

## 12. 2035 No Build LOS Analysis— HCM Methodology



2010 San Juan Capistrano Master Plan - HCM
2035 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): 100 Critical Vol./Cap.(X): 0.898
Loss Time (sec): 10 Average Delay (sec/veh): 34.6
Optimal Cycle: 104 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: 2035 Base AM. Table 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 across various lanes.

Saturation Flow Module. Table showing Sat/Lane, Adjustment, Lanes, and Final Sat. values for different lane configurations.

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

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Intersection #3 I-5 SB Ramps/Ortega Hwy

Cycle (sec): 100 Critical Vol./Cap.(X): 0.896
Loss Time (sec): 10 Average Delay (sec/veh): 32.7
Optimal Cycle: 103 Level Of Service: C

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: 2035 am base. 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 #6 El Cerritos-NB Ramp/Ortega Hwy

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Cycle (sec): 120 Critical Vol./Cap.(X): 0.856
Loss Time (sec): 10 Average Delay (sec/veh): 47.9
Optimal Cycle: 93 Level Of Service: D

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Table with columns for Street Name, Approach, Movement, Control, Rights, Min. Green, Y+R, Lanes. Rows include El Cerritos-I-5 NB Ramps and Ortega Highway with various movement details.

Volume Module: 2035 base am. Table 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, Final Volume.

Saturation Flow Module. Table showing Sat/Lane, Adjustment, Lanes, Final Sat.

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

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Intersection #9 Del Obispo/Ortega Hwy

Cycle (sec): 120 Critical Vol./Cap.(X): 0.592
Loss Time (sec): 10 Average Delay (sec/veh): 23.3
Optimal Cycle: 50 Level Of Service: C

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

Volume Module: 2035 am base

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 HCM2kAvgQ.

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Intersection #10 El Camino Real/Ortega Hwy

Cycle (sec): 100 Critical Vol./Cap.(X): 0.723
Loss Time (sec): 8 Average Delay (sec/veh): 21.1
Optimal Cycle: 51 Level Of Service: C

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: 2035 am base

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 HCM2kAvgQ.

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Intersection #11 Camino Capistrano/Ortega Hwy

Cycle (sec): 100 Critical Vol./Cap.(X): 0.700
Loss Time (sec): 10 Average Delay (sec/veh): 26.4
Optimal Cycle: 54 Level Of Service: C

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

Volume Module: 2035 am base. 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 across different movements.

Saturation Flow Module. Table showing saturation flow data including Sat/Lane, Adjustment, Lanes, and Final Sat. for each movement.

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 HCM2kAvgQ for each movement.

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Intersection #17 Camino Capistrano/Verdugo St

Cycle (sec): 100 Critical Vol./Cap.(X): 0.510
Loss Time (sec): 10 Average Delay (sec/veh): 11.5
Optimal Cycle: 50 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: 2035 am base. Table 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, Final Volume.

Saturation Flow Module. Table showing Sat/Lane, Adjustment, Lanes, Final Sat.

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



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2000 HCM Unsignalized Method (Future Volume Alternative)

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Intersection #48 Camino Capistrano/Forster Ln

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Average Delay (sec/veh): 1.9 Worst Case Level Of Service: D[ 34.2]

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Table with columns: Street Name, Approach, Movement, Control, Rights, Lanes. Rows include Camino Capistrano and Forster Lane with various traffic control details.

Table with columns: Volume Module, Base Vol, Growth Adj, Initial Bse, Added Vol, PasserByVol, Initial Fut, User Adj, PHF Adj, PHF Volume, Reduct Vol, FinalVolume. Rows show traffic volume and adjustment factors.

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

Table with columns: Capacity Module, Cnflct Vol, Potent Cap., Move Cap., Volume/Cap. Rows show capacity and conflict volume data.

Table with columns: Level Of Service Module, 2Way95thQ, Control Del, LOS by Move, Movement, Shared Cap., SharedQueue, Shrd ConDel, Shared LOS, ApproachDel, ApproachLOS. Rows show level of service and delay metrics.

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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): 0.392
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, Lanes. Rows for Plaza Dr and Del Obispo St.

Volume Module:2035 am base

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, HCM2kAvgQ.

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Intersection #58 Camino Capistrano/Del Obispo

Cycle (sec): 120 Critical Vol./Cap.(X): 0.727
Loss Time (sec): 12 Average Delay (sec/veh): 40.3
Optimal Cycle: 66 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 North, South, East, and West bounds.

Volume Module: 2035 am base

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 HCM2kAvgQ.

