

**CUMULATIVE (2020) WITH  
PROJECT WITH ALTERNATIVE 3  
CONDITIONS  
(HCM METHODOLOGY)**

Cumulative (2020) + ProjectWed Jan 7, 2009 09:50:45

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Scenario Report

Scenario: Cumulative (2020) + Project AM (Alt 3)  
Command: Cumulative (2020) + Project AM (Alt 3)  
Volume: Cumulative (2020) + Project (Alt 3 AM)  
Geometry: General Plan Build-Out  
Impact Fee: Default Impact Fee  
Trip Generation: None  
Trip Distribution: None  
Paths: Default Path  
Routes: Default Route  
Configuration: Existing

Impact Analysis Report  
 Level Of Service

Intersection	LOS	Base		LOS	Future		Change in
		Del/ Veh	V/ C		Del/ Veh	V/ C	
# 5 Pacific Coast Hwy / 9th St	A	2.9	0.607	A	2.9	0.607	+ 0.000 D/V
# 6 Pacific Coast Hwy / 6th St	B	19.8	0.641	B	19.8	0.641	+ 0.000 D/V
# 7 Pacific Coast Hwy / Main St	B	18.0	0.641	B	18.0	0.641	+ 0.000 D/V
# 8 Pacific Coast Hwy / 1st St	E	57.5	0.981	E	57.5	0.981	+ 0.000 D/V
# 9 Pacific Coast Hwy / Huntington	A	8.8	0.644	A	8.8	0.644	+ 0.000 D/V
# 16 Main St / Adams Ave	B	16.4	0.461	B	16.4	0.461	+ 0.000 D/V
# 17 Main St / Walnut Ave	A	6.9	0.053	A	6.9	0.053	+ 0.000 V/C
# 18 Main St / Olive Ave	A	7.1	0.139	A	7.1	0.139	+ 0.000 V/C
# 19 Main St / 6th St	B	12.8	0.258	B	12.8	0.258	+ 0.000 D/V
# 20 Lake St / 6th St	A	8.1	0.119	A	8.1	0.119	+ 0.000 V/C
# 21 Lake St / Orange Ave	B	11.0	0.461	B	11.0	0.461	+ 0.000 V/C
# 22 1st St / Orange Ave & Atlanta	C	21.0	0.312	C	21.0	0.312	+ 0.000 D/V
# 24 Beach Blvd / Pacific View Ave	A	8.0	0.273	A	8.0	0.273	+ 0.000 D/V

Level Of Service Computation Report

2000 HCM Operations Method (Future Volume Alternative)

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Intersection #5 Pacific Coast Hwy / 9th St

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Cycle (sec): 100 Critical Vol./Cap.(X): 0.607

Loss Time (sec): 5 (Y+R=4.0 sec) Average Delay (sec/veh): 2.9

Optimal Cycle: 31 Level Of Service: A

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Street Name: Pacific Coast Hwy 9th St

Approach: North Bound South Bound East Bound West Bound

Movement: L - T - R L - T - R L - T - R L - T - R

Control: Protected Protected Protected Protected

Rights: Include Include Include Include

Min. Green: 0 0 0 0 0 0 0 0 0 0 0 0

Lanes: 0 0 2 0 1 1 0 2 0 0 0 0 0 0 0 1 0 0 0 1

Volume Module:

Base Vol: 0 1370 12 23 1868 0 0 0 0 47 0 23

Growth Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00

Initial Bse: 0 1370 12 23 1868 0 0 0 0 47 0 23

Added Vol: 0 0 0 0 0 0 0 0 0 0 0 0

PasserByVol: 0 0 0 0 0 0 0 0 0 0 0 0

Initial Fut: 0 1370 12 23 1868 0 0 0 0 47 0 23

User Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00

PHF Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00

PHF Volume: 0 1370 12 23 1868 0 0 0 0 47 0 23

Reduct Vol: 0 0 0 0 0 0 0 0 0 0 0 0

Reduced Vol: 0 1370 12 23 1868 0 0 0 0 47 0 23

PCE Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00

MLF Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00

FinalVolume: 0 1370 12 23 1868 0 0 0 0 47 0 23

Saturation Flow Module:

Sat/Lane: 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700

Adjustment: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00

Lanes: 0.00 2.00 1.00 1.00 2.00 0.00 0.00 0.00 0.00 1.00 0.00 1.00

Final Sat.: 0 3400 1700 1700 3400 0 0 0 0 1700 0 1700

Capacity Analysis Module:

Vol/Sat: 0.00 0.40 0.01 0.01 0.55 0.00 0.00 0.00 0.00 0.03 0.00 0.01

Crit Moves: \*\*\*\* \*\*\*\* \*\*\*\*

Green/Cycle: 0.00 0.88 0.88 0.03 0.90 0.00 0.00 0.00 0.00 0.05 0.00 0.05

Volume/Cap: 0.00 0.46 0.01 0.46 0.61 0.00 0.00 0.00 0.00 0.61 0.00 0.30

Uniform Del: 0.0 1.3 0.8 47.8 1.0 0.0 0.0 0.0 0.0 46.8 0.0 46.2

IncrcmntDel: 0.0 0.1 0.0 6.6 0.4 0.0 0.0 0.0 0.0 13.1 0.0 2.2

InitQueueDel: 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0

Delay Adj: 0.00 1.00 1.00 1.00 1.00 0.00 0.00 0.00 0.00 1.00 0.00 1.00

Delay/Veh: 0.0 1.4 0.8 54.3 1.4 0.0 0.0 0.0 0.0 60.0 0.0 48.3

User DelAdj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00

AdjDel/Veh: 0.0 1.4 0.8 54.3 1.4 0.0 0.0 0.0 0.0 60.0 0.0 48.3

LOS by Move: A A A D A A A A E A D

HCM2kAvgQ: 0 5 0 1 7 0 0 0 0 2 0 1

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Level Of Service Computation Report  
 2000 HCM Operations Method (Future Volume Alternative)

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 Intersection #6 Pacific Coast Hwy / 6th St  
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Cycle (sec): 100 Critical Vol./Cap. (X): 0.641  
 Loss Time (sec): 31 (Y+R=4.0 sec) Average Delay (sec/veh): 19.8  
 Optimal Cycle: 89 Level Of Service: B  
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Street Name:	Pacific Coast Hwy						6th St					
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Protected			Protected			Permitted			Permitted		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	1	0	2	1	0	2	0	0	1	0	0	1

Volume Module:

Base Vol:	23	1172	123	85	1828	23	34	23	23	92	23	89
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	23	1172	123	85	1828	23	34	23	23	92	23	89
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	23	1172	123	85	1828	23	34	23	23	92	23	89
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	23	1172	123	85	1828	23	34	23	23	92	23	89
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	23	1172	123	85	1828	23	34	23	23	92	23	89
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	23	1172	123	85	1828	23	34	23	23	92	23	89

Saturation Flow Module:

Sat/Lane:	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	1.00	2.72	0.28	1.00	2.96	0.04	0.42	0.29	0.29	1.00	0.21	0.79
Final Sat.:	1700	4616	484	1700	5037	63	723	489	489	1700	349	1351

Capacity Analysis Module:

Vol/Sat:	0.01	0.25	0.25	0.05	0.36	0.36	0.05	0.05	0.05	0.05	0.07	0.07
Crit Moves:	****			****						****		
Green/Cycle:	0.02	0.49	0.49	0.10	0.57	0.57	0.10	0.10	0.10	0.10	0.10	0.10
Volume/Cap:	0.64	0.52	0.52	0.52	0.64	0.64	0.46	0.46	0.46	0.53	0.64	0.64
Uniform Del:	48.6	17.4	17.4	43.0	14.8	14.8	42.2	42.2	42.2	42.6	43.1	43.1
IncrcmntDel:	33.1	0.2	0.2	2.9	0.5	0.5	1.9	1.9	1.9	3.0	7.8	7.8
InitQueueDel:	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Delay Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Delay/Veh:	81.7	17.6	17.6	45.8	15.3	15.3	44.1	44.1	44.1	45.5	50.9	50.9
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	81.7	17.6	17.6	45.8	15.3	15.3	44.1	44.1	44.1	45.5	50.9	50.9
LOS by Move:	F	B	B	D	B	B	D	D	D	D	D	D
HCM2kAvgQ:	2	9	9	3	13	13	3	3	3	3	4	4

