



in association with



Community-based traffic
engineering and transportation
planning consultants



Skyway Corridor Study



September 19, 2008

Tonight's Agenda

Introduction

Town and Team Members

Project Overview

Background

Activities to Date

Studies to Date

Review Alternatives

Themes, Features, and Implications

Questions and Answers

What's Next?

Report Card Exercise

Process

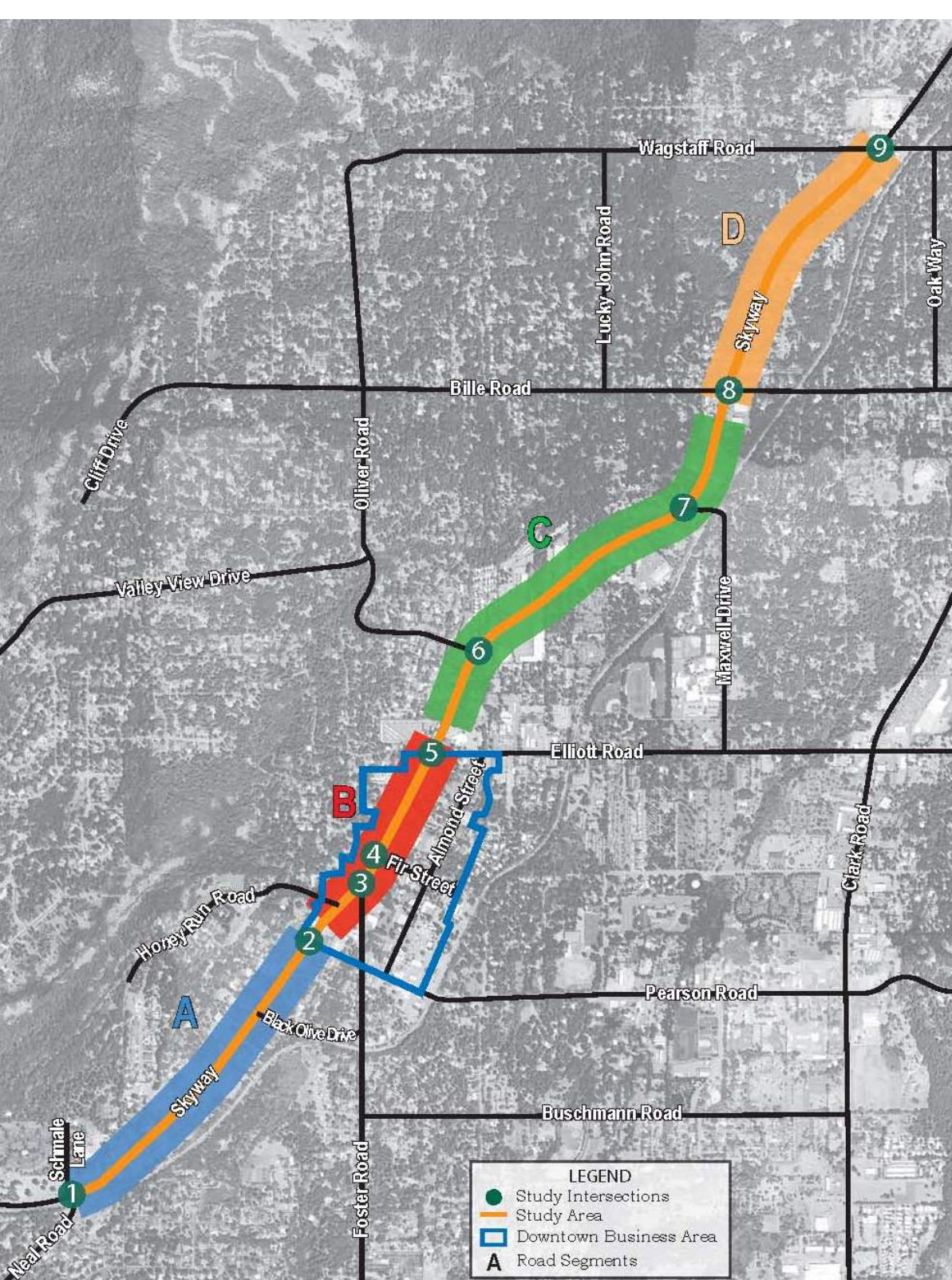
Investigated Existing Traffic Conditions

Stakeholder Interviews

Alternative Treatment Options

Public Workshops

Final Concept Plans



Corridor Study Segments

Study Area

- **Skyway**
- **Neal Road to Wagstaff Road**
- **Downtown focus**
- **Intersection operations**
- **Traffic Safety**
- **Pedestrian and Bike Facilities**
- **Parking**

Current Issues

- **Speed of traffic**
- **Pedestrian safety**
- **Need to enhance downtown/attract shoppers**
- **Conflicts with through traffic**
- **Need for turn lanes**
- **Bicycle safety**

Daily Traffic Volumes

Existing 2008

12,700 north of Bille Road

17,500 in downtown area

23,500 south of Pearson Road

Year 2035

16,700 north of Bille Road

21,600 in downtown area

32,400 south of Pearson Road

Existing Conditions

Intersection	AM PEAK		PM PEAK	
	Delay	LOS	Delay	LOS
1 Neal-Schmale Lane	14.3	B	NA	NA
2 Pearson Road	16.7	B	24.7	C
3 Honey Run	NA	NA	NA	NA
4 Foster Road	NA	NA	NA	NA
5 Fir Street	NA	NA	NA	NA
6 Elliott Road	20.3	C	34.1	C
7 Oliver Street	18.4	B	16.2	B
8 Maxwell Drive	13.2	B	16.6	B
9 Bille Road	28.0	C	28.5	C
10 Wagstaff Road				
<i>All-Way Stop</i>	22.8	C	44.4	E
<i>Signalized</i>	16.9	B	18.7	B

