

**CUMULATIVE (2020) WITH
PROJECT CONDITIONS
(ICU METHODOLOGY)**

Cumulative Conditions (2020) Mon Mar 30, 2009 18:52:25

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Huntington Beach Traffic Impact Analysis
Cumulative Conditions (Year 2020) with Project AM

Scenario Report

Scenario: Cumulative Conditions (2020) with Project AM
Command: Cumulative Conditions (2020) with Project AM
Volume: Existing AM
Geometry: Existing
Impact Fee: Default Impact Fee
Trip Generation: Approved with Project AM
Trip Distribution: Project
Paths: Default Path
Routes: Default Route
Configuration: Cumulative Conditions (2020) with Project

Huntington Beach Traffic Impact Analysis
 Cumulative Conditions (Year 2020) with Project AM

Impact Analysis Report
 Level Of Service

Intersection	Base		Future		Change in
	Del/ LOS	V/ Veh C	Del/ LOS	V/ Veh C	
# 1 Pacific Coast Hwy / Warner Ave	D	xxxxxx 0.812	D	xxxxxx 0.841	+ 0.029 V/C
# 2 Pacific Coast Hwy / Seapoint A	B	xxxxxx 0.647	B	xxxxxx 0.677	+ 0.030 V/C
# 3 Pacific Coast Hwy / Goldenwest	B	xxxxxx 0.676	C	xxxxxx 0.733	+ 0.056 V/C
# 4 Pacific Coast Hwy / 17th St	A	xxxxxx 0.574	B	xxxxxx 0.620	+ 0.046 V/C
# 5 Pacific Coast Hwy / 9th St	A	xxxxxx 0.574	B	xxxxxx 0.620	+ 0.046 V/C
# 6 Pacific Coast Hwy / 6th St	C	xxxxxx 0.715	C	xxxxxx 0.758	+ 0.042 V/C
# 7 Pacific Coast Hwy / Main St	B	xxxxxx 0.684	C	xxxxxx 0.729	+ 0.045 V/C
# 8 Pacific Coast Hwy / 1st St	C	xxxxxx 0.741	C	xxxxxx 0.772	+ 0.032 V/C
# 9 Pacific Coast Hwy / Huntington	B	xxxxxx 0.613	B	xxxxxx 0.684	+ 0.071 V/C
# 10 Pacific Coast Hwy / Beach Blvd	C	xxxxxx 0.743	C	xxxxxx 0.785	+ 0.042 V/C
# 11 Pacific Coast Hwy / Newland S	A	xxxxxx 0.560	A	xxxxxx 0.589	+ 0.028 V/C
# 12 Pacific Coast Hwy / Magnolia S	A	xxxxxx 0.585	B	xxxxxx 0.613	+ 0.028 V/C
# 13 Pacific Coast Hwy / Brookhurst	C	xxxxxx 0.704	C	xxxxxx 0.732	+ 0.028 V/C
# 14 Main St / Yorktown Ave	A	xxxxxx 0.385	A	xxxxxx 0.416	+ 0.031 V/C
# 15 Main St / 17 th St	A	xxxxxx 0.279	A	xxxxxx 0.311	+ 0.032 V/C
# 16 Main St / Adams Ave	A	xxxxxx 0.481	A	xxxxxx 0.547	+ 0.066 V/C
# 19 Main St / 6th St	A	xxxxxx 0.216	A	xxxxxx 0.342	+ 0.126 V/C
# 22 1st St / Orange Ave & Atlanta	A	xxxxxx 0.315	A	xxxxxx 0.361	+ 0.046 V/C
# 23 Beach Blvd / Atlanta Ave	A	xxxxxx 0.362	A	xxxxxx 0.428	+ 0.067 V/C
# 24 Beach Blvd / Pacific View Ave	A	xxxxxx 0.267	A	xxxxxx 0.334	+ 0.067 V/C

Huntington Beach Traffic Impact Analysis
 Cumulative Conditions (Year 2020) with Project AM

Level Of Service Computation Report

ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #1 Pacific Coast Hwy / Warner Ave

Cycle (sec): 120 Critical Vol./Cap.(X): 0.841
 Loss Time (sec): 6 (Y+R=4.0 sec) Average Delay (sec/veh): xxxxxx
 Optimal Cycle: 69 Level Of Service: D

Street Name:	Pacific Coast Hwy				Warner 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		Ovl													
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0								
Lanes:	1	0	2	0	1	2	0	1	1	0	1	0	0	1	0	2	0	1	0	2

Volume Module:

Base Vol:	30	1160	220	410	1150	40	20	190	30	290	50	600
Growth Adj:	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13
Initial Bse:	34	1307	248	462	1296	45	23	214	34	327	56	676
Added Vol:	0	81	15	0	87	0	0	0	0	17	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	34	1388	263	462	1383	45	23	214	34	344	56	676
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:	34	1388	263	462	1383	45	23	214	34	344	56	676
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	34	1388	263	462	1383	45	23	214	34	344	56	676
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:	34	1388	263	462	1383	45	23	214	34	344	56	676
OvlAdjVol:												214

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	2.00	1.94	0.06	1.00	0.86	0.14	2.00	1.00	2.00
Final Sat.:	1700	3400	1700	3400	3293	107	1700	1468	232	3400	1700	3400

Capacity Analysis Module:

Vol/Sat:	0.02	0.41	0.15	0.14	0.42	0.42	0.01	0.15	0.15	0.10	0.03	0.20
OvlAdjV/S:												0.06
Crit Moves:	****		****		****		****		****			

Huntington Beach Traffic Impact Analysis
 Cumulative Conditions (Year 2020) with Project AM

Level Of Service Computation Report

ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #2 Pacific Coast Hwy / Seapoint Ave

Cycle (sec): 120 Critical Vol./Cap.(X): 0.677
 Loss Time (sec): 6 (Y+R=4.0 sec) Average Delay (sec/veh): xxxxxx
 Optimal Cycle: 39 Level Of Service: B

Street Name: Pacific Coast Hwy Seapoint 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: 0 0 1 1 0 1 0 2 0 0 0 0 0 0 0 0 1

Volume Module:
 Base Vol: 0 1110 30 80 1270 0 0 0 0 80 0 250
 Growth Adj: 1.13 1.13 1.13 1.13 1.13 1.13 1.13 1.13 1.13 1.13 1.13 1.13
 Initial Bse: 0 1251 34 90 1431 0 0 0 0 90 0 282
 Added Vol: 0 96 6 0 103 0 0 0 0 6 0 0
 PasserByVol: 0 0 0 0 0 0 0 0 0 0 0 0
 Initial Fut: 0 1347 40 90 1534 0 0 0 0 96 0 282
 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 1347 40 90 1534 0 0 0 0 96 0 282
 Reduct Vol: 0 0 0 0 0 0 0 0 0 0 0 0
 Reduced Vol: 0 1347 40 90 1534 0 0 0 0 96 0 282
 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 1347 40 90 1534 0 0 0 0 96 0 282

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 1.94 0.06 1.00 2.00 0.00 0.00 0.00 0.00 2.00 0.00 1.00
 Final Sat.: 0 3302 98 1700 3400 0 0 0 0 3400 0 1700

Capacity Analysis Module:
 Vol/Sat: 0.00 0.41 0.41 0.05 0.45 0.00 0.00 0.00 0.00 0.03 0.00 0.17
 Crit Moves: ****

Huntington Beach Traffic Impact Analysis
 Cumulative Conditions (Year 2020) with Project AM

Level of Service Computation Report

ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #3 Pacific Coast Hwy / Goldenwest St

Cycle (sec): 120 Critical Vol./Cap.(X): 0.733

Loss Time (sec): 6 (Y+R=4.0 sec) Average Delay (sec/veh): xxxxxx

Optimal Cycle: 45 Level Of Service: C

Street Name:	Pacific Coast Hwy				Goldenwest 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	2	0	1	1	0	2	0	0	0	0	0	0	0	1	0	0	0	1

Volume Module:

Base Vol:	20	970	140	140	1250	0	0	0	0	300	0	140
Growth Adj:	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13
Initial Bse:	23	1093	158	158	1409	0	0	0	0	338	0	158
Added Vol:	0	102	31	0	109	0	0	0	0	41	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	23	1195	189	158	1518	0	0	0	0	379	0	158
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	1195	189	158	1518	0	0	0	0	379	0	158
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	23	1195	189	158	1518	0	0	0	0	379	0	158
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	1195	189	158	1518	0	0	0	0	379	0	158