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Intersection #63 Paseo Adelanto/Del Obispo

Cycle (sec): 100 Critical Vol./Cap.(X): 0.486
Loss Time (sec): 8 Average Delay (sec/veh): 16.2
Optimal Cycle: 38 Level Of Service: B

Table with columns for Street Name, Approach, Movement, Control, Rights, Min. Green, Y+R, and Lanes. Rows include Paseo Adelanto and Del Obispo with North, South, East, and West bounds.

Volume Module: 2035 am base. Table 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.

Saturation Flow Module. Table showing Sat/Lane, Adjustment, Lanes, and Final Sat. values.

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

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Intersection #66 Alipaz St/Del Obispo

Cycle (sec): 120 Critical Vol./Cap.(X): 0.599
Loss Time (sec): 10 Average Delay (sec/veh): 32.7
Optimal Cycle: 50 Level Of Service: C

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

Volume Module: 2035 am base. 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 Sat/Lane, Adjustment, Lanes, and Final Sat values.

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

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Intersection #85 Camino Capistrano/Ave Golondrina

Cycle (sec): 100 Critical Vol./Cap.(X): 0.414
Loss Time (sec): 8 Average Delay (sec/veh): 17.9
Optimal Cycle: 38 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 Avenida Golondrina with North, South, East, and West bounds.

Volume Module: 2035 am base. Table 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 across various approaches.

Saturation Flow Module. Table showing Sat/Lane, Adjustment, Lanes, and Final Sat. for different approaches.

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

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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): 0.631
Loss Time (sec): 0 Average Delay (sec/veh): 14.2
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: 2035 am base, 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): 0.502
Loss Time (sec): 0 Average Delay (sec/veh): 10.6
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.

Table for Volume Module: 2035 am base, 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 across various movements.

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

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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Intersection #99 Camino Capistrano/Acjachema St

Cycle (sec): 100 Critical Vol./Cap.(X): 0.508
Loss Time (sec): 8 Average Delay (sec/veh): 10.5
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 North, South, East, and West bounds.

Volume Module: 2035 am base. Table 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 across various movements.

Saturation Flow Module. Table showing Sat/Lane, Adjustment, Lanes, and Final Sat. for different movements.

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

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Intersection #1 Rancho Viejo/Ortega Hwy

Cycle (sec): 100 Critical Vol./Cap.(X): 1.022
Loss Time (sec): 10 Average Delay (sec/veh): 60.4
Optimal Cycle: 130 Level Of Service: E

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: 2035 pm base. Table 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 across various lanes.

Saturation Flow Module. Table showing Sat/Lane, Adjustment, Lanes, and Final Sat. values for different lane configurations.

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

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Intersection #3 I-5 SB Ramps/Ortega Hwy

Cycle (sec): 100 Critical Vol./Cap.(X): 1.017
Loss Time (sec): 10 Average Delay (sec/veh): 49.5
Optimal Cycle: 130 Level Of Service: D

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: 2035 pm base. 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 #6 El Cerritos-NB Ramp/Ortega Hwy

Cycle (sec): 120 Critical Vol./Cap.(X): 0.781
Loss Time (sec): 10 Average Delay (sec/veh): 39.7
Optimal Cycle: 70 Level Of Service: D

Table with columns for Street Name, Approach, Movement, Control, Rights, Min. Green, Y+R, and Lanes. Rows include El Cerritos-I-5 NB Ramps and Ortega Highway with various movement details.

Volume Module: 2035 pm base. 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 Sat/Lane, Adjustment, Lanes, and Final Sat. values for different movements.

Capacity Analysis Module. Table showing 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

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Cycle (sec): 120 Critical Vol./Cap.(X): 0.649
Loss Time (sec): 10 Average Delay (sec/veh): 26.3
Optimal Cycle: 50 Level Of Service: C

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Table with columns for Street Name, Approach, Movement, Control, Rights, Min. Green, Y+R, Lanes. Rows include Del Obispo St/Ortega Hwy East and Ortega Hwy West with various traffic parameters.

Volume Module: 2035 pm base

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. Rows show traffic volume and adjustment factors.

Saturation Flow Module:

Table with columns for Sat/Lane, Adjustment, Lanes, Final Sat. Rows show saturation flow and lane-related metrics.

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. Rows show capacity analysis and level of service metrics.

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Intersection #10 El Camino Real/Ortega Hwy

Cycle (sec): 100 Critical Vol./Cap.(X): 0.581
Loss Time (sec): 8 Average Delay (sec/veh): 18.0
Optimal Cycle: 37 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: 2035 pm base

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): 0.622
Loss Time (sec): 10 Average Delay (sec/veh): 20.5
Optimal Cycle: 50 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: 2035 pm base. 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 Sat/Lane, Adjustment, Lanes, and Final Sat. values for each approach.