Collisions

Intersection	Collisions (1998-2006)	Calculated Rate (c/mve)	State Average (c/mve)	Ratio
1 Black Olive Drive	29	0.35	0.14	2.50
2 Foster Road	16	0.29	0.14	2.07
3 Fir Street	15	0.33	0.18	1.83
4 Bille Road	30	0.63	0.43	1.47
5 Elliott Road	32	0.59	0.43	1.37
6 Honey Run-Birch St.	21	0.46	0.41	1.12
7 Oliver Road	18	0.39	0.43	0.91
8 Pearson Road	13	0.22	0.28	0.79
9 Wagstaff Road	9	0.29	0.41	0.71
10 Neal- Schmale Lane	12	0.22	0.43	0.51

Spring 2008 Travel Time and Delay

Southbound AM Peak

- 19 mph (N of Wagstaff to S of Neal)
- 260 seconds of delay
- 60 % of delay at Wagstaff

Northbound PM Peak

- 26 mph (N of Wagstaff to S of Neal)
- 100 seconds of delay
- 35 % of delay at Wagstaff

Stakeholder Interview Results

- **Increase Pedestrian Safety- very difficult/dangerous to cross Skyway**
- **Slow Traffic Speeds – Skyway is used as a freeway corridor to Chico and Magalia**
- **Sidewalks are too narrow and aren't continuous throughout downtown**
- **Not safe to bike on Skyway**

Stakeholder Interview Results

- **Need a distinctive element/character that defines the downtown area**
- **Need more landscaping**
- **Parking is an issue, difficult/unsafe to park on the street**
- **Lack of pedestrian connections to and through downtown**

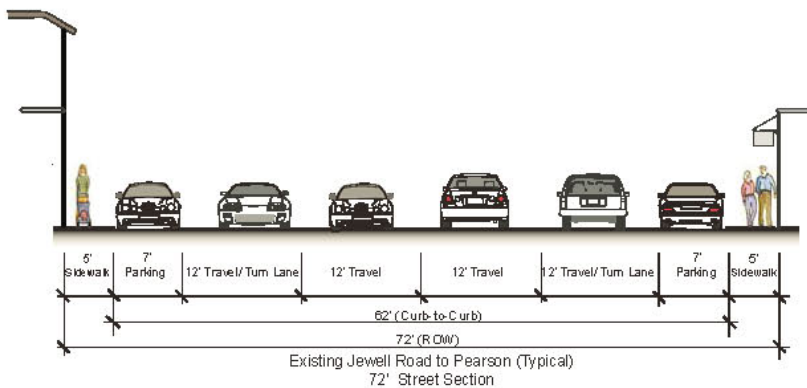
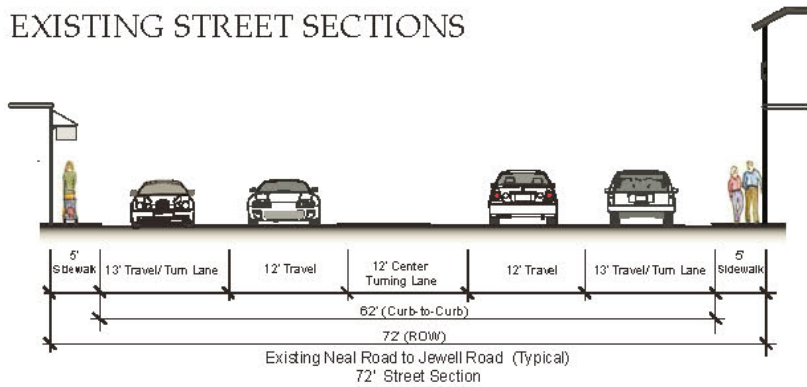
Design Features Considered

- Reducing number of through lanes
- Reducing width of lanes
- Wider sidewalks with added amenities
- Provide new street trees
- On-street bicycle lanes
- Downtown plaza
- Center turn lanes and medians
- Synchronized traffic signals