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	0.00	0.00	0.00	0.00	1.00	0.00	1.00
Final Sat.:	1700	3400	1700	1700	3400	0	0	0	0	1700	0	1700

Capacity Analysis Module:

Vol/Sat:	0.01	0.35	0.11	0.09	0.45	0.00	0.00	0.00	0.00	0.22	0.00	0.09
Crit Moves:	****			****						****		

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Huntington Beach Traffic Impact Analysis
 Cumulative Conditions (Year 2020) with Project AM

Level Of Service Computation Report

ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #4 Pacific Coast Hwy / 17th St

Cycle (sec): 120 Critical Vol./Cap.(X): 0.620

Loss Time (sec): 6 (Y+R=4.0 sec) Average Delay (sec/veh): xxxxxx

Optimal Cycle: 33 Level Of Service: B

Street Name: Pacific Coast Hwy 17th St

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

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Volume Module:

Base Vol: 0 1010 30 60 1420 0 0 0 0 80 0 80

Growth Adj: 1.13 1.13 1.13 1.13 1.13 1.13 1.13 1.13 1.13 1.13 1.13 1.13

Initial Bse: 0 1138 34 68 1600 0 0 0 0 90 0 90

Added Vol: 0 133 2 0 150 0 0 0 0 4 0 0

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

Initial Fut: 0 1271 36 68 1750 0 0 0 0 94 0 90

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 1271 36 68 1750 0 0 0 0 94 0 90

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

Reduced Vol: 0 1271 36 68 1750 0 0 0 0 94 0 90

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 1271 36 68 1750 0 0 0 0 94 0 90

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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: 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

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Capacity Analysis Module:

Vol/Sat: 0.00 0.37 0.02 0.04 0.51 0.00 0.00 0.00 0.00 0.06 0.00 0.05

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

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Huntington Beach Traffic Impact Analysis
 Cumulative Conditions (Year 2020) with Project AM

Level Of Service Computation Report

ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #5 Pacific Coast Hwy / 9th St

Cycle (sec): 120 Critical Vol./Cap.(X): 0.620

Loss Time (sec): 6 (Y+R=4.0 sec) Average Delay (sec/veh): xxxxxx

Optimal Cycle: 33 Level Of Service: B

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

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

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Volume Module:

Base Vol: 0 1050 10 20 1500 0 0 0 0 40 0 20

Growth Adj: 1.13 1.13 1.13 1.13 1.13 1.13 1.13 1.13 1.13 1.13 1.13 1.13

Initial Bse: 0 1183 11 23 1690 0 0 0 0 45 0 23

Added Vol: 0 135 1 0 154 0 0 0 0 2 0 0

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

Initial Fut: 0 1318 12 23 1844 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 1318 12 23 1844 0 0 0 0 47 0 23

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

Reduced Vol: 0 1318 12 23 1844 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 1318 12 23 1844 0 0 0 0 47 0 23

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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: 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

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Capacity Analysis Module:

Vol/Sat: 0.00 0.39 0.01 0.01 0.54 0.00 0.00 0.00 0.00 0.03 0.00 0.01

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

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Huntington Beach Traffic Impact Analysis
 Cumulative Conditions (Year 2020) with Project AM

Level Of Service Computation Report

ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #6 Pacific Coast Hwy / 6th St

Cycle (sec): 120 Critical Vol./Cap.(X): 0.758

Loss Time (sec): 36 (Y+R=4.0 sec) Average Delay (sec/veh): xxxxxx

Optimal Cycle: 104 Level Of Service: C

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

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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 1 0 2 1 0 0 0 1! 0 0 1 0 0 1 0

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Volume Module:

Base Vol: 20 940 20 40 1490 30 30 20 20 30 20 50

Growth Adj: 1.13 1.13 1.13 1.13 1.13 1.13 1.13 1.13 1.13 1.13 1.13 1.13

Initial Bse: 23 1059 23 45 1679 34 34 23 23 34 23 56

Added Vol: 0 103 50 41 116 0 0 0 0 39 0 33

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

Initial Fut: 23 1162 73 86 1795 34 34 23 23 73 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 1162 73 86 1795 34 34 23 23 73 23 89

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

Reduced Vol: 23 1162 73 86 1795 34 34 23 23 73 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 1162 73 86 1795 34 34 23 23 73 23 89

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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 2.82 0.18 1.00 2.94 0.06 0.43 0.29 0.28 1.00 0.20 0.80

Final Sat.: 1700 4800 300 1700 5006 94 729 486 486 1700 342 1358

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Capacity Analysis Module:

Vol/Sat: 0.01 0.24 0.24 0.05 0.36 0.36 0.02 0.05 0.05 0.04 0.07 0.07

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

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Huntington Beach Traffic Impact Analysis
 Cumulative Conditions (Year 2020) with Project AM

Level Of Service Computation Report

ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #7 Pacific Coast Hwy / Main St

Cycle (sec): 120 Critical Vol./Cap.(X): 0.729

Loss Time (sec): 36 (Y+R=4.0 sec) Average Delay (sec/veh): xxxxxx

Optimal Cycle: 99 Level Of Service: C

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

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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 1 1 0 3 0 0 0 0 0 0 1 1 0 0 0 1

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Volume Module:

Base Vol: 10 910 60 40 1500 0 0 0 0 50 0 70

Growth Adj: 1.13 1.13 1.13 1.13 1.13 1.13 1.13 1.13 1.13 1.13 1.13 1.13

Initial Bse: 11 1025 68 45 1690 0 0 0 0 56 0 79

Added Vol: 0 116 33 39 116 0 0 0 0 32 0 37

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

Initial Fut: 11 1141 101 84 1806 0 0 0 0 88 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 1141 101 84 1806 0 0 0 0 88 0 116

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

Reduced Vol: 11 1141 101 84 1806 0 0 0 0 88 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 1141 101 84 1806 0 0 0 0 88 0 116

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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 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

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Capacity Analysis Module:

Vol/Sat: 0.01 0.22 0.06 0.05 0.35 0.00 0.00 0.00 0.00 0.05 0.00 0.07

Crit Moves: **** ****

Huntington Beach Traffic Impact Analysis
 Cumulative Conditions (Year 2020) with Project AM

Level Of Service Computation Report

ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #8 Pacific Coast Hwy / 1st St

Cycle (sec): 120 Critical Vol./Cap.(X): 0.772
 Loss Time (sec): 36 (Y+R=4.0 sec) Average Delay (sec/veh): xxxxxx
 Optimal Cycle: 107 Level Of Service: C

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:	Protected		Protected		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	1	0	2	1	0	1	1	0	0	2

Volume Module:

Base Vol:	40	800	50	40	1380	60	70	40	30	100	80	110
Growth Adj:	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13
Initial Bse:	45	901	56	45	1555	68	79	45	34	113	90	124
Added Vol:	0	84	73	76	71	0	0	0	0	60	0	66
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	45	985	129	121	1626	68	79	45	34	173	90	190
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	985	129	121	1626	68	79	45	34	173	90	190
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	45	985	129	121	1626	68	79	45	34	173	90	190
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	985	129	121	1626	68	79	45	34	173	90	190

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	2.65	0.35	1.00	2.88	0.12	1.27	0.73	1.00	1.31	0.69	2.00
Final Sat.:	1700	4508	592	1700	4896	204	2164	1236	1700	2234	1166	3400

Capacity Analysis Module:

Vol/Sat:	0.03	0.22	0.22	0.07	0.33	0.33	0.04	0.04	0.02	0.08	0.08	0.06
Crit Moves:	****			****			****			****		

Huntington Beach Traffic Impact Analysis
 Cumulative Conditions (Year 2020) with Project AM

Level Of Service Computation Report

ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #9 Pacific Coast Hwy / Huntington St

Cycle (sec): 120 Critical Vol./Cap.(X): 0.684
 Loss Time (sec): 6 (Y+R=4.0 sec) Average Delay (sec/veh): xxxxxx
 Optimal Cycle: 39 Level Of Service: B

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																			
Min. Green:	0	0	0	0	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:	50	830	60	30	1460	10	10	20	40	30	60	20
Growth Adj:	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13
Initial Bse:	56	935	68	34	1645	11	11	23	45	34	68	23
Added Vol:	0	156	95	0	131	0	0	0	0	75	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	56	1091	163	34	1776	11	11	23	45	109	68	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:	56	1091	163	34	1776	11	11	23	45	109	68	23
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	56	1091	163	34	1776	11	11	23	45	109	68	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:	56	1091	163	34	1776	11	11	23	45	109	68	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:	1.00	2.00	1.00	1.00	2.00	1.00	0.29	0.71	1.00	1.23	0.77	1.00
Final Sat.:	1700	3400	1700	1700	3400	1700	486	1214	1700	2097	1303	1700