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

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Intersection #17 Camino Capistrano/Verdugo St

Cycle (sec): 100 Critical Vol./Cap.(X): 0.418
Loss Time (sec): 10 Average Delay (sec/veh): 13.0
Optimal Cycle: 50 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: 2035 pm base

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 HCM2kAvgQ.



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Intersection #48 Camino Capistrano/Forster Ln

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Average Delay (sec/veh): 4.4 Worst Case Level Of Service: F[ 60.6]

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Table with columns: Street Name, Approach, Movement, Control, Rights, Lanes. Rows include Camino Capistrano and Forster Lane with various traffic control details.

Table with columns: Volume Module, Base Vol, Growth Adj, Initial Bse, Added Vol, PasserByVol, Initial Fut, User Adj, PHF Adj, PHF Volume, Reduct Vol, FinalVolume. Rows show traffic volume and adjustment factors.

Table with columns: Critical Gap Module, Critical Gp, FollowUpTim. Rows show critical gap and follow-up time data.

Table with columns: Capacity Module, Cnflct Vol, Potent Cap., Move Cap., Volume/Cap. Rows show capacity and conflict volume data.

Table with columns: Level Of Service Module, 2Way95thQ, Control Del, LOS by Move, Movement, Shared Cap., SharedQueue, Shrd ConDel, Shared LOS, ApproachDel, ApproachLOS. Rows show level of service and delay data.

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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): 0.511
Loss Time (sec): 10 Average Delay (sec/veh): 16.6
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: 2035 pm base

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 HCM2kAvgQ.

2010 San Juan Capistrano Master Plan - HCM
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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): 1.058
Loss Time (sec): 12 Average Delay (sec/veh): 69.1
Optimal Cycle: 130 Level Of Service: E

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 North, South, East, and West bound movements.

Table for Volume Module: 2035 pm base. Columns represent different approaches and movements. 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. Columns represent different approaches and movements. Rows include Sat/Lane, Adjustment, Lanes, and Final Sat.

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

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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): 0.493
Loss Time (sec): 8 Average Delay (sec/veh): 18.7
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 (Permitted, Protected), Rights (Ovl, Include), and various traffic volume metrics (Min. Green, Y+R, Lanes).

Volume Module: 2035 pm base

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 each approach.

Saturation Flow Module:

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

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 HCM2kAvgQ for each approach.

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

Intersection #66 Alipaz St/Del Obispo

Cycle (sec): 120 Critical Vol./Cap.(X): 0.577
Loss Time (sec): 10 Average Delay (sec/veh): 37.5
Optimal Cycle: 50 Level Of Service: D

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 volume and timing metrics.

Volume Module: 2035 pm base

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 each approach.

Saturation Flow Module:

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

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 HCM2kAvgQ for each approach.

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

Intersection #85 Camino Capistrano/Ave Golondrina

Cycle (sec): 100 Critical Vol./Cap.(X): 0.547
Loss Time (sec): 8 Average Delay (sec/veh): 19.4
Optimal Cycle: 38 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 Avenida Golondrina with North, South, East, and West bounds.

Volume Module: 2035 pm base

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 HCM2kAvgQ.

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Level Of Service Computation Report
1994 HCM 4-Way Stop Method (Future Volume Alternative)

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Intersection #90 El Camino Real/Spring St

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Cycle (sec): 1 Critical Vol./Cap.(X): 0.609
Loss Time (sec): 0 Average Delay (sec/veh): 7.1
Optimal Cycle: 0 Level Of Service: B

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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: 2035 pm base

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 each approach.

Saturation Flow Module:

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

Capacity Analysis Module:

Table showing capacity analysis data including Vol/Sat, Crit Moves, ApproachV/S, Delay/Veh, Delay Adj, AdjDel/Veh, LOS by Move, ApproachDel, Delay Adj, ApprAdjDel, and LOS by Appr for each approach.

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2010 San Juan Capistrano Master Plan - HCM
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PM Peak Weekday

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

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Intersection #98 El Camino Real/Acjachema

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Cycle (sec): 100 Critical Vol./Cap.(X): 0.315
Loss Time (sec): 0 Average Delay (sec/veh): 8.6
Optimal Cycle: 0 Level Of Service: A

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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: 2035 base pm. 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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2010 San Juan Capistrano Master Plan - HCM
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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): 0.444
Loss Time (sec): 8 Average Delay (sec/veh): 7.5
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 various movement and control details.