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Level Of Service Computation Report

2000 HCM Operations Method (Future Volume Alternative)

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Intersection #7 Pacific Coast Hwy / Main St

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Cycle (sec): 100 Critical Vol./Cap.(X): 0.641  
 Loss Time (sec): 31 (Y+R=4.0 sec) Average Delay (sec/veh): 18.0  
 Optimal Cycle: 89 Level Of Service: B

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Street Name:	Pacific Coast Hwy						Main St					
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Protected			Protected			Protected			Protected		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	1	0	3	0	1	0	0	0	0	0	1	0

Volume Module:	Pacific Coast Hwy			Pacific Coast Hwy			Main St			Main St		
Base Vol:	11	1178	101	67	1873	0	0	0	0	58	0	116
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	11	1178	101	67	1873	0	0	0	0	58	0	116
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	11	1178	101	67	1873	0	0	0	0	58	0	116
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	11	1178	101	67	1873	0	0	0	0	58	0	116
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	11	1178	101	67	1873	0	0	0	0	58	0	116
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	11	1178	101	67	1873	0	0	0	0	58	0	116

Saturation Flow Module:	Pacific Coast Hwy			Pacific Coast Hwy			Main St			Main St		
Sat/Lane:	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	1.00	3.00	1.00	1.00	3.00	0.00	0.00	0.00	0.00	1.00	0.00	1.00
Final Sat.:	1700	5100	1700	1700	5100	0	0	0	0	1700	0	1700

Capacity Analysis Module:	Pacific Coast Hwy			Pacific Coast Hwy			Main St			Main St		
Vol/Sat:	0.01	0.23	0.06	0.04	0.37	0.00	0.00	0.00	0.00	0.03	0.00	0.07
Crit Moves:	****				****						****	
Green/Cycle:	0.01	0.50	0.50	0.09	0.57	0.00	0.00	0.00	0.00	0.11	0.00	0.11
Volume/Cap:	0.64	0.46	0.12	0.46	0.64	0.00	0.00	0.00	0.00	0.32	0.00	0.64
Uniform Del:	49.3	16.4	13.4	43.6	14.4	0.0	0.0	0.0	0.0	41.3	0.0	42.8
IncrcmntDel:	60.5	0.1	0.1	2.3	0.5	0.0	0.0	0.0	0.0	1.0	0.0	7.5
InitQueueDel:	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Delay Adj:	1.00	1.00	1.00	1.00	1.00	0.00	0.00	0.00	0.00	1.00	0.00	1.00
Delay/Veh:	109.8	16.5	13.4	45.9	14.9	0.0	0.0	0.0	0.0	42.4	0.0	50.4
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	109.8	16.5	13.4	45.9	14.9	0.0	0.0	0.0	0.0	42.4	0.0	50.4
LOS by Move:	F	B	B	D	B	A	A	A	A	D	A	D
HCM2kAvgQ:	1	8	2	3	13	0	0	0	0	2	0	5

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Level Of Service Computation Report

2000 HCM Operations Method (Future Volume Alternative)

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Intersection #8 Pacific Coast Hwy / 1st St

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Cycle (sec): 100 Critical Vol./Cap.(X): 0.981  
 Loss Time (sec): 31 (Y+R=4.0 sec) Average Delay (sec/veh): 57.5  
 Optimal Cycle: 153 Level Of Service: E

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Street Name:	Pacific Coast Hwy						1st St					
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Split Phase			Split Phase			Split Phase			Split Phase		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	1	0	2	1	0	2	1	1	0	1	1	0

Volume Module:

Base Vol:	45	1046	123	136	1685	68	79	45	23	140	90	178
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	45	1046	123	136	1685	68	79	45	23	140	90	178
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	45	1046	123	136	1685	68	79	45	23	140	90	178
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	45	1046	123	136	1685	68	79	45	23	140	90	178
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	45	1046	123	136	1685	68	79	45	23	140	90	178
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	45	1046	123	136	1685	68	79	45	23	140	90	178

Saturation Flow Module:

Sat/Lane:	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	1.00	2.68	0.32	1.00	2.88	0.12	1.27	0.73	1.00	1.22	0.78	2.00
Final Sat.:	1700	4563	537	1700	4902	198	2166	1234	1700	2070	1330	3400

Capacity Analysis Module:

Vol/Sat:	0.03	0.23	0.23	0.08	0.34	0.34	0.04	0.04	0.01	0.07	0.07	0.05
Crit Moves:	****			****			****			****		
Green/Cycle:	0.23	0.23	0.23	0.35	0.35	0.35	0.04	0.04	0.04	0.07	0.07	0.07
Volume/Cap:	0.11	0.98	0.98	0.23	0.98	0.98	0.98	0.98	0.36	0.98	0.98	0.76
Uniform Del:	30.2	38.1	38.1	22.9	32.2	32.2	48.1	48.1	47.0	46.5	46.5	45.7
IncrcmntDel:	0.1	21.6	21.6	0.2	17.0	17.0	74.0	74.0	3.5	53.3	53.3	13.4
InitQueueDel:	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Delay Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Delay/Veh:	30.3	59.7	59.7	23.1	49.1	49.1	122.1	122	50.5	99.8	99.8	59.2
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	30.3	59.7	59.7	23.1	49.1	49.1	122.1	122	50.5	99.8	99.8	59.2
LOS by Move:	C	E	E	C	D	D	F	F	D	F	F	E
HCM2kAvgQ:	1	17	17	3	24	24	4	4	1	7	7	4

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Level Of Service Computation Report

2000 HCM Operations Method (Future Volume Alternative)

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Intersection #9 Pacific Coast Hwy / Huntington St

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Cycle (sec): 100 Critical Vol./Cap.(X): 0.644  
 Loss Time (sec): 5 (Y+R=4.0 sec) Average Delay (sec/veh): 8.8  
 Optimal Cycle: 33 Level Of Service: A

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Street Name:	Pacific Coast Hwy					Huntington St														
Approach:	North Bound			South Bound		East Bound			West Bound											
Movement:	L	T	R	L	T	R	L	T	R	L	T	R								
Control:	Protected			Protected			Permitted			Permitted										
Rights:	Include			Include			Include			Include										
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0								
Lanes:	1	0	2	0	1	1	0	2	0	1	0	1	0	1	0	1	1	0	0	1

Volume Module:

Base Vol:	47	1136	148	34	1776	11	11	23	45	131	78	31
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	47	1136	148	34	1776	11	11	23	45	131	78	31
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	47	1136	148	34	1776	11	11	23	45	131	78	31
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	47	1136	148	34	1776	11	11	23	45	131	78	31
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	47	1136	148	34	1776	11	11	23	45	131	78	31
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	47	1136	148	34	1776	11	11	23	45	131	78	31

Saturation Flow Module:

Sat/Lane:	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	1.00	2.00	1.00	1.00	2.00	1.00	0.32	0.68	1.00	1.25	0.75	1.00
Final Sat.:	1700	3400	1700	1700	3400	1700	550	1150	1700	2131	1269	1700

Capacity Analysis Module:

