JN:04560 - Apple Valley General Plan Circulation Element Traffic Study
Existing Traffic Condtions
With Existing Geometry

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

Intersection #11 Corwin Road (NS) / Highway 18 (EW)

Cycle (sec):	60	Critical Vol./Cap.(X):	0.728
Loss Time (sec):	6 (Y+R=4.0 sec)	Average Delay (sec/veh):	11.9
Optimal Cycle:	60	Level Of Service:	B

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			Protected			Protected		
Rights:		Include			Ovl			Include			Include	
Min. Green:	0	0	0	10	0	10	10	26	0	0	31	31
Lanes:	0 0	0 0	0	1 0	0 0	2	1 0	2 0	0	0 0	2 0	1
Volume Module:												
Base Vol:	0	0	0	54	0	328	302	692	0	0	1072	35
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	0	0	0	54	0	328	302	692	0	0	1072	35
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:	0	0	0	57	0	345	318	728	0	0	1128	37
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	0	0	0	57	0	345	318	728	0	0	1128	37
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	0	0	0	57	0	345	318	728	0	0	1128	37
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	1.00	1.00	1.00	0.95	1.00	0.75	0.95	0.95	1.00	1.00	0.95	0.85
Lanes:	0.00	0.00	0.00	1.00	0.00	2.00	1.00	2.00	0.00	0.00	2.00	1.00
Final Sat.:	0	0	0	1805	0	2842	1805	3610	0	0	3610	1615
Capacity Analysis Module:												
Vol/Sat:	0.00	0.00	0.00	0.03	0.00	0.12	0.18	0.20	0.00	0.00	0.31	0.02
Crit Moves:				****			****				****	
Green/Cycle:	0.00	0.00	0.00	0.17	0.00	0.38	0.22	0.73	0.00	0.00	0.52	0.52
Volume/Cap:	0.00	0.00	0.00	0.19	0.00	0.32	0.81	0.28	0.00	0.00	0.60	0.04
Delay/Veh:	0.0	0.0	0.0	21.8	0.0	13.2	34.6	2.7	0.0	0.0	10.8	7.2
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	0.0	0.0	0.0	21.8	0.0	13.2	34.6	2.7	0.0	0.0	10.8	7.2
LOS by Move:	A	A	A	C	A	B	C	A	A	A	B	A
HCM2kAvgQ:	0	0	0	1	0	3	8	3	0	0	8	0

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

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Intersection #11 Corwin Road (NS) / Highway 18 (EW)

Cycle (sec):	60	Critical Vol./Cap.(X):	0.630
Loss Time (sec):	6 (Y+R=4.0 sec)	Average Delay (sec/veh):	8.1
Optimal Cycle:	60	Level Of Service:	A

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			Protected			Protected		
Rights:	Include			Ovl			Include			Include		
Min. Green:	0	0	0	10	0	10	10	26	0	0	31	31
Lanes:	0 0 0 0 0			1 0 0 0 2			1 0 2 0 0			0 0 2 0 1		
Volume Module:												
Base Vol:	0	0	0	44	0	160	188	1315	0	0	997	4
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	0	0	0	44	0	160	188	1315	0	0	997	4
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:	0	0	0	46	0	168	198	1384	0	0	1049	4
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	0	0	0	46	0	168	198	1384	0	0	1049	4
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	0	0	0	46	0	168	198	1384	0	0	1049	4
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	1.00	1.00	1.00	0.95	1.00	0.75	0.95	0.95	1.00	1.00	0.95	0.85
Lanes:	0.00	0.00	0.00	1.00	0.00	2.00	1.00	2.00	0.00	0.00	2.00	1.00
Final Sat.:	0	0	0	1805	0	2842	1805	3610	0	0	3610	1615
Capacity Analysis Module:												
Vol/Sat:	0.00	0.00	0.00	0.03	0.00	0.06	0.11	0.38	0.00	0.00	0.29	0.00
Crit Moves:				****			****				****	
Green/Cycle:	0.00	0.00	0.00	0.17	0.00	0.38	0.22	0.73	0.00	0.00	0.52	0.52
Volume/Cap:	0.00	0.00	0.00	0.15	0.00	0.15	0.51	0.52	0.00	0.00	0.56	0.01
Delay/Veh:	0.0	0.0	0.0	21.6	0.0	12.2	21.8	3.7	0.0	0.0	10.3	7.0
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:	0.0	0.0	0.0	21.6	0.0	12.2	21.8	3.7	0.0	0.0	10.3	7.0
LOS by Move:	A	A	A	C	A	B	C	A	A	A	B	A
HCM2kAvgQ:	0	0	0	1	0	1	4	6	0	0	8	0

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