

7. 2015 Base Conditions – HCM Methodology



City of San Juan Capistrano 2010 Master Plan - HCM Method
2015 Base Conditions
AM Peak Weekday

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

Intersection #1 Rancho Viejo/Ortega Hwy

Cycle (sec): 110 Critical Vol./Cap.(X): 0.734
Loss Time (sec): 12 Average Delay (sec/veh): 30.5
Optimal Cycle: 66 Level Of Service: C

Table with columns for Street Name, Approach, Movement, Control, Rights, Min. Green, Y+R, and Lanes. Rows include Rancho Viejo Rd and Ortega Hwy with North, South, East, and West bounds.

Volume Module: AM 2015 weekday. Table with columns for Base Vol, Growth Adj, Initial Bse, Added Vol, PasserByVol, Initial Fut, User Adj, PHF Adj, PHF Volume, Reduct Vol, Reduced Vol, PCE Adj, MLF Adj, Final Volume.

Saturation Flow Module. Table with columns for Sat/Lane, Adjustment, Lanes, Final Sat.

Capacity Analysis Module. Table with columns for Vol/Sat, Crit Moves, Green/Cycle, Volume/Cap, Delay/Veh, User DelAdj, AdjDel/Veh, LOS by Move, DesignQueue.

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Intersection #2 I-5 NB Ramps/Ortega Hwy

Cycle (sec): 110 Critical Vol./Cap.(X): 1.399
Loss Time (sec): 8 Average Delay (sec/veh): 107.4
Optimal Cycle: 130 Level Of Service: F

Table with columns for Street Name (I-5 NB Ramps, Ortega Hwy), Approach (North Bound, South Bound, East Bound, West Bound), Movement (L, T, R), Control, Rights, Min. Green, Y+R, and Lanes.

Volume Module:AM 2015 Weekday

Table with columns for Base Vol, Growth Adj, Initial Bse, Added Vol, PasserByVol, Initial Fut, User Adj, PHF Adj, PHF Volume, Reduct Vol, Reduced Vol, PCE Adj, MLF Adj, and Final Volume.

Saturation Flow Module:

Table with columns for Sat/Lane, Adjustment, Lanes, and Final Sat.

Capacity Analysis Module:

Table with columns for Vol/Sat, Crit Moves, Green/Cycle, Volume/Cap, Delay/Veh, User DelAdj, AdjDel/Veh, LOS by Move, and DesignQueue.

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Intersection #3 I-5 SB Ramps/Ortega Hwy

Cycle (sec): 110 Critical Vol./Cap.(X): 1.312
Loss Time (sec): 8 Average Delay (sec/veh): 98.4
Optimal Cycle: 130 Level Of Service: F

Table with columns for Street Name (I-5 SB Ramps, Ortega Hwy), Approach (North Bound, South Bound, East Bound, West Bound), Movement (L, T, R), Control, Rights, Min. Green, Y+R, and Lanes.

Volume Module:AM 2015 Weekday

Table with columns for Base Vol, Growth Adj, Initial Bse, Added Vol, PasserByVol, Initial Fut, User Adj, PHF Adj, PHF Volume, Reduct Vol, Reduced Vol, PCE Adj, MLF Adj, and Final Volume.

Saturation Flow Module:

Table with columns for Sat/Lane, Adjustment, Lanes, and Final Sat.

Capacity Analysis Module:

Table with columns for Vol/Sat, Crit Moves, Green/Cycle, Volume/Cap, Delay/Veh, User DelAdj, AdjDel/Veh, LOS by Move, and DesignQueue.

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Intersection #9 Del Obispo/Ortega Hwy

Cycle (sec): 120 Critical Vol./Cap.(X): 0.886
Loss Time (sec): 8 Average Delay (sec/veh): 41.0
Optimal Cycle: 99 Level Of Service: D

Table with columns for Street Name (Del Obispo St, Ortega Hwy), Approach (North Bound, South Bound, East Bound, West Bound), Movement (L, T, R), Control (Split Phase, Permitted, Protected), Rights (Include), Min. Green, Y+R, and Lanes.

Volume Module: AM 2015 Weekday. Table with columns for Base Vol, Growth Adj, Initial Bse, Added Vol, PasserByVol, Initial Fut, User Adj, PHF Adj, PHF Volume, Reduct Vol, Reduced Vol, PCE Adj, MLF Adj, and Final Volume.

Saturation Flow Module. Table with columns for Sat/Lane, Adjustment, Lanes, and Final Sat.

Capacity Analysis Module. Table with columns for Vol/Sat, Crit Moves, Green/Cycle, Volume/Cap, Delay/Veh, User DelAdj, AdjDel/Veh, LOS by Move, and DesignQueue.

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Intersection #10 El Camino Real/Ortega Hwy

Cycle (sec): 100 Critical Vol./Cap.(X): 0.579
Loss Time (sec): 4 Average Delay (sec/veh): 18.4
Optimal Cycle: 26 Level Of Service: B

Table with columns for Street Name (El Camino Real, Ortega Hwy), Approach (North Bound, South Bound, East Bound, West Bound), Movement (L, T, R), Control, Rights, Min. Green, Y+R, and Lanes.

Volume Module: AM 2015 Weekday. Table with columns for Base Vol, Growth Adj, Initial Bse, Added Vol, PasserByVol, Initial Fut, User Adj, PHF Adj, PHF Volume, Reduct Vol, Reduced Vol, PCE Adj, MLF Adj, and Final Volume.

Saturation Flow Module. Table with columns for Sat/Lane, Adjustment, Lanes, and Final Sat.

Capacity Analysis Module. Table with columns for Vol/Sat, Crit Moves, Green/Cycle, Volume/Cap, Delay/Veh, User DelAdj, AdjDel/Veh, LOS by Move, and DesignQueue.

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Intersection #11 Camino Capistrano/Ortega Hwy

Cycle (sec): 100 Critical Vol./Cap.(X): 0.689
Loss Time (sec): 8 Average Delay (sec/veh): 24.6
Optimal Cycle: 48 Level Of Service: C

Table with columns for Street Name, Approach, Movement, Control, Rights, Min. Green, Y+R, and Lanes. Rows include Camino Capistrano and Ortega Hwy with North, South, East, and West bounds.

Volume Module:AM 2015 Weekday

Table with 12 columns for traffic volume metrics: Base Vol, Growth Adj, Initial Bse, Added Vol, PasserByVol, Initial Fut, User Adj, PHF Adj, PHF Volume, Reduct Vol, Reduced Vol, PCE Adj, MLF Adj, Final Volume.