Vol/Sat:	0.03	0.33	0.09	0.02	0.52	0.01	0.02	0.02	0.03	0.06	0.06	0.02
Crit Moves:	****				****					****		
Green/Cycle:	0.04	0.81	0.81	0.05	0.81	0.81	0.10	0.10	0.10	0.10	0.10	0.10
Volume/Cap:	0.64	0.41	0.11	0.41	0.64	0.01	0.21	0.21	0.28	0.64	0.64	0.19
Uniform Del:	47.1	2.8	2.1	46.2	3.7	1.8	41.7	41.7	42.0	43.6	43.6	41.7
IncrcmntDel:	18.0	0.1	0.0	3.4	0.5	0.0	0.3	0.3	0.5	4.4	4.4	0.6
InitQueueDel:	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Delay Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Delay/Veh:	65.1	2.9	2.1	49.6	4.2	1.8	42.0	42.0	42.5	48.0	48.0	42.2
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	65.1	2.9	2.1	49.6	4.2	1.8	42.0	42.0	42.5	48.0	48.0	42.2
LOS by Move:	E	A	A	D	A	A	D	D	D	D	D	D
HCM2kAvgQ:	3	5	1	2	11	0	1	1	2	4	4	1

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Level Of Service Computation Report  
 2000 HCM Operations Method (Future Volume Alternative)

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Intersection #16 Main St / Adams Ave

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Cycle (sec): 100 Critical Vol./Cap.(X): 0.461  
 Loss Time (sec): 5 (Y+R=4.0 sec) Average Delay (sec/veh): 16.4  
 Optimal Cycle: 23 Level Of Service: B

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Street Name:	Main St						Adams Ave					
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Permitted			Permitted			Permitted			Permitted		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	1	0	1	0	1	0	0	1	0	0	1	0

Volume Module:	Main St			Main St			Adams Ave			Adams Ave		
Base Vol:	23	432	129	64	412	34	11	270	11	99	214	39
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	23	432	129	64	412	34	11	270	11	99	214	39
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	23	432	129	64	412	34	11	270	11	99	214	39
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	23	432	129	64	412	34	11	270	11	99	214	39
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	23	432	129	64	412	34	11	270	11	99	214	39
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	23	432	129	64	412	34	11	270	11	99	214	39

Saturation Flow Module:	Main St			Main St			Adams Ave			Adams Ave		
Sat/Lane:	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	1.00	1.00	1.00	1.00	1.00	1.00	0.04	0.96	1.00	0.32	0.68	1.00
Final Sat.:	1700	1700	1700	1700	1700	1700	67	1633	1700	538	1162	1700

Capacity Analysis Module:	Main St			Main St			Adams Ave			Adams Ave		
Vol/Sat:	0.01	0.25	0.08	0.04	0.24	0.02	0.17	0.17	0.01	0.18	0.18	0.02
Crit Moves:	****			****			****			****		
Green/Cycle:	0.55	0.55	0.55	0.55	0.55	0.55	0.40	0.40	0.40	0.40	0.40	0.40
Volume/Cap:	0.02	0.46	0.14	0.07	0.44	0.04	0.41	0.41	0.02	0.46	0.46	0.06
Uniform Del:	10.2	13.5	10.9	10.5	13.3	10.3	21.6	21.6	18.2	22.1	22.1	18.5
IncrcmntDel:	0.0	0.4	0.1	0.0	0.3	0.0	0.4	0.4	0.0	0.5	0.5	0.0
InitQueueDel:	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Delay Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Delay/Veh:	10.2	13.9	11.0	10.5	13.6	10.3	22.0	22.0	18.2	22.6	22.6	18.5
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	10.2	13.9	11.0	10.5	13.6	10.3	22.0	22.0	18.2	22.6	22.6	18.5
LOS by Move:	B	B	B	B	B	B	C	C	B	C	C	B
HCM2kAvgQ:	0	8	2	1	8	0	6	6	0	7	7	1

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Level Of Service Computation Report  
 2000 HCM 4-Way Stop Method (Future Volume Alternative)

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 Intersection #17 Main St / Walnut Ave  
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Cycle (sec): 100 Critical Vol./Cap.(X): 0.053  
 Loss Time (sec): 0 (Y+R=4.0 sec) Average Delay (sec/veh): 6.9  
 Optimal Cycle: 0 Level Of Service: A  
 \*\*\*\*\*

Street Name:	Main St						Walnut Ave					
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Stop Sign			Stop Sign			Stop Sign			Stop Sign		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	0	0	0	0	1	0	0	0	1	0	0	0

Volume Module:	Main St			Main St			Walnut Ave			Walnut Ave		
Base Vol:	0	0	54	0	0	0	0	19	8	5	41	0
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	0	0	54	0	0	0	0	19	8	5	41	0
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	0	0	54	0	0	0	0	19	8	5	41	0
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	0	0	54	0	0	0	0	19	8	5	41	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	0	0	54	0	0	0	0	19	8	5	41	0
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	0	0	54	0	0	0	0	19	8	5	41	0

Saturation Flow Module:	Main St			Main St			Walnut Ave			Walnut Ave		
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	0.00	0.00	1.00	0.00	1.00	0.00	0.00	0.70	0.30	0.11	0.89	0.00
Final Sat.:	0	0	1025	0	863	0	0	646	272	96	784	0

Capacity Analysis Module:	Main St			Main St			Walnut Ave			Walnut Ave		
Vol/Sat:	xxxx	xxxx	0.05	xxxx	0.00	xxxx	xxxx	0.03	0.03	0.05	0.05	xxxx
Crit Moves:			****		****				****		****	
Delay/Veh:	0.0	0.0	6.6	0.0	0.0	0.0	0.0	7.0	7.0	7.3	7.3	0.0
Delay Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	0.0	0.0	6.6	0.0	0.0	0.0	0.0	7.0	7.0	7.3	7.3	0.0
LOS by Move:	*	*	A	*	*	*	*	A	A	A	A	*
ApproachDel:		6.6		xxxxxx				7.0			7.3	
Delay Adj:		1.00		xxxxxx				1.00			1.00	
ApprAdjDel:		6.6		xxxxxx				7.0			7.3	
LOS by Appr:		A		*				A			A	
AllWayAvgQ:	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1

Note: Queue reported is the number of cars per lane.  
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Level of Service Computation Report

2000 HCM Operations Method (Future Volume Alternative)

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Intersection #19 Main St / 6th St

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Cycle (sec): 100 Critical Vol./Cap.(X): 0.258  
 Loss Time (sec): 5 (Y+R=4.0 sec) Average Delay (sec/veh): 12.8  
 Optimal Cycle: 17 Level of Service: B

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Street Name:	Main St						6th St					
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Permitted			Permitted			Permitted			Permitted		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	1	0	0	1	0	0	1	0	1	1	0	1

Volume Module:

Base Vol:	12	121	25	11	116	218	82	24	12	49	41	11
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	12	121	25	11	116	218	82	24	12	49	41	11
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	12	121	25	11	116	218	82	24	12	49	41	11
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	12	121	25	11	116	218	82	24	12	49	41	11
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	12	121	25	11	116	218	82	24	12	49	41	11
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	12	121	25	11	116	218	82	24	12	49	41	11

Saturation Flow Module:

Sat/Lane:	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	1.00	0.83	0.17	1.00	0.35	0.65	1.00	1.00	1.00	1.00	1.00	1.00
Final Sat.:	1700	1409	291	1700	590	1110	1700	1700	1700	1700	1700	1700

Capacity Analysis Module:

Vol/Sat:	0.01	0.09	0.09	0.01	0.20	0.20	0.05	0.01	0.01	0.03	0.02	0.01
Crit Moves:				****			****					
Green/Cycle:	0.76	0.76	0.76	0.76	0.76	0.76	0.19	0.19	0.19	0.19	0.19	0.19
Volume/Cap:	0.01	0.11	0.11	0.01	0.26	0.26	0.26	0.08	0.04	0.15	0.13	0.03
Uniform Del:	2.8	3.1	3.1	2.8	3.5	3.5	34.7	33.5	33.3	34.0	33.8	33.2
IncrcmntDel:	0.0	0.0	0.0	0.0	0.1	0.1	0.4	0.1	0.0	0.2	0.2	0.0
InitQueueDel:	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Delay Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Delay/Veh:	2.8	3.1	3.1	2.8	3.6	3.6	35.1	33.6	33.3	34.2	34.0	33.3
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	2.8	3.1	3.1	2.8	3.6	3.6	35.1	33.6	33.3	34.2	34.0	33.3
LOS by Move:	A	A	A	A	A	A	D	C	C	C	C	C
HCM2kAvgQ:	0	1	1	0	3	3	2	1	0	1	1	0