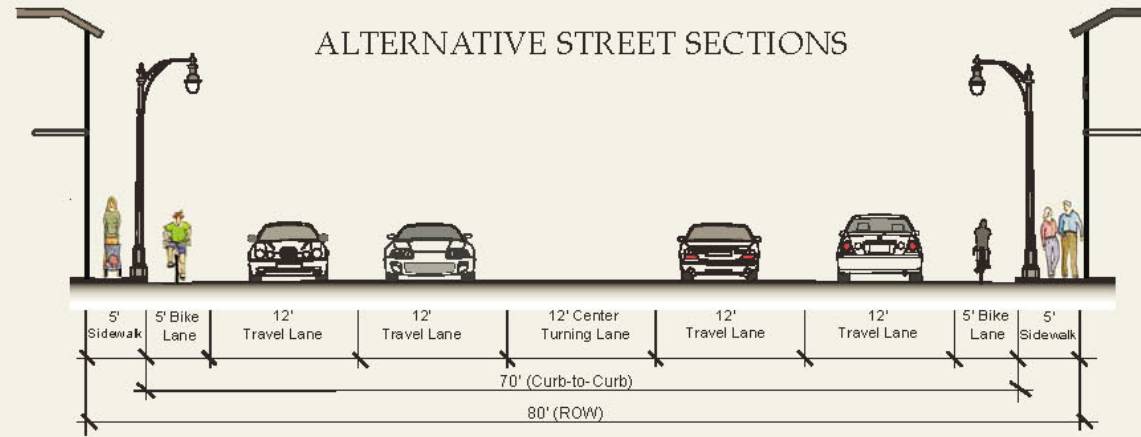
KEY MAP



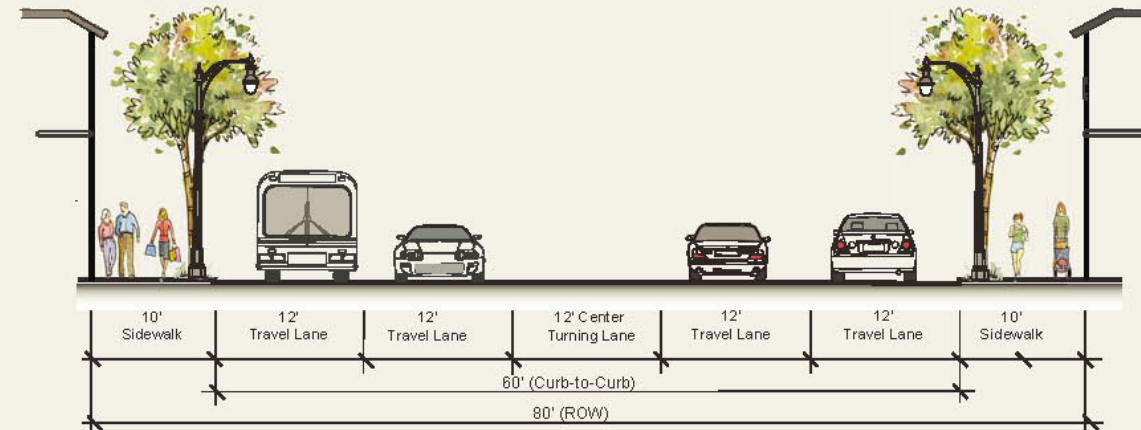
EXISTING STREET SECTIONS



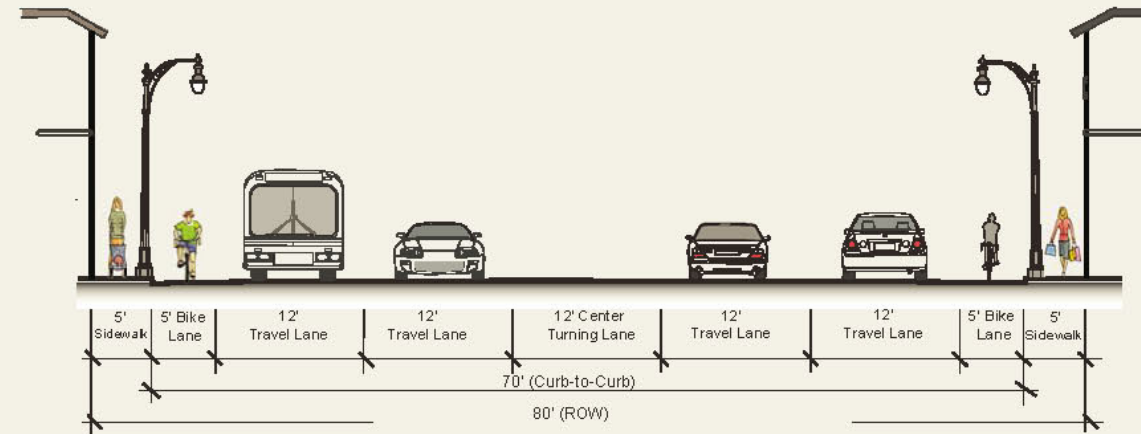
ALTERNATIVE STREET SECTIONS



Alternative A.1 - 80' Street Section



Alternative A.2 - 80' Street Section

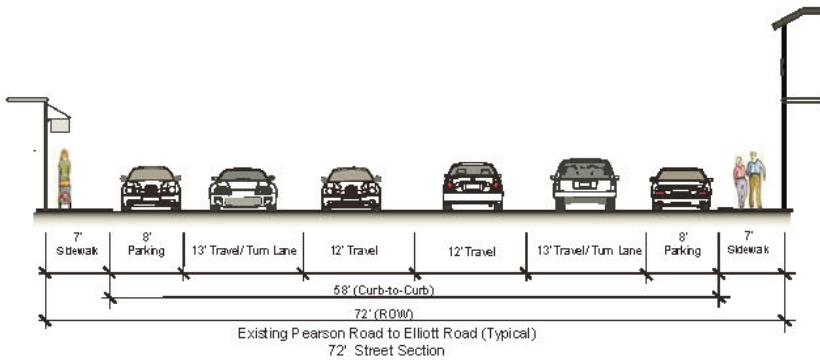


