

NASA AMES DEVELOPMENT PLAN

FINAL PROGRAMMATIC

ENVIRONMENTAL IMPACT STATEMENT



APPENDIX H: ANALYSIS OF MITIGATED ALTERNATIVE FIVE

NASA AMES RESEARCH CENTER

JULY 2002



DESIGN, COMMUNITY & ENVIRONMENT

NASA AMES DEVELOPMENT PLAN

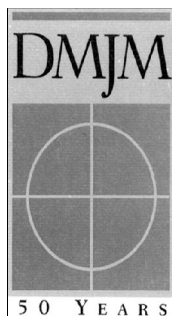
FINAL PROGRAMMATIC

ENVIRONMENTAL IMPACT STATEMENT

APPENDIX H

NASA AMES RESEARCH CENTER

JULY 2002



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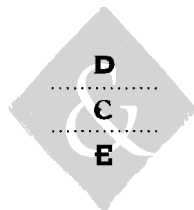
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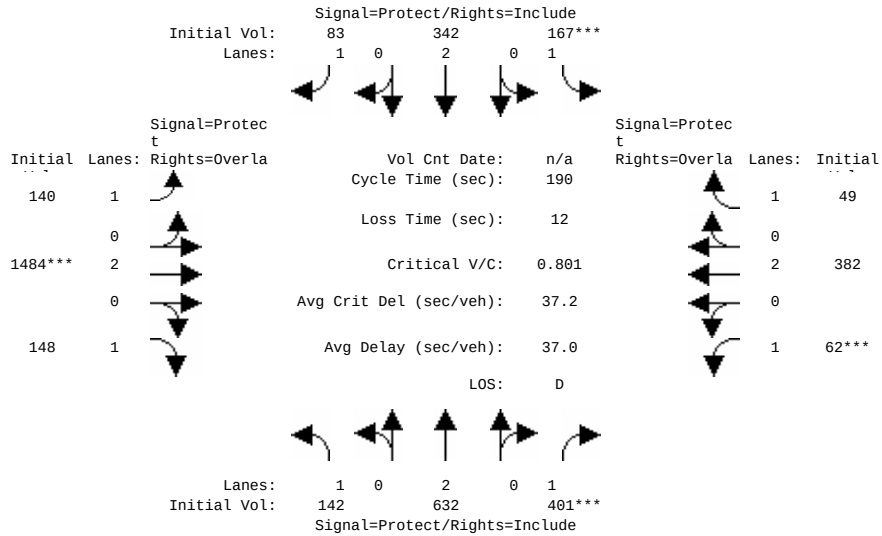
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NASA AMES DEVELOPMENT PLAN
FINAL PROGRAMMATIC ENVIRONMENTAL IMPACT STATEMENT
APPENDIX H: ANALYSIS OF MITIGATED ALTERNATIVE FIVE

A P P E N D I X H I

LEVEL OF SERVICE CALCULATIONS

Level Of Service Computation Report
1985 HCM Operations (Future Volume Alternative)
AM Peak

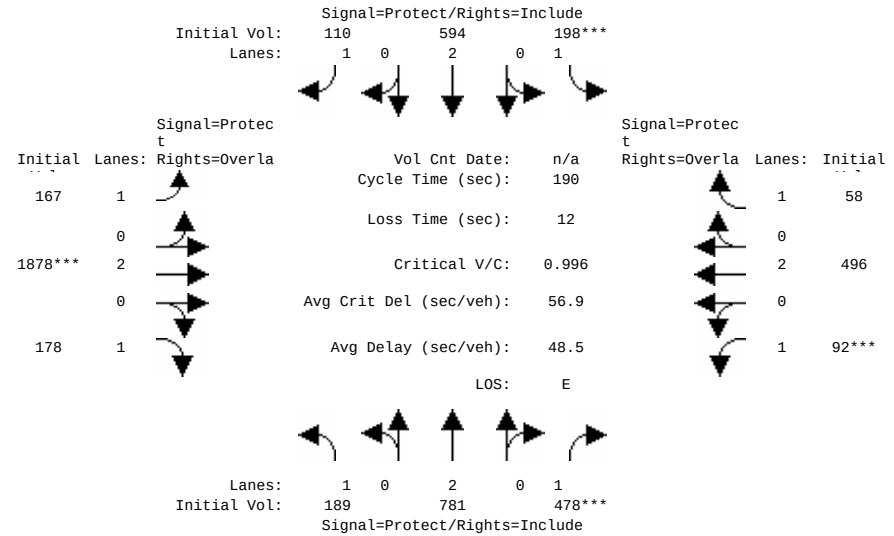
Intersection #1: Middlefield/Shoreline



Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	7	10	10	7	10	10	7	10	10	7	10	10
Volume Module:												
Base Vol:	142	632	401	167	342	83	140	1484	148	62	382	49
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:	142	632	401	167	342	83	140	1484	148	62	382	49
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:	142	632	401	167	342	83	140	1484	148	62	382	49
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:	142	632	401	167	342	83	140	1484	148	62	382	49
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	142	632	401	167	342	83	140	1484	148	62	382	49
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 Vol.:	142	632	401	167	342	83	140	1484	148	62	382	49
Saturation Flow Module:												
Sat/Lane:	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
Adjustment:	0.97	1.06	0.97	0.97	1.06	0.97	0.97	1.06	0.97	0.97	1.06	0.97
Lanes:	1.00	2.00	1.00	1.00	2.00	1.00	1.00	2.00	1.00	1.00	2.00	1.00
Final Sat.:	1750	3800	1750	1750	3800	1750	1750	3800	1750	1750	3800	1750
Capacity Analysis Module:												
Vol/Sat:	0.08	0.17	0.23	0.10	0.09	0.05	0.08	0.39	0.08	0.04	0.10	0.03
Crit Moves:	****	****	****	****	****	****	****	****	****	****	****	****
Green Time:	36.5	54.3	54.3	22.6	40.5	40.5	44.8	92.6	129.1	8.4	56.3	78.9
Volume/Cap:	0.42	0.58	0.80	0.80	0.42	0.22	0.34	0.80	0.12	0.80	0.34	0.07
Delay/Veh:	51.8	44.7	54.0	75.1	49.4	47.0	46.1	33.0	8.1	96.6	39.8	25.4
Delay Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
ProgAdjFctr:	1.00	0.85	0.85	1.00	0.85	0.85	1.00	0.85	0.85	1.00	0.85	0.85
AdjDel/Veh:	51.8	38.0	45.9	75.1	42.0	39.9	46.1	28.0	6.9	96.6	33.9	21.6
DesignQueue:	12	50	32	16	29	7	12	90	5	6	29	3

Level Of Service Computation Report
1985 HCM Operations (Future Volume Alternative)
AM 2013 Project Alt.1

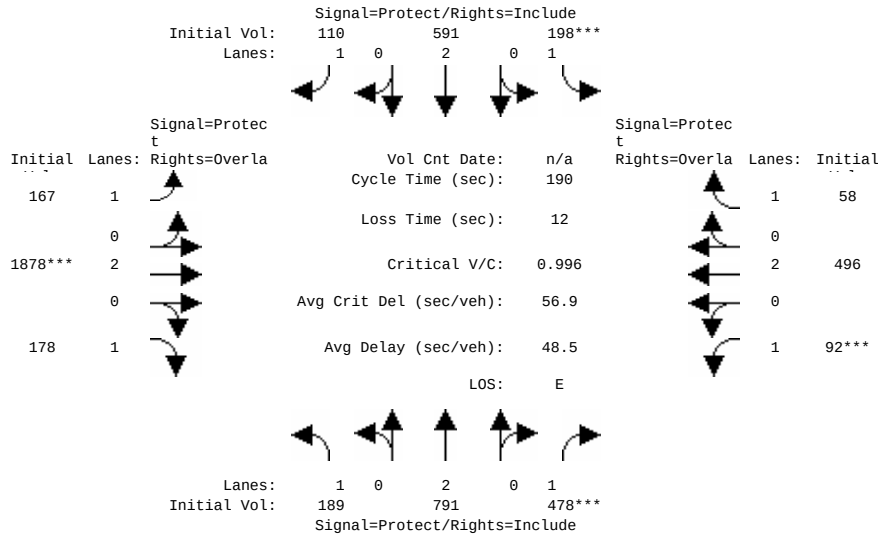
Intersection #1: Middlefield/Shoreline



Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	7	10	10	7	10	10	7	10	10	7	10	10
Volume Module:												
Base Vol:	142	632	401	167	342	83	140	1484	148	62	382	49
Growth Adj:	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18
Initial Bse:	168	748	475	198	405	98	166	1757	175	73	452	58
Added Vol:	0	1	0	0	17	0	0	0	0	0	0	0
Approved Pr:	21	32	3	0	172	12	1	121	3	19	44	0
Initial Fut:	189	781	478	198	594	110	167	1878	178	92	496	58
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:	189	781	478	198	594	110	167	1878	178	92	496	58
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	189	781	478	198	594	110	167	1878	178	92	496	58
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 Vol.:	189	781	478	198	594	110	167	1878	178	92	496	58
Saturation Flow Module:												
Sat/Lane:	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
Adjustment:	0.97	1.06	0.97	0.97	1.06	0.97	0.97	1.06	0.97	0.97	1.06	0.97
Lanes:	1.00	2.00	1.00	1.00	2.00	1.00	1.00	2.00	1.00	1.00	2.00	1.00
Final Sat.:	1750	3800	1750	1750	3800	1750	1750	3800	1750	1750	3800	1750
Capacity Analysis Module:												
Vol/Sat:	0.11	0.21	0.27	0.11	0.16	0.06	0.10	0.49	0.10	0.05	0.13	0.03
Crit Moves:	****	****	****	****	****	****	****	****	****	****	****	****
Green Time:	30.1	52.1	52.1	21.6	43.5	43.5	44.0	94.3	124.4	10.1	60.3	81.9
Volume/Cap:	0.68	0.75	1.00	1.00	0.68	0.27	0.41	1.00	0.16	1.00	0.41	0.08
Delay/Veh:	61.9	50.0	82.9	111.9	52.4	45.9	47.5	51.3	9.6	138.7	38.8	24.2
Delay Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
ProgAdjFctr:	1.00	0.85	0.85	1.00	0.85	0.85	1.00	0.85	0.85	1.00	0.85	0.85
AdjDel/Veh:	61.9	42.5	70.5	111.9	44.5	39.0	47.5	43.6	8.2	138.7	33.0	20.6
DesignQueue:	17	63	39	19	50	9	14	115	7	9	37	4

Level Of Service Computation Report
1985 HCM Operations (Future Volume Alternative)
AM 2013 Project Alt. 5

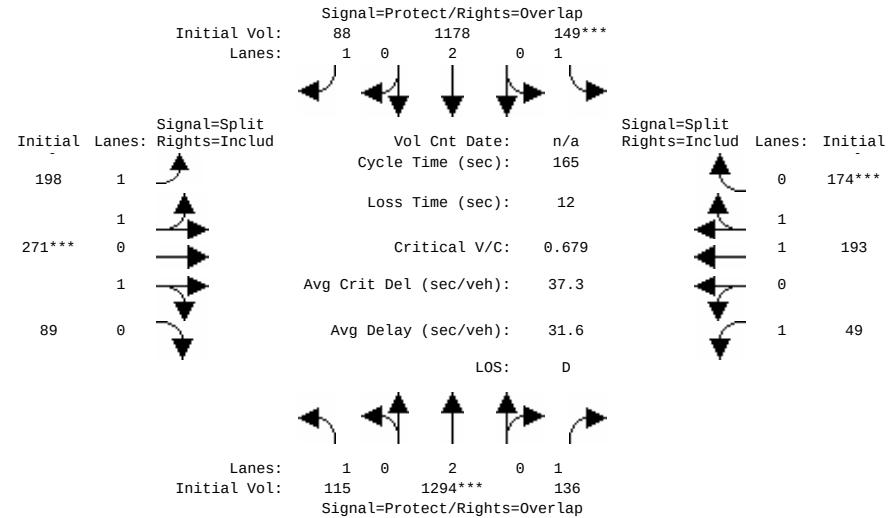
Intersection #1: Middlefield/Shoreline



Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	7	10	10	7	10	10	7	10	10	7	10	10
Volume Module:												
Base Vol:	142	632	401	167	342	83	140	1484	148	62	382	49
Growth Adj:	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18
Initial Bse:	168	748	475	198	405	98	166	1757	175	73	452	58
Added Vol:	0	11	0	0	14	0	0	0	0	0	0	0
Approved Pr:	21	32	3	0	172	12	1	121	3	19	44	0
Initial Fut:	189	791	478	198	591	110	167	1878	178	92	496	58
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:	189	791	478	198	591	110	167	1878	178	92	496	58
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	189	791	478	198	591	110	167	1878	178	92	496	58
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 Vol.:	189	791	478	198	591	110	167	1878	178	92	496	58
Saturation Flow Module:												
Sat/Lane:	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
Adjustment:	0.97	1.06	0.97	0.97	1.06	0.97	0.97	1.06	0.97	0.97	1.06	0.97
Lanes:	1.00	2.00	1.00	1.00	2.00	1.00	1.00	2.00	1.00	1.00	2.00	1.00
Final Sat.:	1750	3800	1750	1750	3800	1750	1750	3800	1750	1750	3800	1750
Capacity Analysis Module:												
Vol/Sat:	0.11	0.21	0.27	0.11	0.16	0.06	0.10	0.49	0.10	0.05	0.13	0.03
Crit Moves:	***	***	***	***	***	***	***	***	***	***	***	***
Green Time:	30.2	52.1	52.1	21.6	43.4	43.4	44.0	94.3	124.5	10.1	60.3	81.9
Volume/Cap:	0.68	0.76	1.00	1.00	0.68	0.28	0.41	1.00	0.16	1.00	0.41	0.08
Delay/Veh:	61.8	50.4	82.9	111.9	52.4	45.9	47.5	51.3	9.6	138.7	38.8	24.2
Delay Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
ProgAdjFctr:	1.00	0.85	0.85	1.00	0.85	0.85	1.00	0.85	0.85	1.00	0.85	0.85
AdjDel/Veh:	61.8	42.8	70.5	111.9	44.5	39.1	47.5	43.6	8.1	138.7	33.0	20.6
DesignQueue:	17	64	39	19	50	9	14	115	7	9	37	4

Level Of Service Computation Report
1985 HCM Operations (Future Volume Alternative)
AM Peak

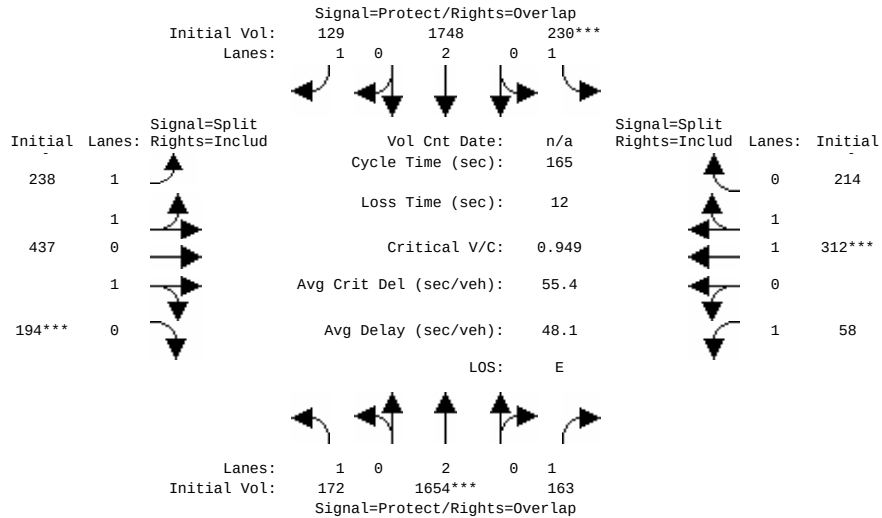
Intersection #2: Moffett/Central Expressway



Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	7	10	10	7	10	10	7	10	10	7	10	10
Volume Module:												
Base Vol:	115	1294	136	149	1178	88	198	271	89	49	193	174
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:	115	1294	136	149	1178	88	198	271	89	49	193	174
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:	115	1294	136	149	1178	88	198	271	89	49	193	174
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:	115	1294	136	149	1178	88	198	271	89	49	193	174
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	115	1294	136	149	1178	88	198	271	89	49	193	174
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 Vol.:	115	1294	136	149	1178	88	198	271	89	49	193	174
Saturation Flow Module:												
Sat/Lane:	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
Adjustment:	0.97	1.06	0.97	0.97	1.06	0.97	0.97	1.06	0.97	0.97	1.06	0.97
Lanes:	1.00	2.00	1.00	1.00	2.00	1.00	1.00	1.45	0.47	1.00	1.03	0.97
Final Sat.:	1750	3800	1750	1750	3800	1750	1898	2598	853	1750	1944	1750
Capacity Analysis Module:												
Vol/Sat:	0.07	0.34	0.08	0.09	0.31	0.05	0.10	0.10	0.10	0.03	0.10	0.10
Crit Moves:	***	***	***	***	***	***	***	***	***	***	***	***
Green Time:	18.1	82.8	106.9	20.7	85.4	110.8	25.4	25.4	25.4	24.1	24.1	24.1
Volume/Cap:	0.60	0.68	0.12	0.68	0.60	0.07	0.68	0.68	0.68	0.19	0.68	0.68
Delay/Veh:	56.8	24.3	8.4	57.9	21.5	7.1	51.7	51.7	51.7	47.1	53.1	53.1
Delay Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
ProgAdjFctr:	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:	56.8	24.3	8.4	57.9	21.5	7.1	51.7	51.7	51.7	47.1	53.1	53.1
DesignQueue:	10	65	4	12	57	3	16	22	7	4	16	14

Level Of Service Computation Report
1985 HCM Operations (Future Volume Alternative)
AM 2013 Project Alt.1

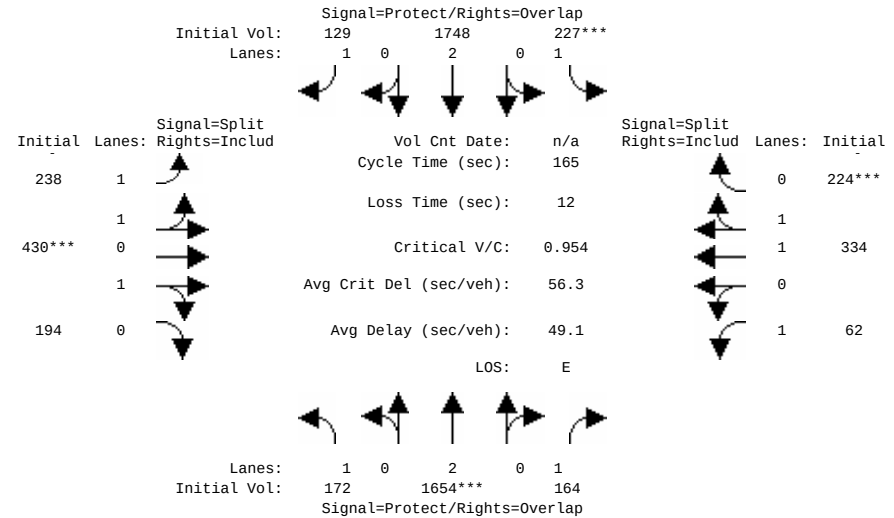
Intersection #2: Moffett/Central Expressway



Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	14	10	10	14	10	10	14	10	10	14	10	10
Volume Module:												
Base Vol:	115	1294	136	149	1178	88	198	271	89	49	193	174
Growth Adj:	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18
Initial Bse:	136	1532	161	176	1395	104	234	321	105	58	228	206
Added Vol:	0	0	2	17	0	0	0	41	0	0	4	1
Approved Pr:	36	122	0	37	353	25	4	75	89	0	80	7
Initial Fut:	172	1654	163	230	1748	129	238	437	194	58	312	214
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:	172	1654	163	230	1748	129	238	437	194	58	312	214
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	172	1654	163	230	1748	129	238	437	194	58	312	214
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 Vol.:	172	1654	163	230	1748	129	238	437	194	58	312	214
Saturation Flow Module:												
Sat/Lane:	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
Adjustment:	0.97	1.06	0.97	0.97	1.06	0.97	0.97	1.04	1.00	0.97	1.05	1.00
Lanes:	1.00	2.00	1.00	1.00	2.00	1.00	1.00	1.37	0.63	1.00	1.16	0.84
Final Sat.:	1750	3800	1750	1750	3800	1750	1750	2560	1139	1750	2195	1503
Capacity Analysis Module:												
Vol/Sat:	0.10	0.44	0.09	0.13	0.46	0.07	0.14	0.17	0.17	0.03	0.14	0.14
Crit Moves:	****	****	****	****	****	****	****	****	****	****	****	****
Green Time:	17.4	75.7	100.4	22.9	81.2	110.9	29.7	29.7	29.7	24.8	24.8	24.8
Volume/Cap:	0.93	0.95	0.15	0.95	0.93	0.11	0.76	0.95	0.95	0.22	0.95	0.95
Delay/Veh:	89.9	41.2	10.6	85.4	36.8	7.3	50.9	64.5	64.5	46.9	71.8	71.8
Delay Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
ProgAdjFctr:	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:	89.9	41.2	10.6	85.4	36.8	7.3	50.9	64.5	64.5	46.9	71.8	71.8
DesignQueue:	14	93	6	19	93	4	19	34	15	5	25	17

Level Of Service Computation Report
1985 HCM Operations (Future Volume Alternative)
AM 2013 Project Alt. 5

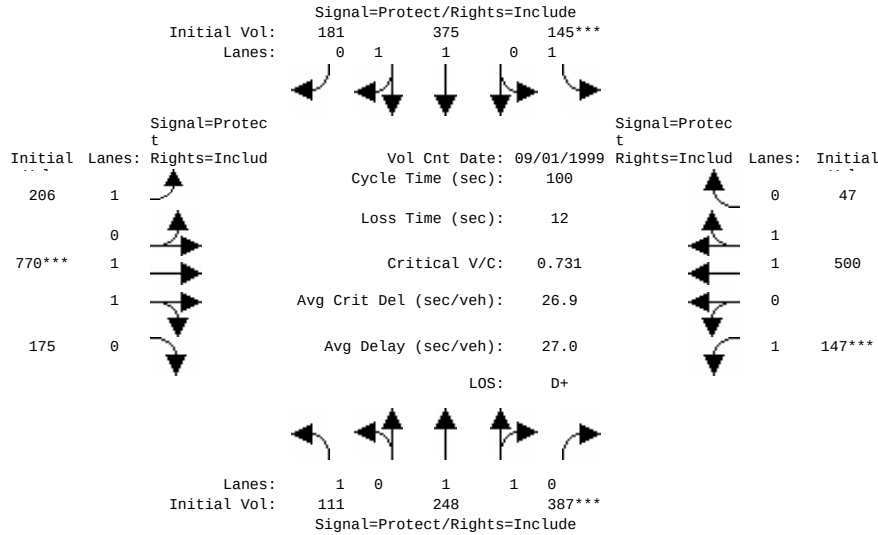
Intersection #2: Moffett/Central Expressway



Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	14	10	10	14	10	10	14	10	10	14	10	10
Volume Module:												
Base Vol:	115	1294	136	149	1178	88	198	271	89	49	193	174
Growth Adj:	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18
Initial Bse:	136	1532	161	176	1395	104	234	321	105	58	228	206
Added Vol:	0	0	3	14	0	0	0	34	0	4	26	11
Approved Pr:	36	122	0	37	353	25	4	75	89	0	80	7
Initial Fut:	172	1654	164	227	1748	129	238	430	194	62	334	224
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:	172	1654	164	227	1748	129	238	430	194	62	334	224
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	172	1654	164	227	1748	129	238	430	194	62	334	224
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 Vol.:	172	1654	164	227	1748	129	238	430	194	62	334	224
Saturation Flow Module:												
Sat/Lane:	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
Adjustment:	0.97	1.06	0.97	0.97	1.06	0.97	0.97	1.04	1.00	0.97	1.05	1.00
Lanes:	1.00	2.00	1.00	1.00	2.00	1.00	1.00	1.36	0.64	1.00	1.18	0.82
Final Sat.:	1750	3800	1750	1750	3800	1750	1750	2547	1152	1750	2215	1483
Capacity Analysis Module:												
Vol/Sat:	0.10	0.44	0.09	0.13	0.46	0.07	0.14	0.17	0.17	0.04	0.15	0.15
Crit Moves:	****	****	****	****	****	****	****	****	****	****	****	****
Green Time:	17.2	75.2	101.4	22.5	80.5	109.7	29.2	29.2	29.2	26.1	26.1	26.1
Volume/Cap:	0.94	0.95	0.15	0.95	0.94	0.11	0.77	0.95	0.95	0.22	0.95	0.95
Delay/Veh:	92.0	42.1	10.3	87.1	38.1	7.6	51.5	65.6	65.6	46.1	71.6	71.6
Delay Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
ProgAdjFctr:	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:	92.0	42.1	10.3	87.1	38.1	7.6	51.5	65.6	65.6	46.1	71.6	71.6
DesignQueue:	14	93	6	19	93	4	19	34	15	5	27	18

Level Of Service Computation Report
1985 HCM Operations (Future Volume Alternative)
AM Peak