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Level Of Service Computation Report

2000 HCM 4-Way Stop Method (Future Volume Alternative)

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Intersection #20 Lake St / 6th St

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Cycle (sec): 100 Critical Vol./Cap. (X): 0.119  
 Loss Time (sec): 0 (Y+R=4.0 sec) Average Delay (sec/veh): 8.1  
 Optimal Cycle: 0 Level Of Service: A

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Street Name:	Lake St						6th St					
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Stop Sign			Stop Sign			Stop Sign			Stop Sign		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	1	0	0	1	0	1	0	1	0	0	1	0

Volume Module:

Base Vol:	1	85	0	54	37	44	7	26	2	0	70	17
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	1	85	0	54	37	44	7	26	2	0	70	17
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	1	85	0	54	37	44	7	26	2	0	70	17
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	1	85	0	54	37	44	7	26	2	0	70	17
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	1	85	0	54	37	44	7	26	2	0	70	17
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	1	85	0	54	37	44	7	26	2	0	70	17

Saturation Flow Module:

Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	1.00	1.00	0.00	1.00	1.00	1.00	0.21	0.79	1.00	0.00	1.00	1.00
Final Sat.:	647	711	0	638	700	810	141	522	778	0	686	790

Capacity Analysis Module:

Vol/Sat:	0.00	0.12	xxxx	0.08	0.05	0.05	0.05	0.05	0.00	xxxx	0.10	0.02
Crit Moves:	****			****			****			****		
Delay/Veh:	8.1	8.3	0.0	8.7	8.0	7.3	8.2	8.2	7.1	0.0	8.3	7.2
Delay Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	8.1	8.3	0.0	8.7	8.0	7.3	8.2	8.2	7.1	0.0	8.3	7.2
LOS by Move:	A	A	*	A	A	A	A	A	A	*	A	A
ApproachDel:	8.3			8.0			8.1			8.1		
Delay Adj:	1.00			1.00			1.00			1.00		
ApprAdjDel:	8.3			8.0			8.1			8.1		
LOS by Appr:	A			A			A			A		
AllWayAvgQ:	0.0	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.1	0.1	0.0

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Note: Queue reported is the number of cars per lane.

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Level Of Service Computation Report  
 2000 HCM Operations Method (Future Volume Alternative)

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 Intersection #22 1st St / Orange Ave & Atlanta Ave  
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Cycle (sec): 100 Critical Vol./Cap.(X): 0.312  
 Loss Time (sec): 5 (Y+R=4.0 sec) Average Delay (sec/veh): 21.0  
 Optimal Cycle: 18 Level Of Service: C  
 \*\*\*\*\*

Street Name:	1st St						Orange Ave & Atlanta Ave					
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Permitted			Permitted			Protected			Protected		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	0	1	0	0	1	0	0	1	0	0	1	0

Volume Module:	1st St			1st St			Orange Ave & Atlanta Ave			Orange Ave & Atlanta Ave		
Base Vol:	45	0	119	11	11	0	0	213	56	251	213	0
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	45	0	119	11	11	0	0	213	56	251	213	0
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	45	0	119	11	11	0	0	213	56	251	213	0
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	45	0	119	11	11	0	0	213	56	251	213	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	45	0	119	11	11	0	0	213	56	251	213	0
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	45	0	119	11	11	0	0	213	56	251	213	0

Saturation Flow Module:	1st St			1st St			Orange Ave & Atlanta Ave			Orange Ave & Atlanta Ave		
Sat/Lane:	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	1.00	0.00	1.00	0.50	0.50	0.00	1.00	1.58	0.42	1.00	1.00	0.00
Final Sat.:	1700	0	1700	850	850	0	1700	2692	708	1700	1700	0

Capacity Analysis Module:	1st St			1st St			Orange Ave & Atlanta Ave			Orange Ave & Atlanta Ave		
Vol/Sat:	0.03	0.00	0.07	0.01	0.01	0.00	0.00	0.08	0.08	0.15	0.13	0.00
Crit Moves:	****						****			****		
Green/Cycle:	0.22	0.00	0.22	0.22	0.22	0.00	0.00	0.25	0.25	0.47	0.73	0.00
Volume/Cap:	0.12	0.00	0.31	0.06	0.06	0.00	0.00	0.31	0.31	0.31	0.17	0.00
Uniform Del:	30.9	0.0	32.4	30.5	30.5	0.0	0.0	30.3	30.3	16.3	4.3	0.0
IncrcmntDel:	0.1	0.0	0.5	0.1	0.1	0.0	0.0	0.2	0.2	0.2	0.1	0.0
InitQueueDel:	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Delay Adj:	1.00	0.00	1.00	1.00	1.00	0.00	0.00	1.00	1.00	1.00	1.00	0.00
Delay/Veh:	31.1	0.0	32.8	30.6	30.6	0.0	0.0	30.5	30.5	16.5	4.4	0.0
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	31.1	0.0	32.8	30.6	30.6	0.0	0.0	30.5	30.5	16.5	4.4	0.0
LOS by Move:	C	A	C	C	C	A	A	C	C	B	A	A
HCM2kAvgQ:	1	0	3	1	1	0	0	3	3	5	2	0

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Level Of Service Computation Report

2000 HCM Operations Method (Future Volume Alternative)

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Intersection #24 Beach Blvd / Pacific View Ave

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Cycle (sec): 100 Critical Vol./Cap.(X): 0.273  
 Loss Time (sec): 5 (Y+R=4.0 sec) Average Delay (sec/veh): 8.0  
 Optimal Cycle: 18 Level Of Service: A

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Street Name:	Beach Blvd						Pacific View Ave					
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Protected			Protected			Protected			Protected		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	1	0	3	0	0	0	1	0	0	0	0	0

Volume Module:

Base Vol:	24	431	0	0	820	154	92	0	40	0	0	0
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	24	431	0	0	820	154	92	0	40	0	0	0
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	24	431	0	0	820	154	92	0	40	0	0	0
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	24	431	0	0	820	154	92	0	40	0	0	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	24	431	0	0	820	154	92	0	40	0	0	0
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	24	431	0	0	820	154	92	0	40	0	0	0

Saturation Flow Module:

Sat/Lane:	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	1.00	3.00	0.00	1.00	2.53	0.47	1.00	0.00	1.00	0.00	0.00	0.00
Final Sat.:	1700	5100	0	1700	4294	806	1700	0	1700	0	0	0

Capacity Analysis Module:

Vol/Sat:	0.01	0.08	0.00	0.00	0.19	0.19	0.05	0.00	0.02	0.00	0.00	0.00
Crit Moves:	****			****			****					
Green/Cycle:	0.05	0.75	0.00	0.00	0.70	0.70	0.20	0.00	0.20	0.00	0.00	0.00
Volume/Cap:	0.27	0.11	0.00	0.00	0.27	0.27	0.27	0.00	0.12	0.00	0.00	0.00
Uniform Del:	45.6	3.4	0.0	0.0	5.6	5.6	34.0	0.0	32.9	0.0	0.0	0.0
IncrcmntDel:	1.7	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.2	0.0	0.0	0.0
InitQueueDel:	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Delay Adj:	1.00	1.00	0.00	0.00	1.00	1.00	1.00	0.00	1.00	0.00	0.00	0.00
Delay/Veh:	47.3	3.4	0.0	0.0	5.6	5.6	34.4	0.0	33.1	0.0	0.0	0.0
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	47.3	3.4	0.0	0.0	5.6	5.6	34.4	0.0	33.1	0.0	0.0	0.0
LOS by Move:	D	A	A	A	A	A	C	A	C	A	A	A
HCM2kAvgQ:	1	1	0	0	4	4	3	0	1	0	0	0