Saturation Flow Module:

Table with 12 columns for saturation flow metrics: Sat/Lane, Adjustment, Lanes, Final Sat.

Capacity Analysis Module:

Table with 12 columns for capacity analysis metrics: Vol/Sat, Crit Moves, Green/Cycle, Volume/Cap, Delay/Veh, User DelAdj, AdjDel/Veh, LOS by Move, DesignQueue.

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Intersection #17 Camino Capistrano/Verdugo St

Cycle (sec): 100 Critical Vol./Cap.(X): 0.513
Loss Time (sec): 8 Average Delay (sec/veh): 10.6
Optimal Cycle: 48 Level Of Service: B

Table with columns for Street Name, Approach, Movement, Control, Rights, Min. Green, Y+R, Lanes. Rows include Camino Capistrano and Verdugo St with North, South, East, and West bounds.

Volume Module:2015 AM Peak

Table with columns for Base Vol, Growth Adj, Initial Bse, Added Vol, PasserByVol, Initial Fut, User Adj, PHF Adj, PHF Volume, Reduct Vol, Reduced Vol, PCE Adj, MLF Adj, FinalVolume.

Saturation Flow Module:

Table with columns for Sat/Lane, Adjustment, Lanes, Final Sat.

Capacity Analysis Module:

Table with columns for Vol/Sat, Crit Moves, Green/Cycle, Volume/Cap, Delay/Veh, User DelAdj, AdjDel/Veh, LOS by Move, DesignQueue.

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2000 HCM Unsignalized Method (Future Volume Alternative)

Intersection #48 Camino Capistrano/Forster Ln

Average Delay (sec/veh): 1.9 Worst Case Level Of Service: E[35.9]

Table with columns for Street Name, Approach, Movement, Control, Rights, and Lanes for Camino Capistrano and Forster Lane.

Volume Module: 2015 AM Peak

Table showing traffic volume data including Base Vol, Growth Adj, Initial Bse, Added Vol, PasserByVol, Initial Fut, User Adj, PHF Adj, PHF Volume, Reduct Vol, and Final Volume.

Critical Gap Module:

Table showing critical gap and follow-up time data for different approaches.

Capacity Module:

Table showing capacity data including Conflict Vol, Potent Cap., Move Cap., and Volume/Cap.

Level Of Service Module:

Table showing level of service data including 2Way95thQ, Control Del, LOS by Move, Movement, Shared Cap., Shared Queue, Shrd ConDel, Shared LOS, ApproachDel, and ApproachLOS.

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

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Intersection #56 Plaza Dr/Del Obispo St

Cycle (sec): 100 Critical Vol./Cap.(X): 0.388
Loss Time (sec): 10 Average Delay (sec/veh): 11.9
Optimal Cycle: 50 Level Of Service: B

Table with columns for Street Name, Approach, Movement, Control, Rights, Min. Green, Y+R, and Lanes for Plaza Dr and Del Obispo St.

Volume Module: AM 2015 Weekday. Table with columns for Base Vol, Growth Adj, Initial Bse, Added Vol, PasserByVol, Initial Fut, User Adj, PHF Adj, PHF Volume, Reduct Vol, Reduced Vol, PCE Adj, MLF Adj, Final Volume.

Saturation Flow Module. Table with columns for Sat/Lane, Adjustment, Lanes, Final Sat.

Capacity Analysis Module. Table with columns for Vol/Sat, Crit Moves, Green/Cycle, Volume/Cap, Delay/Veh, User DelAdj, AdjDel/Veh, LOS by Move, DesignQueue.

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Intersection #58 Camino Capistrano/Del Obispo

Cycle (sec): 120 Critical Vol./Cap.(X): 0.719
Loss Time (sec): 12 Average Delay (sec/veh): 37.0
Optimal Cycle: 65 Level Of Service: D

Table with columns for Street Name, Approach, Movement, Control, Rights, Min. Green, Y+R, and Lanes. Rows include Camino Capistrano and Del Obispo St with various movement and control details.

Volume Module:AM 2015 Weekday

Table showing traffic volume data including Base Vol, Growth Adj, Initial Bse, Added Vol, PasserByVol, Initial Fut, User Adj, PHF Adj, PHF Volume, Reduct Vol, Reduced Vol, PCE Adj, MLF Adj, and Final Volume.

Saturation Flow Module:

Table showing saturation flow data including Sat/Lane, Adjustment, Lanes, and Final Sat.

Capacity Analysis Module:

Table showing capacity analysis data including Vol/Sat, Crit Moves, Green/Cycle, Volume/Cap, Delay/Veh, User DelAdj, AdjDel/Veh, LOS by Move, and DesignQueue.

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Intersection #63 Paseo Adelanto/Del Obispo

Cycle (sec): 100 Critical Vol./Cap.(X): 0.676
Loss Time (sec): 8 Average Delay (sec/veh): 15.7
Optimal Cycle: 45 Level Of Service: B

Table with columns for Street Name (Paseo Adelanto, Del Obispo), Approach (North Bound, South Bound, East Bound, West Bound), Movement (L, T, R), Control, Rights, Min. Green, Y+R, and Lanes.

Volume Module:AM 2015 Weekday

Table with columns for Base Vol, Growth Adj, Initial Bse, Added Vol, PasserByVol, Initial Fut, User Adj, PHF Adj, PHF Volume, Reduct Vol, Reduced Vol, PCE Adj, MLF Adj, and FinalVolume.

Saturation Flow Module:

Table with columns for Sat/Lane, Adjustment, Lanes, and Final Sat.

Capacity Analysis Module:

Table with columns for Vol/Sat, Crit Moves, Green/Cycle, Volume/Cap, Delay/Veh, User DelAdj, AdjDel/Veh, LOS by Move, and DesignQueue.

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Intersection #66 Alipaz St/Del Obispo

Cycle (sec): 100 Critical Vol./Cap.(X): 0.694
Loss Time (sec): 10 Average Delay (sec/veh): 26.2
Optimal Cycle: 53 Level Of Service: C

Table with columns for Street Name (Alipaz St, Del Obispo St), Approach (North Bound, South Bound, East Bound, West Bound), Movement (L, T, R), Control (Split Phase, Protected), Rights (Ovl, Include), and various traffic metrics like Min. Green, Y+R, and Lanes.

Volume Module:AM 2015 Weekday

Table showing traffic volume data including Base Vol, Growth Adj, Initial Bse, Added Vol, PasserByVol, Initial Fut, User Adj, PHF Adj, PHF Volume, Reduct Vol, Reduced Vol, PCE Adj, MLF Adj, and Final Volume for various movements.