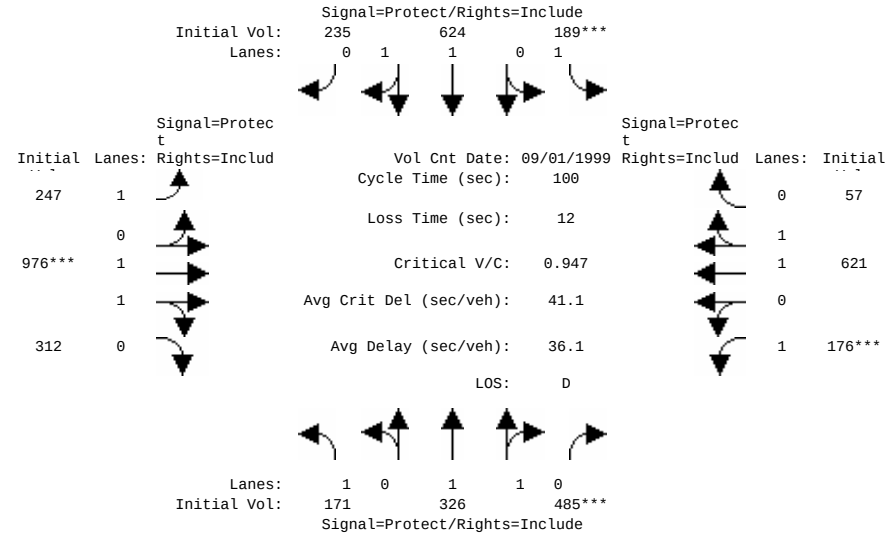
Intersection #3: Moffett/Middlefield



Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	7	10	10	7	10	10	7	10	10	7	10	10
Volume Module: >> Count Date: 1 Sep 1999 <<												
Base Vol:	111	248	387	145	375	181	206	770	175	147	500	47
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:	111	248	387	145	375	181	206	770	175	147	500	47
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:	111	248	387	145	375	181	206	770	175	147	500	47
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:	111	248	387	145	375	181	206	770	175	147	500	47
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	111	248	387	145	375	181	206	770	175	147	500	47
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 Vol.:	111	248	387	145	375	181	206	770	175	147	500	47
Saturation Flow Module:												
Sat/Lane:	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
Adjustment:	0.97	1.06	0.97	0.97	1.04	1.00	0.97	1.03	1.00	0.97	1.03	1.00
Lanes:	1.00	1.00	1.00	1.00	1.00	1.33	0.67	1.00	1.62	0.38	1.00	1.82
Final Sat.:	1750	1900	1750	1750	2495	1204	1750	3014	685	1750	3382	318
Capacity Analysis Module:												
Vol/Sat:	0.06	0.13	0.22	0.08	0.15	0.15	0.12	0.26	0.26	0.08	0.15	0.15
Crit Moves:	****	****	****	****	****	****	****	****	****	****	****	****
Green Time:	7.0	30.2	30.2	11.3	34.6	34.6	20.6	34.9	34.9	11.5	25.8	25.8
Volume/Cap:	0.91	0.43	0.73	0.73	0.43	0.43	0.57	0.73	0.73	0.73	0.57	0.57
Delay/Veh:	72.4	21.4	26.0	41.2	19.3	19.3	28.8	23.1	23.1	41.0	25.1	25.1
Delay Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
ProgAdjFctr:	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:	72.4	21.4	26.0	41.2	19.3	19.3	28.8	23.1	23.1	41.0	25.1	25.1
DesignQueue:	6	10	16	7	14	7	9	30	7	7	21	2

Level Of Service Computation Report
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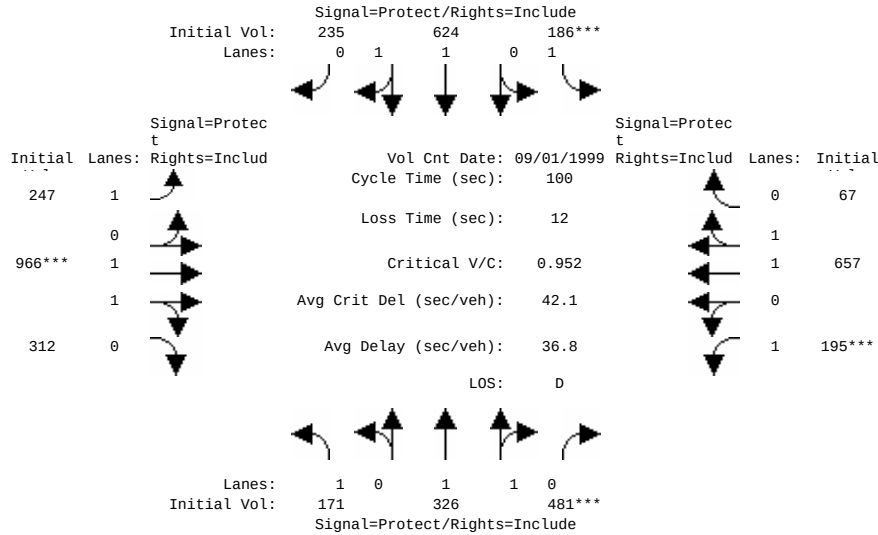
Intersection #3: Moffett/Middlefield



Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	7	10	10	7	10	10	7	10	10	7	10	10
Volume Module: >> Count Date: 1 Sep 1999 <<												
Base Vol:	111	248	387	145	375	181	206	770	175	147	500	47
Growth Adj:	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18
Initial Bse:	131	294	458	172	444	214	244	912	207	174	592	56
Added Vol:	0	0	27	17	0	0	0	60	0	2	5	1
Approved Pr:	40	32	0	0	180	21	3	4	105	0	24	0
Initial Fut:	171	326	485	189	624	235	247	976	312	176	621	57
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:	171	326	485	189	624	235	247	976	312	176	621	57
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	171	326	485	189	624	235	247	976	312	176	621	57
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 Vol.:	171	326	485	189	624	235	247	976	312	176	621	57
Saturation Flow Module:												
Sat/Lane:	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
Adjustment:	0.97	1.06	0.97	0.97	1.04	1.00	0.97	1.04	1.00	0.97	1.03	1.00
Lanes:	1.00	1.00	1.00	1.00	1.00	1.44	0.56	1.00	1.50	0.50	1.00	1.83
Final Sat.:	1750	1900	1750	1750	2686	1013	1750	2802	897	1750	3390	309
Capacity Analysis Module:												
Vol/Sat:	0.10	0.17	0.28	0.11	0.23	0.23	0.14	0.35	0.35	0.10	0.18	0.18
Crit Moves:	****	****	****	****	****	****	****	****	****	****	****	****
Green Time:	12.1	29.3	29.3	11.4	28.6	28.6	20.6	36.7	36.7	10.6	26.8	26.8
Volume/Cap:	0.81	0.59	0.95	0.95	0.81	0.81	0.68	0.95	0.95	0.95	0.68	0.68
Delay/Veh:	46.7	23.4	40.4	68.9	28.7	28.7	31.5	33.5	33.5	70.7	26.3	26.3
Delay Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
ProgAdjFctr:	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:	46.7	23.4	40.4	68.9	28.7	28.7	31.5	33.5	33.5	70.7	26.3	26.3
DesignQueue:	9	13	20	10	26	10	11	38	12	9	27	2

Level Of Service Computation Report
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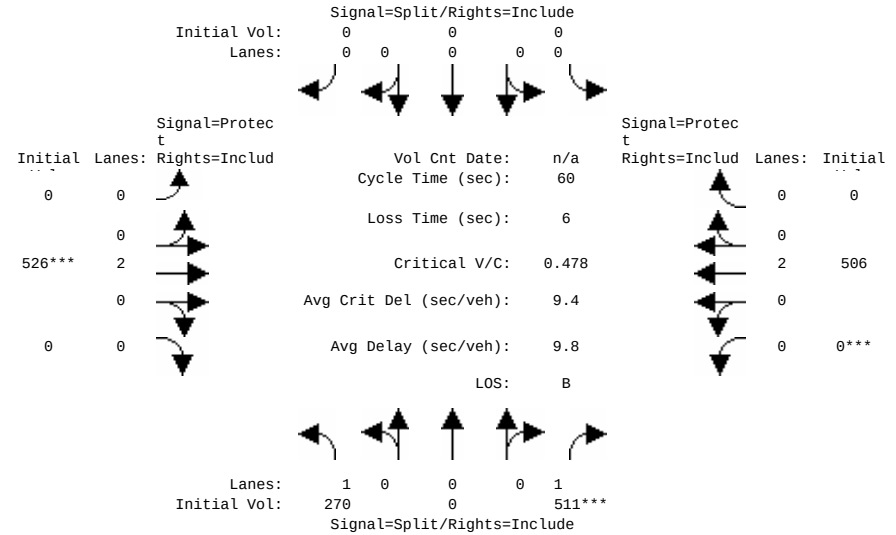
Intersection #3: Moffett/Middlefield



Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	7	10	10	7	10	10	7	10	10	7	10	10
Volume Module:	>> Count Date: 1 Sep 1999 <<											
Base Vol:	111	248	387	145	375	181	206	770	175	147	500	47
Growth Adj:	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18
Initial Bse:	131	294	458	172	444	214	244	912	207	174	592	56
Added Vol:	0	0	23	14	0	0	0	50	0	21	41	11
Approved Pr:	40	32	0	0	180	21	3	4	105	0	24	0
Initial Fut:	171	326	481	186	624	235	247	966	312	195	657	67
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:	171	326	481	186	624	235	247	966	312	195	657	67
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	171	326	481	186	624	235	247	966	312	195	657	67
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 Vol.:	171	326	481	186	624	235	247	966	312	195	657	67
Saturation Flow Module:												
Sat/Lane:	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
Adjustment:	0.97	1.06	0.97	0.97	1.04	1.00	0.97	1.04	1.00	0.97	1.03	1.00
Lanes:	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 Sat.:	1750	1900	1750	1750	2686	1013	1750	2795	904	1750	3359	341
Capacity Analysis Module:												
Vol/Sat:	0.10	0.17	0.27	0.11	0.23	0.23	0.14	0.35	0.35	0.11	0.20	0.20
Crit Moves:	****	****	****	****	****	****	****	****	****	****	****	****
Green Time:	11.9	28.9	28.9	11.1	28.1	28.1	20.1	36.3	36.3	11.7	27.9	27.9
Volume/Cap:	0.83	0.59	0.95	0.95	0.83	0.83	0.70	0.95	0.95	0.95	0.70	0.70
Delay/Veh:	48.3	23.7	41.3	70.5	29.5	29.5	32.4	34.4	34.4	69.3	26.1	26.1
Delay Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
ProgAdjFctr:	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:	48.3	23.7	41.3	70.5	29.5	29.5	32.4	34.4	34.4	69.3	26.1	26.1
DesignQueue:	9	13	20	9	27	10	11	38	12	10	28	3

Level Of Service Computation Report
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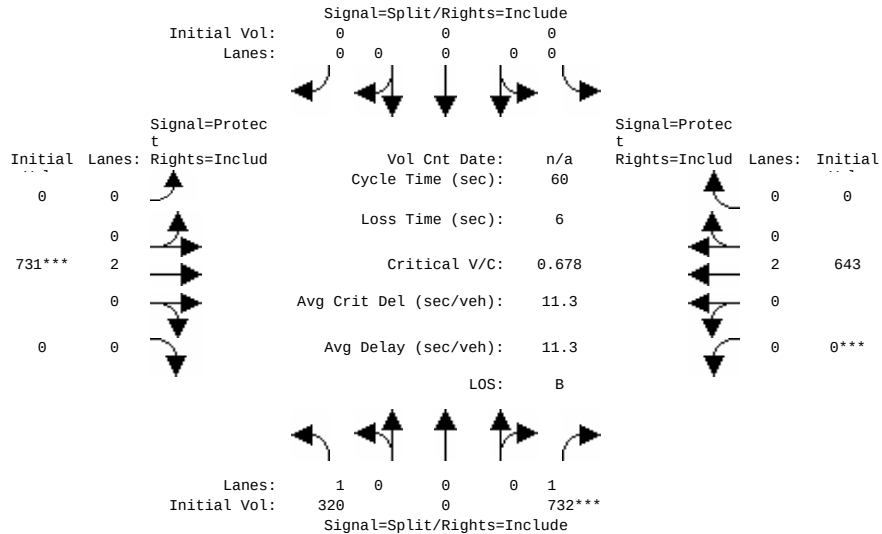
Intersection #4: Moffett/85 NB Ramp



Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	10	0	10	0	0	0	0	10	0	0	10	0
Volume Module:												
Base Vol:	270	0	511	0	0	0	0	526	0	0	506	0
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	270	0	511	0	0	0	0	526	0	0	506	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:	270	0	511	0	0	0	0	526	0	0	506	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:	270	0	511	0	0	0	0	526	0	0	506	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	270	0	511	0	0	0	0	526	0	0	506	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 Vol.:	270	0	511	0	0	0	0	526	0	0	506	0
Saturation Flow Module:												
Sat/Lane:	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
Adjustment:	0.97	1.06	0.97	0.97	1.06	0.97	0.97	1.06	0.97	0.97	1.06	0.97
Lanes:	1.00	0.00	1.00	0.00	0.00	0.00	0.00	2.00	0.00	0.00	2.00	0.00
Final Sat.:	1750	0	1750	0	0	0	0	3800	0	0	3800	0
Capacity Analysis Module:												
Vol/Sat:	0.15	0.00	0.29	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.13	0.00
Crit Moves:	****	****	****	****	****	****	****	****	****	****	****	****
Green Time:	36.6	0.0	36.6	0.0	0.0	0.0	0.0	17.4	0.0	0.0	17.4	0.0
Volume/Cap:	0.25	0.00	0.48	0.00	0.00	0.00	0.00	0.48	0.00	0.00	0.46	0.00
Delay/Veh:	4.1	0.0	5.2	0.0	0.0	0.0	0.0	13.6	0.0	0.0	13.5	0.0
Delay Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
ProgAdjFctr:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	4.1	0.0	5.2	0.0	0.0	0.0	0.0	13.6	0.0	0.0	13.5	0.0
DesignQueue:	4	0	7	0	0	0	0	13	0	0	12	0

Level Of Service Computation Report
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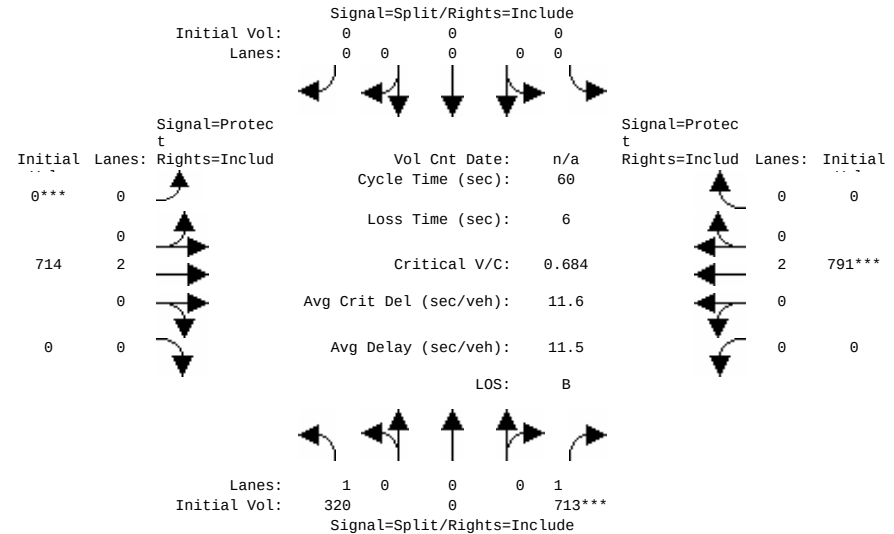
Intersection #4: Moffett/85 NB Ramp



Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	10	0	10	0	0	0	0	10	0	0	10	0
Volume Module:												
Base Vol:	270	0	511	0	0	0	0	526	0	0	506	0
Growth Adj:	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18
Initial Bse:	320	0	605	0	0	0	0	623	0	0	599	0
Added Vol:	0	0	127	0	0	0	0	104	0	0	20	0
Approved Pr:	0	0	0	0	0	0	0	4	0	0	24	0
Initial Fut:	320	0	732	0	0	0	0	731	0	0	643	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:	320	0	732	0	0	0	0	731	0	0	643	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	320	0	732	0	0	0	0	731	0	0	643	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 Vol.:	320	0	732	0	0	0	0	731	0	0	643	0
Saturation Flow Module:												
Sat/Lane:	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
Adjustment:	0.97	1.06	0.97	0.97	1.06	0.97	0.97	1.06	0.97	0.97	1.06	0.97
Lanes:	1.00	0.00	1.00	0.00	0.00	0.00	0.00	2.00	0.00	0.00	2.00	0.00
Final Sat.:	1750	0	1750	0	0	0	0	3800	0	0	3800	0
Capacity Analysis Module:												
Vol/Sat:	0.18	0.00	0.42	0.00	0.00	0.00	0.00	0.19	0.00	0.00	0.17	0.00
Crit Moves:	****											
Green Time:	37.0	0.0	37.0	0.0	0.0	0.0	0.0	17.0	0.0	0.0	17.0	0.0
Volume/Cap:	0.30	0.00	0.68	0.00	0.00	0.00	0.00	0.68	0.00	0.00	0.68	0.00
Delay/Veh:	4.1	0.0	7.0	0.0	0.0	0.0	0.0	15.7	0.0	0.0	14.8	0.0
Delay Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
ProgAdjFctr:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	4.1	0.0	7.0	0.0	0.0	0.0	0.0	15.7	0.0	0.0	14.8	0.0
DesignQueue:	4	0	10	0	0	0	0	18	0	0	16	0

Level Of Service Computation Report
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AM 2013 Project Alt. 5

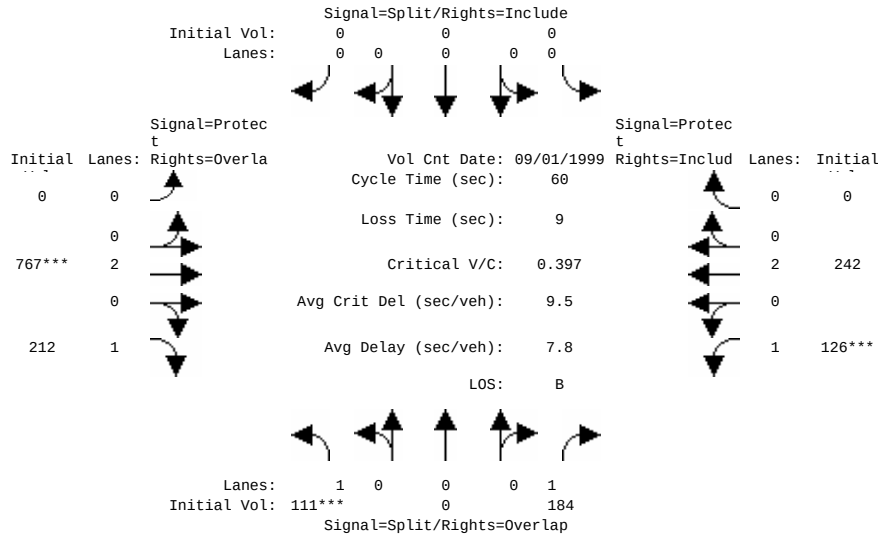
Intersection #4: Moffett/85 NB Ramp



Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	10	0	10	0	0	0	0	10	0	0	10	0
Volume Module:												
Base Vol:	270	0	511	0	0	0	0	526	0	0	506	0
Growth Adj:	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18
Initial Bse:	320	0	605	0	0	0	0	623	0	0	599	0
Added Vol:	0	0	108	0	0	0	0	87	0	0	168	0
Approved Pr:	0	0	0	0	0	0	0	4	0	0	24	0
Initial Fut:	320	0	713	0	0	0	0	714	0	0	791	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:	320	0	713	0	0	0	0	714	0	0	791	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	320	0	713	0	0	0	0	714	0	0	791	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 Vol.:	320	0	713	0	0	0	0	714	0	0	791	0
Saturation Flow Module:												
Sat/Lane:	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
Adjustment:	0.97	1.06	0.97	0.97	1.06	0.97	0.97	1.06	0.97	0.97	1.06	0.97
Lanes:	1.00	0.00	1.00	0.00	0.00	0.00	0.00	2.00	0.00	0.00	2.00	0.00
Final Sat.:	1750	0	1750	0	0	0	0	3800	0	0	3800	0
Capacity Analysis Module:												
Vol/Sat:	0.18	0.00	0.41	0.00	0.00	0.00	0.00	0.19	0.00	0.00	0.21	0.00
Crit Moves:	****											
Green Time:	35.7	0.0	35.7	0.0	0.0	0.0	0.0	18.3	0.0	0.0	18.3	0.0
Volume/Cap:	0.31	0.00	0.68	0.00	0.00	0.00	0.00	0.62	0.00	0.00	0.68	0.00
Delay/Veh:	4.6	0.0	7.6	0.0	0.0	0.0	0.0	14.3	0.0	0.0	15.1	0.0
Delay Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
ProgAdjFctr:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	4.6	0.0	7.6	0.0	0.0	0.0	0.0	14.3	0.0	0.0	15.1	0.0
DesignQueue:	5	0	11	0	0	0	0	17	0	0	19	0

Level Of Service Computation Report
1985 HCM Operations (Future Volume Alternative)
AM Peak

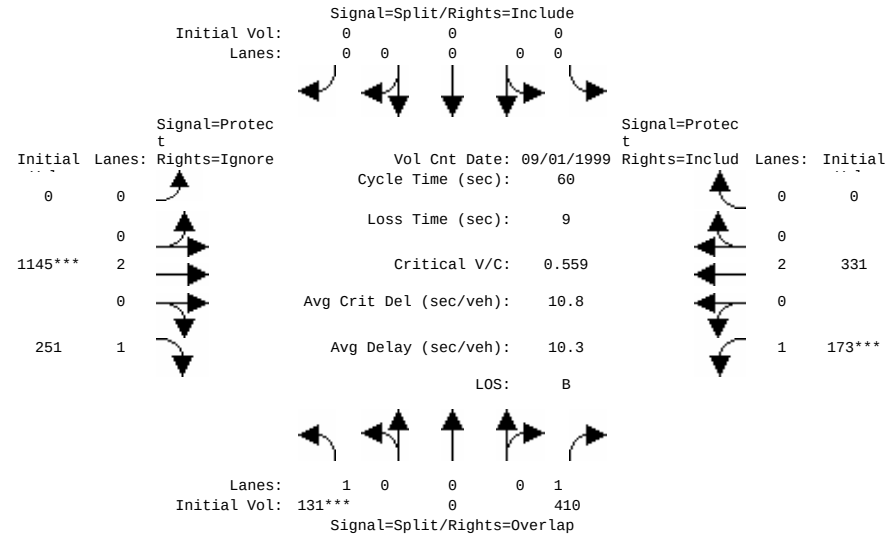
Intersection #5: Moffett/101 SB Ramps



Approach:	North Bound	South Bound	East Bound	West Bound
Movement:	L - T - R	L - T - R	L - T - R	L - T - R
Min. Green:	10 0 10	0 0 0	0 10 10	7 10 0
Volume Module: >> Count Date: 1 Sep 1999 <<				
Base Vol:	111 0 184	0 0 0	0 767 212	126 242 0
Growth Adj:	1.00 1.00 1.00	1.00 1.00 1.00	1.00 1.00 1.00	1.00 1.00 1.00
Initial Bse:	111 0 184	0 0 0	0 767 212	126 242 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:	111 0 184	0 0 0	0 767 212	126 242 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:	111 0 184	0 0 0	0 767 212	126 242 0
Reduct Vol:	0 0 0	0 0 0	0 0 0	0 0 0
Reduced Vol:	111 0 184	0 0 0	0 767 212	126 242 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 Vol.:	111 0 184	0 0 0	0 767 212	126 242 0
Saturation Flow Module:				
Sat/Lane:	1800 1800 1800	1800 1800 1800	1800 1800 1800	1800 1800 1800
Adjustment:	0.97 1.06 0.97	0.97 1.06 0.97	0.97 1.06 0.97	0.97 1.06 0.97
Lanes:	1.00 0.00 1.00	0.00 0.00 0.00	0.00 2.00 1.00	1.00 2.00 0.00
Final Sat.:	1750 0 1750	0 0 0	0 3800 1750	1750 3800 0
Capacity Analysis Module:				
Vol/Sat:	0.06 0.00 0.11	0.00 0.00 0.00	0.00 0.20 0.12	0.07 0.06 0.00
Crit Moves:	****	****	****	****
Green Time:	10.0 0.0 20.8	0.0 0.0 0.0	0.0 30.2 40.2	10.8 41.0 0.0
Volume/Cap:	0.38 0.00 0.30	0.00 0.00 0.00	0.00 0.40 0.18	0.40 0.09 0.00
Delay/Veh:	17.3 0.0 11.0	0.0 0.0 0.0	0.0 7.1 2.8	17.0 2.4 0.0
Delay Adj:	1.00 1.00 1.00	1.00 1.00 1.00	1.00 1.00 1.00	1.00 1.00 1.00
ProgAdjFctr:	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:	17.3 0.0 11.0	0.0 0.0 0.0	0.0 7.1 2.8	17.0 2.4 0.0
DesignQueue:	3 0 4	0 0 0	0 13 2	4 3 0

Level Of Service Computation Report
1985 HCM Operations (Future Volume Alternative)
AM 2013 Project Alt.1