Alternative A.3 - 80' Street Section

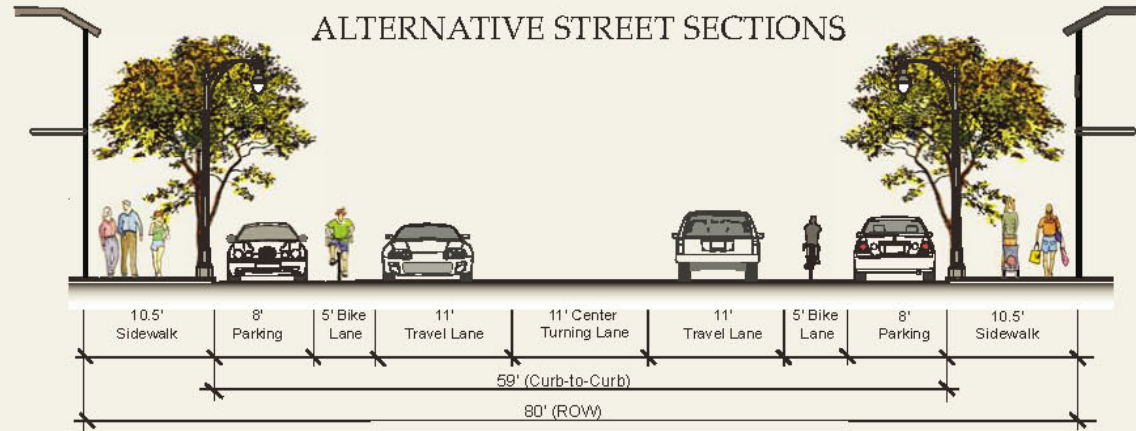
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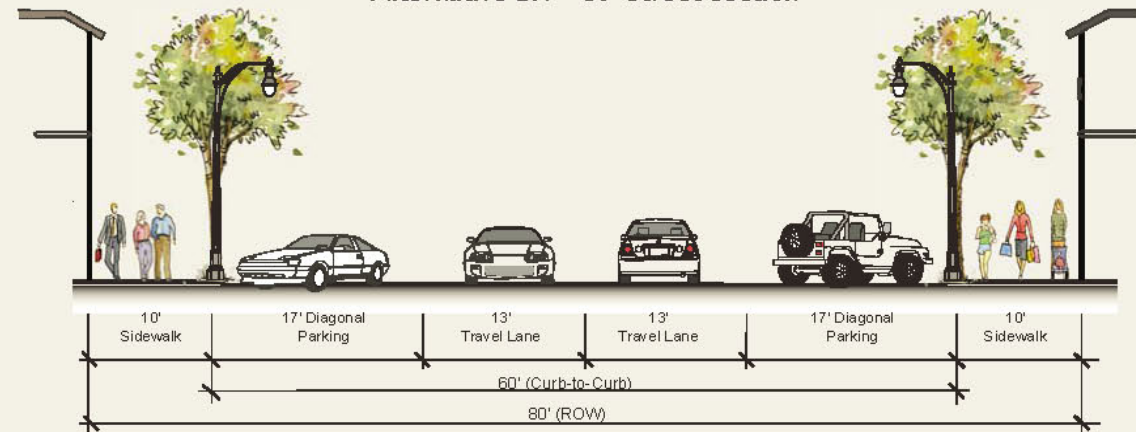
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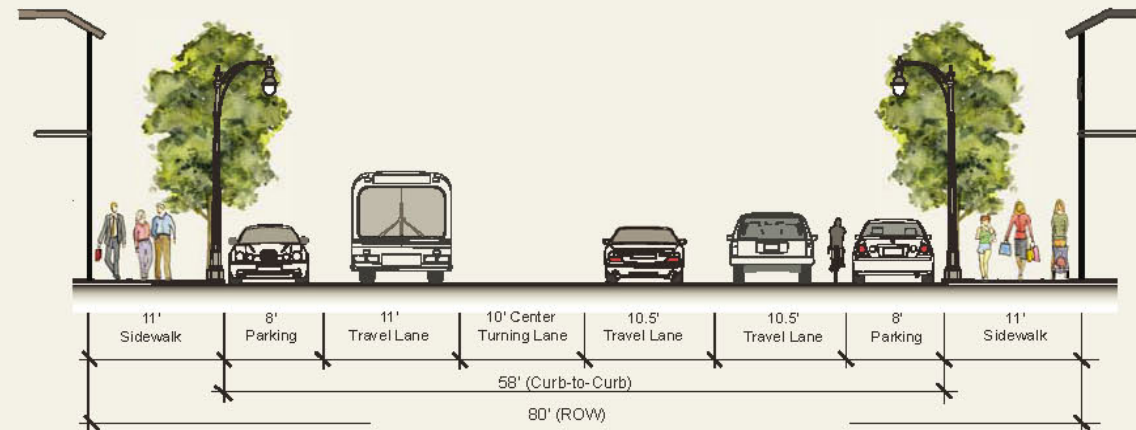
ALTERNATIVE STREET SECTIONS