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Huntington Beach Traffic Impact Analysis  
Cumulative (2020) + Project PM Alt 1 no cross traffic

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Scenario Report

Scenario: Cumulative (2020) + Project PM (Alt 1 no cross)  
Command: Cumulative (2020) + Project PM (Alt 1 no cross)  
Volume: Cumulative (2020) + Project (Alt 1 no cross PM)  
Geometry: General Plan Build-Out  
Impact Fee: Default Impact Fee  
Trip Generation: None  
Trip Distribution: None  
Paths: Default Path  
Routes: Default Route  
Configuration: Existing



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Scenario Report

Scenario: Cumulative (2020) + Project PM (Alt 3)  
Command: Cumulative (2020) + Project PM (Alt 3)  
Volume: Cumulative (2020) + Project (Alt 3 PM)  
Geometry: General Plan Build-Out  
Impact Fee: Default Impact Fee  
Trip Generation: None  
Trip Distribution: None  
Paths: Default Path  
Routes: Default Route  
Configuration: Existing

Impact Analysis Report  
 Level Of Service

Intersection	Base LOS	Base		Future LOS	Future		Change in
		Del/ Veh	V/ C		Del/ Veh	V/ C	
# 5 Pacific Coast Hwy / 9th St	A	3.7	0.665	A	3.7	0.665	+ 0.000 D/V
# 6 Pacific Coast Hwy / 6th St	C	26.0	0.775	C	26.0	0.775	+ 0.000 D/V
# 7 Pacific Coast Hwy / Main St	C	32.3	0.879	C	32.3	0.879	+ 0.000 D/V
# 8 Pacific Coast Hwy / 1st St	F	86.2	1.089	F	86.2	1.089	+ 0.000 D/V
# 9 Pacific Coast Hwy / Huntington	A	9.9	0.693	A	9.9	0.693	+ 0.000 D/V
# 16 Main St / Adams Ave	C	21.5	0.726	C	21.5	0.726	+ 0.000 D/V
# 17 Main St / Walnut Ave	A	8.5	0.343	A	8.5	0.343	+ 0.000 V/C
# 18 Main St / Olive Ave	A	7.9	0.205	A	7.9	0.205	+ 0.000 V/C
# 19 Main St / 6th St	B	14.2	0.366	B	14.2	0.366	+ 0.000 D/V
# 20 Lake St / 6th St	A	9.6	0.332	A	9.6	0.332	+ 0.000 V/C
# 21 Lake St / Orange Ave	D	32.7	0.909	D	32.7	0.909	+ 0.000 V/C
# 22 1st St / Orange Ave & Atlanta	C	22.9	0.465	C	22.9	0.465	+ 0.000 D/V
# 24 Beach Blvd / Pacific View Ave	A	9.2	0.340	A	9.2	0.340	+ 0.000 D/V

Level Of Service Computation Report

2000 HCM Operations Method (Future Volume Alternative)

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Intersection #5 Pacific Coast Hwy / 9th St

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Cycle (sec): 100 Critical Vol./Cap.(X): 0.665  
 Loss Time (sec): 5 (Y+R=4.0 sec) Average Delay (sec/veh): 3.7  
 Optimal Cycle: 35 Level Of Service: A

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Street Name:	Pacific Coast Hwy						9th St								
Approach:	North Bound			South Bound			East Bound			West Bound					
Movement:	L	T	R	L	T	R	L	T	R	L	T	R			
Control:	Protected			Protected			Protected			Protected					
Rights:	Include			Include			Include			Include					
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0			
Lanes:	0	0	2	0	1	1	0	2	0	0	0	0	0	0	1

Volume Module:

Base Vol:	0	1984	38	23	1413	0	0	0	0	59	0	23
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	0	1984	38	23	1413	0	0	0	0	59	0	23
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	0	1984	38	23	1413	0	0	0	0	59	0	23
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	0	1984	38	23	1413	0	0	0	0	59	0	23
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	0	1984	38	23	1413	0	0	0	0	59	0	23
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	0	1984	38	23	1413	0	0	0	0	59	0	23

Saturation Flow Module:

Sat/Lane:	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	0.00	2.00	1.00	1.00	2.00	0.00	0.00	0.00	0.00	1.00	0.00	1.00
Final Sat.:	0	3400	1700	1700	3400	0	0	0	0	1700	0	1700

Capacity Analysis Module:

Vol/Sat:	0.00	0.58	0.02	0.01	0.42	0.00	0.00	0.00	0.00	0.03	0.00	0.01
Crit Moves:	****			****						****		
Green/Cycle:	0.00	0.88	0.88	0.02	0.90	0.00	0.00	0.00	0.00	0.05	0.00	0.05
Volume/Cap:	0.00	0.67	0.03	0.67	0.46	0.00	0.00	0.00	0.00	0.67	0.00	0.26
Uniform Del:	0.0	1.8	0.8	48.6	0.9	0.0	0.0	0.0	0.0	46.5	0.0	45.5
IncrcmntDel:	0.0	0.6	0.0	39.6	0.1	0.0	0.0	0.0	0.0	17.5	0.0	1.6
InitQueueDel:	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Delay Adj:	0.00	1.00	1.00	1.00	1.00	0.00	0.00	0.00	0.00	1.00	0.00	1.00
Delay/Veh:	0.0	2.4	0.8	88.2	1.0	0.0	0.0	0.0	0.0	64.0	0.0	47.1
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	0.0	2.4	0.8	88.2	1.0	0.0	0.0	0.0	0.0	64.0	0.0	47.1
LOS by Move:	A	A	A	F	A	A	A	A	A	E	A	D
HCM2kAvgQ:	0	10	0	2	4	0	0	0	0	3	0	1

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Level Of Service Computation Report

2000 HCM Operations Method (Future Volume Alternative)

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Intersection #6 Pacific Coast Hwy / 6th St

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Cycle (sec): 100 Critical Vol./Cap. (X): 0.775  
 Loss Time (sec): 31 (Y+R=4.0 sec) Average Delay (sec/veh): 26.0  
 Optimal Cycle: 106 Level Of Service: C

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Street Name:	Pacific Coast Hwy						6th St					
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Protected			Protected			Permitted			Permitted		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	1	0	2	1	0	2	0	0	1	0	0	1

Volume Module:

Base Vol:	45	1726	144	115	1401	34	45	23	79	141	34	137
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	45	1726	144	115	1401	34	45	23	79	141	34	137
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	45	1726	144	115	1401	34	45	23	79	141	34	137
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	45	1726	144	115	1401	34	45	23	79	141	34	137
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	45	1726	144	115	1401	34	45	23	79	141	34	137
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Final Volume:	45	1726	144	115	1401	34	45	23	79	141	34	137

Saturation Flow Module:

Sat/Lane:	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	1.00	2.77	0.23	1.00	2.93	0.07	0.30	0.16	0.54	1.00	0.20	0.80
Final Sat.:	1700	4707	393	1700	4979	121	520	266	914	1700	338	1362

Capacity Analysis Module:

Vol/Sat:	0.03	0.37	0.37	0.07	0.28	0.28	0.09	0.09	0.09	0.08	0.10	0.10
Crit Moves:	****			****						****		
Green/Cycle:	0.05	0.47	0.47	0.09	0.51	0.51	0.13	0.13	0.13	0.13	0.13	0.13
Volume/Cap:	0.55	0.78	0.78	0.78	0.55	0.55	0.67	0.67	0.67	0.64	0.78	0.78
Uniform Del:	46.5	21.9	21.9	44.7	16.6	16.6	41.5	41.5	41.5	41.3	42.1	42.1
IncrementDel:	7.7	1.6	1.6	22.2	0.3	0.3	7.5	7.5	7.5	6.2	15.7	15.7
InitQueueDel:	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Delay Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Delay/Veh:	54.3	23.6	23.6	66.8	16.8	16.8	49.0	49.0	49.0	47.5	57.8	57.8
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	54.3	23.6	23.6	66.8	16.8	16.8	49.0	49.0	49.0	47.5	57.8	57.8
LOS by Move:	D	C	C	E	B	B	D	D	D	D	E	E
HCM2kAvgQ:	2	17	17	5	10	10	6	6	6	5	7	7

