



**ORANGE COUNTY TRANSPORTATION AUTHORITY**

**Traffic Light Synchronization Program Project Results for  
Brookhurst Street, El Toro Road, and Katella Avenue**

**Attachment A**

## Brookhurst Street Corridor Project Results

Peak Period \ Direction	Travel Time Benefit					
	Northbound			Southbound		
	Before	After	Improvement (%)	Before	After	Improvement (%)
<b>Morning Peak Period</b>						
Travel Time (min)	42.4	34.9	18%	45.9	33.1	28%
Number of Stops	23.2	16.0	31%	23.2	14.8	36%
Average Speed (mph)	23.6	27.6	17%	22.1	28.2	28%
<b>Midday Peak Period</b>						
Travel Time (min)	42.7	33.6	21%	41.5	36.0	13%
Number of Stops	23.4	15.2	35%	22.2	15.2	32%
Average Speed (mph)	23.3	28.7	23%	23.9	26.9	13%
<b>Evening Peak Period</b>						
Travel Time (min)	50.7	40.3	21%	44.3	38.6	13%
Number of Stops	28.2	18.6	34%	24.0	19.8	18%
Average Speed (mph)	19.7	24.8	26%	22.5	23.2	3%

Project Benefit	Greenhouse Gas and Fuel Savings					
	Fuel Reduction (gal)			Greenhouse Gas Reduction (lbs)		
	Before	After	Reduction	Before	After	Reduction
1 Year	3,496,818	2,825,859	670,959	71,408,696	57,707,019	13,701,677
3 Years	10,490,454	8,477,577	2,012,877	214,226,088	173,121,057	41,105,031
<b>Total Fuel Cost Savings (\$)</b>						
1 year: \$2,616,740						
3 years: \$7,850,220						

min – minimum  
 mph – miles per hour  
 gal – gallon  
 lbs – pounds



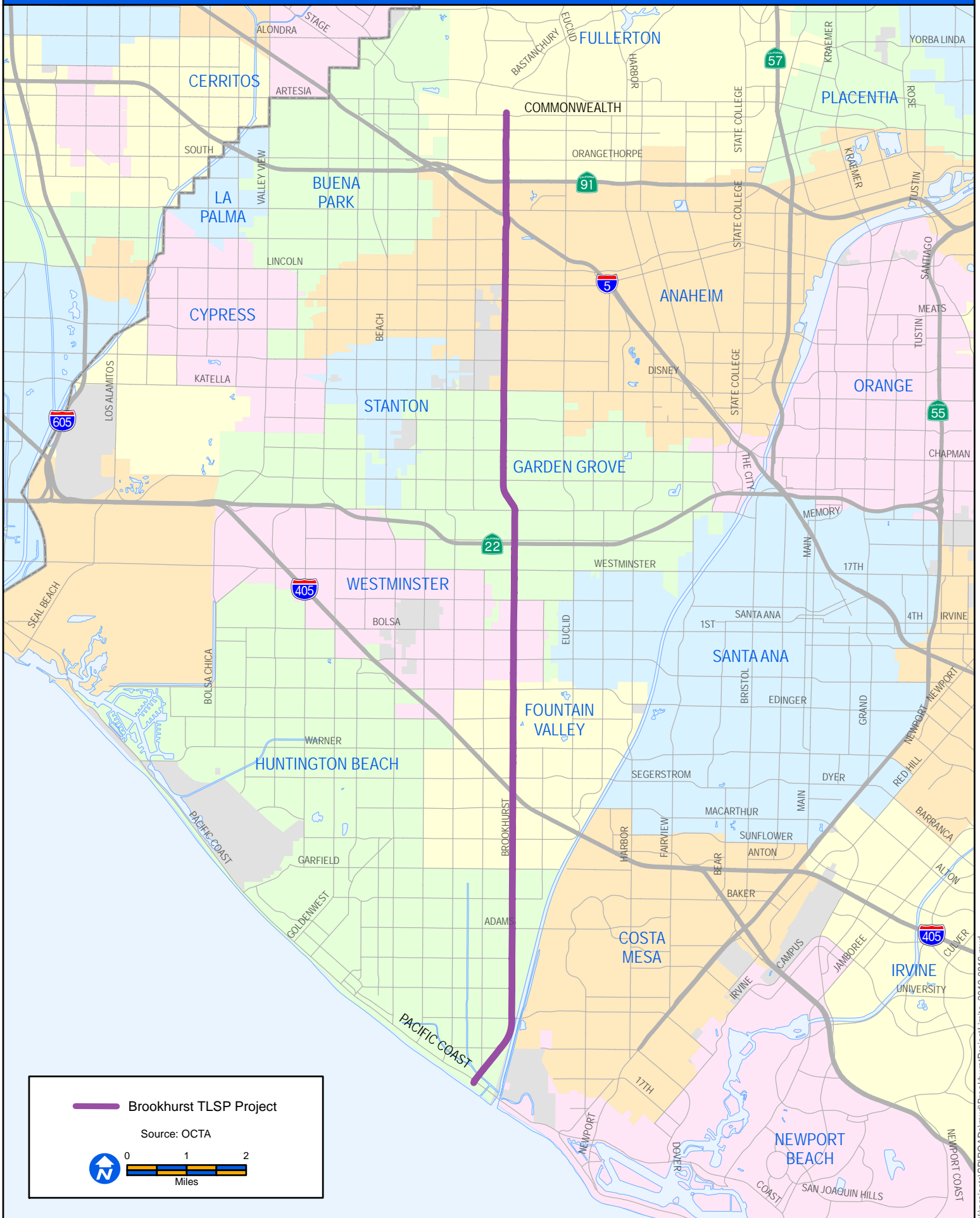
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**Traffic Light Synchronization Program Project Results for  
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**Attachment B**