Alternative B.1 - 80' Street Section

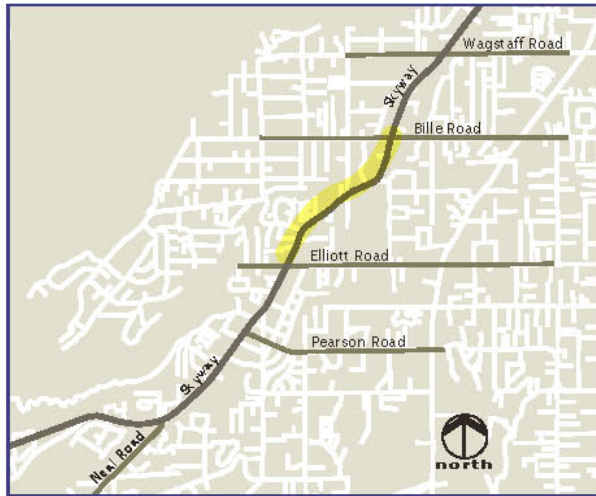


Alternative B.2 - 80' Street Section

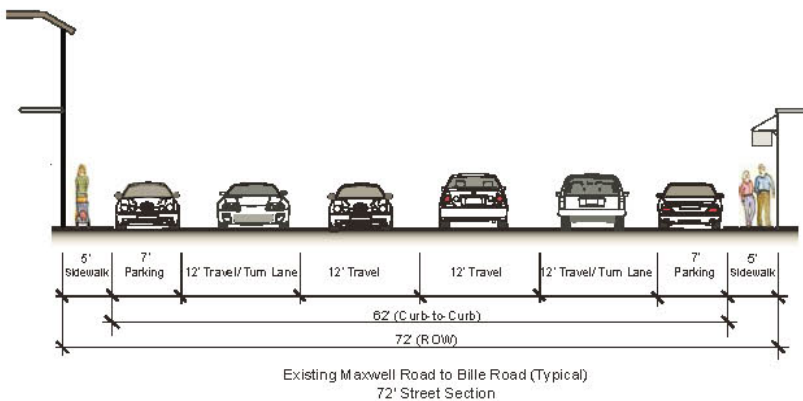
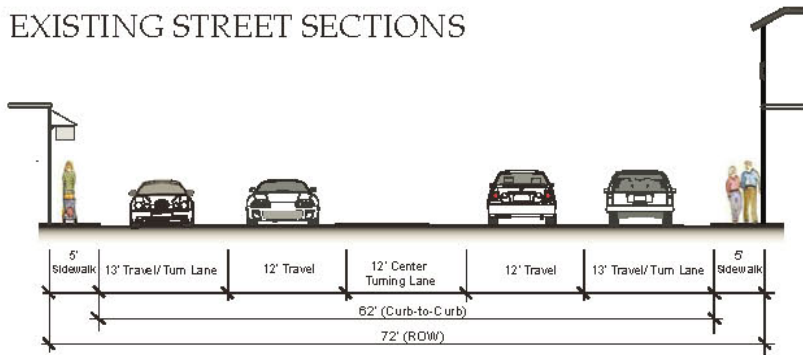


Alternative B.3 - 80' Street Section

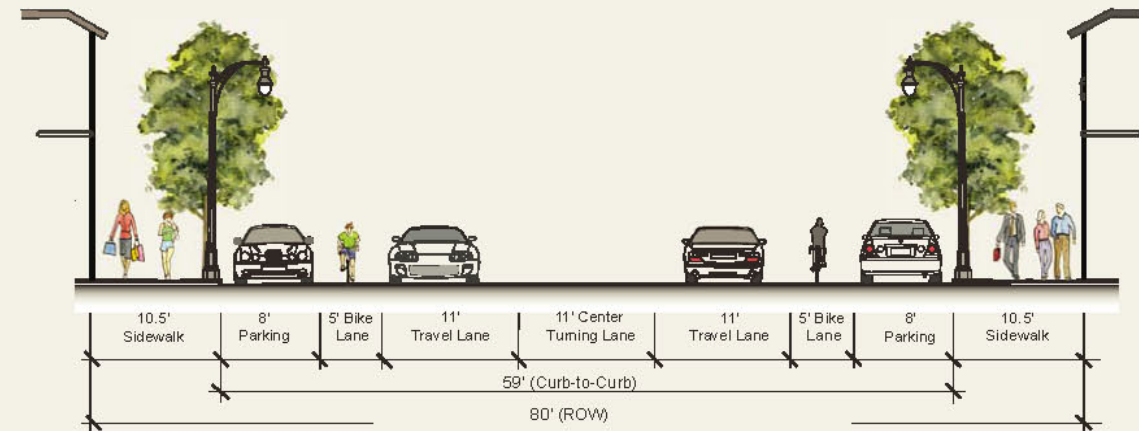
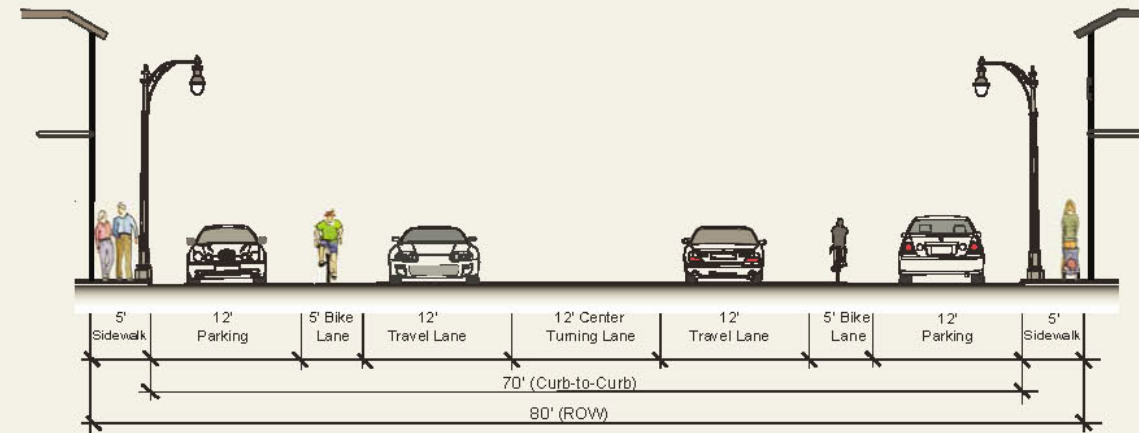
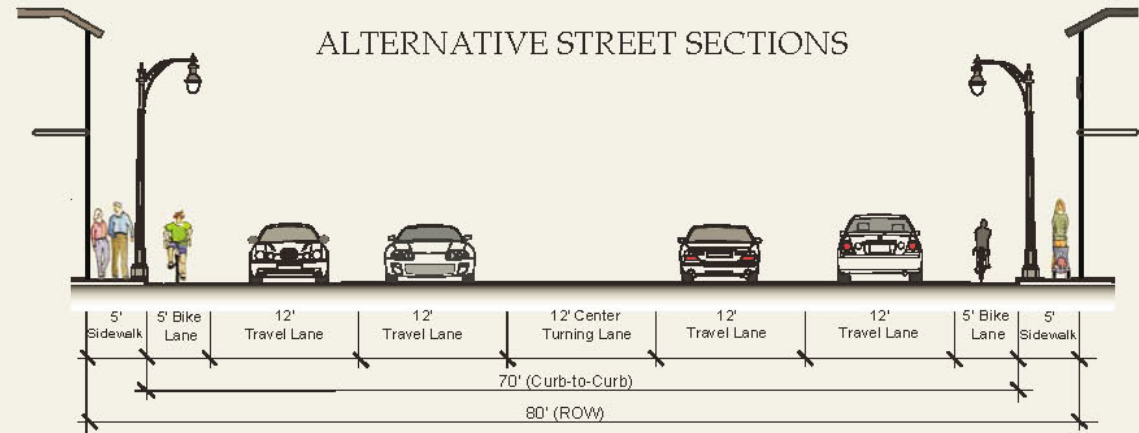
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EXISTING STREET SECTIONS