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 Level Of Service Computation Report  
 2000 HCM Operations Method (Future Volume Alternative)  
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Intersection #7 Pacific Coast Hwy / Main St  
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Cycle (sec): 100 Critical Vol./Cap.(X): 0.879  
 Loss Time (sec): 31 (Y+R=4.0 sec) Average Delay (sec/veh): 32.3  
 Optimal Cycle: 126 Level Of Service: C  
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Street Name:	Pacific Coast Hwy						Main St					
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Protected			Protected			Protected			Protected		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	1	0	3	0	1	0	0	0	0	0	1	0

Volume Module:

Base Vol:	45	1702	188	226	1451	0	0	0	0	132	0	238
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	45	1702	188	226	1451	0	0	0	0	132	0	238
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	45	1702	188	226	1451	0	0	0	0	132	0	238
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	45	1702	188	226	1451	0	0	0	0	132	0	238
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	45	1702	188	226	1451	0	0	0	0	132	0	238
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	45	1702	188	226	1451	0	0	0	0	132	0	238

Saturation Flow Module:

Sat/Lane:	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	1.00	3.00	1.00	1.00	3.00	0.00	0.00	0.00	0.00	1.00	0.00	1.00
Final Sat.:	1700	5100	1700	1700	5100	0	0	0	0	1700	0	1700

Capacity Analysis Module:

Vol/Sat:	0.03	0.33	0.11	0.13	0.28	0.00	0.00	0.00	0.00	0.08	0.00	0.14
Crit Moves:	****			****						****		
Green/Cycle:	0.05	0.38	0.38	0.15	0.49	0.00	0.00	0.00	0.00	0.16	0.00	0.16
Volume/Cap:	0.59	0.88	0.29	0.88	0.59	0.00	0.00	0.00	0.00	0.49	0.00	0.88
Uniform Del:	46.8	28.9	21.6	41.5	18.5	0.0	0.0	0.0	0.0	38.3	0.0	41.1
IncrcmntDel:	11.2	5.0	0.3	27.4	0.4	0.0	0.0	0.0	0.0	1.4	0.0	26.3
InitQueueDel:	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Delay Adj:	1.00	1.00	1.00	1.00	1.00	0.00	0.00	0.00	0.00	1.00	0.00	1.00
Delay/Veh:	58.0	33.9	21.9	68.9	18.9	0.0	0.0	0.0	0.0	39.7	0.0	67.4
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	58.0	33.9	21.9	68.9	18.9	0.0	0.0	0.0	0.0	39.7	0.0	67.4
LOS by Move:	E	C	C	E	B	A	A	A	A	D	A	E
HCM2kAvgQ:	2	20	4	10	11	0	0	0	0	4	0	10

Level Of Service Computation Report

2000 HCM Operations Method (Future Volume Alternative)

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Intersection #8 Pacific Coast Hwy / 1st St

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Cycle (sec): 100 Critical Vol./Cap.(X): 1.089  
 Loss Time (sec): 31 (Y+R=4.0 sec) Average Delay (sec/veh): 86.2  
 Optimal Cycle: 180 Level Of Service: F

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Street Name:	Pacific Coast Hwy						1st St					
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Split Phase			Split Phase			Split Phase			Split Phase		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	1	0	2	1	0	2	1	1	0	1	1	0

Volume Module:

Base Vol:	56	1748	168	245	1276	23	68	45	68	230	45	176
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	56	1748	168	245	1276	23	68	45	68	230	45	176
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	56	1748	168	245	1276	23	68	45	68	230	45	176
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	56	1748	168	245	1276	23	68	45	68	230	45	176
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	56	1748	168	245	1276	23	68	45	68	230	45	176
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Final Volume:	56	1748	168	245	1276	23	68	45	68	230	45	176

Saturation Flow Module:

Sat/Lane:	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	1.00	2.74	0.26	1.00	2.95	0.05	1.20	0.80	1.00	1.67	0.33	2.00
Final Sat.:	1700	4653	447	1700	5010	90	2046	1354	1700	2844	556	3400

Capacity Analysis Module:

Vol/Sat:	0.03	0.38	0.38	0.14	0.25	0.25	0.03	0.03	0.04	0.08	0.08	0.05
Crit Moves:	****			****			****			****		
Green/Cycle:	0.35	0.35	0.35	0.23	0.23	0.23	0.04	0.04	0.04	0.07	0.07	0.07
Volume/Cap:	0.10	1.09	1.09	0.62	1.09	1.09	0.90	0.90	1.09	1.09	1.09	0.70
Uniform Del:	22.2	32.7	32.7	34.3	38.3	38.3	48.0	48.0	48.2	46.3	46.3	45.2
IncrementDel:	0.1	50.0	50.0	2.9	53.7	53.7	52.3	52.3	140.5	82.4	82.4	8.3
InitQueueDel:	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Delay Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Delay/Veh:	22.3	82.7	82.7	37.2	92.0	92.0	100.2	100	188.6	128.6	129	53.4
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	22.3	82.7	82.7	37.2	92.0	92.0	100.2	100	188.6	128.6	129	53.4
LOS by Move:	C	F	F	D	F	F	F	F	F	F	F	D
HCM2kAvgQ:	1	31	31	8	22	22	4	4	5	9	9	4

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Level Of Service Computation Report

2000 HCM Operations Method (Future Volume Alternative)

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Intersection #9 Pacific Coast Hwy / Huntington St

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Cycle (sec): 100 Critical Vol./Cap.(X): 0.693  
 Loss Time (sec): 5 (Y+R=4.0 sec) Average Delay (sec/veh): 9.9  
 Optimal Cycle: 38 Level Of Service: A

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Street Name:	Pacific Coast Hwy						Huntington St					
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Protected			Protected			Permitted			Permitted		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	1	0	2	0	1	0	0	1	0	1	1	0

Volume Module:

Base Vol:	45	1937	240	56	1436	11	45	56	90	156	34	34
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	45	1937	240	56	1436	11	45	56	90	156	34	34
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	45	1937	240	56	1436	11	45	56	90	156	34	34
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	45	1937	240	56	1436	11	45	56	90	156	34	34
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	45	1937	240	56	1436	11	45	56	90	156	34	34
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	45	1937	240	56	1436	11	45	56	90	156	34	34

Saturation Flow Module:

Sat/Lane:	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	1.00	2.00	1.00	1.00	2.00	1.00	0.47	0.59	0.94	1.64	0.36	1.00
Final Sat.:	1700	3400	1700	1700	3400	1700	801	997	1602	2792	608	1700

Capacity Analysis Module:

Vol/Sat:	0.03	0.57	0.14	0.03	0.42	0.01	0.06	0.06	0.06	0.06	0.06	0.02
Crit Moves:	****			****			****					
Green/Cycle:	0.05	0.82	0.82	0.05	0.82	0.82	0.08	0.08	0.08	0.08	0.08	0.08
Volume/Cap:	0.52	0.69	0.17	0.69	0.52	0.01	0.69	0.69	0.69	0.69	0.69	0.25
Uniform Del:	46.2	3.7	1.9	46.9	2.9	1.7	44.7	44.7	44.7	44.7	44.7	43.1
IncrcmntDel:	5.3	0.8	0.1	22.9	0.2	0.0	7.4	7.4	7.4	7.2	7.2	0.9
InitQueueDel:	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Delay Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Delay/Veh:	51.5	4.5	1.9	69.8	3.0	1.7	52.2	52.2	52.2	52.0	52.0	44.0
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	51.5	4.5	1.9	69.8	3.0	1.7	52.2	52.2	52.2	52.0	52.0	44.0
LOS by Move:	D	A	A	E	A	A	D	D	D	D	D	D
HCM2kAvgQ:	2	13	2	3	7	0	4	4	4	4	4	1