Saturation Flow Module:

Table showing saturation flow data including Sat/Lane, Adjustment, Lanes, and Final Sat. for various movements.

Capacity Analysis Module:

Table showing capacity analysis data including Vol/Sat, Crit Moves, Green/Cycle, Volume/Cap, Delay/Veh, User DelAdj, AdjDel/Veh, LOS by Move, and DesignQueue for various movements.

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Intersection #85 Camino Capistrano/Ave Golondrina

Cycle (sec): 110 Critical Vol./Cap.(X): 0.319
Loss Time (sec): 8 Average Delay (sec/veh): 20.6
Optimal Cycle: 38 Level Of Service: C

Table with columns for Street Name, Approach, Movement, Control, Rights, Min. Green, Y+R, and Lanes. Rows include Camino Capistrano and Avenida Golondrina with North, South, East, and West bounds.

Volume Module: 2015 AM Peak

Table showing traffic volume data including Base Vol, Growth Adj, Initial Bse, Added Vol, PasserByVol, Initial Fut, User Adj, PHF Adj, PHF Volume, Reduct Vol, Reduced Vol, PCE Adj, MLF Adj, and Final Volume.

Saturation Flow Module:

Table showing saturation flow data including Sat/Lane, Adjustment, Lanes, and Final Sat.

Capacity Analysis Module:

Table showing capacity analysis data including Vol/Sat, Crit Moves, Green/Cycle, Volume/Cap, Delay/Veh, User DelAdj, AdjDel/Veh, LOS by Move, and DesignQueue.

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

Intersection #90 El Camino Real/Spring St

Cycle (sec): 100 Critical Vol./Cap.(X): 0.540
Loss Time (sec): 0 Average Delay (sec/veh): 12.3
Optimal Cycle: 0 Level Of Service: B

Table with columns for Street Name (El Camino Real, Spring St), Approach (North Bound, South Bound, East Bound, West Bound), Movement (L, T, R), Control (Stop Sign), Rights (Include), Min. Green, and Lanes.

Table for Volume Module: AM 2015 Weekday, showing Base Vol, Growth Adj, Initial Bse, Added Vol, PasserByVol, Initial Fut, User Adj, PHF Adj, PHF Volume, Reduct Vol, Reduced Vol, PCE Adj, MLF Adj, and Final Volume.

Table for Saturation Flow Module, showing Adjustment, Lanes, and Final Sat.

Table for Capacity Analysis Module, showing Vol/Sat, Crit Moves, Delay/Veh, Delay Adj, AdjDel/Veh, LOS by Move, ApproachDel, Delay Adj, ApprAdjDel, LOS by Appr, and AllWayAvgQ.

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

Intersection #98 El Camino Real/Acjachema

Cycle (sec): 100 Critical Vol./Cap.(X): 0.507
Loss Time (sec): 0 Average Delay (sec/veh): 10.7
Optimal Cycle: 0 Level Of Service: B

Table with columns for Street Name (El Camino Real, Acjachema St), Approach (North Bound, South Bound, East Bound, West Bound), Movement (L, T, R), Control (Stop Sign), Rights (Include), Min. Green, and Lanes.

Volume Module: AM 2015 Weekday

Table with columns for Base Vol, Growth Adj, Initial Bse, Added Vol, PasserByVol, Initial Fut, User Adj, PHF Adj, PHF Volume, Reduct Vol, Reduced Vol, PCE Adj, MLF Adj, and Final Volume.

Saturation Flow Module:

Table with columns for Adjustment, Lanes, and Final Sat.

Capacity Analysis Module:

Table with columns for Vol/Sat, Crit Moves, Delay/Veh, Delay Adj, AdjDel/Veh, LOS by Move, ApproachDel, Delay Adj, ApprAdjDel, LOS by Appr, and AllWayAvgQ.

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Intersection #99 Camino Capistrano/Acjachema St

Cycle (sec): 100 Critical Vol./Cap.(X): 0.525
Loss Time (sec): 8 Average Delay (sec/veh): 10.9
Optimal Cycle: 48 Level Of Service: B

Table with columns for Street Name, Approach, Movement, Control, Rights, Min. Green, Y+R, and Lanes. Rows include Camino Capistrano and Acjachema St with various movement details.

Volume Module:AM 2015 Weekday

Table showing traffic volume data including Base Vol, Growth Adj, Initial Bse, Added Vol, PasserByVol, Initial Fut, User Adj, PHF Adj, PHF Volume, Reduct Vol, Reduced Vol, PCE Adj, MLF Adj, and Final Volume.

Saturation Flow Module:

Table showing saturation flow data including Sat/Lane, Adjustment, Lanes, and Final Sat.

Capacity Analysis Module:

Table showing capacity analysis data including Vol/Sat, Crit Moves, Green/Cycle, Volume/Cap, Delay/Veh, User DelAdj, AdjDel/Veh, LOS by Move, and DesignQueue.

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Intersection #1 Rancho Viejo/Ortega Hwy

Cycle (sec): 110 Critical Vol./Cap.(X): 0.907
Loss Time (sec): 12 Average Delay (sec/veh): 42.4
Optimal Cycle: 119 Level Of Service: D

Table with columns for Street Name, Approach, Movement, Control, Rights, Min. Green, Y+R, and Lanes. Rows include Rancho Viejo Rd and Ortega Hwy with North, South, East, and West bounds.

Volume Module: PM 2015 Weekday

Table with 13 columns for traffic volume metrics: Base Vol, Growth Adj, Initial Bse, Added Vol, PasserByVol, Initial Fut, User Adj, PHF Adj, PHF Volume, Reduct Vol, Reduced Vol, PCE Adj, MLF Adj, Final Volume.

Saturation Flow Module:

Table with 13 columns for saturation flow metrics: Sat/Lane, Adjustment, Lanes, Final Sat.

Capacity Analysis Module:

Table with 13 columns for capacity analysis metrics: Vol/Sat, Crit Moves, Green/Cycle, Volume/Cap, Delay/Veh, User DelAdj, AdjDel/Veh, LOS by Move, HCM2kAvgQ.

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Intersection #2 I-5 NB Ramps/Ortega Hwy

Cycle (sec): 110 Critical Vol./Cap.(X): 1.194
Loss Time (sec): 8 Average Delay (sec/veh): 67.9
Optimal Cycle: 130 Level Of Service: E

Table with columns for Street Name (I-5 NB Ramps, Ortega Hwy), Approach (North Bound, South Bound, East Bound, West Bound), Movement (L, T, R), Control, Rights, Min. Green, Y+R, and Lanes.