Capacity Analysis Module:

Vol/Sat:	0.03	0.32	0.10	0.02	0.52	0.01	0.01	0.02	0.03	0.05	0.05	0.01
Crit Moves:	****			****			****	****	****	****		

Huntington Beach Traffic Impact Analysis
 Cumulative Conditions (Year 2020) with Project AM

Level Of Service Computation Report

ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #10 Pacific Coast Hwy / Beach Blvd

Cycle (sec): 120 Critical Vol./Cap.(X): 0.785

Loss Time (sec): 6 (Y+R=4.0 sec) Average Delay (sec/veh): xxxxxx

Optimal Cycle: 54 Level Of Service: C

Street Name: Pacific Coast Hwy Beach Blvd

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 Ignore Ignore

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 1 0 1 0 1

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Volume Module:

Base Vol: 20 860 220 100 1520 30 20 50 10 480 80 160

Growth Adj: 1.13 1.13 1.13 1.13 1.13 1.13 1.13 1.13 1.13 1.13 1.13 1.13

Initial Bse: 23 969 248 113 1713 34 23 56 11 541 90 180

Added Vol: 0 171 0 63 144 0 0 0 0 0 0 0 79

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

Initial Fut: 23 1140 248 176 1857 34 23 56 11 541 90 259

User Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 0.00 1.00 1.00 0.00

PHF Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 0.00 1.00 1.00 0.00

PHF Volume: 23 1140 248 176 1857 34 23 56 0 541 90 0

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

Reduced Vol: 23 1140 248 176 1857 34 23 56 0 541 90 0

PCE Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 0.00 1.00 1.00 0.00

MLF Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 0.00 1.00 1.00 0.00

FinalVolume: 23 1140 248 176 1857 34 23 56 0 541 90 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 2.00 1.00 1.00 2.00 1.00 1.00 2.00 1.00 2.00 1.00 1.00

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

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Capacity Analysis Module:

Vol/Sat: 0.01 0.34 0.15 0.10 0.55 0.02 0.01 0.02 0.00 0.16 0.05 0.00

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

Huntington Beach Traffic Impact Analysis
 Cumulative Conditions (Year 2020) with Project AM

Level Of Service Computation Report

ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #11 Pacific Coast Hwy / Newland St

Cycle (sec): 120 Critical Vol./Cap.(X): 0.589

Loss Time (sec): 6 (Y+R=4.0 sec) Average Delay (sec/veh): xxxxxx

Optimal Cycle: 31 Level Of Service: A

Street Name: Pacific Coast Hwy Newland St

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 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 3 0 1 1 0 3 0 1 0 1 0 1 0 0 1 1

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Volume Module:

Base Vol: 0 930 30 60 1800 0 10 10 0 160 0 110

Growth Adj: 1.13 1.13 1.13 1.13 1.13 1.13 1.13 1.13 1.13 1.13 1.13 1.13

Initial Bse: 0 1048 34 68 2028 0 11 11 0 180 0 124

Added Vol: 0 171 0 0 144 0 0 0 0 0 0 0

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

Initial Fut: 0 1219 34 68 2172 0 11 11 0 180 0 124

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 1219 34 68 2172 0 11 11 0 180 0 124

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

Reduced Vol: 0 1219 34 68 2172 0 11 11 0 180 0 124

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 1219 34 68 2172 0 11 11 0 180 0 124

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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 1.00 1.00 3.00 1.00 1.00 1.00 0.00 1.00 0.00 1.00

Final Sat.: 1700 5100 1700 1700 5100 1700 1700 1700 0 1700 0 1700

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Capacity Analysis Module:

Vol/Sat: 0.00 0.24 0.02 0.04 0.43 0.00 0.01 0.01 0.00 0.11 0.00 0.07

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

Huntington Beach Traffic Impact Analysis
 Cumulative Conditions (Year 2020) with Project AM

Level Of Service Computation Report

ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #12 Pacific Coast Hwy / Magnolia St

Cycle (sec): 120 Critical Vol./Cap.(X): 0.613
 Loss Time (sec): 6 (Y+R=4.0 sec) Average Delay (sec/veh): xxxxxx
 Optimal Cycle: 33 Level Of Service: B

Street Name:	Pacific Coast Hwy						Magnolia 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			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	3	0	1	1	0	3	0	1	1	0	0	1

Volume Module:

Base Vol:	20	840	50	80	1850	30	10	20	10	150	20	140
Growth Adj:	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13
Initial Bse:	23	947	56	90	2085	34	11	23	11	169	23	158
Added Vol:	0	171	0	0	144	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	23	1118	56	90	2229	34	11	23	11	169	23	158
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	1118	56	90	2229	34	11	23	11	169	23	158
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	23	1118	56	90	2229	34	11	23	11	169	23	158
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	1118	56	90	2229	34	11	23	11	169	23	158

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	1.00	1.00	0.67	0.33	1.76	0.24	1.00
Final Sat.:	1700	5100	1700	1700	5100	1700	1700	1133	567	3000	400	1700

Capacity Analysis Module:

Vol/Sat:	0.01	0.22	0.03	0.05	0.44	0.02	0.01	0.02	0.02	0.06	0.06	0.09
Crit Moves:	****			****			****			****		

Huntington Beach Traffic Impact Analysis
 Cumulative Conditions (Year 2020) with Project AM

Level Of Service Computation Report

ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #13 Pacific Coast Hwy / Brookhurst St

Cycle (sec): 120 Critical Vol./Cap.(X): 0.732

Loss Time (sec): 6 (Y+R=4.0 sec) Average Delay (sec/veh): xxxxxx

Optimal Cycle: 45 Level Of Service: C

Street Name: Pacific Coast Hwy Brookhurst St

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 0

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

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Volume Module:

Base Vol: 10 750 210 150 1880 0 10 10 10 660 10 150

Growth Adj: 1.13 1.13 1.13 1.13 1.13 1.13 1.13 1.13 1.13 1.13 1.13 1.13

Initial Bse: 11 845 237 169 2118 0 11 11 11 744 11 169

Added Vol: 0 171 0 0 144 0 0 0 0 0 0 0 0

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

Initial Fut: 11 1016 237 169 2262 0 11 11 11 744 11 169

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 1016 237 169 2262 0 11 11 11 744 11 169

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

Reduced Vol: 11 1016 237 169 2262 0 11 11 11 744 11 169

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 1016 237 169 2262 0 11 11 11 744 11 169

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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 1.00 1.00 3.00 1.00 1.00 0.50 0.50 2.00 1.00 1.00

Final Sat.: 1700 5100 1700 1700 5100 1700 1700 850 850 3400 1700 1700

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Capacity Analysis Module:

Vol/Sat: 0.01 0.20 0.14 0.10 0.44 0.00 0.01 0.01 0.01 0.22 0.01 0.10

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

Huntington Beach Traffic Impact Analysis
 Cumulative Conditions (Year 2020) with Project AM

Level Of Service Computation Report

ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #14 Main St / Yorktown Ave

Cycle (sec): 100 Critical Vol./Cap.(X): 0.416
 Loss Time (sec): 5 (Y+R=4.0 sec) Average Delay (sec/veh): xxxxxx
 Optimal Cycle: 20 Level Of Service: A

Street Name:	Main St						Yorktown 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	2	0	1	1	1	0	2	0	1	1

Volume Module:

Base Vol:	110	360	30	110	330	40	60	340	140	40	340	90
Growth Adj:	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13
Initial Bse:	124	406	34	124	372	45	68	383	158	45	383	101
Added Vol:	6	59	28	0	66	0	0	0	7	36	2	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	130	465	62	124	438	45	68	383	165	81	385	101
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:	130	465	62	124	438	45	68	383	165	81	385	101
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	130	465	62	124	438	45	68	383	165	81	385	101
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:	130	465	62	124	438	45	68	383	165	81	385	101

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	2.00	2.00	1.00	1.00	2.00	1.00	1.00	2.00	1.00
Final Sat.:	1700	3400	1700	3400	3400	1700	1700	3400	1700	1700	3400	1700

Capacity Analysis Module:

Vol/Sat:	0.08	0.14	0.04	0.04	0.13	0.03	0.04	0.11	0.10	0.05	0.11	0.06
Crit Moves:	***			***			***			***		