# Brookhurst Street Corridor TLSP Project

**ATTACHMENT B**



 Brookhurst TLSP Project

Source: OCTA

Miles



**ORANGE COUNTY TRANSPORTATION AUTHORITY**

**Traffic Light Synchronization Program Project Results for  
Brookhurst Street, El Toro Road, and Katella Avenue**

**Attachment E**

**Katella Avenue Corridor Project Results**

Peak Period \ Direction	Travel Time Benefit					
	Eastbound			Westbound		
	Before	After	Improvement (%)	Before	After	Improvement (%)
<b>Morning Peak Period</b>						
Travel Time (min)	40.3	34.8	14%	39.3	31.3	20%
Number of Stops	22.8	15.3	33%	23.6	12.5	47%
Average Speed (mph)	25.1	28.8	15%	25.8	32.2	25%
<b>Midday Peak Period</b>						
Travel Time (min)	38.6	34.1	12%	41.4	30.9	25%
Number of Stops	19.8	16.1	19%	26.0	11.3	57%
Average Speed (mph)	26.2	29.3	12%	24.6	32.5	32%
<b>Evening Peak Period</b>						
Travel Time (min)	40.8	37.6	8%	41.2	38.7	6%
Number of Stops	22.1	18.8	15%	24.1	20.7	14%
Average Speed (mph)	24.7	26.7	8%	24.6	26.0	6%

Project Benefit	Greenhouse Gas and Fuel Savings					
	Fuel Reduction (gal)			Greenhouse Gas Reduction (lbs)		
	Before	After	Reduction	Before	After	Reduction
1 Year	2,311,618	1,932,496	379,122	47,205,663	39,463,608	7,742,055
3 Years	6,934,854	5,797,488	1,137,366	141,616,989	118,390,824	23,226,165
<b><u>Total Fuel Cost Savings (\$)</u></b>						
1 year: \$1,478,576						
3 years: \$4,435,727						



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**Traffic Light Synchronization Program Project Results for  
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**Attachment F**

# Katella Avenue Corridor TLSP Project

ATTACHMENT F