Volume Module: PM 2015 Weekday

Table with columns for Base Vol, Growth Adj, Initial Bse, Added Vol, PasserByVol, Initial Fut, User Adj, PHF Adj, PHF Volume, Reduct Vol, Reduced Vol, PCE Adj, MLF Adj, and Final Volume.

Saturation Flow Module:

Table with columns for Sat/Lane, Adjustment, Lanes, and Final Sat.

Capacity Analysis Module:

Table with columns for Vol/Sat, Crit Moves, Green/Cycle, Volume/Cap, Delay/Veh, User DelAdj, AdjDel/Veh, LOS by Move, and HCM2kAvgQ.

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Intersection #3 I-5 SB Ramps/Ortega Hwy

Cycle (sec): 110 Critical Vol./Cap.(X): 1.160
Loss Time (sec): 8 Average Delay (sec/veh): 91.2
Optimal Cycle: 130 Level Of Service: F

Table with columns for Street Name (I-5 SB Ramps, Ortega Hwy), Approach (North Bound, South Bound, East Bound, West Bound), Movement (L, T, R), Control, Rights, Min. Green, Y+R, and Lanes.

Volume Module: PM 2015 Weekday

Table with columns for Base Vol, Growth Adj, Initial Bse, Added Vol, PasserByVol, Initial Fut, User Adj, PHF Adj, PHF Volume, Reduct Vol, Reduced Vol, PCE Adj, MLF Adj, and Final Volume.

Saturation Flow Module:

Table with columns for Sat/Lane, Adjustment, Lanes, and Final Sat.

Capacity Analysis Module:

Table with columns for Vol/Sat, Crit Moves, Green/Cycle, Volume/Cap, Delay/Veh, User DelAdj, AdjDel/Veh, LOS by Move, and HCM2kAvgQ.

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Intersection #9 Del Obispo/Ortega Hwy

Cycle (sec): 120 Critical Vol./Cap.(X): 0.900
 Loss Time (sec): 8 Average Delay (sec/veh): 41.8
 Optimal Cycle: 107 Level Of Service: D

Street Name:	Del Obispo St						Ortega Hwy													
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			Permitted			Protected										
Rights:	Include			Include			Include			Include										
Min. Green:	10	10	10	10	10	10	10	10	10	10	10	10								
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0								
Lanes:	1	0	0	0	2	0	0	0	0	0	0	0	2	1	0	2	0	1	0	0

Volume Module: PM 2015 Weekday

Base Vol:	98	0	882	0	0	0	0	345	72	1079	435	0
Growth Adj:	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14
Initial Bse:	112	0	1005	0	0	0	0	393	82	1230	496	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:	112	0	1005	0	0	0	0	393	82	1230	496	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:	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
PHF Volume:	118	0	1058	0	0	0	0	414	86	1295	522	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	118	0	1058	0	0	0	0	414	86	1295	522	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
Final Volume:	118	0	1058	0	0	0	0	414	86	1295	522	0

Saturation Flow Module:

Sat/Lane:	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
Adjustment:	0.90	1.00	0.80	1.00	1.00	1.00	1.00	0.97	0.97	0.95	1.00	1.00
Lanes:	1.00	0.00	2.00	0.00	0.00	0.00	0.00	2.48	0.52	2.00	1.00	0.00
Final Sat.:	1615	0	2890	0	0	0	0	4351	908	3420	1800	0

Capacity Analysis Module:

Vol/Sat:	0.07	0.00	0.37	0.00	0.00	0.00	0.00	0.10	0.10	0.38	0.29	0.00
Crit Moves:	****						****			****		
Green/Cycle:	0.41	0.00	0.41	0.00	0.00	0.00	0.00	0.11	0.11	0.42	0.53	0.00
Volume/Cap:	0.18	0.00	0.90	0.00	0.00	0.00	0.00	0.90	0.90	0.90	0.55	0.00
Delay/Veh:	22.9	0.0	42.9	0.0	0.0	0.0	0.0	70.6	70.6	40.4	19.7	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:	22.9	0.0	42.9	0.0	0.0	0.0	0.0	70.6	70.6	40.4	19.7	0.0
LOS by Move:	C	A	D	A	A	A	A	E	E	D	B	A
HCM2kAvgQ:	3	0	22	0	0	0	0	9	9	26	13	0

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Intersection #10 El Camino Real/Ortega Hwy

Cycle (sec): 100 Critical Vol./Cap.(X): 0.400
Loss Time (sec): 4 Average Delay (sec/veh): 15.9
Optimal Cycle: 24 Level Of Service: B

Table with columns for Street Name (El Camino Real, Ortega Hwy), Approach (North Bound, South Bound, East Bound, West Bound), Movement (L, T, R), Control, Rights, Min. Green, Y+R, and Lanes.

Volume Module: PM 2015 Weekday. Table with columns for Base Vol, Growth Adj, Initial Bse, Added Vol, PasserByVol, Initial Fut, User Adj, PHF Adj, PHF Volume, Reduct Vol, Reduced Vol, PCE Adj, MLF Adj, and Final Volume.

Saturation Flow Module. Table with columns for Sat/Lane, Adjustment, Lanes, and Final Sat.

Capacity Analysis Module. Table with columns for Vol/Sat, Crit Moves, Green/Cycle, Volume/Cap, Delay/Veh, User DelAdj, AdjDel/Veh, LOS by Move, and HCM2kAvgQ.

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Intersection #11 Camino Capistrano/Ortega Hwy

Cycle (sec): 100 Critical Vol./Cap.(X): 0.556
Loss Time (sec): 8 Average Delay (sec/veh): 18.7
Optimal Cycle: 48 Level Of Service: B

Table with columns for Street Name, Approach, Movement, Control, Rights, Min. Green, Y+R, and Lanes. Rows include Camino Capistrano and Ortega Hwy with North, South, East, and West bounds.

Volume Module: PM 2015 Weekday

Table showing traffic volume metrics: Base Vol, Growth Adj, Initial Bse, Added Vol, PasserByVol, Initial Fut, User Adj, PHF Adj, PHF Volume, Reduct Vol, Reduced Vol, PCE Adj, MLF Adj, Final Volume.

Saturation Flow Module:

Table showing saturation flow metrics: Sat/Lane, Adjustment, Lanes, Final Sat.

Capacity Analysis Module:

Table showing capacity analysis metrics: Vol/Sat, Crit Moves, Green/Cycle, Volume/Cap, Delay/Veh, User DelAdj, AdjDel/Veh, LOS by Move, HCM2kAvgQ.