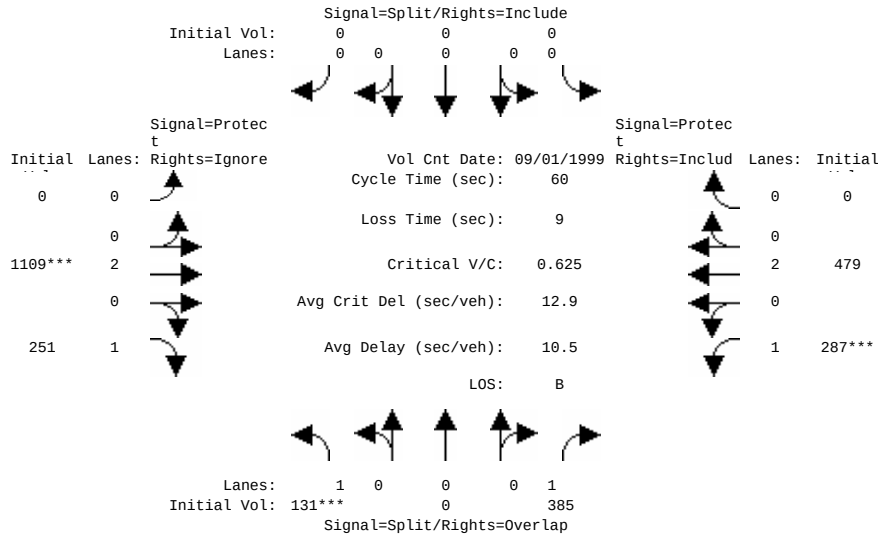
Intersection #5: Moffett/101 SB Ramps



Approach:	North Bound	South Bound	East Bound	West Bound
Movement:	L - T - R	L - T - R	L - T - R	L - T - R
Min. Green:	10 0 10	0 0 0	0 10 10	7 10 0
Volume Module: >> Count Date: 1 Sep 1999 <<				
Base Vol:	111 0 184	0 0 0	0 767 212	126 242 0
Growth Adj:	1.18 1.18 1.18	1.18 1.18 1.18	1.18 1.18 1.18	1.18 1.18 1.18
Initial Bse:	131 0 218	0 0 0	0 908 251	149 287 0
Added Vol:	0 0 141	0 0 0	0 232 0	15 20 0
Approved Pr:	0 0 51	0 0 0	0 5 0	9 24 0
Initial Fut:	131 0 410	0 0 0	0 1145 251	173 331 0
User Adj:	1.00 1.00 1.00	1.00 1.00 1.00	1.00 1.00 0.00	1.00 1.00 1.00
PHF Adj:	1.00 1.00 1.00	1.00 1.00 1.00	1.00 1.00 0.00	1.00 1.00 1.00
PHF Volume:	131 0 410	0 0 0	0 1145 0	173 331 0
Reduct Vol:	0 0 0	0 0 0	0 0 0	0 0 0
Reduced Vol:	131 0 410	0 0 0	0 1145 0	173 331 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 1.00
MLF Adj:	1.00 1.00 1.00	1.00 1.00 1.00	1.00 1.00 0.00	1.00 1.00 1.00
Final Vol.:	131 0 410	0 0 0	0 1145 0	173 331 0
Saturation Flow Module:				
Sat/Lane:	1800 1800 1800	1800 1800 1800	1800 1800 1800	1800 1800 1800
Adjustment:	0.97 1.06 0.97	0.97 1.06 0.97	0.97 1.06 0.97	0.97 1.06 0.97
Lanes:	1.00 0.00 1.00	0.00 0.00 0.00	0.00 2.00 1.00	1.00 2.00 0.00
Final Sat.:	1750 0 1750	0 0 0	0 3800 1750	1750 3800 0
Capacity Analysis Module:				
Vol/Sat:	0.08 0.00 0.23	0.00 0.00 0.00	0.00 0.30 0.00	0.10 0.09 0.00
Crit Moves:	****	****	****	****
Green Time:	11.6 0.0 21.3	0.0 0.0 0.0	0.0 29.7 0.0	9.7 39.4 0.0
Volume/Cap:	0.39 0.00 0.66	0.00 0.00 0.00	0.00 0.61 0.00	0.61 0.13 0.00
Delay/Veh:	16.4 0.0 14.2	0.0 0.0 0.0	0.0 8.8 0.0	20.4 2.9 0.0
Delay Adj:	1.00 1.00 1.00	1.00 1.00 1.00	1.00 1.00 1.00	1.00 1.00 1.00
ProgAdjFctr:	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:	16.4 0.0 14.2	0.0 0.0 0.0	0.0 8.8 0.0	20.4 2.9 0.0
DesignQueue:	4 0 9	0 0 0	0 21 0	5 4 0

Level Of Service Computation Report
1985 HCM Operations (Future Volume Alternative)
AM 2013 Project Alt. 5

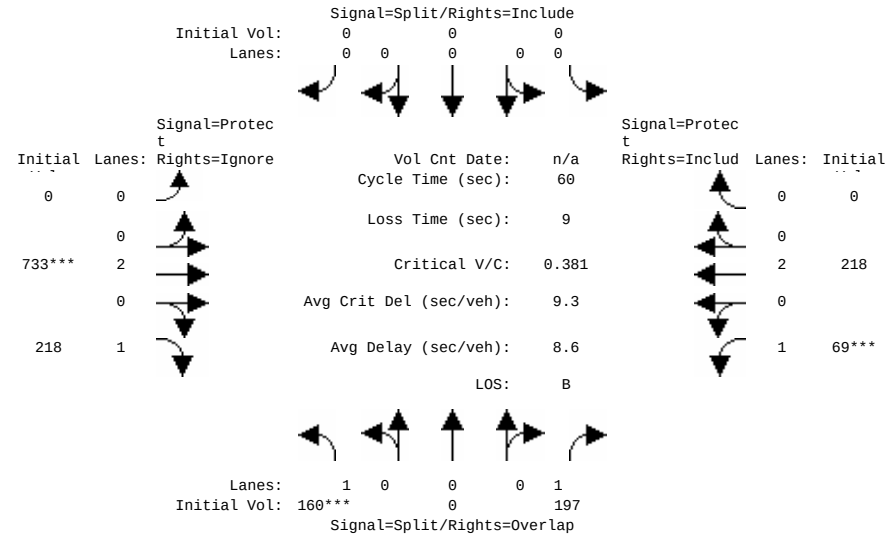
Intersection #5: Moffett/101 SB Ramps



Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	10	0	10	0	0	0	0	10	10	7	10	0
Volume Module:	>> Count Date: 1 Sep 1999 <<											
Base Vol:	111	0	184	0	0	0	0	767	212	126	242	0
Growth Adj:	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18
Initial Bse:	131	0	218	0	0	0	0	908	251	149	287	0
Added Vol:	0	0	116	0	0	0	0	196	0	129	168	0
Approved Pr:	0	0	51	0	0	0	0	5	0	9	24	0
Initial Fut:	131	0	385	0	0	0	0	1109	251	287	479	0
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	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:	131	0	385	0	0	0	0	1109	0	287	479	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	131	0	385	0	0	0	0	1109	0	287	479	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	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00
Final Vol.:	131	0	385	0	0	0	0	1109	0	287	479	0
Saturation Flow Module:												
Sat/Lane:	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
Adjustment:	0.97	1.06	0.97	0.97	1.06	0.97	0.97	1.06	0.97	0.97	1.06	0.97
Lanes:	1.00	0.00	1.00	1.00	0.00	0.00	0.00	0.00	2.00	1.00	0.00	0.00
Final Sat.:	1750	0	1750	0	0	0	0	3800	1750	1750	3800	0
Capacity Analysis Module:												
Vol/Sat:	0.08	0.00	0.22	0.00	0.00	0.00	0.00	0.29	0.00	0.16	0.13	0.00
Crit Moves:	****											
Green Time:	10.0	0.0	24.8	0.0	0.0	0.0	0.0	26.2	0.0	14.8	41.0	0.0
Volume/Cap:	0.45	0.00	0.53	0.00	0.00	0.00	0.00	0.67	0.00	0.67	0.18	0.00
Delay/Veh:	17.9	0.0	10.7	0.0	0.0	0.0	0.0	10.9	0.0	18.2	2.6	0.0
Delay Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
ProgAdjFctr:	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:	17.9	0.0	10.7	0.0	0.0	0.0	0.0	10.9	0.0	18.2	2.6	0.0
DesignQueue:	4	0	8	0	0	0	0	23	0	8	5	0

Level Of Service Computation Report
1985 HCM Operations (Future Volume Alternative)
AM Peak

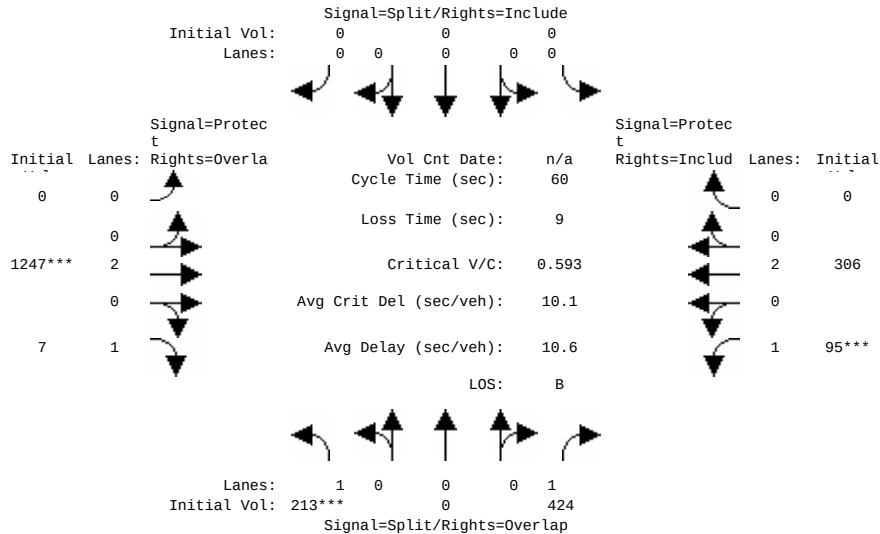
Intersection #6: Moffett/101 NB Ramps



Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	10	0	10	0	0	0	0	10	10	7	10	0
Volume Module:												
Base Vol:	160	0	197	0	0	0	0	733	218	69	218	0
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	160	0	197	0	0	0	0	733	218	69	218	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:	160	0	197	0	0	0	0	733	218	69	218	0
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00
PHF Volume:	160	0	197	0	0	0	0	733	0	69	218	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	160	0	197	0	0	0	0	733	0	69	218	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	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00
Final Vol.:	160	0	197	0	0	0	0	733	0	69	218	0
Saturation Flow Module:												
Sat/Lane:	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
Adjustment:	0.97	1.06	0.97	0.97	1.06	0.97	0.97	1.06	0.97	0.97	1.06	0.97
Lanes:	1.00	0.00	1.00	1.00	0.00	0.00	0.00	0.00	2.00	1.00	0.00	0.00
Final Sat.:	1750	0	1750	0	0	0	0	3800	1750	1750	3800	0
Capacity Analysis Module:												
Vol/Sat:	0.09	0.00	0.11	0.00	0.00	0.00	0.00	0.19	0.00	0.04	0.06	0.00
Crit Moves:	****											
Green Time:	14.1	0.0	21.1	0.0	0.0	0.0	0.0	29.9	0.0	7.0	36.9	0.0
Volume/Cap:	0.39	0.00	0.32	0.00	0.00	0.00	0.00	0.39	0.00	0.34	0.09	0.00
Delay/Veh:	15.0	0.0	10.9	0.0	0.0	0.0	0.0	7.2	0.0	18.9	3.6	0.0
Delay Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
ProgAdjFctr:	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:	15.0	0.0	10.9	0.0	0.0	0.0	0.0	7.2	0.0	18.9	3.6	0.0
DesignQueue:	4	0	4	0	0	0	0	13	0	2	3	0

Level Of Service Computation Report
1985 HCM Operations (Future Volume Alternative)
AM 2013 Project Alt.1

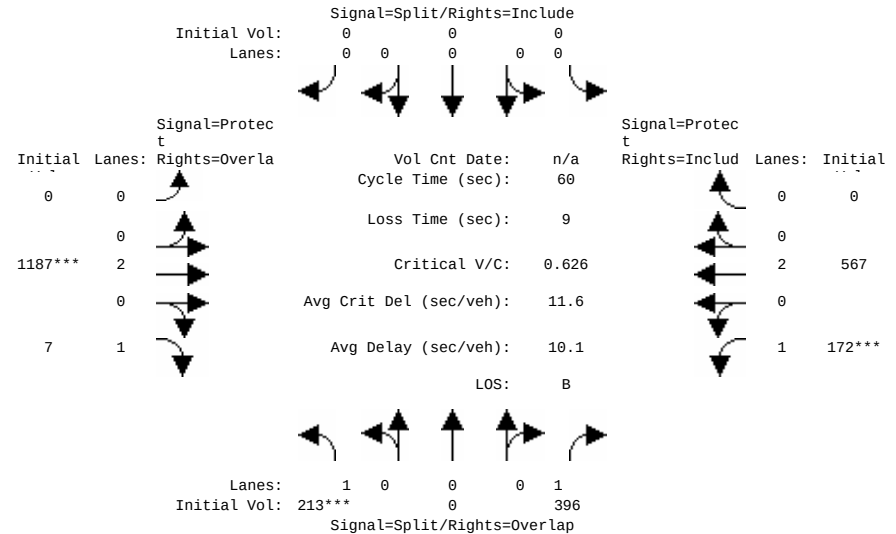
Intersection #6: Moffett/101 NB Ramps



Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	10	0	10	0	0	0	0	10	10	7	10	0
Volume Module:												
Base Vol:	160	0	197	0	0	0	0	733	0	69	218	0
Growth Adj:	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18
Initial Bse:	189	0	233	0	0	0	0	868	0	82	258	0
Added Vol:	0	0	177	0	0	0	0	372	0	12	36	0
Approved Pr:	24	0	14	0	0	0	0	7	7	1	12	0
Initial Fut:	213	0	424	0	0	0	0	1247	7	95	306	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:	213	0	424	0	0	0	0	1247	7	95	306	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	213	0	424	0	0	0	0	1247	7	95	306	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 Vol.:	213	0	424	0	0	0	0	1247	7	95	306	0
Saturation Flow Module:												
Sat/Lane:	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
Adjustment:	0.97	1.06	0.97	0.97	1.06	0.97	0.97	1.06	0.97	0.97	1.06	0.97
Lanes:	1.00	0.00	1.00	0.00	0.00	0.00	0.00	2.00	1.00	1.00	2.00	0.00
Final Sat.:	1750	0	1750	0	0	0	0	3800	1750	1750	3800	0
Capacity Analysis Module:												
Vol/Sat:	0.12	0.00	0.24	0.00	0.00	0.00	0.00	0.33	0.00	0.05	0.08	0.00
Crit Moves:	****						****			****		
Green Time:	12.2	0.0	19.2	0.0	0.0	0.0	0.0	31.8	44.0	7.0	38.8	0.0
Volume/Cap:	0.60	0.00	0.76	0.00	0.00	0.00	0.00	0.62	0.01	0.46	0.12	0.00
Delay/Veh:	18.5	0.0	18.0	0.0	0.0	0.0	0.0	7.9	1.6	20.0	3.1	0.0
Delay Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
ProgAdjFctr:	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:	18.5	0.0	18.0	0.0	0.0	0.0	0.0	7.9	1.6	20.0	3.1	0.0
DesignQueue:	6	0	10	0	0	0	0	21	0	3	4	0

Level Of Service Computation Report
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AM 2013 Project Alt. 5

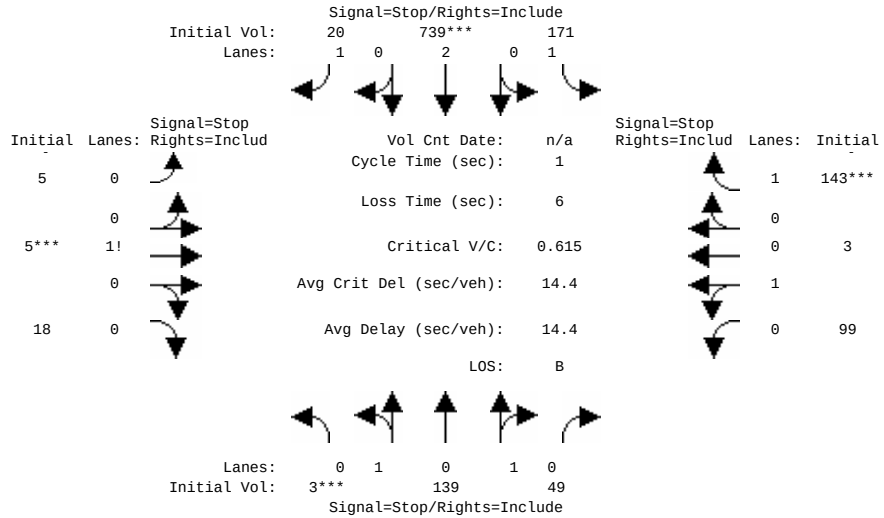
Intersection #6: Moffett/101 NB Ramps



Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	10	0	10	0	0	0	0	10	10	7	10	0
Volume Module:												
Base Vol:	160	0	197	0	0	0	0	733	0	69	218	0
Growth Adj:	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18
Initial Bse:	189	0	233	0	0	0	0	868	0	82	258	0
Added Vol:	0	0	149	0	0	0	0	312	0	89	297	0
Approved Pr:	24	0	14	0	0	0	0	7	7	1	12	0
Initial Fut:	213	0	396	0	0	0	0	1187	7	172	567	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:	213	0	396	0	0	0	0	1187	7	172	567	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	213	0	396	0	0	0	0	1187	7	172	567	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 Vol.:	213	0	396	0	0	0	0	1187	7	172	567	0
Saturation Flow Module:												
Sat/Lane:	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
Adjustment:	0.97	1.06	0.97	0.97	1.06	0.97	0.97	1.06	0.97	0.97	1.06	0.97
Lanes:	1.00	0.00	1.00	0.00	0.00	0.00	0.00	2.00	1.00	1.00	2.00	0.00
Final Sat.:	1750	0	1750	0	0	0	0	3800	1750	1750	3800	0
Capacity Analysis Module:												
Vol/Sat:	0.12	0.00	0.23	0.00	0.00	0.00	0.00	0.31	0.00	0.10	0.15	0.00
Crit Moves:	****						****			****		
Green Time:	11.7	0.0	21.1	0.0	0.0	0.0	0.0	29.9	41.6	9.4	39.3	0.0
Volume/Cap:	0.63	0.00	0.64	0.00	0.00	0.00	0.00	0.63	0.01	0.63	0.23	0.00
Delay/Veh:	19.4	0.0	14.0	0.0	0.0	0.0	0.0	8.8	2.2	21.1	3.2	0.0
Delay Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
ProgAdjFctr:	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:	19.4	0.0	14.0	0.0	0.0	0.0	0.0	8.8	2.2	21.1	3.2	0.0
DesignQueue:	6	0	9	0	0	0	0	22	0	5	7	0

Level Of Service Computation Report
1997 HCM 4-Way Stop (Future Volume Alternative)
AM Peak

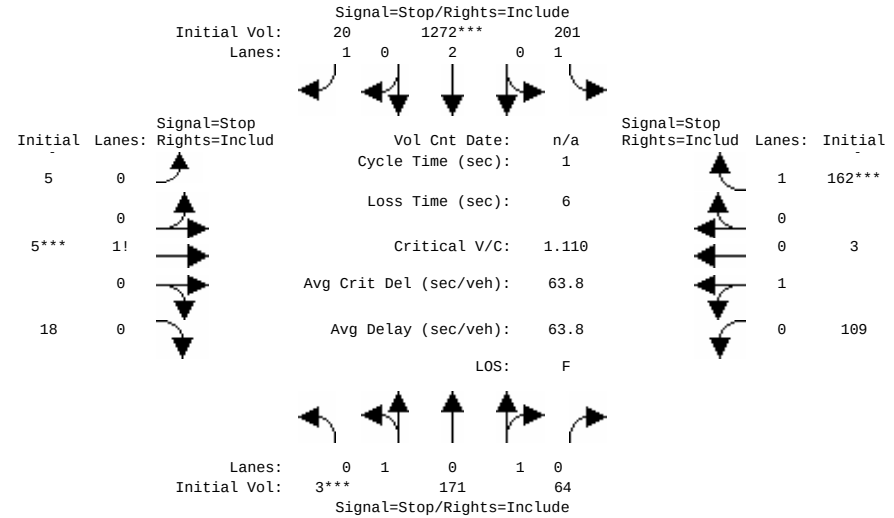
Intersection #7: Moffett-Clark/Moffett Extension



Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	7	10	10	7	10	10	7	10	10	7	10	10
Volume Module:												
Base Vol:	3	139	49	171	739	20	5	5	18	99	3	143
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:	3	139	49	171	739	20	5	5	18	99	3	143
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:	3	139	49	171	739	20	5	5	18	99	3	143
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:	3	139	49	171	739	20	5	5	18	99	3	143
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	3	139	49	171	739	20	5	5	18	99	3	143
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 Vol.:	3	139	49	171	739	20	5	5	18	99	3	143
Saturation Flow Module:												
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	0.03	1.46	0.51	1.00	2.00	1.00	0.18	0.18	0.64	0.97	0.03	1.00
Final Sat.:	16	778	284	552	1202	675	90	90	323	450	14	546
Capacity Analysis Module:												
Vol/Sat:	0.18	0.18	0.17	0.31	0.61	0.03	0.06	0.06	0.06	0.22	0.22	0.26
Crit Moves:	****	****	****	****	****	****	****	****	****	****	****	****
Delay/Veh:	10.6	10.4	10.0	11.9	17.4	8.1	10.1	10.1	10.1	12.1	12.1	11.0
Delay Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	10.6	10.4	10.0	11.9	17.4	8.1	10.1	10.1	10.1	12.1	12.1	11.0
LOS by Move:	B	B	B	B	C	A	B	B	B	B	B	B
ApproachDel:	10.3			16.2			10.1			11.4		
Delay Adj:	1.00			1.00			1.00			1.00		
ApprAdjDel:	10.3			16.2			10.1			11.4		
LOS by Appr:	B			C			B			B		

Level Of Service Computation Report
1997 HCM 4-Way Stop (Future Volume Alternative)
AM 2013 Project Alt.1

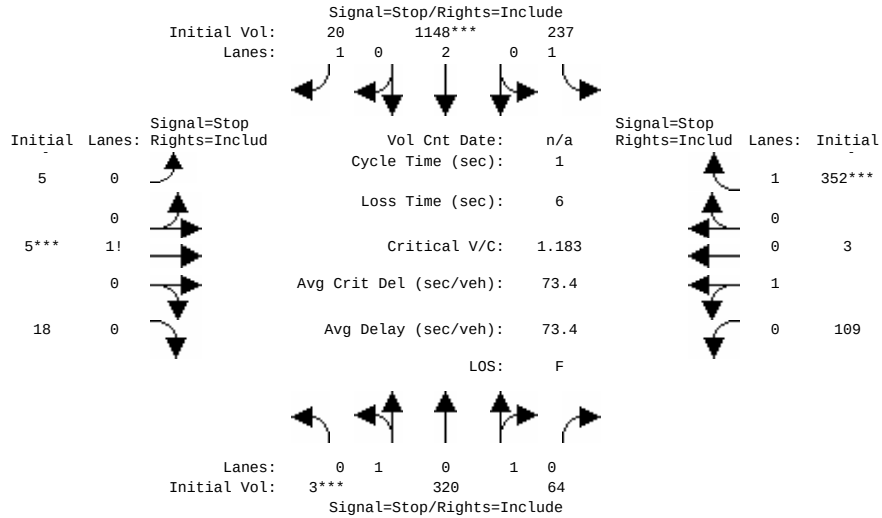
Intersection #7: Moffett-Clark/Moffett Extension



Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	7	10	10	7	10	10	7	10	10	7	10	10
Volume Module:												
Base Vol:	3	139	49	171	739	20	5	5	18	99	3	143
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:	3	139	49	171	739	20	5	5	18	99	3	143
Added Vol:	0	48	0	0	549	0	0	0	0	0	0	0
Approved Pr:	0	-16	15	30	-16	0	0	0	0	10	0	19
Initial Fut:	3	171	64	201	1272	20	5	5	18	109	3	162
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:	3	171	64	201	1272	20	5	5	18	109	3	162
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	3	171	64	201	1272	20	5	5	18	109	3	162
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 Vol.:	3	171	64	201	1272	20	5	5	18	109	3	162
Saturation Flow Module:												
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	0.02	1.44	0.54	1.00	2.00	1.00	0.18	0.18	0.64	0.97	0.03	1.00
Final Sat.:	12	711	276	526	1146	638	86	86	310	425	12	511
Capacity Analysis Module:												
Vol/Sat:	0.24	0.24	0.23	0.38	1.11	0.03	0.06	0.06	0.06	0.26	0.26	0.32
Crit Moves:	****	****	****	****	****	****	****	****	****	****	****	****
Delay/Veh:	12.3	12.1	11.6	13.5	94.5	8.5	10.7	10.7	10.7	13.5	13.5	12.7
Delay Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	12.3	12.1	11.6	13.5	94.5	8.5	10.7	10.7	10.7	13.5	13.5	12.7
LOS by Move:	B	B	B	B	F	A	B	B	B	B	B	B
ApproachDel:	11.9			82.4			10.7			13.1		
Delay Adj:	1.00			1.00			1.00			1.00		
ApprAdjDel:	11.9			82.4			10.7			13.1		
LOS by Appr:	B			F			B			B		

Level Of Service Computation Report
1997 HCM 4-Way Stop (Future Volume Alternative)
AM 2013 Project Alt. 5

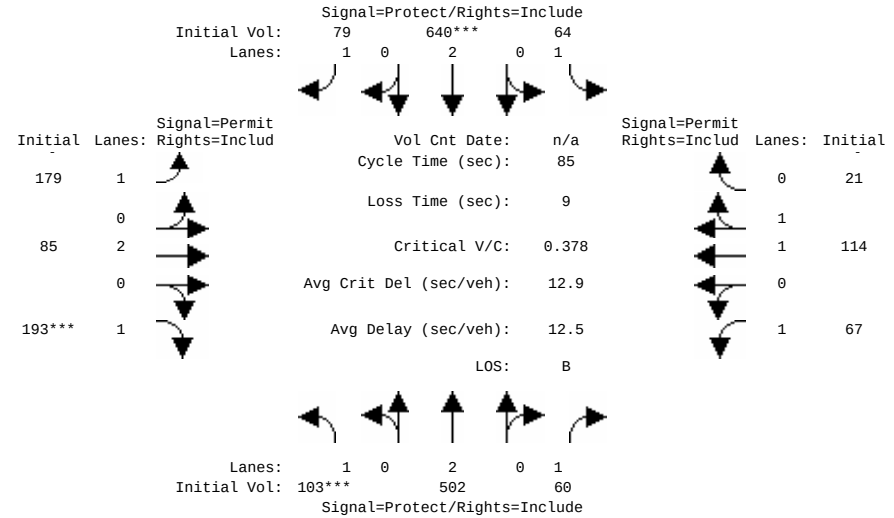
Intersection #7: Moffett-Clark/Moffett Extension



Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	7	10	10	7	10	10	7	10	10	7	10	10
Volume Module:												
Base Vol:	3	139	49	171	739	20	5	5	18	99	3	143
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:	3	139	49	171	739	20	5	5	18	99	3	143
Added Vol:	0	197	0	36	425	0	0	0	0	0	0	190
Approved Pr:	0	-16	15	30	-16	0	0	0	0	10	0	19
Initial Fut:	3	320	64	237	1148	20	5	5	18	109	3	352
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:	3	320	64	237	1148	20	5	5	18	109	3	352
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	3	320	64	237	1148	20	5	5	18	109	3	352
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 Vol.:	3	320	64	237	1148	20	5	5	18	109	3	352
Saturation Flow Module:												
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	0.02	1.65	0.33	1.00	2.00	1.00	0.18	0.18	0.64	0.97	0.03	1.00
Final Sat.:	7	736	150	449	970	527	74	74	268	404	11	485
Capacity Analysis Module:												
Vol/Sat:	0.44	0.44	0.43	0.53	1.18	0.04	0.07	0.07	0.07	0.27	0.27	0.73
Crit Moves:	****	****	****	****	****	****	****	****	****	****	****	****
Delay/Veh:	16.7	16.5	16.0	18.9	126	9.7	11.8	11.8	11.8	14.3	14.3	26.8
Delay Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	16.7	16.5	16.0	18.9	126	9.7	11.8	11.8	11.8	14.3	14.3	26.8
LOS by Move:	C	C	C	F	A	B	B	B	B	B	D	D
ApproachDel:	16.4			106.7			11.8			23.8		
Delay Adj:	1.00			1.00			1.00			1.00		
ApprAdjDel:	16.4			106.7			11.8			23.8		
LOS by Appr:	C			F			B			C		