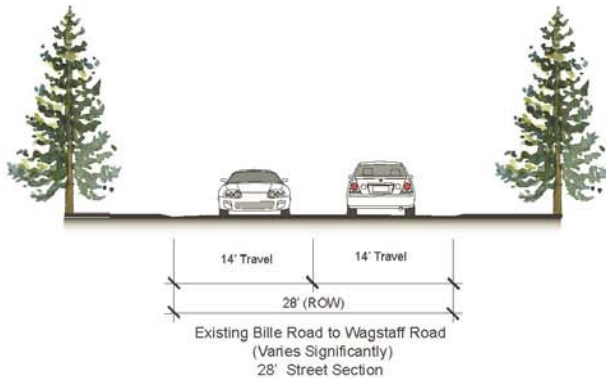
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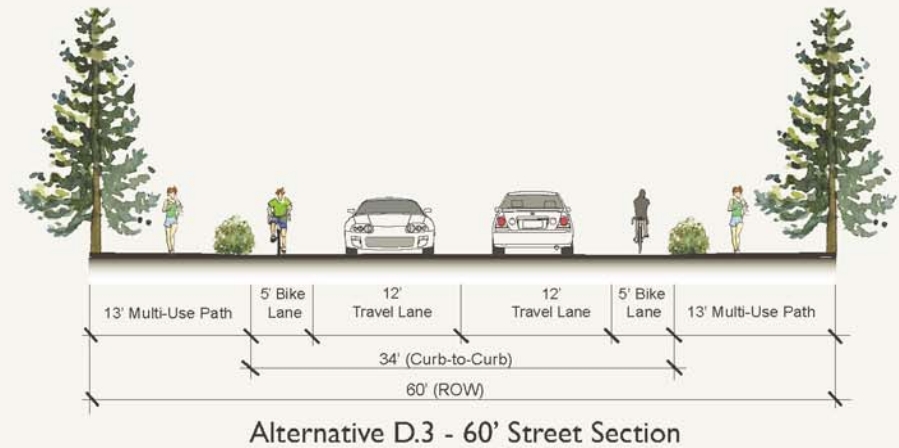
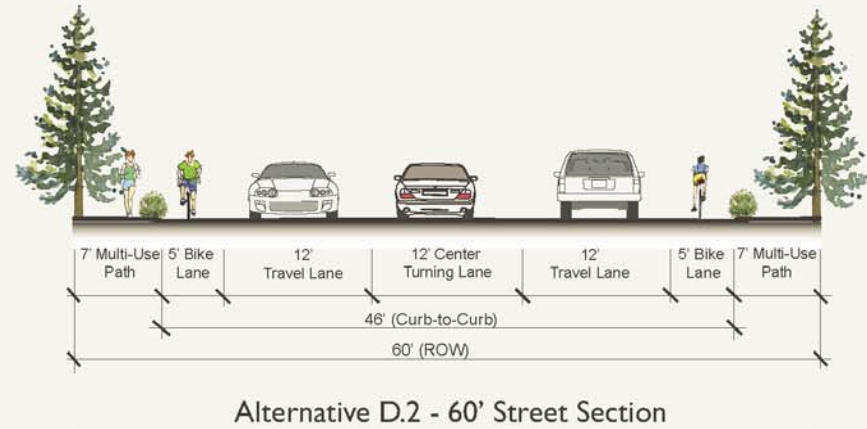
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EXISTING STREET SECTION