City of San Juan Capistrano 2010 Master Plan - HCM Method
2015 Base Conditions
PM Peak Weekdays

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

Intersection #17 Camino Capistrano/Verdugo St

Cycle (sec): 100 Critical Vol./Cap.(X): 0.534
Loss Time (sec): 8 Average Delay (sec/veh): 12.7
Optimal Cycle: 48 Level Of Service: B

Table with columns for Street Name, Approach, Movement, Control, Rights, Min. Green, Y+R, and Lanes. Rows include Camino Capistrano and Verdugo St with North, South, East, and West bounds.

Volume Module: 2015 PM Peak

Table with 13 columns for traffic volume metrics: Base Vol, Growth Adj, Initial Bse, Added Vol, PasserByVol, Initial Fut, User Adj, PHF Adj, PHF Volume, Reduct Vol, Reduced Vol, PCE Adj, MLF Adj, Final Volume.

Saturation Flow Module:

Table with 13 columns for saturation flow metrics: Sat/Lane, Adjustment, Lanes, Final Sat.

Capacity Analysis Module:

Table with 13 columns for capacity analysis metrics: Vol/Sat, Crit Moves, Green/Cycle, Volume/Cap, Delay/Veh, User DelAdj, AdjDel/Veh, LOS by Move, HCM2kAvgQ.

City of San Juan Capistrano 2010 Master Plan - HCM Method
2015 Base Conditions
PM Peak Weekdays

Level Of Service Computation Report

2000 HCM Unsignalized Method (Future Volume Alternative)

Intersection #48 Camino Capistrano/Forster Ln

Average Delay (sec/veh): 4.4 Worst Case Level Of Service: F[58.4]

Table with columns: Street Name, Approach, Movement, Control, Rights, Lanes. Rows include Camino Capistrano and Forster Lane with sub-rows for North, South, East, and West bounds.

Volume Module: 2015 PM Peak

Table with columns: Base Vol, Growth Adj, Initial Bse, Added Vol, PasserByVol, Initial Fut, User Adj, PHF Adj, PHF Volume, Reduct Vol, Final Volume. Rows include various traffic volume metrics.

Critical Gap Module:

Table with columns: Critical Gp, FollowUpTim. Rows include critical gap and follow-up time values.

Capacity Module:

Table with columns: Cnflct Vol, Potent Cap., Move Cap., Volume/Cap. Rows include conflict volume, potential capacity, move capacity, and volume per capacity.

Level Of Service Module:

Table with columns: 2Way95thQ, Control Del, LOS by Move, Movement, Shared Cap., SharedQueue, Shrd ConDel, Shared LOS, ApproachDel, ApproachLOS. Rows include level of service metrics.

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

City of San Juan Capistrano 2010 Master Plan - HCM Method
2015 Base Conditions
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Level Of Service Computation Report
2000 HCM Operations Method (Future Volume Alternative)

Intersection #56 Plaza Dr/Del Obispo St

Cycle (sec): 100 Critical Vol./Cap.(X): 0.500
Loss Time (sec): 10 Average Delay (sec/veh): 16.7
Optimal Cycle: 50 Level Of Service: B

Table with columns for Street Name (Plaza Dr, Del Obispo St), Approach (North Bound, South Bound, East Bound, West Bound), Movement (L, T, R), Control, Rights, Min. Green, Y+R, and Lanes.

Volume Module: PM 2015 Weekday

Table with columns for Base Vol, Growth Adj, Initial Bse, Added Vol, PasserByVol, Initial Fut, User Adj, PHF Adj, PHF Volume, Reduct Vol, Reduced Vol, PCE Adj, MLF Adj, and Final Volume.

Saturation Flow Module:

Table with columns for Sat/Lane, Adjustment, Lanes, and Final Sat.

Capacity Analysis Module:

Table with columns for Vol/Sat, Crit Moves, Green/Cycle, Volume/Cap, Delay/Veh, User DelAdj, AdjDel/Veh, LOS by Move, and HCM2kAvgQ.

City of San Juan Capistrano 2010 Master Plan - HCM Method
2015 Base Conditions
PM Peak Weekdays

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

Intersection #58 Camino Capistrano/Del Obispo

Cycle (sec): 120 Critical Vol./Cap.(X): 0.791
Loss Time (sec): 12 Average Delay (sec/veh): 42.5
Optimal Cycle: 79 Level Of Service: D

Table with columns for Street Name, Approach, Movement, Control, Rights, Min. Green, Y+R, and Lanes. Rows include Camino Capistrano and Del Obispo St with various movement and control details.

Volume Module: PM 2015 Weekday. Table showing traffic volume metrics such as Base Vol, Growth Adj, Initial Bse, Added Vol, PasserByVol, Initial Fut, User Adj, PHF Adj, PHF Volume, Reduct Vol, Reduced Vol, PCE Adj, MLF Adj, and Final Volume.

Saturation Flow Module. Table showing saturation flow metrics including Sat/Lane, Adjustment, Lanes, and Final Sat.

Capacity Analysis Module. Table showing capacity analysis metrics such as Vol/Sat, Crit Moves, Green/Cycle, Volume/Cap, Delay/Veh, User DelAdj, AdjDel/Veh, LOS by Move, and HCM2kAvgQ.

City of San Juan Capistrano 2010 Master Plan - HCM Method
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Level Of Service Computation Report
2000 HCM Operations Method (Future Volume Alternative)

Intersection #63 Paseo Adelanto/Del Obispo

Cycle (sec): 100 Critical Vol./Cap.(X): 0.550
Loss Time (sec): 8 Average Delay (sec/veh): 14.5
Optimal Cycle: 38 Level Of Service: B

Table with columns for Street Name (Paseo Adelanto, Del Obispo), Approach (North Bound, South Bound, East Bound, West Bound), Movement (L, T, R), Control, Rights, Min. Green, Y+R, and Lanes.

Volume Module: PM 2015 Weekday. Table with columns for Base Vol, Growth Adj, Initial Bse, Added Vol, PasserByVol, Initial Fut, User Adj, PHF Adj, PHF Volume, Reduct Vol, Reduced Vol, PCE Adj, MLF Adj, and Final Volume.

Saturation Flow Module. Table with columns for Sat/Lane, Adjustment, Lanes, and Final Sat.

Capacity Analysis Module. Table with columns for Vol/Sat, Crit Moves, Green/Cycle, Volume/Cap, Delay/Veh, User DelAdj, AdjDel/Veh, LOS by Move, and HCM2kAvgQ.