Level Of Service Computation Report
1985 HCM Operations (Future Volume Alternative)
AM Peak

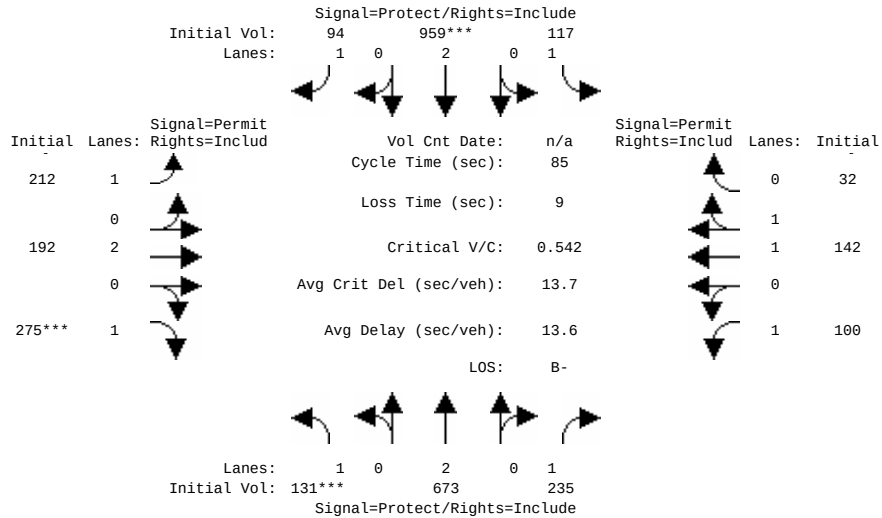
Intersection #8: Whisman/Middlefield



Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	7	10	10	7	10	10	10	10	10	10	10	10
Volume Module:												
Base Vol:	103	502	60	64	640	79	179	85	193	67	114	21
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:	103	502	60	64	640	79	179	85	193	67	114	21
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:	103	502	60	64	640	79	179	85	193	67	114	21
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:	103	502	60	64	640	79	179	85	193	67	114	21
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	103	502	60	64	640	79	179	85	193	67	114	21
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 Vol.:	103	502	60	64	640	79	179	85	193	67	114	21
Saturation Flow Module:												
Sat/Lane:	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
Adjustment:	0.97	1.06	0.97	0.97	1.06	0.97	0.97	1.06	0.97	0.97	1.03	1.00
Lanes:	1.00	2.00	1.00	1.00	2.00	1.00	1.00	2.00	1.00	1.00	1.68	0.32
Final Sat.:	1750	3800	1750	1750	3800	1750	1750	3800	1750	1750	3124	575
Capacity Analysis Module:												
Vol/Sat:	0.06	0.13	0.03	0.04	0.17	0.05	0.10	0.02	0.11	0.04	0.04	0.04
Crit Moves:	****	****	****	****	****	****	****	****	****	****	****	****
Green Time:	13.3	44.2	44.2	7.0	37.9	37.9	24.8	24.8	24.8	24.8	24.8	24.8
Volume/Cap:	0.38	0.25	0.07	0.44	0.38	0.10	0.35	0.08	0.38	0.13	0.12	0.12
Delay/Veh:	24.9	8.6	7.7	29.7	12.0	10.4	18.2	16.6	18.4	16.8	16.8	16.8
Delay Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
ProgAdjFctr:	1.00	0.85	0.85	1.00	0.85	0.85	1.00	0.85	0.85	1.00	0.85	0.85
AdjDel/Veh:	24.9	7.3	6.6	29.7	10.2	8.8	18.2	14.1	15.7	16.8	14.3	14.3
DesignQueue:	4	12	1	3	18	2	6	3	7	2	4	1

Level Of Service Computation Report
1985 HCM Operations (Future Volume Alternative)
AM 2013 Project Alt.1

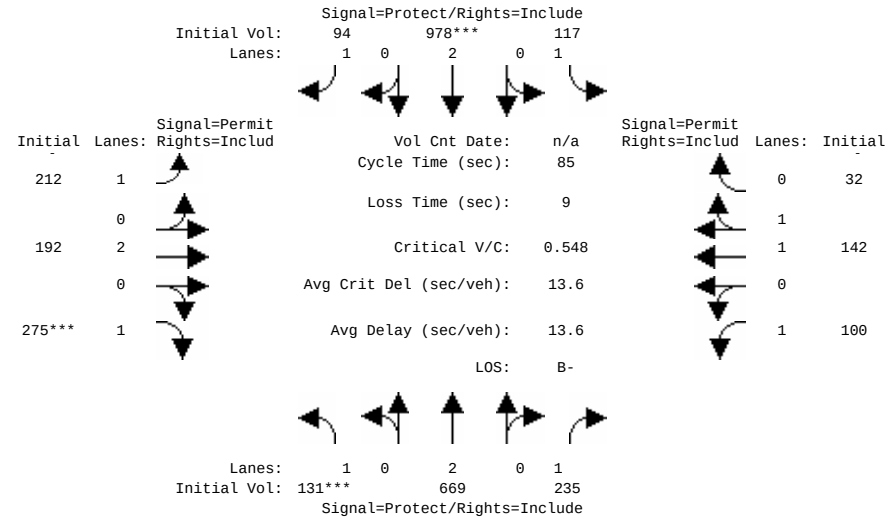
Intersection #8: Whisman/Middlefield



Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	7	10	10	7	10	10	10	10	10	10	10	10
Volume Module:												
Base Vol:	103	502	60	64	640	79	179	85	193	67	114	21
Growth Adj:	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18
Initial Bse:	122	594	71	76	758	94	212	101	228	79	135	25
Added Vol:	0	27	0	0	2	0	0	0	0	0	0	0
Approved Pr:	9	52	164	41	199	0	0	91	47	21	7	7
Initial Fut:	131	673	235	117	959	94	212	192	275	100	142	32
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:	131	673	235	117	959	94	212	192	275	100	142	32
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	131	673	235	117	959	94	212	192	275	100	142	32
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 Vol.:	131	673	235	117	959	94	212	192	275	100	142	32
Saturation Flow Module:												
Sat/Lane:	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
Adjustment:	0.97	1.06	0.97	0.97	1.06	0.97	0.97	1.06	0.97	0.97	1.03	1.00
Lanes:	1.00	2.00	1.00	1.00	2.00	1.00	1.00	2.00	1.00	1.00	1.62	0.38
Final Sat.:	1750	3800	1750	1750	3800	1750	1750	3800	1750	1750	3021	678
Capacity Analysis Module:												
Vol/Sat:	0.07	0.18	0.13	0.07	0.25	0.05	0.12	0.05	0.16	0.06	0.05	0.05
Crit Moves:	****	****	****	****	****	****	****	****	****	****	****	****
Green Time:	11.7	44.3	44.3	7.0	39.6	39.6	24.7	24.7	24.7	24.7	24.7	24.7
Volume/Cap:	0.54	0.34	0.26	0.81	0.54	0.11	0.42	0.17	0.54	0.20	0.16	0.16
Delay/Veh:	27.8	9.0	8.6	47.9	12.6	9.7	18.8	17.1	20.2	17.3	17.1	17.1
Delay Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
ProgAdjFctr:	1.00	0.85	0.85	1.00	0.85	0.85	1.00	0.85	0.85	1.00	0.85	0.85
AdjDel/Veh:	27.8	7.7	7.3	47.9	10.7	8.3	18.8	14.6	17.2	17.3	14.5	14.5
DesignQueue:	5	16	5	5	26	2	7	7	10	3	5	1

Level Of Service Computation Report
1985 HCM Operations (Future Volume Alternative)
AM 2013 Project Alt. 5

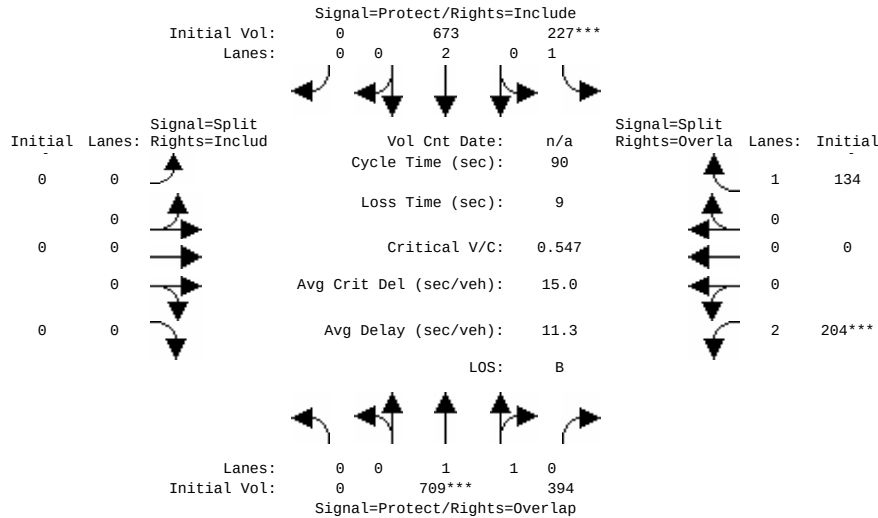
Intersection #8: Whisman/Middlefield



Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	7	10	10	7	10	10	10	10	10	10	10	10
Volume Module:												
Base Vol:	103	502	60	64	640	79	179	85	193	67	114	21
Growth Adj:	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18
Initial Bse:	122	594	71	76	758	94	212	101	228	79	135	25
Added Vol:	0	23	0	0	21	0	0	0	0	0	0	0
Approved Pr:	9	52	164	41	199	0	0	91	47	21	7	7
Initial Fut:	131	669	235	117	978	94	212	192	275	100	142	32
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:	131	669	235	117	978	94	212	192	275	100	142	32
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	131	669	235	117	978	94	212	192	275	100	142	32
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 Vol.:	131	669	235	117	978	94	212	192	275	100	142	32
Saturation Flow Module:												
Sat/Lane:	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
Adjustment:	0.97	1.06	0.97	0.97	1.06	0.97	0.97	1.06	0.97	0.97	1.03	1.00
Lanes:	1.00	2.00	1.00	1.00	2.00	1.00	1.00	2.00	1.00	1.00	1.62	0.38
Final Sat.:	1750	3800	1750	1750	3800	1750	1750	3800	1750	1750	3021	678
Capacity Analysis Module:												
Vol/Sat:	0.07	0.18	0.13	0.07	0.26	0.05	0.12	0.05	0.16	0.06	0.05	0.05
Crit Moves:	****	****	****	****	****	****	****	****	****	****	****	****
Green Time:	11.6	44.6	44.6	7.0	39.9	39.9	24.4	24.4	24.4	24.4	24.4	24.4
Volume/Cap:	0.55	0.34	0.26	0.81	0.55	0.11	0.42	0.18	0.55	0.20	0.16	0.16
Delay/Veh:	28.0	8.9	8.5	47.9	12.5	9.6	19.0	17.3	20.4	17.4	17.2	17.2
Delay Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
ProgAdjFctr:	1.00	0.85	0.85	1.00	0.85	0.85	1.00	0.85	0.85	1.00	0.85	0.85
AdjDel/Veh:	28.0	7.6	7.2	47.9	10.6	8.2	19.0	14.7	17.4	17.4	14.6	14.6
DesignQueue:	5	16	5	5	26	2	7	7	10	3	5	1

Level Of Service Computation Report
1985 HCM Operations (Future Volume Alternative)
AM Peak

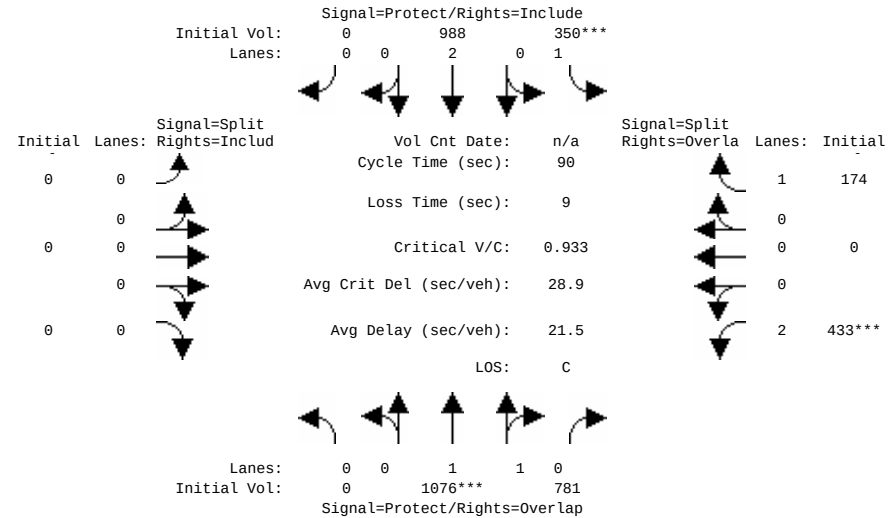
Intersection #9: Ellis/Middlefield



Approach:	North Bound				South Bound				East Bound				West Bound			
Movement:	L	T	R		L	T	R		L	T	R		L	T	R	
Min. Green:	0	10	10		7	10	0		0	0	0		7	0	10	
Volume Module:																
Base Vol:	0	709	394		227	673	0		0	0	0		204	0	134	
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	709	394		227	673	0		0	0	0		204	0	134	
Added Vol:	0	0	0		0	0	0		0	0	0		0	0	0	
PasserByVol:	0	0	0		0	0	0		0	0	0		0	0	0	
Initial Fut:	0	709	394		227	673	0		0	0	0		204	0	134	
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	709	394		227	673	0		0	0	0		204	0	134	
Reduct Vol:	0	0	0		0	0	0		0	0	0		0	0	0	
Reduced Vol:	0	709	394		227	673	0		0	0	0		204	0	134	
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 Vol.:	0	709	394		227	673	0		0	0	0		204	0	134	
Saturation Flow Module:																
Sat/Lane:	1800	1800	1800		1800	1800	1800		1800	1800	1800		1800	1800	1800	
Adjustment:	0.97	1.04	1.00		0.97	1.06	0.97		0.97	1.06	0.97		0.88	1.06	0.97	
Lanes:	0.00	1.27	0.73		1.00	2.00	0.00		0.00	0.00	0.00		2.00	0.00	1.00	
Final Sat.:	0	2377	1321		1750	3800	0		0	0	0		3150	0	1750	
Capacity Analysis Module:																
Vol/Sat:	0.00	0.30	0.30		0.13	0.18	0.00		0.00	0.00	0.00		0.06	0.00	0.08	
Crit Moves:	0.00	0.30	0.30		0.13	0.18	0.00		0.00	0.00	0.00		0.06	0.00	0.08	
Green Time:	0.00	49.0	59.7		21.3	70.4	0.0		0.0	0.0	0.0		10.6	0.0	32.0	
Volume/Cap:	0.00	0.55	0.45		0.55	0.23	0.00		0.00	0.00	0.00		0.55	0.00	0.22	
Delay/Veh:	0.00	10.3	5.6		24.1	2.0	0.0		0.0	0.0	0.0		29.7	0.0	15.4	
Delay Adj:	1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00	
ProgAdjFctr:	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	10.3	5.6		24.1	2.0	0.0		0.0	0.0	0.0		29.7	0.0	15.4	
DesignQueue:	0	17	7		9	8	0		0	0	0		9	0	4	

Level Of Service Computation Report
1985 HCM Operations (Future Volume Alternative)
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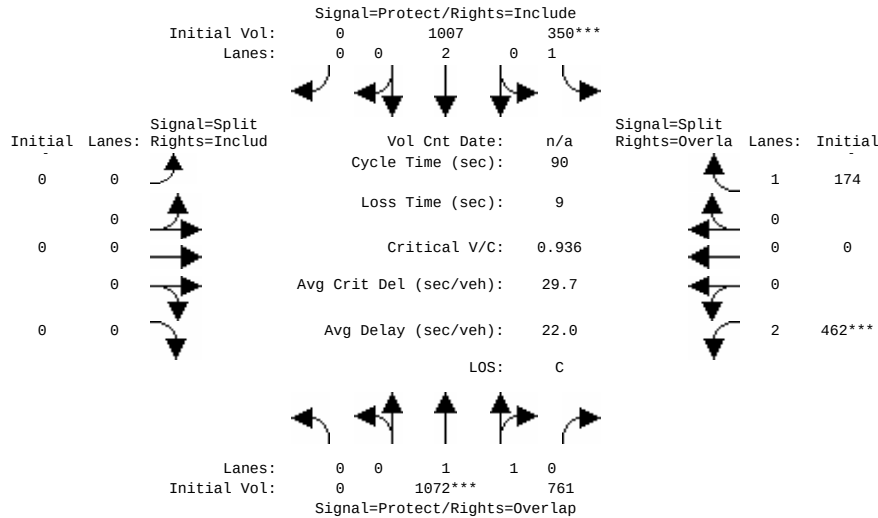
Intersection #9: Ellis/Middlefield



Approach:	North Bound				South Bound				East Bound				West Bound			
Movement:	L	T	R		L	T	R		L	T	R		L	T	R	
Min. Green:	0	10	10		7	10	0		0	0	0		7	0	10	
Volume Module:																
Base Vol:	0	709	394		227	673	0		0	0	0		204	0	134	
Growth Adj:	1.18	1.18	1.18		1.18	1.18	1.18		1.18	1.18	1.18		1.18	1.18	1.18	
Initial Bse:	0	839	466		269	797	0		0	0	0		242	0	159	
Added Vol:	0	27	91		0	2	0		0	0	0		8	0	0	
Approved Pr:	0	210	224		81	189	0		0	0	0		183	0	15	
Initial Fut:	0	1076	781		350	988	0		0	0	0		433	0	174	
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	1076	781		350	988	0		0	0	0		433	0	174	
Reduct Vol:	0	0	0		0	0	0		0	0	0		0	0	0	
Reduced Vol:	0	1076	781		350	988	0		0	0	0		433	0	174	
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 Vol.:	0	1076	781		350	988	0		0	0	0		433	0	174	
Saturation Flow Module:																
Sat/Lane:	1800	1800	1800		1800	1800	1800		1800	1800	1800		1800	1800	1800	
Adjustment:	0.97	1.05	1.00		0.97	1.06	0.97		0.97	1.06	0.97		0.88	1.06	0.97	
Lanes:	0.00	1.14	0.86		1.00	2.00	0.00		0.00	0.00	0.00		2.00	0.00	1.00	
Final Sat.:	0	2143	1555		1750	3800	0		0	0	0		3150	0	1750	
Capacity Analysis Module:																
Vol/Sat:	0.00	0.50	0.50		0.20	0.26	0.00		0.00	0.00	0.00		0.14	0.00	0.10	
Crit Moves:	0.00	0.50	0.50		0.20	0.26	0.00		0.00	0.00	0.00		0.14	0.00	0.10	
Green Time:	0.00	48.5	61.7		19.3	67.8	0.0		0.0	0.0	0.0		13.2	0.0	32.5	
Volume/Cap:	0.00	0.93	0.73		0.93	0.35	0.00		0.00	0.00	0.00		0.93	0.00	0.27	
Delay/Veh:	0.00	21.0	7.6		48.0	2.9	0.0		0.0	0.0	0.0		47.6	0.0	15.5	
Delay Adj:	1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00	
ProgAdjFctr:	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	21.0	7.6		48.0	2.9	0.0		0.0	0.0	0.0		47.6	0.0	15.5	
DesignQueue:	0	29	14		14	13	0		0	0	0		19	0	6	

Level Of Service Computation Report
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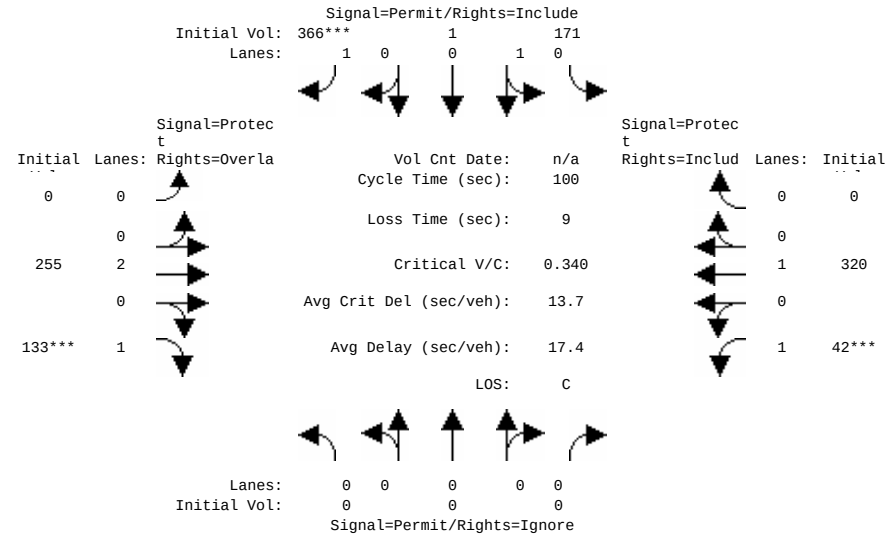
Intersection #9: Ellis/Middlefield



Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	0	10	10	7	10	0	0	0	0	7	0	10
Volume Module:												
Base Vol:	0	709	394	227	673	0	0	0	0	204	0	134
Growth Adj:	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18
Initial Bse:	0	839	466	269	797	0	0	0	0	242	0	159
Added Vol:	0	23	71	0	21	0	0	0	0	37	0	0
Approved Pr:	0	210	224	81	189	0	0	0	0	183	0	15
Initial Fut:	0	1072	761	350	1007	0	0	0	0	462	0	174
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	1072	761	350	1007	0	0	0	0	462	0	174
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	0	1072	761	350	1007	0	0	0	0	462	0	174
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 Vol:	0	1072	761	350	1007	0	0	0	0	462	0	174
Saturation Flow Module:												
Sat/Lane:	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
Adjustment:	0.97	1.05	1.00	0.97	1.06	0.97	0.97	1.06	0.97	0.88	1.06	0.97
Lanes:	0.00	1.15	0.85	1.00	2.00	0.00	0.00	0.00	0.00	2.00	0.00	1.00
Final Sat:	0	2163	1536	1750	3800	0	0	0	0	3150	0	1750
Capacity Analysis Module:												
Vol/Sat:	0.00	0.50	0.50	0.20	0.26	0.00	0.00	0.00	0.00	0.15	0.00	0.10
Crit Moves:	****											
Green Time:	0.0	47.7	61.8	19.2	66.9	0.0	0.0	0.0	0.0	14.1	0.0	33.3
Volume/Cap:	0.00	0.94	0.72	0.94	0.36	0.00	0.00	0.00	0.00	0.94	0.00	0.27
Delay/Veh:	0.0	21.7	7.4	48.6	3.1	0.0	0.0	0.0	0.0	46.9	0.0	15.1
Delay Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
ProgAdjFctr:	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	21.7	7.4	48.6	3.1	0.0	0.0	0.0	0.0	46.9	0.0	15.1
DesignQueue:	0	29	14	14	14	0	0	0	0	20	0	6

Level Of Service Computation Report
1985 HCM Operations (Future Volume Alternative)
AM Peak

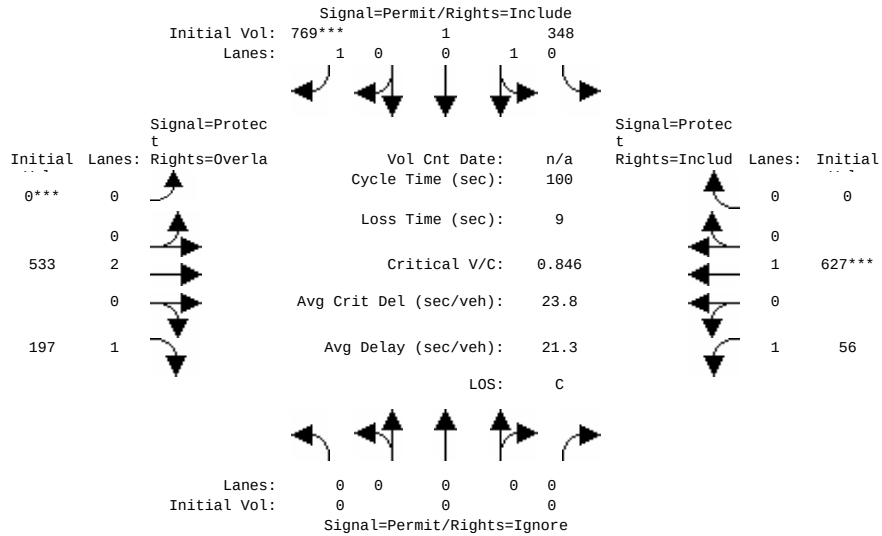
Intersection #10: Ellis/101 SB Ramps



Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	0	0	0	10	10	10	0	10	10	7	10	0
Volume Module:												
Base Vol:	0	0	0	171	1	366	0	255	133	42	320	0
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	0	0	0	171	1	366	0	255	133	42	320	0
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	0	0	0	171	1	366	0	255	133	42	320	0
User Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	0	0	0	171	1	366	0	255	133	42	320	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	0	0	0	171	1	366	0	255	133	42	320	0
PCE Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Final Vol:	0	0	0	171	1	366	0	255	133	42	320	0
Saturation Flow Module:												
Sat/Lane:	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
Adjustment:	0.97	1.06	0.97	1.00	1.00	0.97	0.97	1.06	0.97	0.97	1.06	0.97
Lanes:	0.00	0.00	0.00	0.99	0.01	1.00	0.00	2.00	1.00	1.00	1.00	0.00
Final Sat:	0	0	0	1790	10	1750	0	3800	1750	1750	1900	0
Capacity Analysis Module:												
Vol/Sat:	0.00	0.00	0.00	0.10	0.10	0.21	0.00	0.07	0.08	0.02	0.17	0.00
Crit Moves:	****											
Green Time:	0.0	0.0	0.0	61.6	61.6	61.6	0.0	22.4	22.4	7.1	29.4	0.0
Volume/Cap:	0.00	0.00	0.00	0.16	0.16	0.34	0.00	0.30	0.34	0.34	0.57	0.00
Delay/Veh:	0.0	0.0	0.0	6.2	6.2	7.2	0.0	24.6	25.0	34.3	23.8	0.0
Delay Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
ProgAdjFctr:	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	6.2	6.2	7.2	0.0	24.6	25.0	34.3	23.8	0.0
DesignQueue:	0	0	0	4	0	8	0	11	6	2	13	0