ALTERNATIVE STREET SECTIONS

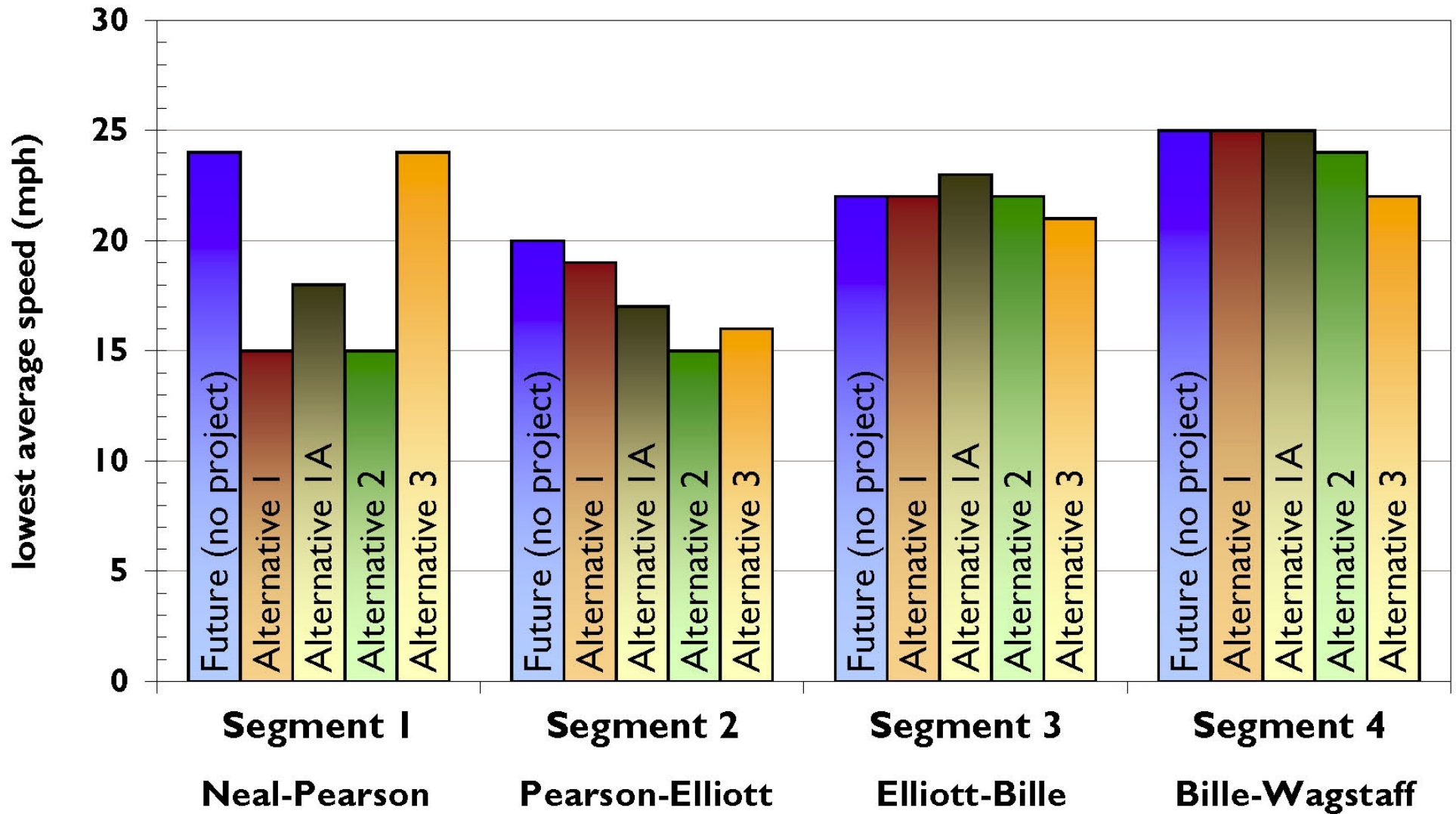


Traffic Analysis

Average Vehicle Speeds

	Future (No change)		Future + Alt 1		Future + Alt 1A		Future + Alt 2		Future + Alt 3	
	NB	SB	NB	SB	NB	SB	NB	SB	NB	SB
1 – Neal to Pearson										
AM Peak Hour	27	30	23	30	24	28	24	30	26	30
PM Peak Hour	24	30	15	31	18	30	15	32	24	31
2 – Pearson to Elliott										
AM Peak Hour	23	24	21	20	19	20	22	18	21	21
PM Peak Hour	20	24	19	23	17	18	17	15	17	16
3 – Elliott to Bille										
AM Peak Hour	24	26	24	24	25	24	23	22	23	22
PM Peak Hour	22	24	22	25	23	25	22	24	21	22
4 – Bille to Wagstaff										
AM Peak Hour	28	25	28	25	30	25	31	24	29	22
PM Peak Hour	28	27	28	26	27	26	28	26	28	25