City of San Juan Capistrano 2010 Master Plan - HCM Method
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Level Of Service Computation Report
2000 HCM Operations Method (Future Volume Alternative)

Intersection #66 Alipaz St/Del Obispo

Cycle (sec): 100 Critical Vol./Cap.(X): 0.658
Loss Time (sec): 10 Average Delay (sec/veh): 25.3
Optimal Cycle: 50 Level Of Service: C

Table with columns for Street Name (Alipaz St, Del Obispo St), Approach (North Bound, South Bound, East Bound, West Bound), Movement (L, T, R), Control (Split Phase, Protected), Rights (Ovl, Include), and various traffic metrics like Min. Green, Y+R, and Lanes.

Volume Module: PM 2015 Weekday

Table showing traffic volume metrics including Base Vol, Growth Adj, Initial Bse, Added Vol, PasserByVol, Initial Fut, User Adj, PHF Adj, PHF Volume, Reduct Vol, Reduced Vol, PCE Adj, MLF Adj, and Final Volume across different movements.

Saturation Flow Module:

Table showing saturation flow metrics including Sat/Lane, Adjustment, Lanes, and Final Sat. for each movement.

Capacity Analysis Module:

Table showing capacity analysis metrics including Vol/Sat, Crit Moves, Green/Cycle, Volume/Cap, Delay/Veh, User DelAdj, AdjDel/Veh, LOS by Move, and HCM2kAvgQ.

City of San Juan Capistrano 2010 Master Plan - HCM Method
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Level Of Service Computation Report
2000 HCM Operations Method (Future Volume Alternative)

Intersection #85 Camino Capistrano/Ave Golondrina

Cycle (sec): 110 Critical Vol./Cap.(X): 0.455
Loss Time (sec): 8 Average Delay (sec/veh): 23.3
Optimal Cycle: 38 Level Of Service: C

Table with columns for Street Name, Approach, Movement, Control, Rights, Min. Green, Y+R, Lanes. Rows include Camino Capistrano and Avenida Golondrina with North, South, East, and West bounds.

Volume Module: 2015 PM Peak

Table with 13 columns for traffic volume metrics: Base Vol, Growth Adj, Initial Bse, Added Vol, PasserByVol, Initial Fut, User Adj, PHF Adj, PHF Volume, Reduct Vol, Reduced Vol, PCE Adj, MLF Adj, Final Volume.

Saturation Flow Module:

Table with 13 columns for saturation flow metrics: Sat/Lane, Adjustment, Lanes, Final Sat.

Capacity Analysis Module:

Table with 13 columns for capacity analysis metrics: Vol/Sat, Crit Moves, Green/Cycle, Volume/Cap, Delay/Veh, User DelAdj, AdjDel/Veh, LOS by Move, HCM2kAvgQ.

City of San Juan Capistrano 2010 Master Plan - HCM Method
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Level Of Service Computation Report
1994 HCM 4-Way Stop Method (Future Volume Alternative)

Intersection #90 El Camino Real/Spring St

Cycle (sec): 1 Critical Vol./Cap.(X): 0.342
Loss Time (sec): 0 Average Delay (sec/veh): 3.1
Optimal Cycle: 0 Level Of Service: A

Table with columns for Street Name (El Camino Real, Spring St), Approach (North Bound, South Bound, East Bound, West Bound), Movement (L, T, R), Control (Stop Sign), Rights (Include), and Lanes (0, 1, 0, 0).

Volume Module: PM Existing Weekday

Table with 13 columns for traffic volume metrics: Base Vol, Growth Adj, Initial Bse, Added Vol, PasserByVol, Initial Fut, User Adj, PHF Adj, PHF Volume, Reduct Vol, Reduced Vol, PCE Adj, MLF Adj, Final Volume.

Saturation Flow Module:

Table with 13 columns for saturation flow metrics: Sat/Lane, Adjustment, Lanes, Final Sat.

Capacity Analysis Module:

Table with 13 columns for capacity analysis metrics: Vol/Sat, Crit Moves, ApproachV/S, Delay/Veh, Delay Adj, AdjDel/Veh, LOS by Move, ApproachDel, Delay Adj, ApprAdjDel, LOS by Appr.

City of San Juan Capistrano 2010 Master Plan - HCM Method
2015 Base Conditions
PM Peak Weekdays

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

Intersection #98 El Camino Real/Acjachema

Cycle (sec): 100 Critical Vol./Cap.(X): 0.341
Loss Time (sec): 0 Average Delay (sec/veh): 8.8
Optimal Cycle: 0 Level Of Service: A

Table with columns for Street Name (El Camino Real, Acjachema St), Approach (North Bound, South Bound, East Bound, West Bound), Movement (L, T, R), Control (Stop Sign), Rights (Include), Min. Green, and Lanes.

Volume Module: PM 2015 Weekday

Table with columns for Base Vol, Growth Adj, Initial Bse, Added Vol, PasserByVol, Initial Fut, User Adj, PHF Adj, PHF Volume, Reduct Vol, Reduced Vol, PCE Adj, MLF Adj, and Final Volume.

Saturation Flow Module:

Table with columns for Adjustment, Lanes, and Final Sat.

Capacity Analysis Module:

Table with columns for Vol/Sat, Crit Moves, Delay/Veh, Delay Adj, AdjDel/Veh, LOS by Move, ApproachDel, Delay Adj, ApprAdjDel, LOS by Appr, and AllWayAvgQ.

City of San Juan Capistrano 2010 Master Plan - HCM Method
2015 Base Conditions
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Level Of Service Computation Report
2000 HCM Operations Method (Future Volume Alternative)

Intersection #99 Camino Capistrano/Acjachema St

Cycle (sec): 100 Critical Vol./Cap.(X): 0.458
Loss Time (sec): 8 Average Delay (sec/veh): 7.6
Optimal Cycle: 48 Level Of Service: A

Table with columns for Street Name, Approach, Movement, Control, Rights, Min. Green, Y+R, and Lanes. Rows include Camino Capistrano and Acjachema St with North, South, East, and West bounds.

Volume Module: PM 2015 Weekday

Table with 12 columns for traffic volume metrics: Base Vol, Growth Adj, Initial Bse, Added Vol, PasserByVol, Initial Fut, User Adj, PHF Adj, PHF Volume, Reduct Vol, Reduced Vol, PCE Adj, MLF Adj, Final Volume.

Saturation Flow Module:

Table with 12 columns for saturation flow metrics: Sat/Lane, Adjustment, Lanes, Final Sat.

Capacity Analysis Module:

Table with 12 columns for capacity analysis metrics: Vol/Sat, Crit Moves, Green/Cycle, Volume/Cap, Delay/Veh, User DelAdj, AdjDel/Veh, LOS by Move, HCM2kAvgQ.