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Level Of Service Computation Report  
 2000 HCM Operations Method (Future Volume Alternative)

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Intersection #16 Main St / Adams Ave

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Cycle (sec): 100 Critical Vol./Cap.(X): 0.726  
 Loss Time (sec): 5 (Y+R=4.0 sec) Average Delay (sec/veh): 21.5  
 Optimal Cycle: 42 Level Of Service: C

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Street Name:	Main St					Adams Ave											
Approach:	North Bound			South Bound			East Bound			West Bound							
Movement:	L	T	R	L	T	R	L	T	R	L	T	R					
Control:	Permitted			Permitted			Permitted			Permitted							
Rights:	Include			Include			Include			Include							
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0					
Lanes:	1	0	1	0	1	0	1	0	1	0	0	1	0	1	0	0	1

Volume Module:

Base Vol:	11	582	140	98	614	11	0	180	11	242	316	68
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	11	582	140	98	614	11	0	180	11	242	316	68
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	11	582	140	98	614	11	0	180	11	242	316	68
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	11	582	140	98	614	11	0	180	11	242	316	68
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	11	582	140	98	614	11	0	180	11	242	316	68
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Final Volume:	11	582	140	98	614	11	0	180	11	242	316	68

Saturation Flow Module:

Sat/Lane:	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	0.43	0.57	1.00
Final Sat.:	1700	1700	1700	1700	1700	1700	0	1700	1700	737	963	1700

Capacity Analysis Module:

Vol/Sat:	0.01	0.34	0.08	0.06	0.36	0.01	0.00	0.11	0.01	0.33	0.33	0.04
Crit Moves:						****						****
Green/Cycle:	0.50	0.50	0.50	0.50	0.50	0.50	0.00	0.45	0.45	0.45	0.45	0.45
Volume/Cap:	0.01	0.69	0.17	0.12	0.73	0.01	0.00	0.23	0.01	0.73	0.73	0.09
Uniform Del:	12.7	19.2	13.7	13.4	19.7	12.7	0.0	16.8	15.1	22.3	22.3	15.6
IncrementDel:	0.0	2.4	0.1	0.1	3.2	0.0	0.0	0.2	0.0	3.5	3.5	0.0
InitQueueDel:	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Delay Adj:	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00
Delay/Veh:	12.7	21.6	13.8	13.4	22.9	12.7	0.0	16.9	15.1	25.8	25.8	15.7
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	12.7	21.6	13.8	13.4	22.9	12.7	0.0	16.9	15.1	25.8	25.8	15.7
LOS by Move:	B	C	B	B	C	B	A	B	B	C	C	B
HCM2kAvgQ:	0	14	2	2	16	0	0	3	0	15	15	1

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Level Of Service Computation Report

2000 HCM 4-Way Stop Method (Future Volume Alternative)

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Intersection #17 Main St / Walnut Ave

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Cycle (sec): 100 Critical Vol./Cap.(X): 0.343  
 Loss Time (sec): 0 (Y+R=4.0 sec) Average Delay (sec/veh): 8.5  
 Optimal Cycle: 0 Level Of Service: A

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Street Name:	Main St						Walnut Ave					
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Stop Sign			Stop Sign			Stop Sign			Stop Sign		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	0	0	0	0	0	1	0	0	1	0	1	0

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Volume Module:

Base Vol:	0	0	324	0	0	0	0	14	19	47	92	0
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	0	0	324	0	0	0	0	14	19	47	92	0
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	0	0	324	0	0	0	0	14	19	47	92	0
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	0	0	324	0	0	0	0	14	19	47	92	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	0	0	324	0	0	0	0	14	19	47	92	0
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	0	0	324	0	0	0	0	14	19	47	92	0

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Saturation Flow Module:

Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	0.00	0.00	1.00	0.00	1.00	0.00	0.00	0.42	0.58	0.34	0.66	0.00
Final Sat.:	0	0	946	0	745	0	0	328	445	250	489	0

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Capacity Analysis Module:

Vol/Sat:	xxxx	xxxx	0.34	xxxx	0.00	xxxx	xxxx	0.04	0.04	0.19	0.19	xxxx
Crit Moves:			****		****			****			****	
Delay/Veh:	0.0	0.0	8.5	0.0	0.0	0.0	0.0	7.5	7.5	8.6	8.6	0.0
Delay Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	0.0	0.0	8.5	0.0	0.0	0.0	0.0	7.5	7.5	8.6	8.6	0.0
LOS by Move:	*	*	A	*	*	*	*	A	A	A	A	*
ApproachDel:		8.5		xxxxxx				7.5			8.6	
Delay Adj:		1.00		xxxxxx				1.00			1.00	
ApprAdjDel:		8.5		xxxxxx				7.5			8.6	
LOS by Appr:		A			*			A			A	
AllWayAvgQ:	0.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2

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Note: Queue reported is the number of cars per lane.

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Level Of Service Computation Report

2000 HCM Operations Method (Future Volume Alternative)

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Intersection #19 Main St / 6th St

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Cycle (sec): 100 Critical Vol./Cap.(X): 0.366  
 Loss Time (sec): 5 (Y+R=4.0 sec) Average Delay (sec/veh): 14.2  
 Optimal Cycle: 20 Level Of Service: B  
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Street Name:	Main St						6th St					
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Permitted			Permitted			Permitted			Permitted		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	1	0	0	1	0	0	1	0	1	1	0	1

Volume Module:

Base Vol:	30	220	14	26	179	252	160	49	31	19	84	34
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	30	220	14	26	179	252	160	49	31	19	84	34
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	30	220	14	26	179	252	160	49	31	19	84	34
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	30	220	14	26	179	252	160	49	31	19	84	34
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	30	220	14	26	179	252	160	49	31	19	84	34
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	30	220	14	26	179	252	160	49	31	19	84	34

Saturation Flow Module:

Sat/Lane:	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	1.00	0.94	0.06	1.00	0.42	0.58	1.00	1.00	1.00	1.00	1.00	1.00
Final Sat.:	1700	1598	102	1700	706	994	1700	1700	1700	1700	1700	1700

Capacity Analysis Module:

Vol/Sat:	0.02	0.14	0.14	0.02	0.25	0.25	0.09	0.03	0.02	0.01	0.05	0.02
Crit Moves:					****	****						
Green/Cycle:	0.69	0.69	0.69	0.69	0.69	0.69	0.26	0.26	0.26	0.26	0.26	0.26
Volume/Cap:	0.03	0.20	0.20	0.02	0.37	0.37	0.37	0.11	0.07	0.04	0.19	0.08
Uniform Del:	4.8	5.5	5.5	4.8	6.3	6.3	30.5	28.4	28.1	27.9	29.0	28.2
IncrcmntDel:	0.0	0.1	0.1	0.0	0.2	0.2	0.5	0.1	0.1	0.0	0.2	0.1
InitQueueDel:	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Delay Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Delay/Veh:	4.8	5.6	5.6	4.8	6.5	6.5	31.0	28.5	28.2	27.9	29.2	28.2
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	4.8	5.6	5.6	4.8	6.5	6.5	31.0	28.5	28.2	27.9	29.2	28.2
LOS by Move:	A	A	A	A	A	A	C	C	C	C	C	C
HCM2kAvgQ:	0	3	3	0	6	6	4	1	1	0	2	1

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Level Of Service Computation Report  
 2000 HCM 4-Way Stop Method (Future Volume Alternative)

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Intersection #20 Lake St / 6th St

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Cycle (sec): 100 Critical Vol./Cap.(X): 0.332  
 Loss Time (sec): 0 (Y+R=4.0 sec) Average Delay (sec/veh): 9.6  
 Optimal Cycle: 0 Level Of Service: A

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Street Name:	Lake St						6th St					
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Stop Sign			Stop Sign			Stop Sign			Stop Sign		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	1	0	0	1	0	1	0	1	0	0	1	0