Level Of Service Computation Report
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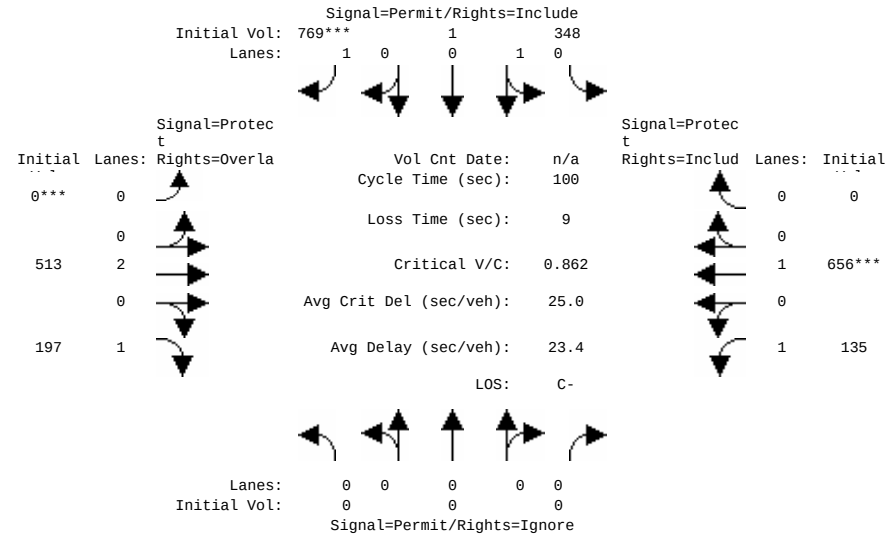
Intersection #10: Ellis/101 SB Ramps



Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	0	0	0	10	10	10	0	10	10	7	10	0
Volume Module:												
Base Vol:	0	0	0	171	1	366	0	255	133	42	320	0
Growth Adj:	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18
Initial Bse:	0	0	0	202	1	433	0	302	157	50	379	0
Added Vol:	0	0	0	0	0	0	0	91	0	15	8	0
Approved Pr:	0	0	0	146	0	336	0	140	40	-9	240	0
Initial Fut:	0	0	0	348	1	769	0	533	197	56	627	0
User Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	0	0	0	348	1	769	0	533	197	56	627	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	0	0	0	348	1	769	0	533	197	56	627	0
PCE Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Final Vol.:	0	0	0	348	1	769	0	533	197	56	627	0
Saturation Flow Module:												
Sat/Lane:	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
Adjustment:	0.97	1.06	0.97	1.00	1.00	0.97	0.97	1.06	0.97	0.97	1.06	0.97
Lanes:	0.00	0.00	0.00	0.00	0.99	0.01	1.00	0.00	2.00	1.00	1.00	0.00
Final Sat.:	0	0	0	1794	6	1750	0	3800	1750	1750	1900	0
Capacity Analysis Module:												
Vol/Sat:	0.00	0.00	0.00	0.19	0.19	0.44	0.00	0.14	0.11	0.03	0.33	0.00
Crit Moves:												
Green Time:	0.0	0.0	0.0	52.0	52.0	52.0	0.0	32.0	32.0	7.0	39.0	0.0
Volume/Cap:	0.00	0.00	0.00	0.37	0.37	0.85	0.00	0.44	0.35	0.45	0.85	0.00
Delay/Veh:	0.0	0.0	0.0	11.0	11.0	20.9	0.0	20.6	20.9	35.8	27.4	0.0
Delay Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
ProgAdjFctr:	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	11.0	11.0	20.9	0.0	20.6	20.9	35.8	27.4	0.0
DesignQueue:	0	0	0	10	0	23	0	21	8	3	23	0

Level Of Service Computation Report
1985 HCM Operations (Future Volume Alternative)
AM 2013 Project Alt. 5

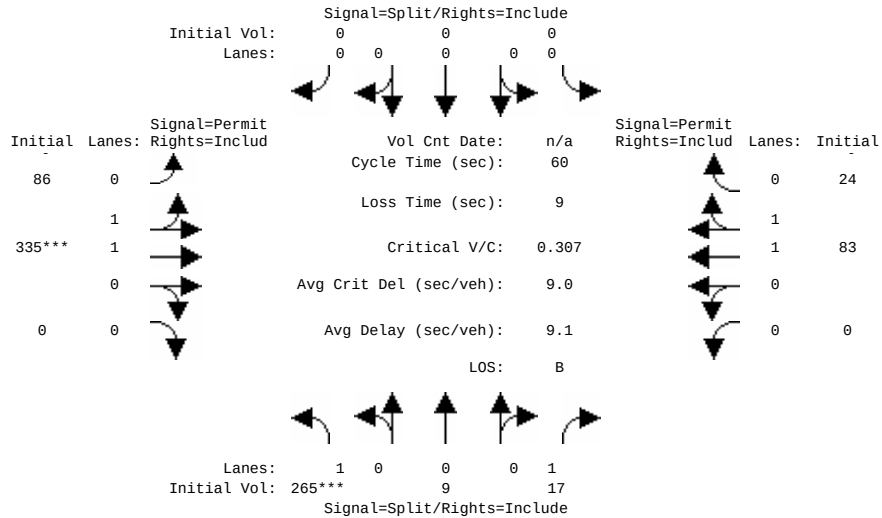
Intersection #10: Ellis/101 SB Ramps



Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	0	0	0	10	10	10	0	10	10	7	10	0
Volume Module:												
Base Vol:	0	0	0	171	1	366	0	255	133	42	320	0
Growth Adj:	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18
Initial Bse:	0	0	0	202	1	433	0	302	157	50	379	0
Added Vol:	0	0	0	0	0	0	0	71	0	94	37	0
Approved Pr:	0	0	0	146	0	336	0	140	40	-9	240	0
Initial Fut:	0	0	0	348	1	769	0	513	197	135	656	0
User Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	0	0	0	348	1	769	0	513	197	135	656	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	0	0	0	348	1	769	0	513	197	135	656	0
PCE Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Final Vol.:	0	0	0	348	1	769	0	513	197	135	656	0
Saturation Flow Module:												
Sat/Lane:	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
Adjustment:	0.97	1.06	0.97	1.00	1.00	0.97	0.97	1.06	0.97	0.97	1.06	0.97
Lanes:	0.00	0.00	0.00	0.00	0.99	0.01	1.00	0.00	2.00	1.00	1.00	0.00
Final Sat.:	0	0	0	1794	6	1750	0	3800	1750	1750	1900	0
Capacity Analysis Module:												
Vol/Sat:	0.00	0.00	0.00	0.19	0.19	0.44	0.00	0.13	0.11	0.08	0.35	0.00
Crit Moves:												
Green Time:	0.0	0.0	0.0	51.0	51.0	51.0	0.0	25.5	25.5	14.5	40.0	0.0
Volume/Cap:	0.00	0.00	0.00	0.38	0.38	0.86	0.00	0.53	0.44	0.53	0.86	0.00
Delay/Veh:	0.0	0.0	0.0	11.5	11.5	22.5	0.0	24.8	24.3	31.7	27.9	0.0
Delay Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
ProgAdjFctr:	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	11.5	11.5	22.5	0.0	24.8	24.3	31.7	27.9	0.0
DesignQueue:	0	0	0	10	0	23	0	22	8	7	24	0

Level Of Service Computation Report
1985 HCM Operations (Future Volume Alternative)
AM Peak

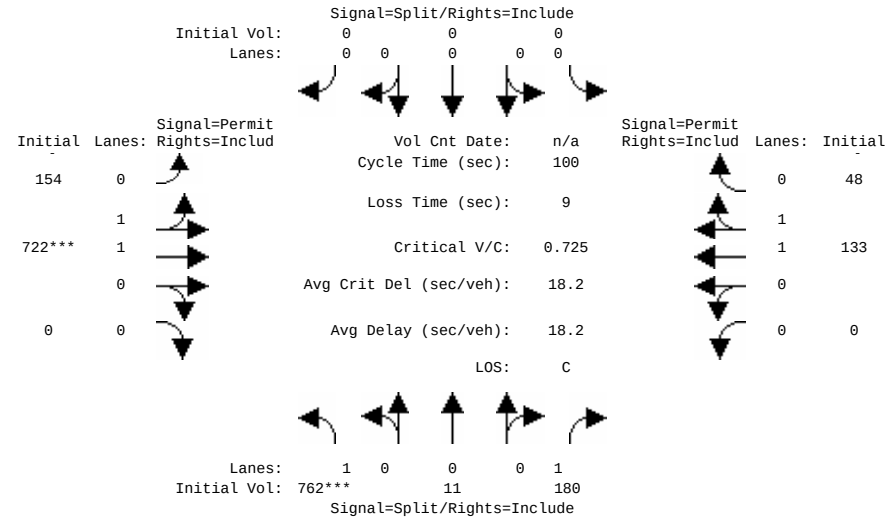
Intersection #11: Ellis/101 NB Ramps



Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	10	10	10	0	0	0	10	10	0	0	10	10
Volume Module:												
Base Vol:	265	9	17	0	0	0	86	335	0	0	83	24
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:	265	9	17	0	0	0	86	335	0	0	83	24
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:	265	9	17	0	0	0	86	335	0	0	83	24
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:	265	9	17	0	0	0	86	335	0	0	83	24
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	265	9	17	0	0	0	86	335	0	0	83	24
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 Vol.:	265	9	17	0	0	0	86	335	0	0	83	24
Saturation Flow Module:												
Sat/Lane:	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
Adjustment:	1.00	1.00	1.00	0.97	1.06	0.97	1.00	1.03	0.97	0.97	1.04	1.00
Lanes:	1.00	0.35	0.65	0.00	0.00	0.00	0.42	1.58	0.00	0.00	1.54	0.46
Final Sat.:	1800	623	1177	0	0	0	756	2944	0	0	2869	830
Capacity Analysis Module:												
Vol/Sat:	0.15	0.01	0.01	0.00	0.00	0.00	0.11	0.11	0.00	0.00	0.03	0.03
Crit Moves:	****						****					
Green Time:	28.8	28.8	28.8	0.0	0.0	0.0	22.2	22.2	0.0	0.0	22.2	22.2
Volume/Cap:	0.31	0.03	0.03	0.00	0.00	0.00	0.31	0.31	0.00	0.00	0.08	0.08
Delay/Veh:	7.3	6.3	6.3	0.0	0.0	0.0	10.2	10.2	0.0	0.0	9.3	9.3
Delay Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
ProgAdjFctr:	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:	7.3	6.3	6.3	0.0	0.0	0.0	10.2	10.2	0.0	0.0	9.3	9.3
DesignQueue:	5	0	0	0	0	0	2	7	0	0	2	1

Level Of Service Computation Report
1985 HCM Operations (Future Volume Alternative)
AM 2013 Project Alt.1

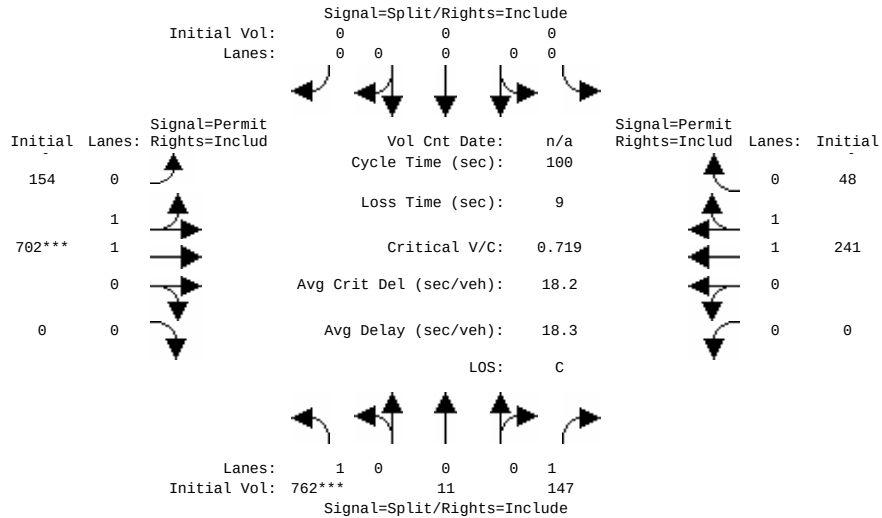
Intersection #11: Ellis/101 NB Ramps



Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	10	10	10	0	0	0	10	10	0	0	10	10
Volume Module:												
Base Vol:	265	9	17	0	0	0	86	335	0	0	83	24
Growth Adj:	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18
Initial Bse:	314	11	20	0	0	0	102	397	0	0	98	28
Added Vol:	0	0	174	0	0	0	0	91	0	0	23	0
Approved Pr:	448	0	-14	0	0	0	52	234	0	0	12	20
Initial Fut:	762	11	180	0	0	0	154	722	0	0	133	48
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:	762	11	180	0	0	0	154	722	0	0	133	48
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	762	11	180	0	0	0	154	722	0	0	133	48
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 Vol.:	762	11	180	0	0	0	154	722	0	0	133	48
Saturation Flow Module:												
Sat/Lane:	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
Adjustment:	1.00	1.00	1.00	0.97	1.06	0.97	1.00	1.03	0.97	0.97	1.04	1.00
Lanes:	1.00	0.06	0.94	0.00	0.00	0.00	0.36	1.64	0.00	0.00	1.45	0.55
Final Sat.:	1800	011	1699	0	0	0	650	3049	0	0	2713	986
Capacity Analysis Module:												
Vol/Sat:	0.42	0.11	0.11	0.00	0.00	0.00	0.24	0.24	0.00	0.00	0.05	0.05
Crit Moves:	****						****					
Green Time:	58.4	58.4	58.4	0.0	0.0	0.0	32.6	32.6	0.0	0.0	32.6	32.6
Volume/Cap:	0.73	0.18	0.18	0.00	0.00	0.00	0.73	0.73	0.00	0.00	0.15	0.15
Delay/Veh:	12.8	7.4	7.4	0.0	0.0	0.0	24.1	24.1	0.0	0.0	18.1	18.1
Delay Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
ProgAdjFctr:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	12.8	7.4	7.4	0.0	0.0	0.0	24.1	24.1	0.0	0.0	18.1	18.1
DesignQueue:	20	0	4	0	0	0	6	29	0	0	5	2

Level Of Service Computation Report
1985 HCM Operations (Future Volume Alternative)
AM 2013 Project Alt. 5

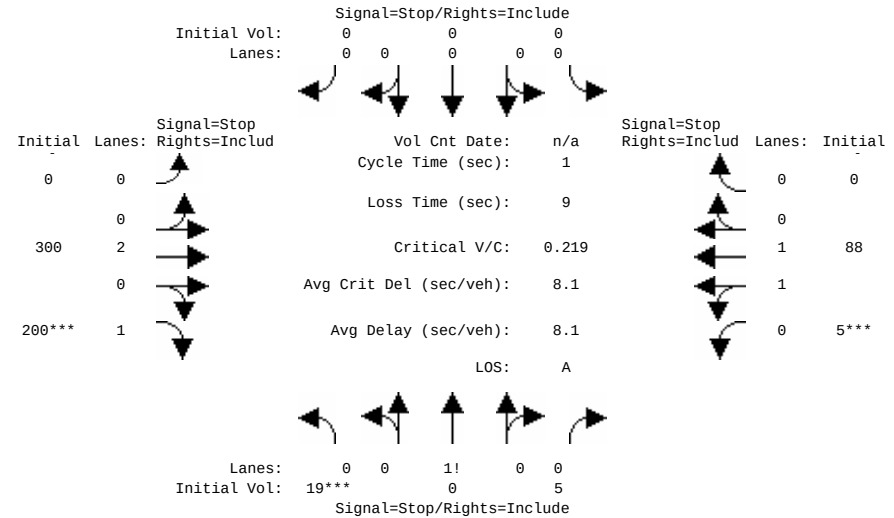
Intersection #11: Ellis/101 NB Ramps



Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	10	10	10	0	0	0	10	10	0	0	10	10
Volume Module:												
Base Vol:	265	9	17	0	0	0	86	335	0	0	83	24
Growth Adj:	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18
Initial Bse:	314	11	20	0	0	0	102	397	0	0	98	28
Added Vol:	0	0	141	0	0	0	0	71	0	0	131	0
Approved Pr:	448	0	-14	0	0	0	52	234	0	0	12	20
Initial Fut:	762	11	147	0	0	0	154	702	0	0	241	48
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:	762	11	147	0	0	0	154	702	0	0	241	48
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	762	11	147	0	0	0	154	702	0	0	241	48
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 Vol.:	762	11	147	0	0	0	154	702	0	0	241	48
Saturation Flow Module:												
Sat/Lane:	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
Adjustment:	1.00	1.00	1.00	0.97	1.06	0.97	1.00	1.03	0.97	0.97	1.03	1.00
Lanes:	1.00	0.07	0.93	0.00	0.00	0.00	0.37	1.63	0.00	0.00	1.66	0.34
Final Sat.:	1800	122	1678	0	0	0	665	3034	0	0	3081	618
Capacity Analysis Module:												
Vol/Sat:	0.42	0.09	0.09	0.00	0.00	0.00	0.23	0.23	0.00	0.00	0.08	0.08
Crit Moves:	****						****					
Green Time:	58.8	58.8	58.8	0.0	0.0	0.0	32.2	32.2	0.0	0.0	32.2	32.2
Volume/Cap:	0.72	0.15	0.15	0.00	0.00	0.00	0.72	0.72	0.00	0.00	0.24	0.24
Delay/Veh:	12.6	7.1	7.1	0.0	0.0	0.0	24.2	24.2	0.0	0.0	19.0	19.0
Delay Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
ProgAdjFctr:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	12.6	7.1	7.1	0.0	0.0	0.0	24.2	24.2	0.0	0.0	19.0	19.0
DesignQueue:	19	0	3	0	0	0	6	28	0	0	9	2

Level Of Service Computation Report
1997 HCM 4-Way Stop (Future Volume Alternative)
AM Peak

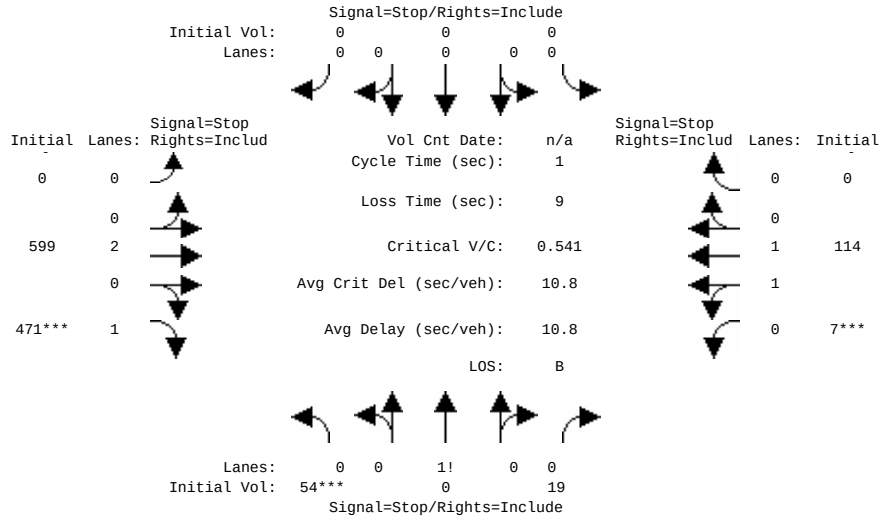
Intersection #12: Ellis/Manila



Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	7	10	10	7	10	10	7	10	10	7	10	10
Volume Module:												
Base Vol:	19	0	5	0	0	0	0	300	200	5	88	0
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	19	0	5	0	0	0	0	300	200	5	88	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:	19	0	5	0	0	0	0	300	200	5	88	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:	19	0	5	0	0	0	0	300	200	5	88	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	19	0	5	0	0	0	0	300	200	5	88	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 Vol.:	19	0	5	0	0	0	0	300	200	5	88	0
Saturation Flow Module:												
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	0.79	0.00	0.21	0.00	0.00	0.00	0.00	2.00	1.00	0.11	1.89	0.00
Final Sat.:	535	0	141	0	0	0	0	1548	912	76	1354	0
Capacity Analysis Module:												
Vol/Sat:	0.04	xxxx	0.04	xxxx	xxxx	xxxx	0.19	0.22	0.07	0.07	xxxx	
Crit Moves:	****						****					
Delay/Veh:	8.2	0.0	8.2	0.0	0.0	0.0	0.0	8.4	7.7	8.0	8.0	0.0
Delay Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	8.2	0.0	8.2	0.0	0.0	0.0	0.0	8.4	7.7	8.0	8.0	0.0
LOS by Move:	A	*	A	*	*	*	*	A	A	A	A	*
ApproachDel:	8.2			xxxxxx				8.1			8.0	
Delay Adj:	1.00			xxxxxx				1.00			1.00	
ApprAdjDel:	8.2			xxxxxx				8.1			8.0	
LOS by Appr:	A			*				A			A	

Level Of Service Computation Report
1997 HCM 4-Way Stop (Future Volume Alternative)
AM 2013 Project Alt.1

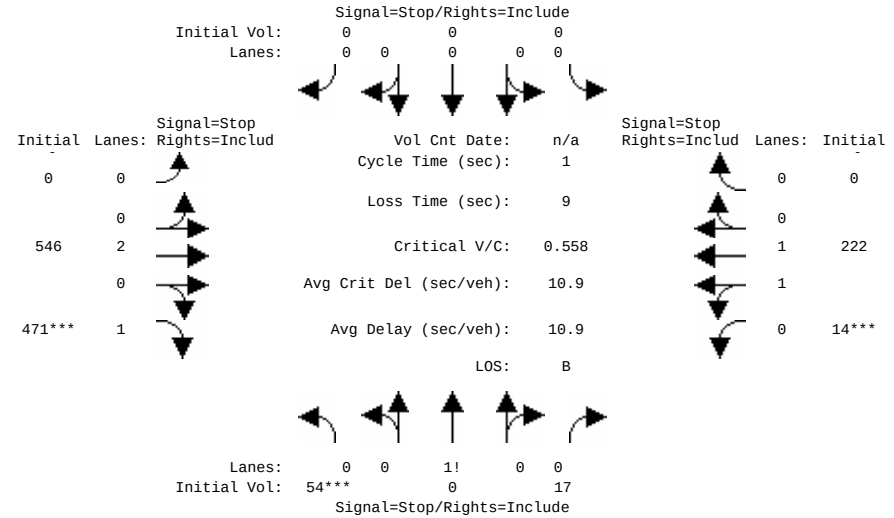
Intersection #12: Ellis/Manila



Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	7	10	10	7	10	10	7	10	10	7	10	10
Volume Module:												
Base Vol:	19	0	5	0	0	0	0	300	200	5	88	0
Growth Adj:	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18
Initial Bse:	22	0	6	0	0	0	0	355	237	6	104	0
Added Vol:	0	0	13	0	0	0	0	265	0	1	23	0
Approved Pr:	32	0	0	0	0	0	0	-21	234	0	-13	0
Initial Fut:	54	0	19	0	0	0	0	599	471	7	114	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:	54	0	19	0	0	0	0	599	471	7	114	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	54	0	19	0	0	0	0	599	471	7	114	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 Vol.:	54	0	19	0	0	0	0	599	471	7	114	0
Saturation Flow Module:												
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	0.74	0.00	0.26	0.00	0.00	0.00	0.00	2.00	1.00	0.11	1.89	0.00
Final Sat.:	455	0	158	0	0	0	0	1486	870	70	1161	0
Capacity Analysis Module:												
Vol/Sat:	0.12	xxxx	0.12	xxxx	xxxx	xxxx	0.40	0.54	0.10	0.10	xxxx	
Crit Moves:	***							***	***			
Delay/Veh:	9.3	0.0	9.3	0.0	0.0	0.0	0.0	10.7	11.5	9.0	9.0	0.0
Delay Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	9.3	0.0	9.3	0.0	0.0	0.0	0.0	10.7	11.5	9.0	9.0	0.0
LOS by Move:	A	*	A	*	*	*	*	B	B	A	A	*
ApproachDel:	9.3			xxxxxx				11.1		9.0		
Delay Adj:	1.00			xxxxxx				1.00		1.00		
ApprAdjDel:	9.3			xxxxxx				11.1		9.0		
LOS by Appr:	A			*				B		A		

Level Of Service Computation Report
1997 HCM 4-Way Stop (Future Volume Alternative)
AM 2013 Project Alt. 5

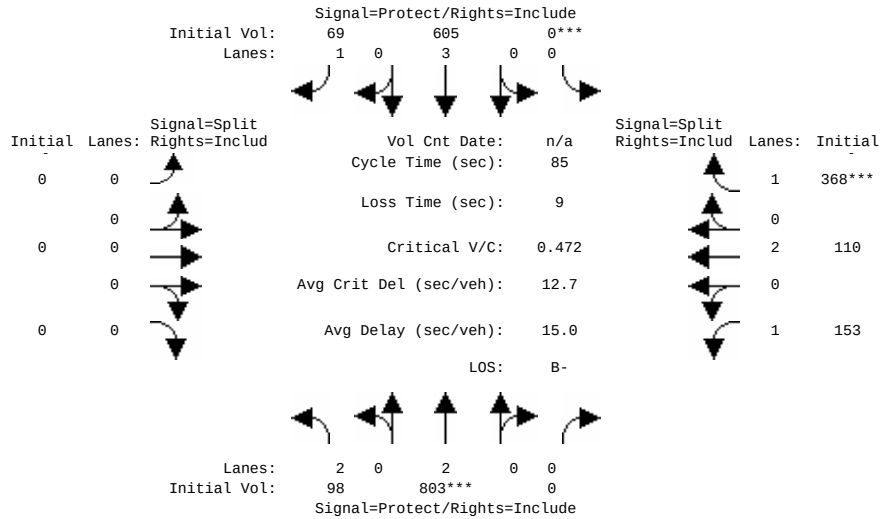
Intersection #12: Ellis/Manila



Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	7	10	10	7	10	10	7	10	10	7	10	10
Volume Module:												
Base Vol:	19	0	5	0	0	0	0	300	200	5	88	0
Growth Adj:	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18
Initial Bse:	22	0	6	0	0	0	0	355	237	6	104	0
Added Vol:	0	0	11	0	0	0	0	212	0	8	131	0
Approved Pr:	32	0	0	0	0	0	0	-21	234	0	-13	0
Initial Fut:	54	0	17	0	0	0	0	546	471	14	222	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:	54	0	17	0	0	0	0	546	471	14	222	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	54	0	17	0	0	0	0	546	471	14	222	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 Vol.:	54	0	17	0	0	0	0	546	471	14	222	0
Saturation Flow Module:												
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	0.76	0.00	0.24	0.00	0.00	0.00	0.00	2.00	1.00	0.12	1.88	0.00
Final Sat.:	449	0	140	0	0	0	0	1447	844	73	1168	0
Capacity Analysis Module:												
Vol/Sat:	0.12	xxxx	0.12	xxxx	xxxx	xxxx	0.38	0.56	0.19	0.19	xxxx	
Crit Moves:	***							***	***			
Delay/Veh:	9.5	0.0	9.5	0.0	0.0	0.0	0.0	10.6	12.1	9.7	9.6	0.0
Delay Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	9.5	0.0	9.5	0.0	0.0	0.0	0.0	10.6	12.1	9.7	9.6	0.0
LOS by Move:	A	*	A	*	*	*	*	B	B	A	A	*
ApproachDel:	9.5			xxxxxx				11.3		9.6		
Delay Adj:	1.00			xxxxxx				1.00		1.00		
ApprAdjDel:	9.5			xxxxxx				11.3		9.6		
LOS by Appr:	A			*				B		A		