City of San Juan Capistrano 2010 Master Plan - HCM Method
2015 Base Conditions - No Related Projects
Saturday Peak

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

Intersection #2 I-5 NB Ramps/Ortega Hwy

Cycle (sec): 110 Critical Vol./Cap.(X): 0.961
Loss Time (sec): 8 Average Delay (sec/veh): 40.1
Optimal Cycle: 130 Level Of Service: D

Table with columns for Street Name (I-5 NB Ramps, Ortega Hwy), Approach (North Bound, South Bound, East Bound, West Bound), Movement (L, T, R), Control, Rights, Min. Green, Y+R, and Lanes.

Table for Volume Module: >> Count Date: 15 May 2010 << Saturday Peak. Rows include Base Vol, Growth Adj, Initial Bse, Added Vol, PasserByVol, Initial Fut, User Adj, PHF Adj, PHF Volume, Reduct Vol, Reduced Vol, PCE Adj, MLF Adj, and Final Volume.

Table for Saturation Flow Module. Rows include Sat/Lane, Adjustment, Lanes, and Final Sat.

Table for Capacity Analysis Module. Rows include Vol/Sat, Crit Moves, Green/Cycle, Volume/Cap, Delay/Veh, User DelAdj, AdjDel/Veh, LOS by Move, and HCM2kAvgQ.

City of San Juan Capistrano 2010 Master Plan - HCM Method
2015 Base Conditions - No Related Projects
Saturday Peak

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

Intersection #3 I-5 SB Ramps/Ortega Hwy

Cycle (sec): 110 Critical Vol./Cap.(X): 1.085
Loss Time (sec): 8 Average Delay (sec/veh): 59.3
Optimal Cycle: 130 Level Of Service: E

Table with columns for Street Name (I-5 SB Ramps, Ortega Hwy), Approach (North Bound, South Bound, East Bound, West Bound), Movement (L, T, R), Control, Rights, Min. Green, Y+R, and Lanes.

Table for Volume Module: >> Count Date: 15 May 2010 << Saturday Peak. Rows include Base Vol, Growth Adj, Initial Bse, Added Vol, PasserByVol, Initial Fut, User Adj, PHF Adj, PHF Volume, Reduct Vol, Reduced Vol, PCE Adj, MLF Adj, and FinalVolume.

Table for Saturation Flow Module. Rows include Sat/Lane, Adjustment, Lanes, and Final Sat.

Table for Capacity Analysis Module. Rows include Vol/Sat, Crit Moves, Green/Cycle, Volume/Cap, Delay/Veh, User DelAdj, AdjDel/Veh, LOS by Move, and HCM2kAvgQ.

City of San Juan Capistrano 2010 Master Plan - HCM Method
2015 Base Conditions - No Related Projects
Saturday Peak

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

Intersection #9 Del Obispo/Ortega Hwy

Cycle (sec): 120 Critical Vol./Cap.(X): 0.792
Loss Time (sec): 8 Average Delay (sec/veh): 35.1
Optimal Cycle: 66 Level Of Service: D

Table with columns for Street Name (Del Obispo St, Ortega Hwy), Approach (North Bound, South Bound, East Bound, West Bound), Movement (L, T, R), Control (Split Phase, Permitted, Protected), Rights (Include), and various traffic metrics like Min. Green, Y+R, and Lanes.

Volume Module: >> Count Date: 15 May 2010 << Saturday Peak. Table with columns for Base Vol, Growth Adj, Initial Bse, Added Vol, PasserByVol, Initial Fut, User Adj, PHF Adj, PHF Volume, Reduct Vol, Reduced Vol, PCE Adj, MLF Adj, Final Volume.

Saturation Flow Module: Table with columns for Sat/Lane, Adjustment, Lanes, Final Sat.

Capacity Analysis Module: Table with columns for Vol/Sat, Crit Moves, Green/Cycle, Volume/Cap, Delay/Veh, User DelAdj, AdjDel/Veh, LOS by Move, HCM2kAvgQ.

City of San Juan Capistrano 2010 Master Plan - HCM Method
 2015 Base Conditions - No Related Projects
 Saturday Peak

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

Intersection #10 El Camino Real/Ortega Hwy

Cycle (sec): 100 Critical Vol./Cap.(X): 0.382
 Loss Time (sec): 4 Average Delay (sec/veh): 14.6
 Optimal Cycle: 24 Level Of Service: B

Street Name:	El Camino Real						Ortega Hwy								
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:	10	10	10	10	10	10	10	10	10	10	10	10			
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0			
Lanes:	0	0	1	0	0	0	1	0	0	1	0	1	0	1	0

Volume Module: >> Count Date: 15 May 2010 << Saturday Peak

Base Vol:	14	54	88	116	37	34	9	212	28	75	341	134
Growth Adj:	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10
Initial Bse:	15	59	97	128	41	37	10	233	31	83	375	147
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:	15	59	97	128	41	37	10	233	31	83	375	147
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:	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
PHF Volume:	16	63	102	134	43	39	10	245	32	87	395	155
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	16	63	102	134	43	39	10	245	32	87	395	155
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:	16	63	102	134	43	39	10	245	32	87	395	155

Saturation Flow Module:

Sat/Lane:	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
Adjustment:	0.90	0.90	0.90	0.65	0.65	0.85	0.92	0.92	0.92	0.83	0.83	0.83
Lanes:	0.09	0.35	0.56	0.76	0.24	1.00	0.07	1.71	0.22	0.27	1.24	0.49
Final Sat.:	145	560	913	880	281	1530	119	2814	372	405	1842	724

Capacity Analysis Module:

Vol/Sat:	0.11	0.11	0.11	0.15	0.15	0.03	0.09	0.09	0.09	0.21	0.21	0.21
Crit Moves:	****						****					
Green/Cycle:	0.40	0.40	0.40	0.40	0.40	0.40	0.56	0.56	0.56	0.56	0.56	0.56
Volume/Cap:	0.28	0.28	0.28	0.38	0.38	0.06	0.16	0.16	0.16	0.38	0.38	0.38
Delay/Veh:	20.6	20.6	20.6	21.8	21.8	18.6	10.6	10.6	10.6	12.4	12.4	12.4
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:	20.6	20.6	20.6	21.8	21.8	18.6	10.6	10.6	10.6	12.4	12.4	12.4
LOS by Move:	C	C	C	C	C	B	B	B	B	B	B	B
HCM2kAvgQ:	4	4	4	4	4	1	2	2	2	6	6	6

City of San Juan Capistrano 2010 Master Plan - HCM Method
2015 Base Conditions - No Related Projects
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Level Of Service Computation Report
2000 HCM Operations Method (Future Volume Alternative)

Intersection #11 Camino Capistrano/Ortega Hwy

Cycle (sec): 100 Critical Vol./Cap.(X): 0.486
Loss Time (sec): 8 Average Delay (sec/veh): 19.5
Optimal Cycle: 48 Level Of Service: B

Table with columns for Street Name, Approach, Movement, Control, Rights, Min. Green, Y+R, Lanes. Rows include Camino Capistrano and Ortega Hwy with North, South, East, and West bounds.