Volume Module: 2035 pm base. 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.

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

Intersection #3 I-5 SB Ramps/Ortega Hwy

Cycle (sec): 100 Critical Vol./Cap.(X): 1.030
Loss Time (sec): 10 Average Delay (sec/veh): 44.6
Optimal Cycle: 130 Level Of Service: D

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 (Split Phase, Permitted, Protected), Rights (Include, Ovl, Include), and various traffic metrics like Min. Green, Y+R, and Lanes.

Volume Module: 2035 sat base. 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 across different approaches.

Saturation Flow Module. Table showing saturation flow metrics like Sat/Lane, Adjustment, Lanes, and Final Sat. for each approach.

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 DesignQueue.

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

Intersection #6 El Cerritos-NB Ramp/Ortega Hwy

Cycle (sec): 120 Critical Vol./Cap.(X): 0.805
Loss Time (sec): 10 Average Delay (sec/veh): 40.5
Optimal Cycle: 76 Level Of Service: D

Table with columns for Street Name, Approach, Movement, Control, Rights, Min. Green, Y+R, and Lanes. Rows include El Cerritos-I-5 NB Ramps and Ortega Highway with various movement details.

Volume Module: 2035 Saturday Base

Table showing volume calculations 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 with columns for Sat/Lane, Adjustment, Lanes, and Final Sat. showing saturation flow values for different movements.

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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2035 Base Conditions
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): 0.623
Loss Time (sec): 10 Average Delay (sec/veh): 20.1
Optimal Cycle: 50 Level Of Service: C

Table with columns for Street Name, Approach, Movement, Control, Rights, Min. Green, Y+R, Lanes. Rows include Del Obispo St/Ortega Hwy East and Ortega Hwy West with various traffic movements and signal settings.

Volume Module:2035 sat base

Table showing traffic volume calculations 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 calculations including Sat/Lane, Adjustment, Lanes, and Final Sat.

Capacity Analysis Module:

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

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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): 0.524
Loss Time (sec): 8 Average Delay (sec/veh): 17.2
Optimal Cycle: 33 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.

Table for Volume Module: 2035 sat base, 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 Sat/Lane, Adjustment, Lanes, and Final Sat.

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

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

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Intersection #11 Camino Capistrano/Ortega Hwy

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Cycle (sec): 100 Critical Vol./Cap.(X): 0.515
Loss Time (sec): 10 Average Delay (sec/veh): 21.2
Optimal Cycle: 50 Level Of Service: C

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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: 2035 sat base. Table showing traffic volume metrics like 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 Sat/Lane, Adjustment, Lanes, and Final Sat. values for each approach.

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

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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): 0.594
Loss Time (sec): 10 Average Delay (sec/veh): 15.9
Optimal Cycle: 50 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 Bound movements.

Volume Module: 2035 sat base. 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 Sat/Lane, Adjustment, Lanes, and Final Sat. values for each approach.

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

2010 San Juan Capistrano Master Plan HCM
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Saturday Peak

Level Of Service Computation Report

2000 HCM Unsignalized Method (Future Volume Alternative)

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Intersection #48 Camino Capistrano/Forster Ln

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Average Delay (sec/veh): 2.4 Worst Case Level Of Service: E[ 41.9]

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Table with columns for Street Name, Approach, Movement, Control, Rights, Lanes, and Volume Module. Rows include Camino Capistrano and Forster Lane with various traffic parameters.

Table with columns for Base Vol, Growth Adj, Initial Bse, Added Vol, PasserByVol, Initial Fut, User Adj, PHF Adj, PHF Volume, Reduct Vol, and Final Volume. Rows include Camino Capistrano and Forster Lane.

Table with columns for Critical Gap Module and FollowUpTim. Rows include Camino Capistrano and Forster Lane.

Table with columns for Capacity Module and Volume/Cap. Rows include Camino Capistrano and Forster Lane.

Table with columns for Level Of Service Module, 2Way95thQ, Control Del, LOS by Move, Movement, Shared Cap, SharedQueue, Shrd ConDel, Shared LOS, ApproachDel, and ApproachLOS. Rows include Camino Capistrano and Forster Lane.

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

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

Intersection #58 Camino Capistrano/Del Obispo

Cycle (sec): 120 Critical Vol./Cap.(X): 0.850
Loss Time (sec): 12 Average Delay (sec/veh): 46.7
Optimal Cycle: 97 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 North, South, East, and West bounds.

Volume Module: 2035 base sat. Table 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 across various movements.

Saturation Flow Module. Table showing Sat/Lane, Adjustment, Lanes, and Final Sat. for different movements.

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