Traffic Analysis



Potential Sources of Delay



Alternatives 1 and 2

Northbound backups at Pearson as lanes narrow from two through lanes to one

Potential Sources of Delay



Alternative 2

Southbound backups at Foster created by left turns from Skyway

Delays caused by diagonal parking maneuvers

Potential Safety Improvements

Intersection	Alt 1	Alt 1A	Alt 2	Alt 3
1 Black Olive Drive	✓	✓ ✓	✓	✓
2 Foster Road	✓	✓		✓
3 Fir Street	✓	✓ ✓		✓
4 Bille Road	Intersection-level treatments may be needed			
5 Elliott Road	Intersection-level treatments may be needed			
6 Honey Run-Birch St	✓	✓		✓

Positive Findings

Downtown

Smooth flow can be maintained with single through lanes and center turn lanes

Neal to Pearson and Elliott to Bille

All alternatives can work; best results include new signals at Fir and Black Olive with coordination of signal system

Bille to Wagstaff

All alternatives can work

Alternatives with center turn lanes

Landscaped medians and pedestrian refuge areas can also be added in select areas

Issues to Consider

Downtown

Single through lanes with diagonal parking (Alternative 2) likely to create notable delays; benefits and constraints should be carefully weighed

Transition Areas

Special consideration needed to maintain traffic flow where two through lanes transition to and from one travel lane

Alternative Routes

Consider benefits and constraints of “bypass” traffic on Almond Street

Gateway Plaza/Park at Foster Road

Potential Benefits

Strengthen downtown identity

Gateway / traffic calming element

Create gathering space

Establish location for special events

Options

Three plaza sizes and three access options (mix and match)

No change is also an option

Reconfiguration of Foster Road

Foster Road could remain full access, become right turns out only, or become a cul-de-sac

Downtown Gateway Plaza/Park



Downtown Gateway Plaza/Park

Alternative 2

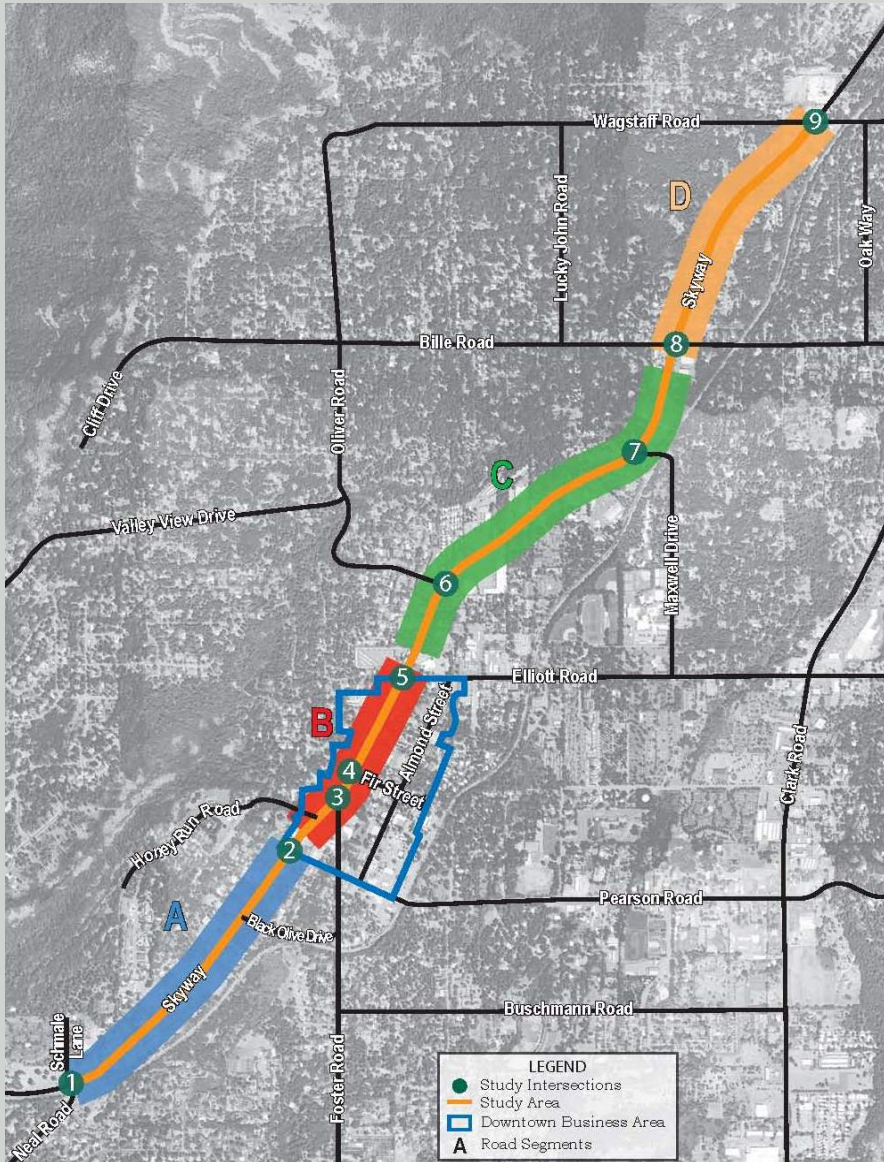


Downtown Gateway Plaza/Park

Alternative 3



Questions?



We Need Your Input

- **Use tape dots to show us what you like and dislike**
green = like red = dislike
- **Which alternative do you like best on each segment?**
- **Of all design elements shown for the corridor, which do you like least?**
- **Which design option for the Foster Road intersection do you like best? Which park option?**
- **Use report cards to express your opinions in more detail**