Volume Module:

Base Vol:	5	181	46	34	150	52	10	49	5	11	79	23
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	5	181	46	34	150	52	10	49	5	11	79	23
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	5	181	46	34	150	52	10	49	5	11	79	23
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	5	181	46	34	150	52	10	49	5	11	79	23
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	5	181	46	34	150	52	10	49	5	11	79	23
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	5	181	46	34	150	52	10	49	5	11	79	23

Saturation Flow Module:

Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	1.00	0.80	0.20	1.00	1.00	1.00	0.17	0.83	1.00	0.12	0.88	1.00
Final Sat.:	607	545	139	577	630	715	97	475	652	71	513	665

Capacity Analysis Module:

Vol/Sat:	0.01	0.33	0.33	0.06	0.24	0.07	0.10	0.10	0.01	0.15	0.15	0.03
Crit Moves:			****		****		****			****		
Delay/Veh:	8.5	10.2	10.2	9.1	9.9	7.9	9.2	9.2	7.8	9.5	9.5	7.9
Delay Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	8.5	10.2	10.2	9.1	9.9	7.9	9.2	9.2	7.8	9.5	9.5	7.9
LOS by Move:	A	B	B	A	A	A	A	A	A	A	A	A
ApproachDel:		10.2			9.3			9.1			9.2	
Delay Adj:		1.00			1.00			1.00			1.00	
ApprAdjDel:		10.2			9.3			9.1			9.2	
LOS by Appr:		B			A			A			A	
AllWayAvgQ:	0.0	0.5	0.5	0.1	0.3	0.1	0.1	0.1	0.0	0.2	0.2	0.0

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Note: Queue reported is the number of cars per lane.

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Level Of Service Computation Report

2000 HCM Operations Method (Future Volume Alternative)

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Intersection #22 1st St / Orange Ave & Atlanta Ave

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Cycle (sec): 100 Critical Vol./Cap.(X): 0.465  
 Loss Time (sec): 5 (Y+R=4.0 sec) Average Delay (sec/veh): 22.9  
 Optimal Cycle: 23 Level Of Service: C

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Street Name:	1st St						Orange Ave & Atlanta Ave								
Approach:	North Bound			South Bound			East Bound			West Bound					
Movement:	L	T	R	L	T	R	L	T	R	L	T	R			
Control:	Permitted			Permitted			Protected			Protected					
Rights:	Include			Include			Include			Include					
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0			
Lanes:	0	1	0	0	1	1	0	0	0	0	1	0	1	1	0

Volume Module:

Base Vol:	105	11	249	11	0	0	0	376	141	244	353	11
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	105	11	249	11	0	0	0	376	141	244	353	11
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	105	11	249	11	0	0	0	376	141	244	353	11
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	105	11	249	11	0	0	0	376	141	244	353	11
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	105	11	249	11	0	0	0	376	141	244	353	11
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	105	11	249	11	0	0	0	376	141	244	353	11

Saturation Flow Module:

Sat/Lane:	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	0.91	0.09	1.00	1.00	0.00	0.00	1.00	1.45	0.55	1.00	0.97	0.03
Final Sat.:	1539	161	1700	1700	0	0	1700	2473	927	1700	1649	51

Capacity Analysis Module:

Vol/Sat:	0.07	0.07	0.15	0.01	0.00	0.00	0.00	0.15	0.15	0.14	0.21	0.21
Crit Moves:			****					****		****		
Green/Cycle:	0.31	0.31	0.31	0.31	0.00	0.00	0.00	0.33	0.33	0.31	0.64	0.64
Volume/Cap:	0.22	0.22	0.47	0.02	0.00	0.00	0.00	0.47	0.47	0.47	0.34	0.34
Uniform Del:	25.2	25.2	27.5	23.6	0.0	0.0	0.0	26.7	26.7	27.9	8.5	8.5
IncrcmntDel:	0.2	0.2	0.6	0.0	0.0	0.0	0.0	0.3	0.3	0.7	0.2	0.2
InitQueueDel:	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Delay Adj:	1.00	1.00	1.00	1.00	0.00	0.00	0.00	1.00	1.00	1.00	1.00	1.00
Delay/Veh:	25.4	25.4	28.1	23.6	0.0	0.0	0.0	27.0	27.0	28.6	8.7	8.7
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	25.4	25.4	28.1	23.6	0.0	0.0	0.0	27.0	27.0	28.6	8.7	8.7
LOS by Move:	C	C	C	C	A	A	A	C	C	C	A	A
HCM2kAvgQ:	3	3	6	0	0	0	0	7	7	6	5	5

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Level Of Service Computation Report

2000 HCM Operations Method (Future Volume Alternative)

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Intersection #24 Beach Blvd / Pacific View Ave

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Cycle (sec): 100 Critical Vol./Cap.(X): 0.340

Loss Time (sec): 5 (Y+R=4.0 sec) Average Delay (sec/veh): 9.2

Optimal Cycle: 19 Level Of Service: A

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Street Name: Beach Blvd Pacific View Ave

Approach: North Bound South Bound East Bound West Bound

Movement: L - T - R L - T - R L - T - R L - T - R

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Control: Protected Protected Protected Protected

Rights: Include Include Include Include

Min. Green: 0 0 0 0 0 0 0 0 0 0 0 0

Lanes: 1 0 3 0 0 1 0 2 1 0 1 0 0 0 0 0

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Volume Module:

Base Vol: 13 1189 0 0 661 161 152 0 63 0 0 0

Growth Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00

Initial Bse: 13 1189 0 0 661 161 152 0 63 0 0 0

Added Vol: 0 0 0 0 0 0 0 0 0 0 0 0

PasserByVol: 0 0 0 0 0 0 0 0 0 0 0 0

Initial Fut: 13 1189 0 0 661 161 152 0 63 0 0 0

User Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00

PHF Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00

PHF Volume: 13 1189 0 0 661 161 152 0 63 0 0 0

Reduct Vol: 0 0 0 0 0 0 0 0 0 0 0 0

Reduced Vol: 13 1189 0 0 661 161 152 0 63 0 0 0

PCE Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00

MLF Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00

FinalVolume: 13 1189 0 0 661 161 152 0 63 0 0 0

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Saturation Flow Module:

Sat/Lane: 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700

Adjustment: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00

Lanes: 1.00 3.00 0.00 1.00 2.41 0.59 1.00 0.00 1.00 0.00 0.00 0.00

Final Sat.: 1700 5100 0 1700 4101 999 1700 0 1700 0 0 0

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Capacity Analysis Module:

Vol/Sat: 0.01 0.23 0.00 0.00 0.16 0.16 0.09 0.00 0.04 0.00 0.00 0.00

Crit Moves: \*\*\*\* \*\*\*\* \*\*\*\*

Green/Cycle: 0.03 0.69 0.00 0.00 0.66 0.66 0.26 0.00 0.26 0.00 0.00 0.00

Volume/Cap: 0.25 0.34 0.00 0.00 0.25 0.25 0.34 0.00 0.14 0.00 0.00 0.00

Uniform Del: 47.3 6.4 0.0 0.0 7.1 7.1 29.8 0.0 28.2 0.0 0.0 0.0

IncrcmntDel: 2.4 0.1 0.0 0.0 0.0 0.0 0.5 0.0 0.1 0.0 0.0 0.0

InitQueueDel: 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0

Delay Adj: 1.00 1.00 0.00 0.00 1.00 1.00 1.00 0.00 1.00 0.00 0.00 0.00

Delay/Veh: 49.7 6.5 0.0 0.0 7.1 7.1 30.3 0.0 28.3 0.0 0.0 0.0

User DelAdj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00

AdjDel/Veh: 49.7 6.5 0.0 0.0 7.1 7.1 30.3 0.0 28.3 0.0 0.0 0.0

LOS by Move: D A A A A A C A C A A A

HCM2kAvgQ: 1 5 0 0 3 3 4 0 2 0 0 0

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