Huntington Beach Traffic Impact Analysis
 Cumulative Conditions (Year 2020) with Project AM

Level Of Service Computation Report

ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #15 Main St / 17 th St

Cycle (sec): 100 Critical Vol./Cap.(X): 0.311
 Loss Time (sec): 5 (Y+R=4.0 sec) Average Delay (sec/veh): xxxxxx
 Optimal Cycle: 18 Level Of Service: A

Street Name: Main St 17th 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 2 0 1 0 0 1 1 1 1 0 0 1 0 1 0 0 0 0

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Volume Module:

Base Vol: 0 290 20 0 350 160 170 10 0 0 0 0

Growth Adj: 1.13 1.13 1.13 1.13 1.13 1.13 1.13 1.13 1.13 1.13 1.13 1.13

Initial Bse: 0 327 23 0 394 180 192 11 0 0 0 0

Added Vol: 0 93 0 0 109 0 0 0 0 0 0 0

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

Initial Fut: 0 420 23 0 503 180 192 11 0 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: 0 420 23 0 503 180 192 11 0 0 0 0

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

Reduced Vol: 0 420 23 0 503 180 192 11 0 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: 0 420 23 0 503 180 192 11 0 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 2.00 1.00 0.00 2.00 1.00 1.00 1.00 0.00 1.00 0.00 0.00

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

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Capacity Analysis Module:

Vol/Sat: 0.00 0.12 0.01 0.00 0.15 0.11 0.11 0.01 0.00 0.00 0.00 0.00

Crit Moves: **** ****

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Huntington Beach Traffic Impact Analysis
 Cumulative Conditions (Year 2020) with Project AM

Level Of Service Computation Report

ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #16 Main St / Adams Ave

Cycle (sec): 100 Critical Vol./Cap.(X): 0.547

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

Optimal Cycle: 26 Level Of Service: A

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 1 0 1 0 1 0 1 0 1 0 0 1 0 1 0 0 1

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Volume Module:

Base Vol: 20 300 100 50 280 30 10 230 10 60 190 30

Growth Adj: 1.13 1.13 1.13 1.13 1.13 1.13 1.13 1.13 1.13 1.13 1.13 1.13

Initial Bse: 23 338 113 56 316 34 11 259 11 68 214 34

Added Vol: 0 93 16 0 109 0 0 0 0 19 0 0

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

Initial Fut: 23 431 129 56 425 34 11 259 11 87 214 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: 23 431 129 56 425 34 11 259 11 87 214 34

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

Reduced Vol: 23 431 129 56 425 34 11 259 11 87 214 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: 23 431 129 56 425 34 11 259 11 87 214 34

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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 1.00 1.00 1.00 1.00 1.00 0.04 0.96 1.00 0.29 0.71 1.00

Final Sat.: 1700 1700 1700 1700 1700 1700 71 1629 1700 490 1210 1700

-----|-----|-----|-----|

Capacity Analysis Module:

Vol/Sat: 0.01 0.25 0.08 0.03 0.25 0.02 0.01 0.16 0.01 0.05 0.18 0.02

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

Huntington Beach Traffic Impact Analysis
 Cumulative Conditions (Year 2020) with Project AM

Level Of Service Computation Report

ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #19 Main St / 6th St

Cycle (sec): 100 Critical Vol./Cap.(X): 0.342
 Loss Time (sec): 5 (Y+R=4.0 sec) Average Delay (sec/veh): xxxxxx
 Optimal Cycle: 18 Level Of Service: A

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	0	1	0

Volume Module:

Base Vol:	0	80	30	10	130	30	40	40	10	50	50	10
Growth Adj:	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13
Initial Bse:	0	90	34	11	146	34	45	45	11	56	56	11
Added Vol:	12	57	3	0	61	75	58	8	12	3	9	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	12	147	37	11	207	109	103	53	23	59	65	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	147	37	11	207	109	103	53	23	59	65	11
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	12	147	37	11	207	109	103	53	23	59	65	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	147	37	11	207	109	103	53	23	59	65	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	0.80	0.20	1.00	0.66	0.34	1.00	1.00	1.00	1.00	1.00	1.00
Final Sat.:	1700	1360	340	1700	1115	585	1700	1700	1700	1700	1700	1700

Capacity Analysis Module:

Vol/Sat:	0.01	0.11	0.11	0.01	0.19	0.19	0.06	0.03	0.01	0.03	0.04	0.01
Crit Moves:	****			****			****			****		

Huntington Beach Traffic Impact Analysis
 Cumulative Conditions (Year 2020) with Project AM

Level Of Service Computation Report

ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

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

Cycle (sec): 100 Critical Vol./Cap.(X): 0.361

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

Optimal Cycle: 19 Level Of Service: A

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 1 0 0 0 1 0 1 0

-----|-----|-----|-----|

Volume Module:

Base Vol: 40 0 90 10 10 0 0 130 30 220 150 0

Growth Adj: 1.13 1.13 1.13 1.13 1.13 1.13 1.13 1.13 1.13 1.13 1.13 1.13

Initial Bse: 45 0 101 11 11 0 0 146 34 248 169 0

Added Vol: 27 0 13 0 0 0 0 52 36 21 59 0

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

Initial Fut: 72 0 114 11 11 0 0 198 70 269 228 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: 72 0 114 11 11 0 0 198 70 269 228 0

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

Reduced Vol: 72 0 114 11 11 0 0 198 70 269 228 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: 72 0 114 11 11 0 0 198 70 269 228 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 0.00 1.00 0.50 0.50 0.00 1.00 1.48 0.52 1.00 1.00 0.00

Final Sat.: 1700 0 1700 850 850 0 1700 2515 885 1700 1700 0

-----|-----|-----|-----|

Capacity Analysis Module:

Vol/Sat: 0.04 0.00 0.07 0.01 0.01 0.00 0.00 0.08 0.08 0.16 0.13 0.00

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

Huntington Beach Traffic Impact Analysis
 Cumulative Conditions (Year 2020) with Project AM

Level Of Service Computation Report

ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #23 Beach Blvd / Atlanta Ave

Cycle (sec): 120 Critical Vol./Cap.(X): 0.428

Loss Time (sec): 6 (Y+R=4.0 sec) Average Delay (sec/veh): xxxxxx

Optimal Cycle: 23 Level Of Service: A

Street Name: Beach Blvd 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 2 1 0 1 0 2 1 0 1 0 2 0 1 1 0 2 0 1

-----|-----|-----|-----|

Volume Module:

Base Vol: 10 320 60 170 610 110 50 140 30 60 250 170

Growth Adj: 1.13 1.13 1.13 1.13 1.13 1.13 1.13 1.13 1.13 1.13 1.13 1.13

Initial Bse: 11 361 68 192 687 124 56 158 34 68 282 192

Added Vol: 0 110 12 0 151 37 51 58 0 15 68 0

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

Initial Fut: 11 471 80 192 838 161 107 216 34 83 350 192

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: 11 471 80 192 838 161 107 216 34 83 350 192

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

Reduced Vol: 11 471 80 192 838 161 107 216 34 83 350 192

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: 11 471 80 192 838 161 107 216 34 83 350 192

-----|-----|-----|-----|

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: 0.08 3.35 0.57 1.00 2.52 0.48 1.00 2.00 1.00 1.00 2.00 1.00

Final Sat.: 136 5699 964 1700 4279 821 1700 3400 1700 1700 3400 1700

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Capacity Analysis Module:

Vol/Sat: 0.01 0.08 0.08 0.11 0.20 0.20 0.06 0.06 0.02 0.05 0.10 0.11

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

Huntington Beach Traffic Impact Analysis
 Cumulative Conditions (Year 2020) with Project AM

Level Of Service Computation Report

ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #24 Beach Blvd / Pacific View Ave

Cycle (sec): 120 Critical Vol./Cap.(X): 0.334
 Loss Time (sec): 6 (Y+R=4.0 sec) Average Delay (sec/veh): xxxxxx
 Optimal Cycle: 20 Level Of Service: A

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	1	0	2	1	0	1	0	0	0	1	0	0	0	0	0

Volume Module:

Base Vol:	30	350	0	0	680	60	50	0	30	0	0	0
Growth Adj:	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13
Initial Bse:	34	394	0	0	766	68	56	0	34	0	0	0
Added Vol:	0	63	0	0	79	86	59	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	34	457	0	0	845	154	115	0	34	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:	34	457	0	0	845	154	115	0	34	0	0	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	34	457	0	0	845	154	115	0	34	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:	34	457	0	0	845	154	115	0	34	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	2.54	0.46	1.00	0.00	1.00	0.00	0.00	0.00
Final Sat.:	1700	5100	0	1700	4316	784	1700	0	1700	0	0	0