Volume Module: >> Count Date: 15 May 2010 << Saturday Peak. Table with columns for Base Vol, Growth Adj, Initial Bse, Added Vol, PasserByVol, Initial Fut, User Adj, PHF Adj, PHF Volume, Reduct Vol, Reduced Vol, PCE Adj, MLF Adj, Final Volume.

Saturation Flow Module: Table with columns for Sat/Lane, Adjustment, Lanes, Final Sat.

Capacity Analysis Module: Table with columns for Vol/Sat, Crit Moves, Green/Cycle, Volume/Cap, Delay/Veh, User DelAdj, AdjDel/Veh, LOS by Move, HCM2kAvgQ.

City of San Juan Capistrano 2010 Master Plan - HCM Method
2015 Base Conditions - No Related Projects
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Level Of Service Computation Report
2000 HCM Operations Method (Future Volume Alternative)

Intersection #17 Camino Capistrano/Verdugo St

Cycle (sec): 100 Critical Vol./Cap.(X): 0.604
Loss Time (sec): 8 Average Delay (sec/veh): 15.4
Optimal Cycle: 48 Level Of Service: B

Table with columns for Street Name, Approach, Movement, Control, Rights, Min. Green, Y+R, Lanes. Rows include Camino Capistrano and Verdugo St with various movement and control details.

Table for Volume Module: >> Count Date: 15 May 2010 << Saturday Peak. Includes rows for Base Vol, Growth Adj, Initial Bse, Added Vol, PasserByVol, Initial Fut, User Adj, PHF Adj, PHF Volume, Reduct Vol, Reduced Vol, PCE Adj, MLF Adj, FinalVolume.

Table for Saturation Flow Module: Includes rows for Sat/Lane, Adjustment, Lanes, Final Sat.

Table for Capacity Analysis Module: Includes rows for Vol/Sat, Crit Moves, Green/Cycle, Volume/Cap, Delay/Veh, User DelAdj, AdjDel/Veh, LOS by Move, HCM2kAvgQ.

City of San Juan Capistrano 2010 Master Plan - HCM Method
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Level Of Service Computation Report

2000 HCM Unsignalized Method (Future Volume Alternative)

Intersection #48 Camino Capistrano/Forster Ln

Average Delay (sec/veh): 2.1 Worst Case Level Of Service: E[36.8]

Table with columns for Street Name, Approach, Movement, Control, Rights, and Lanes for Camino Capistrano and Forster Lane.

Table with columns for Volume Module, Count, Date, and various volume metrics like Base Vol, Growth Adj, Initial Bse, etc.

Table for Critical Gap Module showing Critical Gp, FollowUpTim, and other timing metrics.

Table for Capacity Module showing Cnflct Vol, Potent Cap., Move Cap., and Volume/Cap.

Table for Level Of Service Module showing 2Way95thQ, Control Del, LOS by Move, Movement, Shared Cap., SharedQueue, Shrd ConDel, Shared LOS, ApproachDel, and ApproachLOS.

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

City of San Juan Capistrano 2010 Master Plan - HCM Method
2015 Base Conditions - No Related Projects
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Level Of Service Computation Report
2000 HCM Operations Method (Future Volume Alternative)

Intersection #58 Camino Capistrano/Del Obispo

Cycle (sec): 120 Critical Vol./Cap.(X): 0.713
Loss Time (sec): 12 Average Delay (sec/veh): 40.8
Optimal Cycle: 64 Level Of Service: D

Street Name: Camino Capistrano Del Obispo 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 Ovl Include Include
Min. Green: 10 10 10 10 10 10 10 10 10 10 10 10
Y+R: 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0
Lanes: 2 0 1 0 1 1 0 1 0 1 1 0 2 0 1 1 0 2 0 1

Volume Module: >> Count Date: 15 May 2010 << Saturday Peak

Base Vol: 369 248 167 78 264 342 245 626 288 159 563 47
Growth Adj: 1.10 1.10 1.10 1.10 1.10 1.10 1.10 1.10 1.10 1.10 1.10 1.10
Initial Bse: 406 273 184 86 290 376 270 689 317 175 619 52
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: 406 273 184 86 290 376 270 689 317 175 619 52
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: 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95
PHF Volume: 427 287 193 90 306 396 284 725 333 184 652 54
Reduct Vol: 0 0 0 0 0 0 0 0 0 0 0 0
Reduced Vol: 427 287 193 90 306 396 284 725 333 184 652 54
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: 427 287 193 90 306 396 284 725 333 184 652 54

Saturation Flow Module:

Sat/Lane: 1800 1800 1800 1800 1800 1800 1800 1800 1800 1800 1800 1800
Adjustment: 0.95 1.00 0.85 0.95 1.00 0.85 0.95 1.00 0.85 0.95 1.00 0.85
Lanes: 2.00 1.00 1.00 1.00 1.00 1.00 1.00 2.00 1.00 1.00 2.00 1.00
Final Sat.: 3420 1800 1530 1710 1800 1530 1710 3600 1530 1710 3600 1530

Capacity Analysis Module:

Vol/Sat: 0.12 0.16 0.13 0.05 0.17 0.26 0.17 0.20 0.22 0.11 0.18 0.04
Crit Moves: **** **** **** ****
Green/Cycle: 0.18 0.27 0.27 0.14 0.24 0.47 0.23 0.33 0.33 0.16 0.25 0.25
Volume/Cap: 0.71 0.59 0.47 0.37 0.71 0.55 0.71 0.62 0.67 0.67 0.71 0.14
Delay/Veh: 50.7 39.8 37.3 47.6 47.5 23.6 48.4 35.2 38.4 53.6 43.5 34.8
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: 50.7 39.8 37.3 47.6 47.5 23.6 48.4 35.2 38.4 53.6 43.5 34.8
LOS by Move: D D D D D C D D D D D C
HCM2kAvgQ: 9 10 6 3 12 11 11 12 11 8 12 2