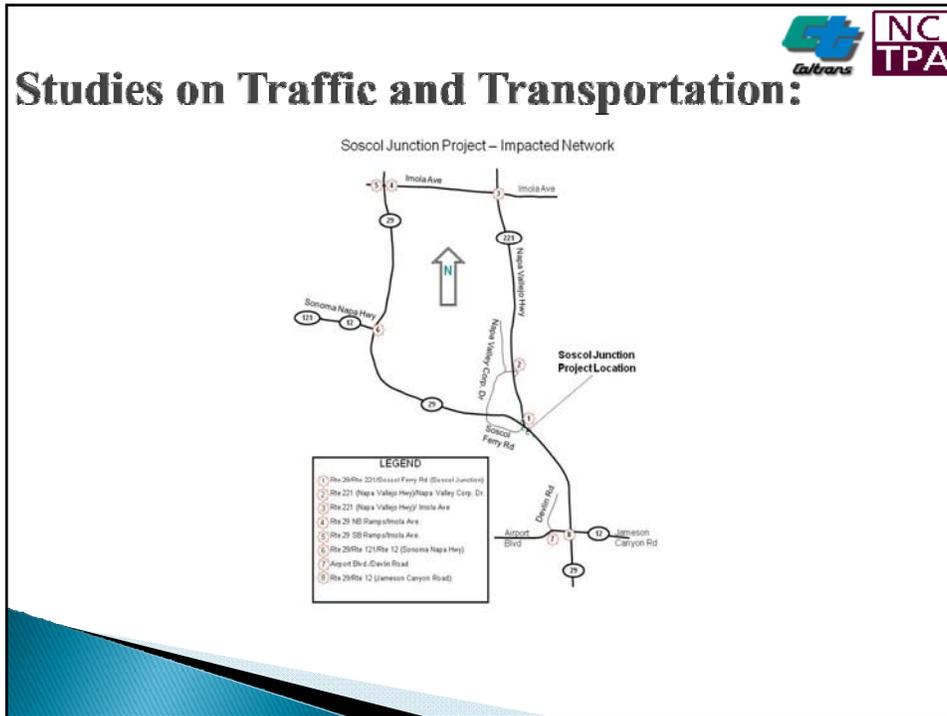
Intersection	Existing Conditions				2039 No Build			
	AM Peak		PM Peak		AM Peak		PM Peak	
	Delay in sec	L O S	Delay in sec	L O S	Delay in sec	L O S	Delay in sec	L O S
SR 29/221/Soscol Ferry Road (Soscol Junction)	54	D	151	F	433	F	395	F



Studies on Traffic and Transportation:

2039 Design Year Condition

Intersection	2039 No Build				2039 Alternative 5, Option 1				2039 Alternative 5, Option 2			
	AM Peak Period		PM Peak Period		AM Peak Period		PM Peak Period		AM Peak Period		PM Peak Period	
	Delay in sec	LOS	Delay in sec	LOS	Delay in sec	LOS	Delay in sec	LOS	Delay in sec	LOS	Delay in sec	LOS
SR 29/221/Soscol Ferry Road	433	F	395	F	348	F	296	F	2	A	19	B



Studies on Traffic and Transportation:

2039 Design Year Condition

Intersection	2039 Alternative 5, Option 1				2039 Alternative 5, Option 2			
	AM Peak Period		PM Peak Period		AM Peak Period		PM Peak Period	
	Delay in sec	LOS	Delay in sec	LOS	Delay in sec	LOS	Delay in sec	LOS
② SR 221/Napa Valley Corporate Dr.	94	F	54	D	83	F	37	D
③ SR 221/Imola Avenue	68	E	175	F	69	E	176	F
④ SR 29 NB ramps/ Imola Avenue	68	E	30	C	30	C	31	C
⑤ SR 29 SB ramps/ Imola Avenue	13	B	27	C	13	B	43	D
⑥ SR 29/121/12	151	F	212	F	142	F	235	F
⑦ Airport Boulevard/ Devlin Road	14	B	13	B	11	B	13	B
⑧ SR 29/12	136	F	284	F	148	F	303	F



Studies on Traffic and Transportation:

Summary Changes in Traffic Patterns		
Alternative 5, Option 1	Alternative 5, Option 2	No Build
Keep the traffic signal at the intersection of SR 29, SR 221 and Soscol Ferry Road intersection.	Remove the traffic signal at the intersection of SR 29, SR 221 and Soscol Ferry Road .	No changes
All turn movements, except for the left-turn from southbound SR 29 to southbound SR 221, would remain.	All left turns and Soscol Ferry Road through movements to SR 221 would be eliminated at the intersection of SR 29, SR 221 and Soscol Ferry Road intersection.	



Other Studies :

- Biological Resources
 - United States Fish and Wildlife Service
 - National Oceanic and Atmospheric Agency
 - United States Army Corps of Engineer
 - Regional Water Quality Control Board
 - California Department of Fish and Wildlife
 - Permitting with USACOE, CDFG and RWQB
- Archaeology
 - State Historic Preservation Officer
- Air Quality
 - MTC

Simulated Views - 1




SIMULATED CONDITION →

Option 1 - Looking southeast in the direction of SR 221 to the proposed southbound SR 29 flyover. Shown with longer flyover and no embankment. There is no off-ramp from SR 221 to SR 29 in this option.





EXISTING CONDITION
From the Grape Crusher Vista Point, looking southeast toward the intersection of Soscol Ferry Road/SR 221 and SR 29.



SIMULATED CONDITION →

Option 2 - Looking southeast in the direction of SR 221 to the proposed southbound SR 29 flyover. Shown with embankment and shorter flyover. This option also includes an off-ramp from SR 221 to SR 29.

Simulated Views - 2






EXISTING CONDITIONS
On northbound SR 29, looking towards Soscol Ferry Road/SR 221



SIMULATED CONDITION

Looking north towards the proposed southbound SR 29 flyover with access to Soscol Ferry Road remaining. This simulation condition applies to both alternatives.

Simulated Views - 3



SIMULATED CONDITION

Option 1 - Looking northeast towards the proposed southbound SR 29 flyover. Access to Soscol Ferry Road remains open in this option. Shown with longer flyover and no embankment.



EXISTING CONDITION

Looking northeast towards the intersection of Soscol Ferry Road/SR 221 and SR 29 from the Villa Romano restaurant.

SIMULATED CONDITION

Option 2 - Looking northeast towards the proposed southbound SR 29 flyover. Shown with shorter flyover and embankment.



Simulated Views - 4



EXISTING CONDITION

Looking south at Southbound SR 221.



SIMULATED CONDITION

Option 2 - Looking south at southbound SR 221 and the proposed off-ramp from southbound SR 221 to northbound SR 29.



End / Questions?