Capacity Analysis Module:

Vol/Sat:	0.02	0.09	0.00	0.00	0.20	0.20	0.07	0.00	0.02	0.00	0.00	0.00
Crit Moves:	****			****			****					

Cumulative Conditions (2020 Mon Mar 30, 2009 18:52:43

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Huntington Beach Traffic Impact Analysis
Cumulative Conditions (Year 2020) with Project PM

Scenario Report

Scenario: Cumulative Conditions (2020) with Project PM
Command: Cumulative Conditions (2020) with Project PM
Volume: Existing PM
Geometry: Existing
Impact Fee: Default Impact Fee
Trip Generation: Approved with Project PM
Trip Distribution: Project
Paths: Default Path
Routes: Default Route
Configuration: Cumulative Conditions (2020) with Project

Huntington Beach Traffic Impact Analysis
 Cumulative Conditions (Year 2020) with Project PM

Impact Analysis Report
 Level Of Service

Intersection	Base		Future		Change in
	Del/ LOS	V/ Veh C	Del/ LOS	V/ Veh C	
# 1 Pacific Coast Hwy / Warner Ave	C	xxxxxx 0.753	C	xxxxxx 0.798	+ 0.046 V/C
# 2 Pacific Coast Hwy / Seapoint A	C	xxxxxx 0.772	D	xxxxxx 0.821	+ 0.049 V/C
# 3 Pacific Coast Hwy / Goldenwest	D	xxxxxx 0.829	D	xxxxxx 0.887	+ 0.058 V/C
# 4 Pacific Coast Hwy / 17th St	B	xxxxxx 0.676	C	xxxxxx 0.743	+ 0.067 V/C
# 5 Pacific Coast Hwy / 9th St	B	xxxxxx 0.607	B	xxxxxx 0.678	+ 0.071 V/C
# 6 Pacific Coast Hwy / 6th St	C	xxxxxx 0.777	E	xxxxxx 0.905	+ 0.128 V/C
# 7 Pacific Coast Hwy / Main St	C	xxxxxx 0.711	D	xxxxxx 0.823	+ 0.112 V/C
# 8 Pacific Coast Hwy / 1st St	C	xxxxxx 0.784	E	xxxxxx 0.927	+ 0.143 V/C
# 9 Pacific Coast Hwy / Huntington	B	xxxxxx 0.650	C	xxxxxx 0.769	+ 0.119 V/C
# 10 Pacific Coast Hwy / Beach Blvd	D	xxxxxx 0.802	E	xxxxxx 0.906	+ 0.104 V/C
# 11 Pacific Coast Hwy / Newland S	B	xxxxxx 0.698	C	xxxxxx 0.747	+ 0.049 V/C
# 12 Pacific Coast Hwy / Magnolia S	C	xxxxxx 0.730	C	xxxxxx 0.780	+ 0.049 V/C
# 13 Pacific Coast Hwy / Brookhurst	C	xxxxxx 0.756	D	xxxxxx 0.805	+ 0.049 V/C
# 14 Main St / Yorktown Ave	A	xxxxxx 0.540	B	xxxxxx 0.604	+ 0.063 V/C
# 15 Main St / 17 th St	A	xxxxxx 0.348	A	xxxxxx 0.398	+ 0.050 V/C
# 16 Main St / Adams Ave	B	xxxxxx 0.653	C	xxxxxx 0.767	+ 0.114 V/C
# 19 Main St / 6th St	A	xxxxxx 0.275	A	xxxxxx 0.478	+ 0.203 V/C
# 22 1st St / Orange Ave & Atlanta	A	xxxxxx 0.385	A	xxxxxx 0.473	+ 0.088 V/C
# 23 Beach Blvd / Atlanta Ave	A	xxxxxx 0.590	B	xxxxxx 0.661	+ 0.071 V/C
# 24 Beach Blvd / Pacific View Ave	A	xxxxxx 0.315	A	xxxxxx 0.397	+ 0.082 V/C

Huntington Beach Traffic Impact Analysis
 Cumulative Conditions (Year 2020) with Project PM

Level Of Service Computation Report

ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #1 Pacific Coast Hwy / Warner Ave

Cycle (sec): 120 Critical Vol./Cap.(X): 0.798
 Loss Time (sec): 6 (Y+R=4.0 sec) Average Delay (sec/veh): xxxxxx
 Optimal Cycle: 57 Level Of Service: C

Street Name:	Pacific Coast Hwy				Warner 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		Ovl													
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0								
Lanes:	1	0	2	0	1	2	0	1	1	0	1	0	0	1	0	2	0	1	0	2

Volume Module:

Base Vol:	20	1190	320	300	1150	30	30	110	40	330	70	550
Growth Adj:	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13
Initial Bse:	23	1341	361	338	1296	34	34	124	45	372	79	620
Added Vol:	0	129	27	0	128	0	0	0	0	26	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	23	1470	388	338	1424	34	34	124	45	398	79	620
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	1470	388	338	1424	34	34	124	45	398	79	620
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	23	1470	388	338	1424	34	34	124	45	398	79	620
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	1470	388	338	1424	34	34	124	45	398	79	620
OvlAdjVol:												282

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	2.00	1.95	0.05	1.00	0.73	0.27	2.00	1.00	2.00
Final Sat.:	1700	3400	1700	3400	3321	79	1700	1247	453	3400	1700	3400

Capacity Analysis Module:

Vol/Sat:	0.01	0.43	0.23	0.10	0.43	0.43	0.02	0.10	0.10	0.12	0.05	0.18
OvlAdjV/S:												0.08
Crit Moves:	****		****		****		****		****		****	

Huntington Beach Traffic Impact Analysis
 Cumulative Conditions (Year 2020) with Project PM

Level Of Service Computation Report

ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #2 Pacific Coast Hwy / Seapoint Ave

Cycle (sec): 120 Critical Vol./Cap. (X): 0.821
 Loss Time (sec): 6 (Y+R=4.0 sec) Average Delay (sec/veh): xxxxxx
 Optimal Cycle: 63 Level Of Service: D

Street Name:	Pacific Coast Hwy				Seapoint 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:	0	0	1	1	0	1	0	2	0	0	0	0	0	0	1

Volume Module:

Base Vol:	0	1350	70	210	1370	0	0	0	0	40	0	170
Growth Adj:	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13
Initial Bse:	0	1521	79	237	1544	0	0	0	0	45	0	192
Added Vol:	0	156	9	0	153	0	0	0	0	9	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	0	1677	88	237	1697	0	0	0	0	54	0	192
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	1677	88	237	1697	0	0	0	0	54	0	192
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	0	1677	88	237	1697	0	0	0	0	54	0	192
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	1677	88	237	1697	0	0	0	0	54	0	192

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	1.90	0.10	1.00	2.00	0.00	0.00	0.00	0.00	2.00	0.00	1.00
Final Sat.:	0	3231	169	1700	3400	0	0	0	0	3400	0	1700

Capacity Analysis Module:

Vol/Sat:	0.00	0.52	0.52	0.14	0.50	0.00	0.00	0.00	0.00	0.02	0.00	0.11
Crit Moves:	****		****		****		****		****		****	

Cumulative Conditions (2020 Mon Mar 30, 2009 18:52:43

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Huntington Beach Traffic Impact Analysis
 Cumulative Conditions (Year 2020) with Project PM

Level Of Service Computation Report

ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #3 Pacific Coast Hwy / Goldenwest St

Cycle (sec): 120 Critical Vol./Cap.(X): 0.887
 Loss Time (sec): 6 (Y+R=4.0 sec) Average Delay (sec/veh): xxxxxx
 Optimal Cycle: 89 Level Of Service: D

Street Name:	Pacific Coast Hwy				Goldenwest 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	2	0	1	1	0	2	0	0	0	0	0	0	1

Volume Module:

Base Vol:	10	1250	220	320	1060	0	0	0	0	190	0	230
Growth Adj:	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13
Initial Bse:	11	1409	248	361	1194	0	0	0	0	214	0	259
Added Vol:	0	165	63	0	162	0	0	0	0	62	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	11	1574	311	361	1356	0	0	0	0	276	0	259
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	1574	311	361	1356	0	0	0	0	276	0	259
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	11	1574	311	361	1356	0	0	0	0	276	0	259
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	1574	311	361	1356	0	0	0	0	276	0	259

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	0.00	0.00	0.00	0.00	1.00	0.00	1.00
Final Sat.:	1700	3400	1700	1700	3400	0	0	0	0	1700	0	1700

Capacity Analysis Module:

Vol/Sat:	0.01	0.46	0.18	0.21	0.40	0.00	0.00	0.00	0.00	0.16	0.00	0.15
Crit Moves:	****		****		****		****					

Huntington Beach Traffic Impact Analysis
 Cumulative Conditions (Year 2020) with Project PM

Level Of Service Computation Report

ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #4 Pacific Coast Hwy / 17th St

Cycle (sec): 120 Critical Vol./Cap.(X): 0.743
 Loss Time (sec): 6 (Y+R=4.0 sec) Average Delay (sec/veh): xxxxxx
 Optimal Cycle: 47 Level Of Service: C

Street Name:	Pacific Coast Hwy				17th 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	1390	70	160	1110	0	0	0	0	50	0	90
Growth Adj:	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13
Initial Bse:	0	1566	79	180	1251	0	0	0	0	56	0	101
Added Vol:	0	228	8	0	225	0	0	0	0	6	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	0	1794	87	180	1476	0	0	0	0	62	0	101
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	1794	87	180	1476	0	0	0	0	62	0	101
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	0	1794	87	180	1476	0	0	0	0	62	0	101
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	1794	87	180	1476	0	0	0	0	62	0	101

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	0.53	0.05	0.11	0.43	0.00	0.00	0.00	0.00	0.04	0.00	0.06
Crit Moves:	****		****		****		****		****		****	

Huntington Beach Traffic Impact Analysis
 Cumulative Conditions (Year 2020) with Project PM

Level Of Service Computation Report

ICU 1 (Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #5 Pacific Coast Hwy / 9th St

Cycle (sec): 120 Critical Vol./Cap.(X): 0.678
 Loss Time (sec): 6 (Y+R=4.0 sec) Average Delay (sec/veh): xxxxxx
 Optimal Cycle: 39 Level Of Service: B

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			
Control:	Protected		Protected		Protected		Protected					
Rights:	Include		Include		Include		Include					
Min. Green:	0	0	0	0	0	0	0	0	0			
Lanes:	0	0	2	0	1	1	0	2	0	0	0	1

Volume Module:

Base Vol:	0	1540	30	20	1150	0	0	0	0	50	0	20
Growth Adj:	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13
Initial Bse:	0	1735	34	23	1296	0	0	0	0	56	0	23
Added Vol:	0	237	4	0	231	0	0	0	0	3	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	0	1972	38	23	1527	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	1972	38	23	1527	0	0	0	0	59	0	23
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	0	1972	38	23	1527	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
Final Volume:	0	1972	38	23	1527	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	0.45	0.00	0.00	0.00	0.00	0.03	0.00	0.01
Crit Moves:	****			****						****		

Cumulative Conditions (2020 Mon Mar 30, 2009 18:52:43

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Huntington Beach Traffic Impact Analysis
 Cumulative Conditions (Year 2020) with Project PM

Level Of Service Computation Report

ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #6 Pacific Coast Hwy / 6th St

Cycle (sec): 120 Critical Vol./Cap.(X): 0.905
 Loss Time (sec): 36 (Y+R=4.0 sec) Average Delay (sec/veh): xxxxxx
 Optimal Cycle: 143 Level Of Service: E

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:	40	1360	50	80	1030	30	40	20	70	40	30	70
Growth Adj:	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13
Initial Bse:	45	1532	56	90	1161	34	45	23	79	45	34	79
Added Vol:	0	183	75	61	173	0	0	0	0	70	0	58
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	45	1715	131	151	1334	34	45	23	79	115	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	1715	131	151	1334	34	45	23	79	115	34	137
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	45	1715	131	151	1334	34	45	23	79	115	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
FinalVolume:	45	1715	131	151	1334	34	45	23	79	115	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	2.79	0.21	1.00	2.93	0.07	0.31	0.15	0.54	1.00	0.20	0.80
Final Sat.:	1700	4737	363	1700	4974	126	523	262	915	1700	337	1363

Capacity Analysis Module:

Vol/Sat:	0.03	0.36	0.36	0.09	0.27	0.27	0.03	0.09	0.09	0.07	0.10	0.10
Crit Moves:	****			****			****			****		

Huntington Beach Traffic Impact Analysis
 Cumulative Conditions (Year 2020) with Project PM

Level Of Service Computation Report

ICU 1 (Loss as Cycle Length %) Method (Future Volume Alternative)

 Intersection #7 Pacific Coast Hwy / Main St

Cycle (sec): 120 Critical Vol./Cap.(X): 0.823
 Loss Time (sec): 36 (Y+R=4.0 sec) Average Delay (sec/veh): xxxxxx
 Optimal Cycle: 118 Level Of Service: D

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	1	0	3	0	0	0	0	0	0	1

Volume Module:

Base Vol:	40	1320	130	90	1040	0	0	0	0	90	0	90
Growth Adj:	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13
Initial Bse:	45	1487	146	101	1172	0	0	0	0	101	0	101
Added Vol:	0	194	52	61	183	0	0	0	0	54	0	64
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	45	1681	198	162	1355	0	0	0	0	155	0	165
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	1681	198	162	1355	0	0	0	0	155	0	165
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	45	1681	198	162	1355	0	0	0	0	155	0	165
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	1681	198	162	1355	0	0	0	0	155	0	165

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	0.12	0.10	0.27	0.00	0.00	0.00	0.00	0.09	0.00	0.10
Crit Moves:	****		****		****		****		****		****	

Huntington Beach Traffic Impact Analysis
 Cumulative Conditions (Year 2020) with Project PM

Level Of Service Computation Report

ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #8 Pacific Coast Hwy / 1st St

Cycle (sec): 120 Critical Vol./Cap.(X): 0.927

Loss Time (sec): 36 (Y+R=4.0 sec) Average Delay (sec/veh): xxxxxx

Optimal Cycle: 151 Level Of Service: E

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: Protected Protected 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 1 0 2 1 0 1 1 0 0 1 1 1 0 0 2

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Volume Module:

Base Vol: 50 1430 70 100 1000 20 60 40 60 110 30 50

Growth Adj: 1.13 1.13 1.13 1.13 1.13 1.13 1.13 1.13 1.13 1.13 1.13 1.13

Initial Bse: 56 1611 79 113 1127 23 68 45 68 124 34 56

Added Vol: 0 126 110 112 124 0 0 0 0 106 0 119

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

Initial Fut: 56 1737 189 225 1251 23 68 45 68 230 34 175

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 1737 189 225 1251 23 68 45 68 230 34 175

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

Reduced Vol: 56 1737 189 225 1251 23 68 45 68 230 34 175

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: 56 1737 189 225 1251 23 68 45 68 230 34 175

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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 2.71 0.29 1.00 2.95 0.05 1.20 0.80 1.00 1.74 0.26 2.00

Final Sat.: 1700 4600 500 1700 5010 90 2040 1360 1700 2964 436 3400

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Capacity Analysis Module:

Vol/Sat: 0.03 0.38 0.38 0.13 0.25 0.25 0.03 0.03 0.04 0.08 0.08 0.05

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

Huntington Beach Traffic Impact Analysis
 Cumulative Conditions (Year 2020) with Project PM

Level Of Service Computation Report

ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #9 Pacific Coast Hwy / Huntington St

Cycle (sec): 120 Critical Vol./Cap.(X): 0.769
 Loss Time (sec): 6 (Y+R=4.0 sec) Average Delay (sec/veh): xxxxxx
 Optimal Cycle: 51 Level Of Service: C

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:	40	1520	70	50	1060	10	40	50	80	10	30	30
Growth Adj:	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13
Initial Bse:	45	1713	79	56	1194	11	45	56	90	11	34	34
Added Vol:	0	236	134	0	230	0	0	0	0	145	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	45	1949	213	56	1424	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	1949	213	56	1424	11	45	56	90	156	34	34
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	45	1949	213	56	1424	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	1949	213	56	1424	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	800	1000	1600	2795	605	1700

Capacity Analysis Module:

Vol/Sat:	0.03	0.57	0.13	0.03	0.42	0.01	0.03	0.06	0.06	0.06	0.06	0.02
Crit Moves:	****			****			****			****		

Huntington Beach Traffic Impact Analysis
 Cumulative Conditions (Year 2020) with Project PM

Level Of Service Computation Report

ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #10 Pacific Coast Hwy / Beach Blvd

Cycle (sec): 120 Critical Vol./Cap.(X): 0.906

Loss Time (sec): 6 (Y+R=4.0 sec) Average Delay (sec/veh): xxxxxx

Optimal Cycle: 100 Level Of Service: E

Street Name: Pacific Coast Hwy Beach Blvd

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 Ignore Ignore

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 2 0 1 0 1

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Volume Module:

Base Vol: 40 1380 750 190 1010 30 20 50 30 340 50 110

Growth Adj: 1.13 1.13 1.13 1.13 1.13 1.13 1.13 1.13 1.13 1.13 1.13 1.13

Initial Bse: 45 1555 845 214 1138 34 23 56 34 383 56 124

Added Vol: 0 250 0 119 255 0 0 0 0 0 0 0 120

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

Initial Fut: 45 1805 845 333 1393 34 23 56 34 383 56 244

User Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 0.00 1.00 1.00 0.00

PHF Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 0.00 1.00 1.00 0.00

PHF Volume: 45 1805 845 333 1393 34 23 56 0 383 56 0

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

Reduced Vol: 45 1805 845 333 1393 34 23 56 0 383 56 0

PCE Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 0.00 1.00 1.00 0.00

MLF Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 0.00 1.00 1.00 0.00

Final Volume: 45 1805 845 333 1393 34 23 56 0 383 56 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 2.00 1.00 1.00 2.00 1.00 1.00 2.00 1.00 2.00 1.00 1.00

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

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Capacity Analysis Module:

Vol/Sat: 0.03 0.53 0.50 0.20 0.41 0.02 0.01 0.02 0.00 0.11 0.03 0.00

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

Huntington Beach Traffic Impact Analysis
 Cumulative Conditions (Year 2020) with Project PM

Level Of Service Computation Report

ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #11 Pacific Coast Hwy / Newland St

Cycle (sec): 120 Critical Vol./Cap.(X): 0.747
 Loss Time (sec): 6 (Y+R=4.0 sec) Average Delay (sec/veh): xxxxxx
 Optimal Cycle: 48 Level Of Service: C

Street Name:	Pacific Coast Hwy						Newland 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			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	3	0	1	1	0	3	0	1	0	1	0	1	0	0	1	0	0	1

Volume Module:

Base Vol:	0	2080	270	150	1150	10	0	10	0	100	0	130
Growth Adj:	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13
Initial Bse:	0	2344	304	169	1296	11	0	11	0	113	0	146
Added Vol:	0	250	0	0	255	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	0	2594	304	169	1551	11	0	11	0	113	0	146
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	2594	304	169	1551	11	0	11	0	113	0	146
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	0	2594	304	169	1551	11	0	11	0	113	0	146
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	2594	304	169	1551	11	0	11	0	113	0	146

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	1.00	0.00	2.00	0.00	1.00	0.00	1.00
Final Sat.:	1700	5100	1700	1700	5100	1700	0	3400	0	1700	0	1700

Capacity Analysis Module:

Vol/Sat:	0.00	0.51	0.18	0.10	0.30	0.01	0.00	0.00	0.00	0.07	0.00	0.09
Crit Moves:	****			****			****			****		

Huntington Beach Traffic Impact Analysis
 Cumulative Conditions (Year 2020) with Project PM

Level Of Service Computation Report

ICU 1 (Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #12 Pacific Coast Hwy / Magnolia St

Cycle (sec): 120 Critical Vol./Cap.(X): 0.780

Loss Time (sec): 6 (Y+R=4.0 sec) Average Delay (sec/veh): xxxxxx

Optimal Cycle: 53 Level Of Service: C

Street Name: Pacific Coast Hwy Magnolia St

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 Split Phase Split Phase

Rights: Include Include Include Include

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

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

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Volume Module:

Base Vol: 30 2390 180 120 1070 30 20 30 10 70 30 70

Growth Adj: 1.13 1.13 1.13 1.13 1.13 1.13 1.13 1.13 1.13 1.13 1.13 1.13

Initial Bse: 34 2693 203 135 1206 34 23 34 11 79 34 79

Added Vol: 0 250 0 0 255 0 0 0 0 0 0 0 0

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

Initial Fut: 34 2943 203 135 1461 34 23 34 11 79 34 79

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: 34 2943 203 135 1461 34 23 34 11 79 34 79

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

Reduced Vol: 34 2943 203 135 1461 34 23 34 11 79 34 79

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: 34 2943 203 135 1461 34 23 34 11 79 34 79

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Saturation Flow Module:

Sat/Lane: 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

Lanes: 1.00 3.00 1.00 1.00 3.00 1.00 1.00 0.75 0.25 1.40 0.60 1.00

Final Sat.: 1700 5100 1700 1700 5100 1700 1700 1275 425 2380 1020 1700

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Capacity Analysis Module:

Vol/Sat: 0.02 0.58 0.12 0.08 0.29 0.02 0.01 0.03 0.03 0.03 0.03 0.05

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

Huntington Beach Traffic Impact Analysis
 Cumulative Conditions (Year 2020) with Project PM

Level Of Service Computation Report

ICU 1 (Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #13 Pacific Coast Hwy / Brookhurst St

Cycle (sec): 120 Critical Vol./Cap. (X): 0.805

Loss Time (sec): 6 (Y+R=4.0 sec) Average Delay (sec/veh): xxxxxx

Optimal Cycle: 59 Level Of Service: D

Street Name: Pacific Coast Hwy Brookhurst St

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 1 1 0 3 0 1 1 0 0 1 0 1

-----|-----|-----|-----|

Volume Module:

Base Vol: 20 2010 540 190 1240 10 20 40 30 270 30 140

Growth Adj: 1.13 1.13 1.13 1.13 1.13 1.13 1.13 1.13 1.13 1.13 1.13 1.13

Initial Bse: 23 2265 608 214 1397 11 23 45 34 304 34 158

Added Vol: 0 250 0 0 255 0 0 0 0 0 0 0

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

Initial Fut: 23 2515 608 214 1652 11 23 45 34 304 34 158

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 2515 608 214 1652 11 23 45 34 304 34 158

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

Reduced Vol: 23 2515 608 214 1652 11 23 45 34 304 34 158

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: 23 2515 608 214 1652 11 23 45 34 304 34 158

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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 1.00 1.00 3.00 1.00 1.00 0.57 0.43 2.00 1.00 1.00

Final Sat.: 1700 5100 1700 1700 5100 1700 1700 971 729 3400 1700 1700

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Capacity Analysis Module:

Vol/Sat: 0.01 0.49 0.36 0.13 0.32 0.01 0.01 0.05 0.05 0.09 0.02 0.09

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

Huntington Beach Traffic Impact Analysis
 Cumulative Conditions (Year 2020) with Project PM

Level Of Service Computation Report

ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #14 Main St / Yorktown Ave

Cycle (sec): 100 Critical Vol./Cap.(X): 0.604
 Loss Time (sec): 5 (Y+R=4.0 sec) Average Delay (sec/veh): xxxxxx
 Optimal Cycle: 29 Level Of Service: B

Street Name:	Main St						Yorktown 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	2	0	1	2	0	2	0	1	1	0	2	0	1

Volume Module:

Base Vol:	190	390	50	230	460	90	70	460	150	80	500	160
Growth Adj:	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13
Initial Bse:	214	439	56	259	518	101	79	518	169	90	563	180
Added Vol:	11	105	50	0	105	0	0	2	10	54	1	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	225	544	106	259	623	101	79	520	179	144	564	180
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:	225	544	106	259	623	101	79	520	179	144	564	180
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	225	544	106	259	623	101	79	520	179	144	564	180
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:	225	544	106	259	623	101	79	520	179	144	564	180

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	2.00	2.00	1.00	1.00	2.00	1.00	1.00	2.00	1.00
Final Sat.:	1700	3400	1700	3400	3400	1700	1700	3400	1700	1700	3400	1700

Capacity Analysis Module:

Vol/Sat:	0.13	0.16	0.06	0.08	0.18	0.06	0.05	0.15	0.11	0.08	0.17	0.11
Crit Moves:	****			****			****			****		

Huntington Beach Traffic Impact Analysis
 Cumulative Conditions (Year 2020) with Project PM

Level Of Service Computation Report

ICU 1 (Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #15 Main St / 17 th St

Cycle (sec): 100 Critical Vol./Cap.(X): 0.398

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

Optimal Cycle: 20 Level Of Service: A

Street Name: Main St 17th St

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: Permitted Permitted Permitted Permitted

Rights: Include Include Include Include

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

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

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Volume Module:

Base Vol: 10 430 10 0 520 180 180 10 0 0 0 0 0

Growth Adj: 1.13 1.13 1.13 1.13 1.13 1.13 1.13 1.13 1.13 1.13 1.13 1.13

Initial Bse: 11 485 11 0 586 203 203 11 0 0 0 0 0

Added Vol: 0 165 0 0 169 0 0 0 0 0 0 0 0

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

Initial Fut: 11 650 11 0 755 203 203 11 0 0 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: 11 650 11 0 755 203 203 11 0 0 0 0 0

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

Reduced Vol: 11 650 11 0 755 203 203 11 0 0 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: 11 650 11 0 755 203 203 11 0 0 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 2.00 1.00 0.00 2.00 1.00 1.00 1.00 0.00 1.00 0.00 0.00

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

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Capacity Analysis Module:

Vol/Sat: 0.01 0.19 0.01 0.00 0.22 0.12 0.12 0.01 0.00 0.00 0.00 0.00

Crit Moves: **** ****

Huntington Beach Traffic Impact Analysis
 Cumulative Conditions (Year 2020) with Project PM

Level Of Service Computation Report

ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #16 Main St / Adams Ave

Cycle (sec): 100 Critical Vol./Cap.(X): 0.767

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

Optimal Cycle: 46 Level Of Service: C

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

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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 1 0 1 0 0 1 0 1 0 0 1

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Volume Module:

Base Vol: 10 370 90 80 420 10 0 160 10 180 280 60

Growth Adj: 1.13 1.13 1.13 1.13 1.13 1.13 1.13 1.13 1.13 1.13 1.13 1.13

Initial Bse: 11 417 101 90 473 11 0 180 11 203 316 68

Added Vol: 0 165 28 0 169 0 0 0 0 29 0 0

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

Initial Fut: 11 582 129 90 642 11 0 180 11 232 316 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: 11 582 129 90 642 11 0 180 11 232 316 68

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

Reduced Vol: 11 582 129 90 642 11 0 180 11 232 316 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

FinalVolume: 11 582 129 90 642 11 0 180 11 232 316 68

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Saturation Flow Module:

Sat/Lane: 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

Lanes: 1.00 1.00 1.00 1.00 1.00 1.00 0.00 1.00 1.00 0.42 0.58 1.00

Final Sat.: 1700 1700 1700 1700 1700 1700 0 1700 1700 720 980 1700

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Capacity Analysis Module:

Vol/Sat: 0.01 0.34 0.08 0.05 0.38 0.01 0.00 0.11 0.01 0.14 0.32 0.04

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

Huntington Beach Traffic Impact Analysis
 Cumulative Conditions (Year 2020) with Project PM

Level Of Service Computation Report

ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #19 Main St / 6th St

Cycle (sec): 100 Critical Vol./Cap.(X): 0.478

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

Optimal Cycle: 23 Level Of Service: A

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

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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 1 0 0 1 0 1 1 0 1 0 1

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Volume Module:

Base Vol: 10 150 20 30 160 50 50 70 10 30 70 30

Growth Adj: 1.13 1.13 1.13 1.13 1.13 1.13 1.13 1.13 1.13 1.13 1.13 1.13

Initial Bse: 11 169 23 34 180 56 56 79 11 34 79 34

Added Vol: 19 100 5 0 97 112 104 14 20 5 13 0

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

Initial Fut: 30 269 28 34 277 168 160 93 31 39 92 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: 30 269 28 34 277 168 160 93 31 39 92 34

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

Reduced Vol: 30 269 28 34 277 168 160 93 31 39 92 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: 30 269 28 34 277 168 160 93 31 39 92 34

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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 0.91 0.09 1.00 0.62 0.38 1.00 1.00 1.00 1.00 1.00 1.00

Final Sat.: 1700 1542 158 1700 1058 642 1700 1700 1700 1700 1700 1700

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Capacity Analysis Module:

Vol/Sat: 0.02 0.17 0.17 0.02 0.26 0.26 0.09 0.05 0.02 0.02 0.05 0.02

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

Huntington Beach Traffic Impact Analysis
 Cumulative Conditions (Year 2020) with Project PM

Level Of Service Computation Report

ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

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

Cycle (sec): 100 Critical Vol./Cap.(X): 0.473
 Loss Time (sec): 5 (Y+R=4.0 sec) Average Delay (sec/veh): xxxxxx
 Optimal Cycle: 23 Level Of Service: A

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	1	0	1	1	0	1	0	0	1	0

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Volume Module:

Base Vol:	70	10	190	10	0	0	0	200	70	170	220	10
Growth Adj:	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13
Initial Bse:	79	11	214	11	0	0	0	225	79	192	248	11
Added Vol:	71	0	40	0	0	0	0	91	62	33	90	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	150	11	254	11	0	0	0	316	141	225	338	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:	150	11	254	11	0	0	0	316	141	225	338	11
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	150	11	254	11	0	0	0	316	141	225	338	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:	150	11	254	11	0	0	0	316	141	225	338	11

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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:	0.93	0.07	1.00	1.00	0.00	0.00	1.00	1.38	0.62	1.00	0.97	0.03
Final Sat.:	1581	119	1700	1700	0	0	1700	2352	1048	1700	1645	55

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Capacity Analysis Module:

Vol/Sat:	0.09	0.09	0.15	0.01	0.00	0.00	0.00	0.13	0.13	0.13	0.21	0.21
Crit Moves:			****	****				****		****		

Huntington Beach Traffic Impact Analysis
 Cumulative Conditions (Year 2020) with Project PM

Level Of Service Computation Report

ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #23 Beach Blvd / Atlanta Ave

Cycle (sec): 120 Critical Vol./Cap.(X): 0.661

Loss Time (sec): 6 (Y+R=4.0 sec) Average Delay (sec/veh): xxxxxxxx

Optimal Cycle: 37 Level Of Service: B

Street Name: Beach Blvd Atlanta 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: 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 2 1 0 1 0 2 1 0 1 0 2 0 1

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Volume Module:

Base Vol: 80 840 100 270 500 70 80 280 20 50 270 210

Growth Adj: 1.13 1.13 1.13 1.13 1.13 1.13 1.13 1.13 1.13 1.13 1.13 1.13

Initial Bse: 90 947 113 304 563 79 90 316 23 56 304 237

Added Vol: 0 199 21 0 191 71 65 115 0 22 109 0

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

Initial Fut: 90 1146 134 304 754 150 155 431 23 78 413 237

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: 90 1146 134 304 754 150 155 431 23 78 413 237

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

Reduced Vol: 90 1146 134 304 754 150 155 431 23 78 413 237

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: 90 1146 134 304 754 150 155 431 23 78 413 237

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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: 0.26 3.35 0.39 1.00 2.50 0.50 1.00 2.00 1.00 1.00 2.00 1.00

Final Sat.: 448 5689 664 1700 4255 845 1700 3400 1700 1700 3400 1700

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Capacity Analysis Module:

Vol/Sat: 0.05 0.20 0.20 0.18 0.18 0.18 0.09 0.13 0.01 0.05 0.12 0.14

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

Huntington Beach Traffic Impact Analysis
 Cumulative Conditions (Year 2020) with Project PM

Level Of Service Computation Report

ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #24 Beach Blvd / Pacific View Ave

Cycle (sec): 120 Critical Vol./Cap.(X): 0.397
 Loss Time (sec): 6 (Y+R=4.0 sec) Average Delay (sec/veh): xxxxxx
 Optimal Cycle: 22 Level Of Service: A

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	1	0	2	1	0	1	0	0	0	1	0	0	0	0	0

Volume Module:

Base Vol:	40	960	0	0	480	60	80	0	40	0	0	0
Growth Adj:	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13
Initial Bse:	45	1082	0	0	541	68	90	0	45	0	0	0
Added Vol:	0	119	0	0	120	93	100	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	45	1201	0	0	661	161	190	0	45	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:	45	1201	0	0	661	161	190	0	45	0	0	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	45	1201	0	0	661	161	190	0	45	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:	45	1201	0	0	661	161	190	0	45	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	2.41	0.59	1.00	0.00	1.00	0.00	0.00	0.00
Final Sat.:	1700	5100	0	1700	4103	997	1700	0	1700	0	0	0

Capacity Analysis Module:

Vol/Sat:	0.03	0.24	0.00	0.00	0.16	0.16	0.11	0.00	0.03	0.00	0.00	0.00
Crit Moves:	****			****			****					