Level Of Service Computation Report
1985 HCM Operations (Future Volume Alternative)
AM Peak

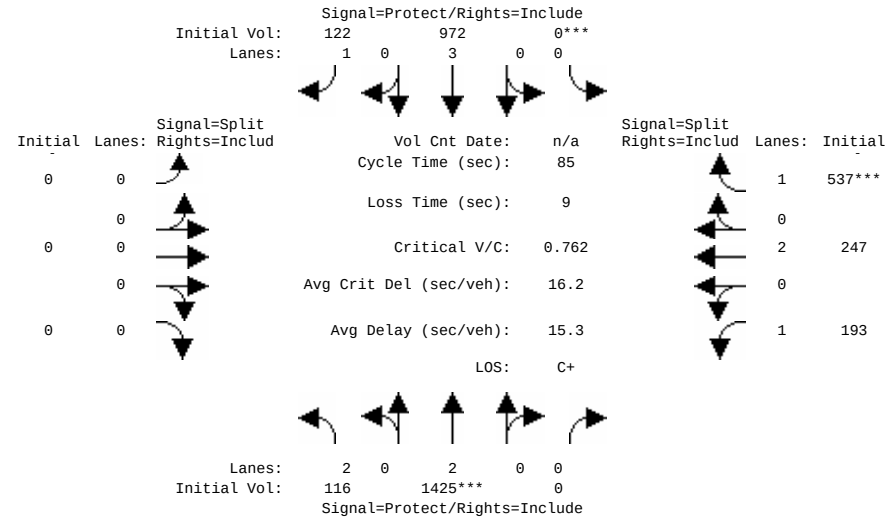
Intersection #13: 237 WB Ramps/Middlefield



Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	7	10	0	0	10	10	0	0	0	10	10	10
Volume Module:												
Base Vol:	98	803	0	0	605	69	0	0	0	153	110	368
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:	98	803	0	0	605	69	0	0	0	153	110	368
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:	98	803	0	0	605	69	0	0	0	153	110	368
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:	98	803	0	0	605	69	0	0	0	153	110	368
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	98	803	0	0	605	69	0	0	0	153	110	368
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 Vol.:	98	803	0	0	605	69	0	0	0	153	110	368
Saturation Flow Module:												
Sat/Lane:	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
Adjustment:	0.88	1.06	0.97	0.97	1.06	0.97	0.97	1.06	0.97	0.97	1.06	0.97
Lanes:	2.00	2.00	0.00	0.00	3.00	1.00	0.00	0.00	0.00	1.00	2.00	1.00
Final Sat.:	3150	3800	0	0	5700	1750	0	0	0	1750	3800	1750
Capacity Analysis Module:												
Vol/Sat:	0.03	0.21	0.00	0.00	0.11	0.04	0.00	0.00	0.00	0.09	0.03	0.21
Crit Moves:	****	****	****	****	****	****	****	****	****	****	****	****
Green Time:	15.7	38.1	0.0	0.0	22.4	22.4	0.0	0.0	0.0	37.9	37.9	37.9
Volume/Cap:	0.17	0.47	0.00	0.00	0.40	0.15	0.00	0.00	0.00	0.20	0.06	0.47
Delay/Veh:	22.2	12.6	0.0	0.0	19.7	18.2	0.0	0.0	0.0	10.9	10.2	12.9
Delay Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
ProgAdjFctr:	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:	22.2	12.6	0.0	0.0	19.7	18.2	0.0	0.0	0.0	10.9	10.2	12.9
DesignQueue:	4	22	0	0	22	2	0	0	0	4	3	10

Level Of Service Computation Report
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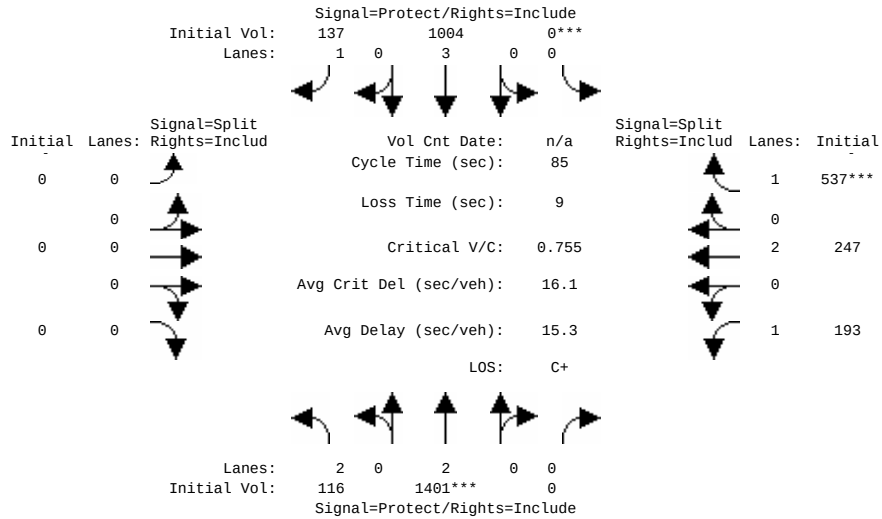
Intersection #13: 237 WB Ramps/Middlefield



Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	7	10	0	0	10	10	0	0	0	10	10	10
Volume Module:												
Base Vol:	98	803	0	0	605	69	0	0	0	153	110	368
Growth Adj:	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18
Initial Bse:	116	951	0	0	716	82	0	0	0	181	130	436
Added Vol:	0	118	0	0	6	5	0	0	0	0	0	0
Approved Pr:	0	356	0	0	250	35	0	0	0	12	117	101
Initial Fut:	116	1425	0	0	972	122	0	0	0	193	247	537
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:	116	1425	0	0	972	122	0	0	0	193	247	537
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	116	1425	0	0	972	122	0	0	0	193	247	537
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 Vol.:	116	1425	0	0	972	122	0	0	0	193	247	537
Saturation Flow Module:												
Sat/Lane:	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
Adjustment:	0.88	1.06	0.97	0.97	1.06	0.97	0.97	1.06	0.97	0.97	1.06	0.97
Lanes:	2.00	2.00	0.00	0.00	3.00	1.00	0.00	0.00	0.00	1.00	2.00	1.00
Final Sat.:	3150	3800	0	0	5700	1750	0	0	0	1750	3800	1750
Capacity Analysis Module:												
Vol/Sat:	0.04	0.37	0.00	0.00	0.17	0.07	0.00	0.00	0.00	0.11	0.07	0.31
Crit Moves:	****	****	****	****	****	****	****	****	****	****	****	****
Green Time:	7.0	41.8	0.0	0.0	34.8	34.8	0.0	0.0	0.0	34.2	34.2	34.2
Volume/Cap:	0.45	0.76	0.00	0.00	0.42	0.17	0.00	0.00	0.00	0.27	0.16	0.76
Delay/Veh:	29.1	14.7	0.0	0.0	13.7	12.1	0.0	0.0	0.0	13.0	12.3	20.1
Delay Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
ProgAdjFctr:	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:	29.1	14.7	0.0	0.0	13.7	12.1	0.0	0.0	0.0	13.0	12.3	20.1
DesignQueue:	5	38	0	0	28	3	0	0	0	6	7	16

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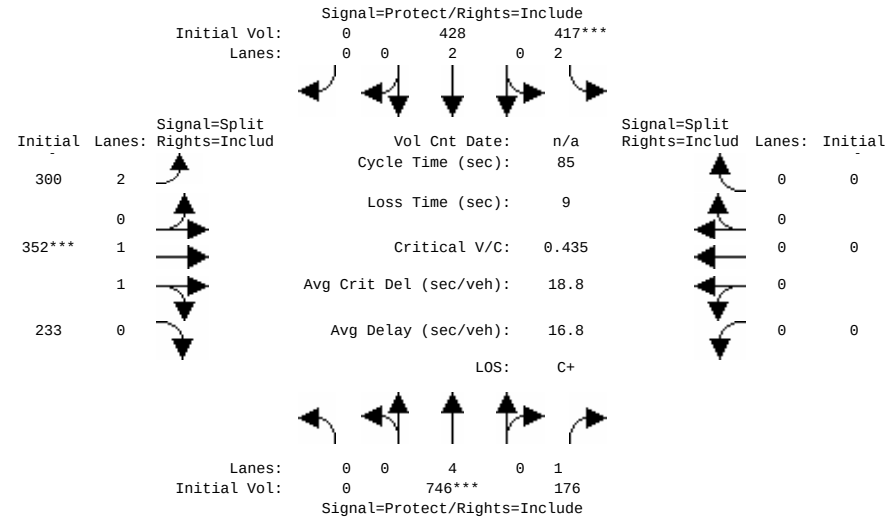
Intersection #13: 237 WB Ramps/Middlefield



Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	7	10	0	0	10	10	0	0	0	10	10	10
Volume Module:												
Base Vol:	98	803	0	0	605	69	0	0	0	153	110	368
Growth Adj:	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18
Initial Bse:	116	951	0	0	716	82	0	0	0	181	130	436
Added Vol:	0	94	0	0	38	20	0	0	0	0	0	0
Approved Pr:	0	356	0	0	250	35	0	0	0	12	117	101
Initial Fut:	116	1401	0	0	1004	137	0	0	0	193	247	537
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:	116	1401	0	0	1004	137	0	0	0	193	247	537
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	116	1401	0	0	1004	137	0	0	0	193	247	537
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 Vol.:	116	1401	0	0	1004	137	0	0	0	193	247	537
Saturation Flow Module:												
Sat/Lane:	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
Adjustment:	0.88	1.06	0.97	0.97	1.06	0.97	0.97	1.06	0.97	0.97	1.06	0.97
Lanes:	2.00	2.00	0.00	0.00	3.00	1.00	0.00	0.00	0.00	1.00	2.00	1.00
Final Sat.:	3150	3800	0	0	5700	1750	0	0	0	1750	3800	1750
Capacity Analysis Module:												
Vol/Sat:	0.04	0.37	0.00	0.00	0.18	0.08	0.00	0.00	0.00	0.11	0.07	0.31
Crit Moves:	****											
Green Time:	7.0	41.5	0.0	0.0	34.5	34.5	0.0	0.0	0.0	34.5	34.5	34.5
Volume/Cap:	0.45	0.76	0.00	0.00	0.43	0.19	0.00	0.00	0.00	0.27	0.16	0.76
Delay/Veh:	29.1	14.7	0.0	0.0	13.9	12.4	0.0	0.0	0.0	12.9	12.2	19.6
Delay Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
ProgAdjFctr:	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:	29.1	14.7	0.0	0.0	13.9	12.4	0.0	0.0	0.0	12.9	12.2	19.6
DesignQueue:	5	38	0	0	30	4	0	0	0	6	7	16

Level Of Service Computation Report
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AM Peak

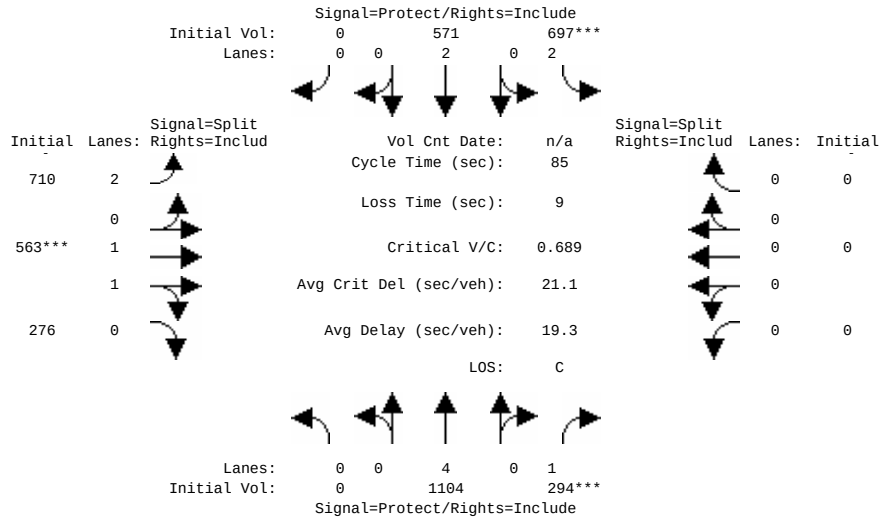
Intersection #14: 237 EB Ramps/Middlefield



Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	0	10	10	7	10	0	7	10	10	0	0	0
Volume Module:												
Base Vol:	0	746	176	417	428	0	300	352	233	0	0	0
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	0	746	176	417	428	0	300	352	233	0	0	0
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	0	746	176	417	428	0	300	352	233	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	746	176	417	428	0	300	352	233	0	0	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	0	746	176	417	428	0	300	352	233	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
Final Vol.:	0	746	176	417	428	0	300	352	233	0	0	0
Saturation Flow Module:												
Sat/Lane:	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
Adjustment:	0.97	1.06	0.97	0.88	1.06	0.97	0.88	1.05	1.00	0.97	1.06	0.97
Lanes:	0.00	4.00	1.00	2.00	2.00	0.00	2.00	1.18	0.82	0.00	0.00	0.00
Final Sat.:	0	7600	1750	3150	3800	0	3150	2225	1473	0	0	0
Capacity Analysis Module:												
Vol/Sat:	0.00	0.10	0.10	0.13	0.11	0.00	0.10	0.16	0.16	0.00	0.00	0.00
Crit Moves:	****											
Green Time:	0.0	19.2	19.2	25.9	45.1	0.0	30.9	30.9	30.9	0.0	0.0	0.0
Volume/Cap:	0.00	0.43	0.45	0.43	0.21	0.00	0.26	0.43	0.43	0.00	0.00	0.00
Delay/Veh:	0.0	21.6	22.1	18.2	8.0	0.0	14.5	15.7	15.7	0.0	0.0	0.0
Delay Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
ProgAdjFctr:	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	21.6	22.1	18.2	8.0	0.0	14.5	15.7	15.7	0.0	0.0	0.0
DesignQueue:	0	28	7	14	10	0	9	11	7	0	0	0

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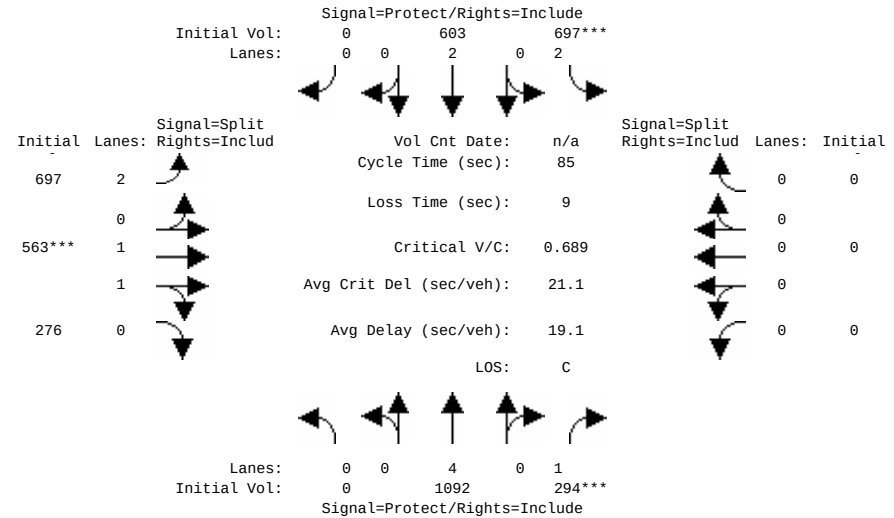
Intersection #14: 237 EB Ramps/Middlefield



Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	0	10	10	7	10	0	7	10	10	0	0	0
Volume Module:												
Base Vol:	0	746	176	417	428	0	300	352	233	0	0	0
Growth Adj:	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18
Initial Bse:	0	883	208	494	507	0	355	417	276	0	0	0
Added Vol:	0	64	0	0	6	0	55	0	0	0	0	0
Approved Pr:	0	157	86	203	58	0	300	146	0	0	0	0
Initial Fut:	0	1104	294	697	571	0	710	563	276	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	1104	294	697	571	0	710	563	276	0	0	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	0	1104	294	697	571	0	710	563	276	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
Final Vol.:	0	1104	294	697	571	0	710	563	276	0	0	0
Saturation Flow Module:												
Sat/Lane:	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
Adjustment:	0.97	1.06	0.97	0.88	1.06	0.97	0.88	1.04	1.00	0.97	1.06	0.97
Lanes:	0.00	4.00	1.00	2.00	2.00	0.00	2.00	1.32	0.68	0.00	0.00	0.00
Final Sat.:	0	7600	1750	3150	3800	0	3150	2482	1217	0	0	0
Capacity Analysis Module:												
Vol/Sat:	0.00	0.15	0.17	0.22	0.15	0.00	0.23	0.23	0.23	0.00	0.00	0.00
Crit Moves:	0.00	0.15	0.17	0.22	0.15	0.00	0.23	0.23	0.23	0.00	0.00	0.00
Green Time:	0.00	20.7	20.7	27.3	48.0	0.00	28.0	28.0	28.0	0.00	0.00	0.00
Volume/Cap:	0.00	0.60	0.69	0.69	0.27	0.00	0.69	0.69	0.69	0.00	0.00	0.00
Delay/Veh:	0.00	22.0	25.4	20.5	7.2	0.00	20.1	20.0	20.0	0.00	0.00	0.00
Delay Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
ProgAdjFctr:	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:	0.00	22.0	25.4	20.5	7.2	0.00	20.1	20.0	20.0	0.00	0.00	0.00
DesignQueue:	0	41	11	23	12	0	24	19	9	0	0	0

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AM 2013 Project Alt. 5

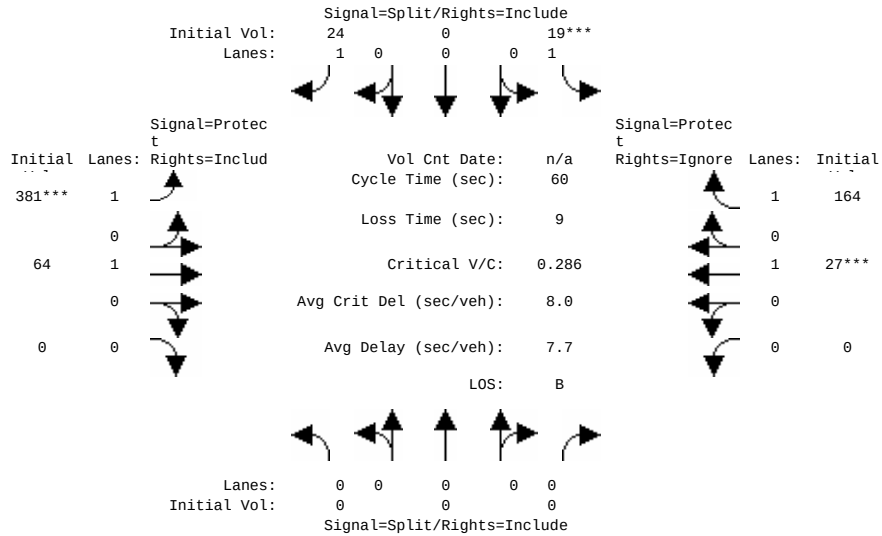
Intersection #14: 237 EB Ramps/Middlefield



Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	0	10	10	7	10	0	7	10	10	0	0	0
Volume Module:												
Base Vol:	0	746	176	417	428	0	300	352	233	0	0	0
Growth Adj:	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18
Initial Bse:	0	883	208	494	507	0	355	417	276	0	0	0
Added Vol:	0	52	0	0	38	0	42	0	0	0	0	0
Approved Pr:	0	157	86	203	58	0	300	146	0	0	0	0
Initial Fut:	0	1092	294	697	603	0	697	563	276	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	1092	294	697	603	0	697	563	276	0	0	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	0	1092	294	697	603	0	697	563	276	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
Final Vol.:	0	1092	294	697	603	0	697	563	276	0	0	0
Saturation Flow Module:												
Sat/Lane:	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
Adjustment:	0.97	1.06	0.97	0.88	1.06	0.97	0.88	1.04	1.00	0.97	1.06	0.97
Lanes:	0.00	4.00	1.00	2.00	2.00	0.00	2.00	1.32	0.68	0.00	0.00	0.00
Final Sat.:	0	7600	1750	3150	3800	0	3150	2482	1217	0	0	0
Capacity Analysis Module:												
Vol/Sat:	0.00	0.14	0.17	0.22	0.16	0.00	0.22	0.23	0.23	0.00	0.00	0.00
Crit Moves:	0.00	0.14	0.17	0.22	0.16	0.00	0.22	0.23	0.23	0.00	0.00	0.00
Green Time:	0.00	20.7	20.7	27.3	48.0	0.00	28.0	28.0	28.0	0.00	0.00	0.00
Volume/Cap:	0.00	0.59	0.69	0.69	0.28	0.00	0.67	0.69	0.69	0.00	0.00	0.00
Delay/Veh:	0.00	21.9	25.4	20.5	7.3	0.00	19.9	20.0	20.0	0.00	0.00	0.00
Delay Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
ProgAdjFctr:	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:	0.00	21.9	25.4	20.5	7.3	0.00	19.9	20.0	20.0	0.00	0.00	0.00
DesignQueue:	0	41	11	23	13	0	23	19	9	0	0	0

Level Of Service Computation Report
1985 HCM Operations (Future Volume Alternative)
AM Peak

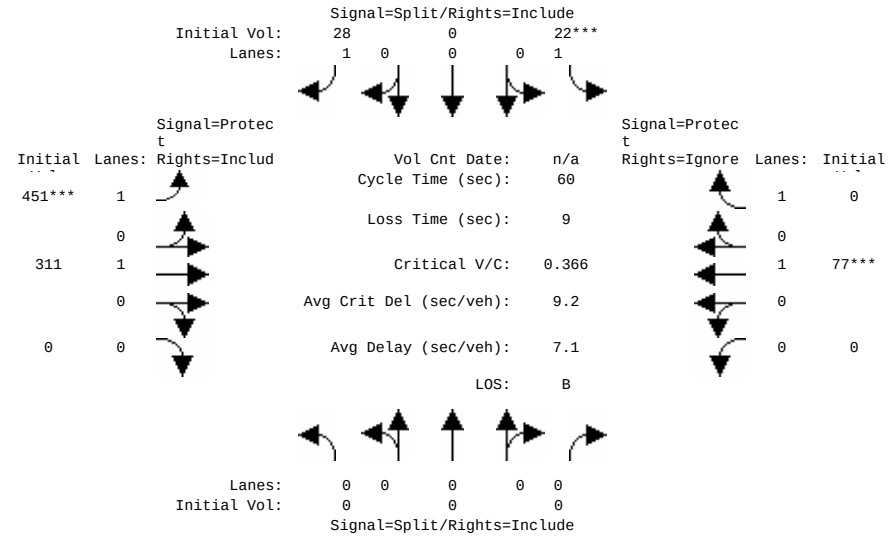
Intersection #15: Manila/H St.



Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	0	0	0	10	0	10	7	10	0	0	10	10
Volume Module:												
Base Vol:	0	0	0	19	0	24	381	64	0	0	27	164
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	19	0	24	381	64	0	0	27	164
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	0	0	0	19	0	24	381	64	0	0	27	164
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
PHF Volume:	0	0	0	19	0	24	381	64	0	0	27	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	0	0	0	19	0	24	381	64	0	0	27	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	0.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
Final Vol.:	0	0	0	19	0	24	381	64	0	0	27	0
Saturation Flow Module:												
Sat/Lane:	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
Adjustment:	0.97	1.06	0.97	0.97	1.06	0.97	0.97	1.06	0.97	0.97	1.06	0.97
Lanes:	0.00	0.00	0.00	1.00	0.00	1.00	1.00	0.00	0.00	1.00	0.00	1.00
Final Sat.:	0	0	0	1750	0	1750	1750	1900	0	0	1900	1750
Capacity Analysis Module:												
Vol/Sat:	0.00	0.00	0.00	0.01	0.00	0.01	0.22	0.03	0.00	0.00	0.01	0.00
Crit Moves:	****			****			****			****		
Green Time:	0.0	0.0	0.0	10.0	0.0	10.0	31.0	41.0	0.0	0.0	10.0	0.0
Volume/Cap:	0.00	0.00	0.00	0.07	0.00	0.08	0.42	0.05	0.00	0.00	0.09	0.00
Delay/Veh:	0.0	0.0	0.0	16.0	0.0	16.1	7.0	2.4	0.0	0.0	16.1	0.0
Delay Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
ProgAdjFctr:	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	16.0	0.0	16.1	7.0	2.4	0.0	0.0	16.1	0.0
DesignQueue:	0	0	0	1	0	1	6	1	0	0	1	0

Level Of Service Computation Report
1985 HCM Operations (Future Volume Alternative)
AM 2013 Project Alt.1

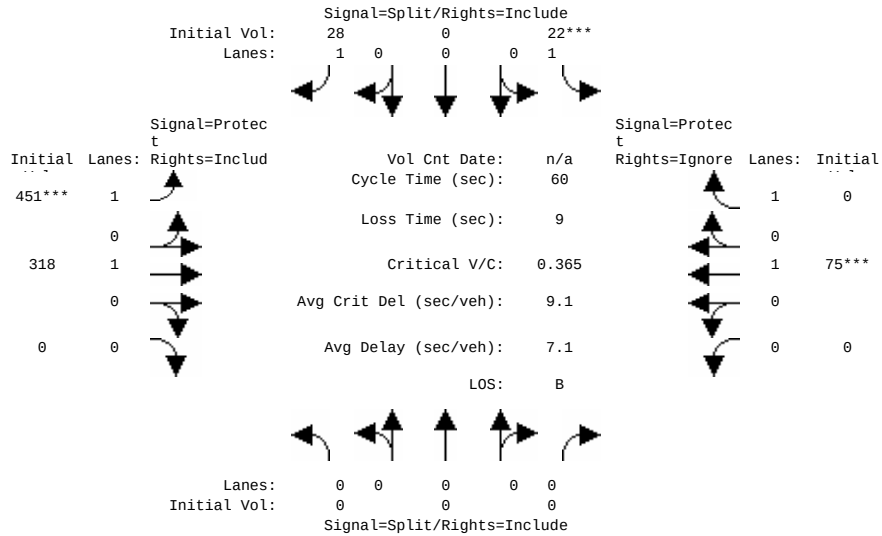
Intersection #15: Manila/H St.



Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	0	0	0	10	0	10	7	10	0	0	10	10
Volume Module:												
Base Vol:	0	0	0	19	0	24	381	64	0	0	27	0
Growth Adj:	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18
Initial Bse:	0	0	0	22	0	28	451	76	0	0	32	0
Added Vol:	0	0	0	0	0	0	0	1	0	0	13	0
Approved Pr:	0	0	0	0	0	0	0	234	0	0	32	0
Initial Fut:	0	0	0	22	0	28	451	311	0	0	77	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	0.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
PHF Volume:	0	0	0	22	0	28	451	311	0	0	77	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	0	0	0	22	0	28	451	311	0	0	77	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	0.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
Final Vol.:	0	0	0	22	0	28	451	311	0	0	77	0
Saturation Flow Module:												
Sat/Lane:	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
Adjustment:	0.97	1.06	0.97	0.97	1.06	0.97	0.97	1.06	0.97	0.97	1.06	0.97
Lanes:	0.00	0.00	0.00	1.00	0.00	1.00	1.00	0.00	0.00	1.00	0.00	1.00
Final Sat.:	0	0	0	1750	0	1750	1750	1900	0	0	1900	1750
Capacity Analysis Module:												
Vol/Sat:	0.00	0.00	0.00	0.01	0.00	0.02	0.26	0.16	0.00	0.00	0.04	0.00
Crit Moves:	****			****			****			****		
Green Time:	0.0	0.0	0.0	10.0	0.0	10.0	31.0	41.0	0.0	0.0	10.0	0.0
Volume/Cap:	0.00	0.00	0.00	0.08	0.00	0.10	0.50	0.24	0.00	0.00	0.24	0.00
Delay/Veh:	0.0	0.0	0.0	16.0	0.0	16.1	7.6	2.8	0.0	0.0	16.6	0.0
Delay Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
ProgAdjFctr:	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	16.0	0.0	16.1	7.6	2.8	0.0	0.0	16.6	0.0
DesignQueue:	0	0	0	1	0	1	8	3	0	0	2	0

Level Of Service Computation Report
1985 HCM Operations (Future Volume Alternative)
AM 2013 Project Alt. 5

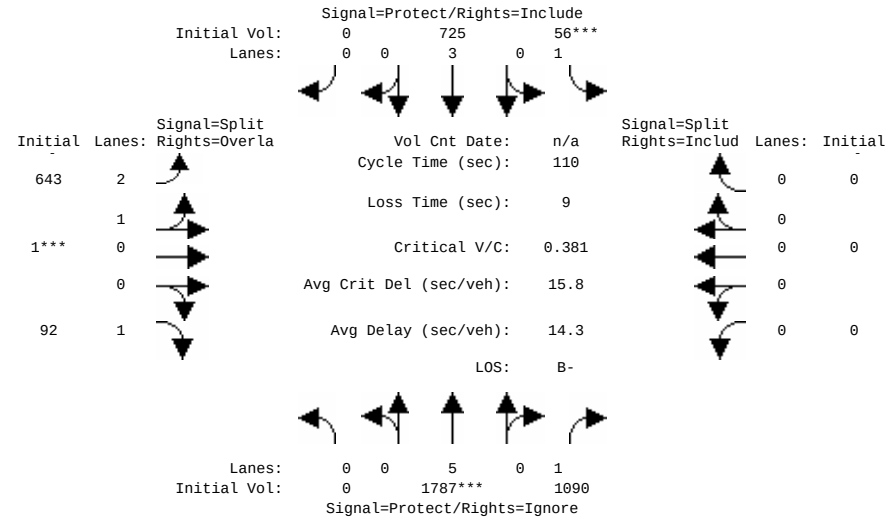
Intersection #15: Manila/H St.



Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	0	0	0	10	0	10	7	10	0	0	10	10
Volume Module:												
Base Vol:	0	0	0	19	0	24	381	64	0	0	27	0
Growth Adj:	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18
Initial Bse:	0	0	0	22	0	28	451	76	0	0	32	0
Added Vol:	0	0	0	0	0	0	0	8	0	0	11	0
Approved Pr:	0	0	0	0	0	0	0	234	0	0	32	0
Initial Fut:	0	0	0	22	0	28	451	318	0	0	75	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	0.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
PHF Volume:	0	0	0	22	0	28	451	318	0	0	75	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	0	0	0	22	0	28	451	318	0	0	75	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	0.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
Final Vol.:	0	0	0	22	0	28	451	318	0	0	75	0
Saturation Flow Module:												
Sat/Lane:	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
Adjustment:	0.97	1.06	0.97	0.97	1.06	0.97	0.97	1.06	0.97	0.97	1.06	0.97
Lanes:	0.00	0.00	0.00	1.00	0.00	1.00	1.00	1.00	0.00	0.00	1.00	1.00
Final Sat.:	0	0	0	1750	0	1750	1750	1900	0	0	1900	1750
Capacity Analysis Module:												
Vol/Sat:	0.00	0.00	0.00	0.01	0.00	0.02	0.26	0.17	0.00	0.00	0.04	0.00
Crit Moves:												
Green Time:	0.0	0.0	0.0	10.0	0.0	10.0	31.0	41.0	0.0	0.0	10.0	0.0
Volume/Cap:	0.00	0.00	0.00	0.08	0.00	0.10	0.50	0.24	0.00	0.00	0.24	0.00
Delay/Veh:	0.0	0.0	0.0	16.0	0.0	16.1	7.6	2.8	0.0	0.0	16.6	0.0
Delay Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
ProgAdjFctr:	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	16.0	0.0	16.1	7.6	2.8	0.0	0.0	16.6	0.0
DesignQueue:	0	0	0	1	0	1	8	4	0	0	2	0

Level Of Service Computation Report
1985 HCM Operations (Future Volume Alternative)
AM Peak

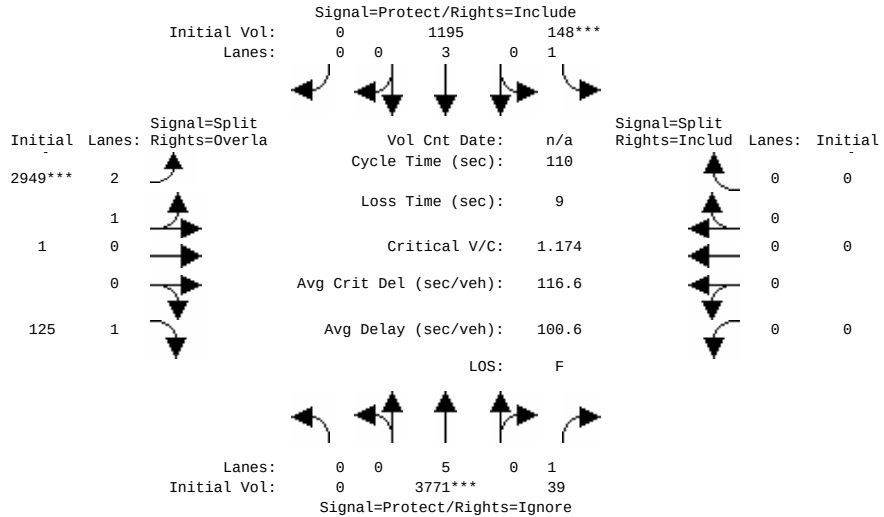
Intersection #16: 237 EB Ramps/Mathilda



Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	0	10	10	7	10	0	7	10	10	0	0	0
Volume Module:												
Base Vol:	0	1787	1090	56	725	0	643	1	92	0	0	0
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	0	1787	1090	56	725	0	643	1	92	0	0	0
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	0	1787	1090	56	725	0	643	1	92	0	0	0
User Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	0	1787	0	56	725	0	643	1	92	0	0	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	0	1787	0	56	725	0	643	1	92	0	0	0
PCE Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Final Vol.:	0	1787	0	56	725	0	643	1	92	0	0	0
Saturation Flow Module:												
Sat/Lane:	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
Adjustment:	0.97	1.06	0.97	0.97	1.06	0.97	0.92	1.06	0.97	0.97	1.06	0.97
Lanes:	0.00	5.00	1.00	1.00	3.00	0.00	2.99	0.01	1.00	0.00	0.00	0.00
Final Sat.:	0	9500	1750	1750	5700	0	4942	8	1750	0	0	0
Capacity Analysis Module:												
Vol/Sat:	0.00	0.19	0.00	0.03	0.13	0.00	0.13	0.13	0.05	0.00	0.00	0.00
Crit Moves:												
Green Time:	0.0	54.2	0.0	9.2	63.5	0.0	37.5	37.5	37.5	0.0	0.0	0.0
Volume/Cap:	0.00	0.38	0.00	0.38	0.22	0.00	0.38	0.38	0.15	0.00	0.00	0.00
Delay/Veh:	0.0	13.3	0.0	37.1	8.6	0.0	20.9	20.9	19.2	0.0	0.0	0.0
Delay Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
ProgAdjFctr:	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	13.3	0.0	37.1	8.6	0.0	20.9	20.9	19.2	0.0	0.0	0.0
DesignQueue:	0	58	0	3	19	0	27	0	4	0	0	0

Level Of Service Computation Report
1985 HCM Operations (Future Volume Alternative)
AM 2013 Project Alt.1

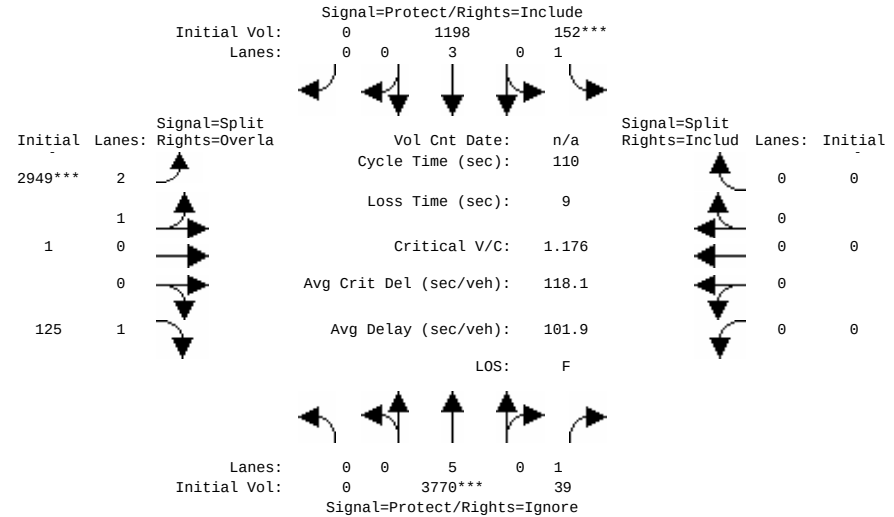
Intersection #16: 237 EB Ramps/Mathilda



Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	0	10	10	7	10	0	7	10	10	0	0	0
Volume Module:												
Base Vol:	0	1787	0	56	725	0	643	1	92	0	0	0
Growth Adj:	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18
Initial Bse:	0	2116	0	66	858	0	761	1	109	0	0	0
Added Vol:	0	8	0	0	1	0	0	0	0	0	0	0
Approved Pr:	0	1647	39	82	336	0	2188	0	16	0	0	0
Initial Fut:	0	3771	39	148	1195	0	2949	1	125	0	0	0
User Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	0	3771	0	148	1195	0	2949	1	125	0	0	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	0	3771	0	148	1195	0	2949	1	125	0	0	0
PCE Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Final Vol.:	0	3771	0	148	1195	0	2949	1	125	0	0	0
Saturation Flow Module:												
Sat/Lane:	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
Adjustment:	0.97	1.06	0.97	0.97	1.06	0.97	0.92	1.00	0.97	0.97	1.06	0.97
Lanes:	0.00	5.00	1.00	1.00	3.00	0.00	2.99	0.01	1.00	0.00	0.00	0.00
Final Sat.:	0	9500	1750	1750	5700	0	4948	2	1750	0	0	0
Capacity Analysis Module:												
Vol/Sat:	0.00	0.40	0.00	0.08	0.21	0.00	0.60	0.60	0.07	0.00	0.00	0.00
Crit Moves:	****	****	****	****	****	****	****	****	****	****	****	****
Green Time:	0.0	37.2	0.0	7.9	45.1	0.0	55.9	55.9	55.9	0.0	0.0	0.0
Volume/Cap:	0.00	1.17	0.00	1.17	0.51	0.00	1.17	1.17	0.14	0.00	0.00	0.00
Delay/Veh:	0.0	117	0.0	181.5	18.6	0.0	112.7	113	10.9	0.0	0.0	0.0
Delay Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
ProgAdjFctr:	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	117	0.0	181.5	18.6	0.0	112.7	113	10.9	0.0	0.0	0.0
DesignQueue:	0	170	0	9	46	0	103	0	4	0	0	0

Level Of Service Computation Report
1985 HCM Operations (Future Volume Alternative)
AM 2013 Project Alt. 5

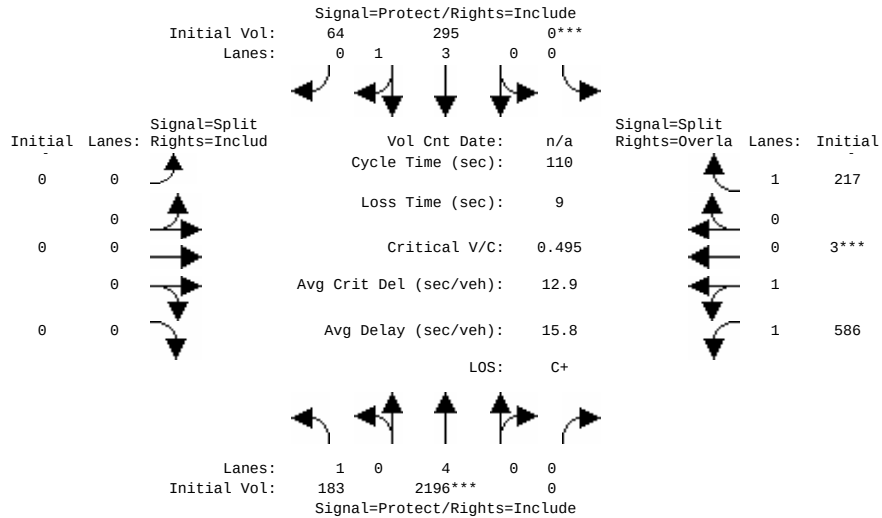
Intersection #16: 237 EB Ramps/Mathilda



Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	0	10	10	7	10	0	7	10	10	0	0	0
Volume Module:												
Base Vol:	0	1787	0	56	725	0	643	1	92	0	0	0
Growth Adj:	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18
Initial Bse:	0	2116	0	66	858	0	761	1	109	0	0	0
Added Vol:	0	7	0	4	4	0	0	0	0	0	0	0
Approved Pr:	0	1647	39	82	336	0	2188	0	16	0	0	0
Initial Fut:	0	3770	39	152	1198	0	2949	1	125	0	0	0
User Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	0	3770	0	152	1198	0	2949	1	125	0	0	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	0	3770	0	152	1198	0	2949	1	125	0	0	0
PCE Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Final Vol.:	0	3770	0	152	1198	0	2949	1	125	0	0	0
Saturation Flow Module:												
Sat/Lane:	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
Adjustment:	0.97	1.06	0.97	0.97	1.06	0.97	0.92	1.00	0.97	0.97	1.06	0.97
Lanes:	0.00	5.00	1.00	1.00	3.00	0.00	2.99	0.01	1.00	0.00	0.00	0.00
Final Sat.:	0	9500	1750	1750	5700	0	4948	2	1750	0	0	0
Capacity Analysis Module:												
Vol/Sat:	0.00	0.40	0.00	0.09	0.21	0.00	0.60	0.60	0.07	0.00	0.00	0.00
Crit Moves:	****	****	****	****	****	****	****	****	****	****	****	****
Green Time:	0.0	37.1	0.0	8.1	45.3	0.0	55.7	55.7	55.7	0.0	0.0	0.0
Volume/Cap:	0.00	1.18	0.00	1.18	0.51	0.00	1.18	1.18	0.14	0.00	0.00	0.00
Delay/Veh:	0.0	119	0.0	181.9	18.5	0.0	114.3	114	11.0	0.0	0.0	0.0
Delay Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
ProgAdjFctr:	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	119	0.0	181.9	18.5	0.0	114.3	114	11.0	0.0	0.0	0.0
DesignQueue:	0	170	0	9	46	0	103	0	4	0	0	0

Level Of Service Computation Report
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AM Peak

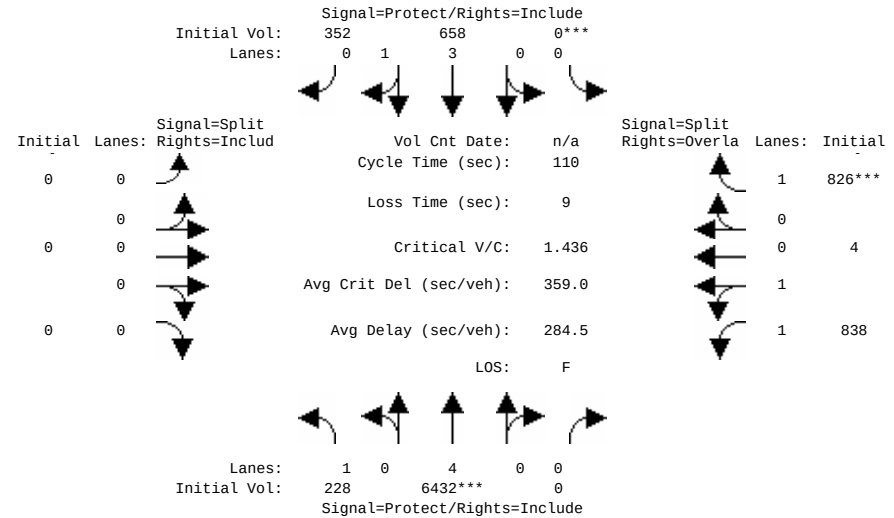
Intersection #17: 237 WB Ramps/Mathilda



Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	7	10	0	0	10	10	0	0	0	7	10	10
Volume Module:												
Base Vol:	183	2196	0	0	295	64	0	0	0	586	3	217
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:	183	2196	0	0	295	64	0	0	0	586	3	217
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:	183	2196	0	0	295	64	0	0	0	586	3	217
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:	183	2196	0	0	295	64	0	0	0	586	3	217
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	183	2196	0	0	295	64	0	0	0	586	3	217
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 Vol.:	183	2196	0	0	295	64	0	0	0	586	3	217
Saturation Flow Module:												
Sat/Lane:	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
Adjustment:	0.97	1.06	0.97	0.97	1.05	1.00	0.97	1.06	0.97	0.99	1.00	0.97
Lanes:	1.00	4.00	0.00	0.00	3.26	0.74	0.00	0.00	0.00	1.99	0.01	1.00
Final Sat.:	1750	7600	0	0	6161	1337	0	0	0	3532	18	1750
Capacity Analysis Module:												
Vol/Sat:	0.10	0.29	0.00	0.00	0.05	0.05	0.00	0.00	0.00	0.17	0.17	0.12
Crit Moves:	****	****	****	****	****	****	****	****	****	****	****	****
Green Time:	54.2	64.2	0.0	0.0	10.0	10.0	0.0	0.0	0.0	36.8	36.8	36.8
Volume/Cap:	0.21	0.50	0.00	0.00	0.53	0.53	0.00	0.00	0.00	0.50	0.50	0.37
Delay/Veh:	12.0	10.3	0.0	0.0	36.9	36.9	0.0	0.0	0.0	22.4	22.4	21.3
Delay Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
ProgAdjFctr:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	12.0	10.3	0.0	0.0	36.9	36.9	0.0	0.0	0.0	22.4	22.4	21.3
DesignQueue:	6	61	0	0	17	4	0	0	0	25	0	9

Level Of Service Computation Report
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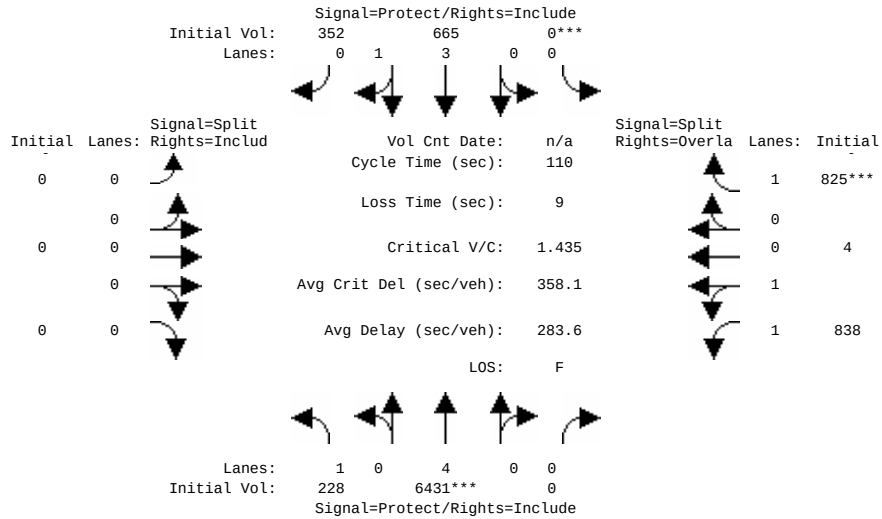
Intersection #17: 237 WB Ramps/Mathilda



Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	7	10	0	0	10	10	0	0	0	7	10	10
Volume Module:												
Base Vol:	183	2196	0	0	295	64	0	0	0	586	3	217
Growth Adj:	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18
Initial Bse:	217	2600	0	0	349	76	0	0	0	694	4	257
Added Vol:	0	0	0	0	1	0	0	0	0	0	0	5
Approved Pr:	11	3824	0	0	308	276	0	0	0	144	0	564
Initial Fut:	228	6432	0	0	658	352	0	0	0	838	4	826
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:	228	6432	0	0	658	352	0	0	0	838	4	826
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	228	6432	0	0	658	352	0	0	0	838	4	826
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 Vol.:	228	6432	0	0	658	352	0	0	0	838	4	826
Saturation Flow Module:												
Sat/Lane:	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
Adjustment:	0.97	1.06	0.97	0.97	1.06	0.97	0.97	1.06	0.97	0.99	1.00	0.97
Lanes:	1.00	4.00	0.00	0.00	3.00	1.00	0.00	0.00	0.00	1.99	0.01	1.00
Final Sat.:	1750	7600	0	0	5700	1750	0	0	0	3535	15	1750
Capacity Analysis Module:												
Vol/Sat:	0.13	0.85	0.00	0.00	0.12	0.20	0.00	0.00	0.00	0.24	0.24	0.47
Crit Moves:	****	****	****	****	****	****	****	****	****	****	****	****
Green Time:	25.5	64.8	0.0	0.0	39.4	39.4	0.0	0.0	0.0	36.2	36.2	36.2
Volume/Cap:	0.56	1.44	0.00	0.00	0.32	0.56	0.00	0.00	0.00	0.72	0.72	1.44
Delay/Veh:	29.7	359	0.0	0.0	19.5	21.9	0.0	0.0	0.0	26.2	26.2	362.0
Delay Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
ProgAdjFctr:	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:	29.7	359	0.0	0.0	19.5	21.9	0.0	0.0	0.0	26.2	26.2	362.0
DesignQueue:	11	208	0	0	27	15	0	0	0	37	0	38

Level Of Service Computation Report
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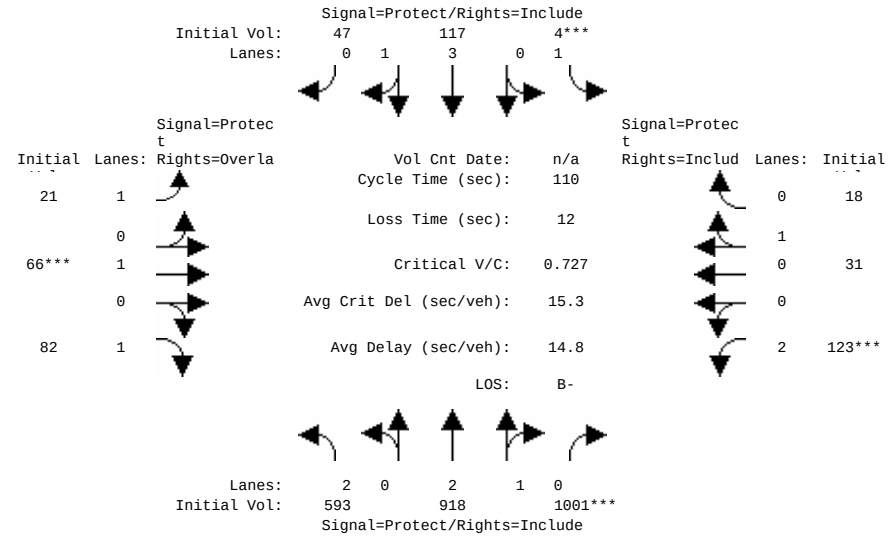
Intersection #17: 237 WB Ramps/Mathilda



Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	7	10	0	0	10	10	0	0	0	7	10	10
Volume Module:												
Base Vol:	183	2196	0	0	295	64	0	0	0	586	3	217
Growth Adj:	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18
Initial Bse:	217	2600	0	0	349	76	0	0	0	694	4	257
Added Vol:	0	7	0	0	8	0	0	0	0	0	0	4
Approved Pr:	11	3824	0	0	308	276	0	0	0	144	0	564
Initial Fut:	228	6431	0	0	665	352	0	0	0	838	4	825
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:	228	6431	0	0	665	352	0	0	0	838	4	825
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	228	6431	0	0	665	352	0	0	0	838	4	825
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 Vol.:	228	6431	0	0	665	352	0	0	0	838	4	825
Saturation Flow Module:												
Sat/Lane:	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
Adjustment:	0.97	1.06	0.97	0.97	1.06	0.97	0.97	1.06	0.97	0.99	1.00	0.97
Lanes:	1.00	4.00	0.00	0.00	3.00	1.00	0.00	0.00	0.00	1.99	0.01	1.00
Final Sat.:	1750	7600	0	0	5700	1750	0	0	0	3535	15	1750
Capacity Analysis Module:												
Vol/Sat:	0.13	0.85	0.00	0.00	0.12	0.20	0.00	0.00	0.00	0.24	0.24	0.47
Crit Moves:	****	****	****	****	****	****	****	****	****	****	****	****
Green Time:	25.5	64.9	0.0	0.0	39.4	39.4	0.0	0.0	0.0	36.1	36.1	36.1
Volume/Cap:	0.56	1.43	0.00	0.00	0.33	0.56	0.00	0.00	0.00	0.72	0.72	1.43
Delay/Veh:	29.7	358	0.0	0.0	19.5	21.9	0.0	0.0	0.0	26.3	26.3	361.1
Delay Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
ProgAdjFctr:	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:	29.7	358	0.0	0.0	19.5	21.9	0.0	0.0	0.0	26.3	26.3	361.1
DesignQueue:	11	208	0	0	27	15	0	0	0	37	0	38

Level Of Service Computation Report
1985 HCM Operations (Future Volume Alternative)
AM Peak

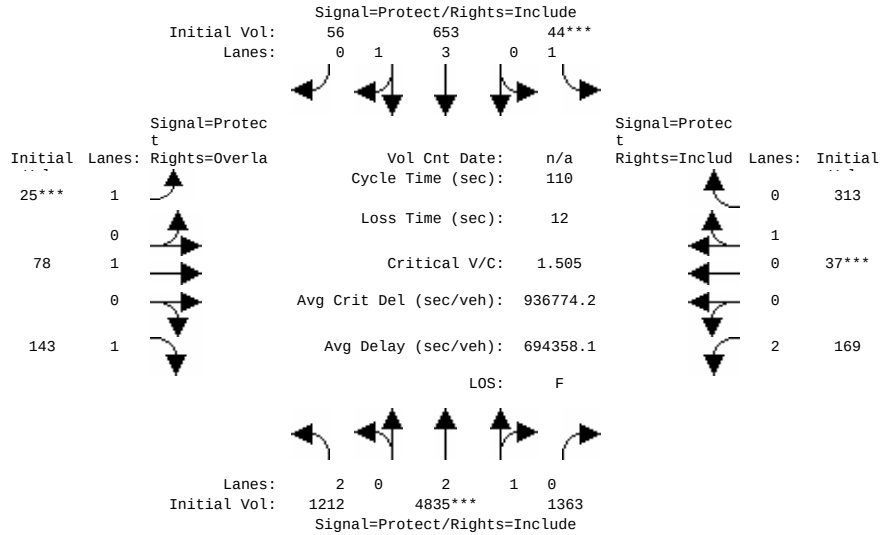
Intersection #18: Mathilda/Moffett Park



Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	7	10	10	7	10	10	7	10	10	7	10	10
Volume Module:												
Base Vol:	593	918	1001	4	117	47	21	66	82	123	31	18
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:	593	918	1001	4	117	47	21	66	82	123	31	18
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:	593	918	1001	4	117	47	21	66	82	123	31	18
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:	593	918	1001	4	117	47	21	66	82	123	31	18
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	593	918	1001	4	117	47	21	66	82	123	31	18
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 Vol.:	593	918	1001	4	117	47	21	66	82	123	31	18
Saturation Flow Module:												
Sat/Lane:	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
Adjustment:	0.88	1.06	0.97	0.97	1.06	0.97	0.97	1.06	0.97	0.88	1.00	1.00
Lanes:	2.00	2.00	1.00	1.00	3.00	1.00	1.00	1.00	1.00	2.00	0.63	0.37
Final Sat.:	3150	3800	1750	1750	5700	1750	1750	1900	1750	3150	1139	661
Capacity Analysis Module:												
Vol/Sat:	0.19	0.24	0.57	0.00	0.02	0.03	0.01	0.03	0.05	0.04	0.03	0.03
Crit Moves:	****	****	****	****	****	****	****	****	****	****	****	****
Green Time:	71.0	74.0	74.0	7.0	10.0	10.0	7.0	10.0	81.0	7.0	10.0	10.0
Volume/Cap:	0.29	0.36	0.85	0.04	0.23	0.30	0.19	0.38	0.06	0.61	0.30	0.30
Delay/Veh:	6.5	5.9	12.8	36.7	35.3	35.6	37.2	36.5	3.0	42.0	35.8	35.8
Delay Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
ProgAdjFctr:	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:	6.5	5.9	12.8	36.7	35.3	35.6	37.2	36.5	3.0	42.0	35.8	35.8
DesignQueue:	13	20	23	0	7	3	1	4	1	7	2	1

Level Of Service Computation Report
1985 HCM Operations (Future Volume Alternative)
AM 2013 Project Alt.1

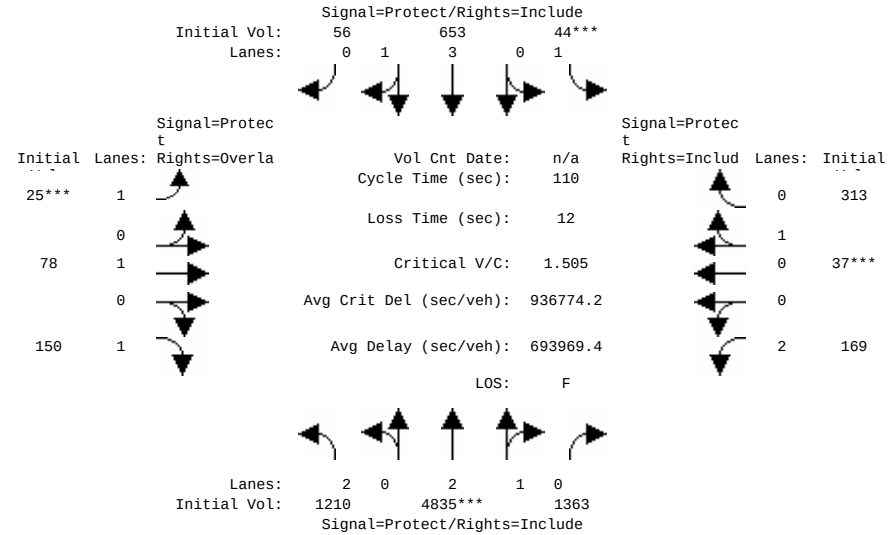
Intersection #18: Mathilda/Moffett Park



Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	7	10	10	7	10	10	7	10	10	7	10	10
Volume Module:												
Base Vol:	593	918	1001	4	117	47	21	66	82	123	31	18
Growth Adj:	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18
Initial Bse:	702	1087	1185	5	139	56	25	78	97	146	37	21
Added Vol:	13	0	0	0	0	0	0	0	1	0	0	0
Approved Pr:	497	3748	178	39	514	0	0	0	45	23	0	292
Initial Fut:	1212	4835	1363	44	653	56	25	78	143	169	37	313
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:	1212	4835	1363	44	653	56	25	78	143	169	37	313
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	1212	4835	1363	44	653	56	25	78	143	169	37	313
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 Vol.:	1212	4835	1363	44	653	56	25	78	143	169	37	313
Saturation Flow Module:												
Sat/Lane:	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
Adjustment:	0.88	1.05	1.00	0.97	1.05	1.00	0.97	1.06	0.97	0.88	1.00	1.00
Lanes:	2.00	2.32	0.68	1.00	3.67	0.33	1.00	1.00	1.00	2.00	0.10	0.90
Final Sat.:	3150	4367	1231	1750	6910	589	1750	1900	1750	3150	189	1611
Capacity Analysis Module:												
Vol/Sat:	0.38	1.11	1.11	0.02	0.09	0.09	0.01	0.04	0.08	0.05	0.19	0.19
Crit Moves:	****	****	****	****	****	****	****	****	****	****	****	****
Green Time:	63.0	71.5	71.5	7.0	15.5	15.5	7.0	11.5	74.5	8.0	12.5	12.5
Volume/Cap:	0.67	1.70	1.70	0.39	0.67	0.67	0.22	0.39	0.12	0.73	1.70	1.70
Delay/Veh:	13.1	xxxx	xxxxx	38.8	35.3	35.3	37.4	35.6	4.7	45.5	794	793.5
Delay Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
ProgAdjFctr:	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:	13.1	xxxx	xxxxx	38.8	35.3	35.3	37.4	35.6	4.7	45.5	794	793.5
DesignQueue:	35	146	40	3	35	3	1	4	3	10	2	18

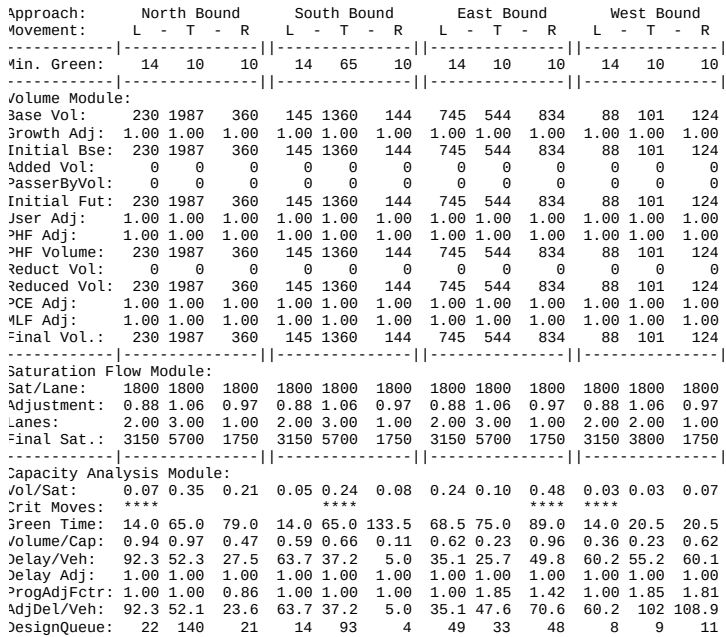
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Intersection #18: Mathilda/Moffett Park

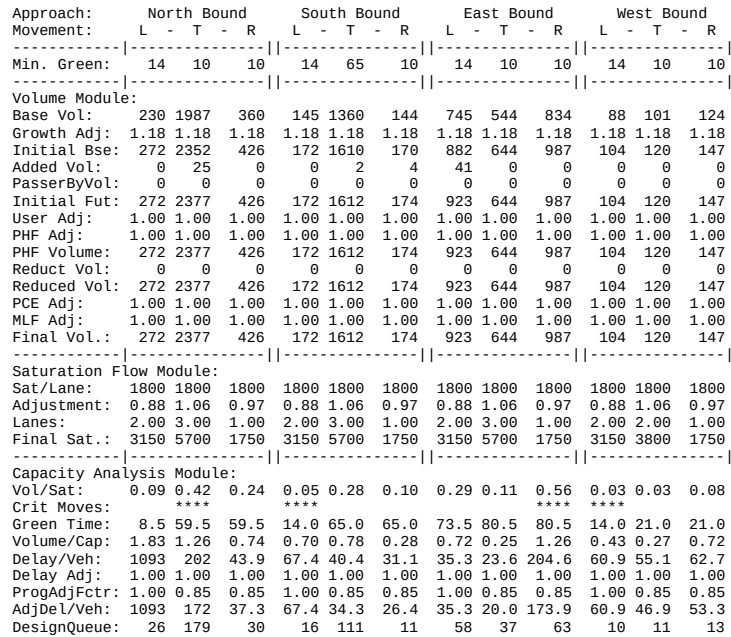


Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	7	10	10	7	10	10	7	10	10	7	10	10
Volume Module:												
Base Vol:	593	918	1001	4	117	47	21	66	82	123	31	18
Growth Adj:	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18
Initial Bse:	702	1087	1185	5	139	56	25	78	97	146	37	21
Added Vol:	11	0	0	0	0	0	0	0	8	0	0	0
Approved Pr:	497	3748	178	39	514	0	0	0	45	23	0	292
Initial Fut:	1210	4835	1363	44	653	56	25	78	150	169	37	313
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:	1210	4835	1363	44	653	56	25	78	150	169	37	313
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	1210	4835	1363	44	653	56	25	78	150	169	37	313
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 Vol.:	1210	4835	1363	44	653	56	25	78	150	169	37	313
Saturation Flow Module:												
Sat/Lane:	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
Adjustment:	0.88	1.05	1.00	0.97	1.05	1.00	0.97	1.06	0.97	0.88	1.00	1.00
Lanes:	2.00	2.32	0.68	1.00	3.67	0.33	1.00	1.00	1.00	2.00	0.10	0.90
Final Sat.:	3150	4367	1231	1750	6910	589	1750	1900	1750	3150	189	1611
Capacity Analysis Module:												
Vol/Sat:	0.38	1.11	1.11	0.02	0.09	0.09	0.01	0.04	0.09	0.05	0.19	0.19
Crit Moves:	****	****	****	****	****	****	****	****	****	****	****	****
Green Time:	63.0	71.5	71.5	7.0	15.5	15.5	7.0	11.5	74.5	8.0	12.5	12.5
Volume/Cap:	0.67	1.70	1.70	0.39	0.67	0.67	0.22	0.39	0.13	0.73	1.70	1.70
Delay/Veh:	13.1	xxxx	xxxxx	38.8	35.3	35.3	37.4	35.6	4.8	45.5	794	793.5
Delay Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
ProgAdjFctr:	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:	13.1	xxxx	xxxxx	38.8	35.3	35.3	37.4	35.6	4.8	45.5	794	793.5
DesignQueue:	35	146	40	3	35	3	1	4	3	10	2	18

Intersection #19: Central/Mary

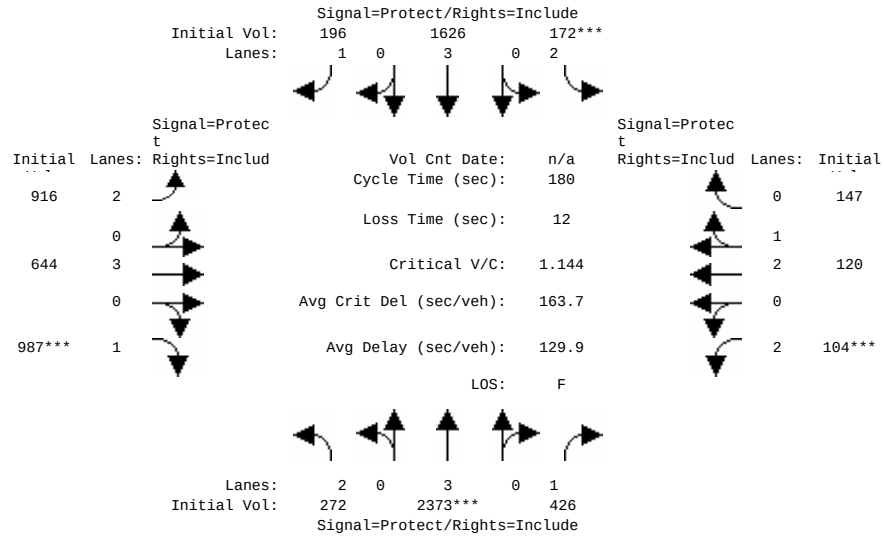


Intersection #19: Central/Mary



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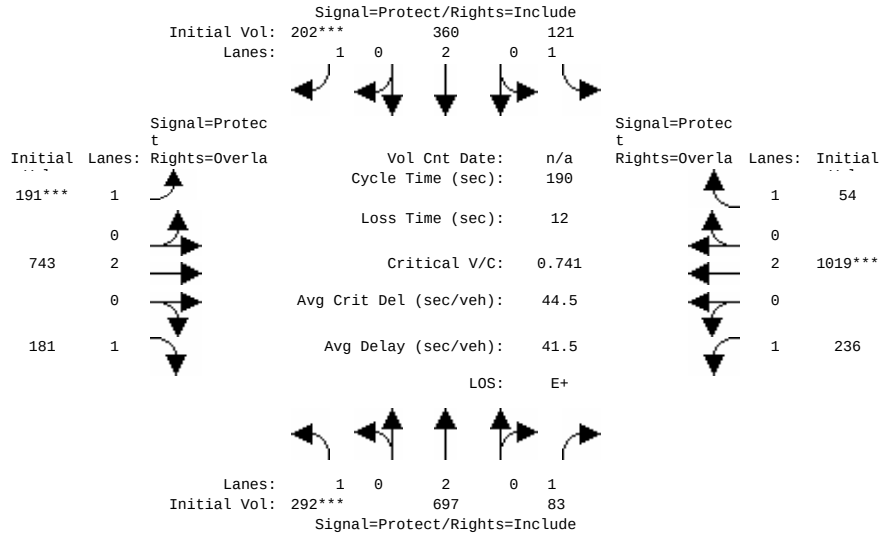
Intersection #19: Central/Mary



Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	14	10	10	14	65	10	14	10	10	14	10	10
Volume Module:												
Base Vol:	230	1987	360	145	1360	144	745	544	834	88	101	124
Growth Adj:	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18
Initial Bse:	272	2352	426	172	1610	170	882	644	987	104	120	147
Added Vol:	0	21	0	0	16	26	34	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	272	2373	426	172	1626	196	916	644	987	104	120	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:	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:	272	2373	426	172	1626	196	916	644	987	104	120	147
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	272	2373	426	172	1626	196	916	644	987	104	120	147
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 Vol:	272	2373	426	172	1626	196	916	644	987	104	120	147
Saturation Flow Module:												
Sat/Lane:	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
Adjustment:	0.88	1.06	0.97	0.88	1.06	0.97	0.88	1.06	0.97	0.88	1.06	0.97
Lanes:	2.00	3.00	1.00	2.00	3.00	1.00	2.00	3.00	1.00	2.00	3.00	1.00
Final Sat:	3150	5700	1750	3150	5700	1750	3150	5700	1750	3150	3800	1750
Capacity Analysis Module:												
Vol/Sat:	0.09	0.42	0.24	0.05	0.29	0.11	0.29	0.11	0.56	0.03	0.03	0.08
Crit Moves:	****	****	****	****	****	****	****	****	****	****	****	****
Green Time:	8.4	59.4	59.4	14.0	65.0	65.0	73.4	80.6	80.6	14.0	21.2	21.2
Volume/Cap:	1.84	1.26	0.74	0.70	0.79	0.31	0.71	0.25	1.26	0.43	0.27	0.71
Delay/Veh:	1122	201	44.0	67.4	40.6	31.5	35.2	23.5	203.8	60.9	55.0	62.5
Delay Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
ProgAdjFctr:	1.00	0.85	0.85	1.00	0.85	0.85	1.00	0.85	0.85	1.00	0.85	0.85
AdjDel/Veh:	1122	171	37.4	67.4	34.5	26.8	35.2	20.0	173.2	60.9	46.8	53.1
DesignQueue:	26	179	30	16	112	13	58	37	63	10	11	13

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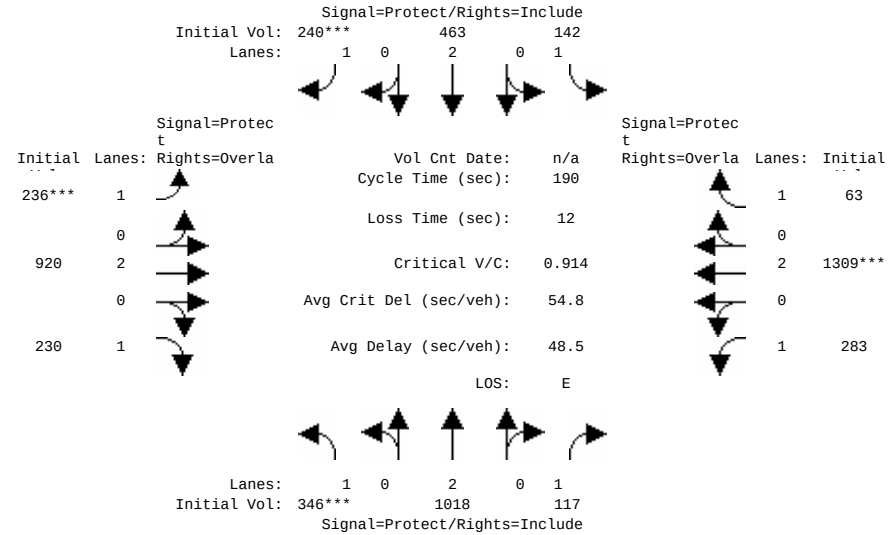
Intersection #1: Middlefield/Shoreline



Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	7	10	10	7	10	10	7	10	10	7	10	10
Volume Module:												
Base Vol:	292	697	83	121	360	202	191	743	181	236	1019	54
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:	292	697	83	121	360	202	191	743	181	236	1019	54
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:	292	697	83	121	360	202	191	743	181	236	1019	54
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:	292	697	83	121	360	202	191	743	181	236	1019	54
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	292	697	83	121	360	202	191	743	181	236	1019	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
Final Vol.:	292	697	83	121	360	202	191	743	181	236	1019	54
Saturation Flow Module:												
Sat/Lane:	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
Adjustment:	0.92	1.06	0.83	0.92	1.06	0.83	0.92	1.06	0.83	0.92	1.06	0.83
Lanes:	1.00	2.00	1.00	1.00	2.00	1.00	1.00	2.00	1.00	1.00	2.00	1.00
Final Sat.:	1662	3800	1487	1662	3800	1487	1662	3800	1487	1662	3800	1487
Capacity Analysis Module:												
Vol/Sat:	0.18	0.18	0.06	0.07	0.09	0.14	0.11	0.20	0.12	0.14	0.27	0.04
Crit Moves:	****	****	****	****	****	****	****	****	****	****	****	****
Green Time:	45.0	57.1	57.1	22.7	34.8	34.8	29.4	56.9	101.9	41.3	68.7	91.4
Volume/Cap:	0.74	0.61	0.19	0.61	0.52	0.74	0.74	0.65	0.23	0.65	0.74	0.08
Delay/Veh:	56.0	43.9	37.4	64.2	53.8	62.7	65.6	45.0	17.7	54.5	41.7	20.2
Delay Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
ProgAdjFctr:	1.00	0.85	0.85	1.00	0.85	0.85	1.00	0.85	0.85	1.00	0.85	0.85
AdjDel/Veh:	56.0	37.3	31.8	64.2	45.7	53.3	65.6	38.3	15.0	54.5	35.5	17.1
DesignQueue:	25	54	6	11	32	18	18	58	9	20	74	3

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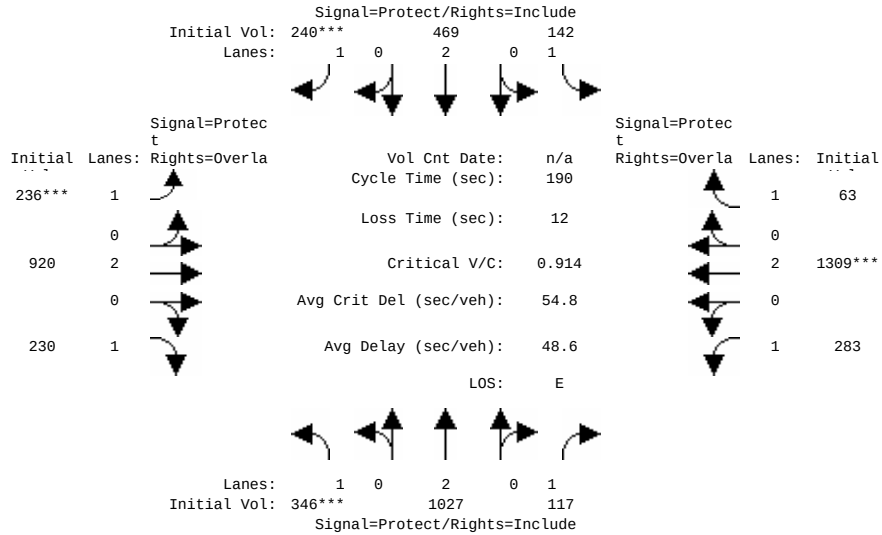
Intersection #1: Middlefield/Shoreline



Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	7	10	10	7	10	10	7	10	10	7	10	10
Volume Module:												
Base Vol:	292	697	83	121	360	202	191	743	181	236	1019	54
Growth Adj:	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17
Initial Bse:	342	817	97	142	422	237	224	871	212	277	1194	63
Added Vol:	0	15	0	0	2	0	0	0	0	0	0	0
Approved Pr:	4	186	20	0	39	3	12	49	18	6	115	0
Initial Fut:	346	1018	117	142	463	240	236	920	230	283	1309	63
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:	346	1018	117	142	463	240	236	920	230	283	1309	63
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	346	1018	117	142	463	240	236	920	230	283	1309	63
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 Vol.:	346	1018	117	142	463	240	236	920	230	283	1309	63
Saturation Flow Module:												
Sat/Lane:	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
Adjustment:	0.92	1.06	0.83	0.92	1.06	0.83	0.92	1.06	0.83	0.92	1.06	0.83
Lanes:	1.00	2.00	1.00	1.00	2.00	1.00	1.00	2.00	1.00	1.00	2.00	1.00
Final Sat.:	1662	3800	1487	1662	3800	1487	1662	3800	1487	1662	3800	1487
Capacity Analysis Module:												
Vol/Sat:	0.21	0.27	0.08	0.09	0.12	0.16	0.14	0.24	0.15	0.17	0.34	0.04
Crit Moves:	****	****	****	****	****	****	****	****	****	****	****	****
Green Time:	43.3	58.3	58.3	18.6	33.5	33.5	29.5	59.4	102.7	41.7	71.7	90.2
Volume/Cap:	0.91	0.87	0.26	0.87	0.69	0.91	0.91	0.77	0.29	0.77	0.91	0.09
Delay/Veh:	72.9	52.8	37.7	89.7	57.9	82.2	84.1	47.3	18.1	59.8	49.5	20.8
Delay Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
ProgAdjFctr:	1.00	0.85	0.85	1.00	0.85	0.85	1.00	0.85	0.85	1.00	0.85	0.85
AdjDel/Veh:	72.9	44.9	32.1	89.7	49.2	69.9	84.1	40.2	15.4	59.8	42.0	17.7
DesignQueue:	30	80	9	14	42	22	22	71	12	24	95	4

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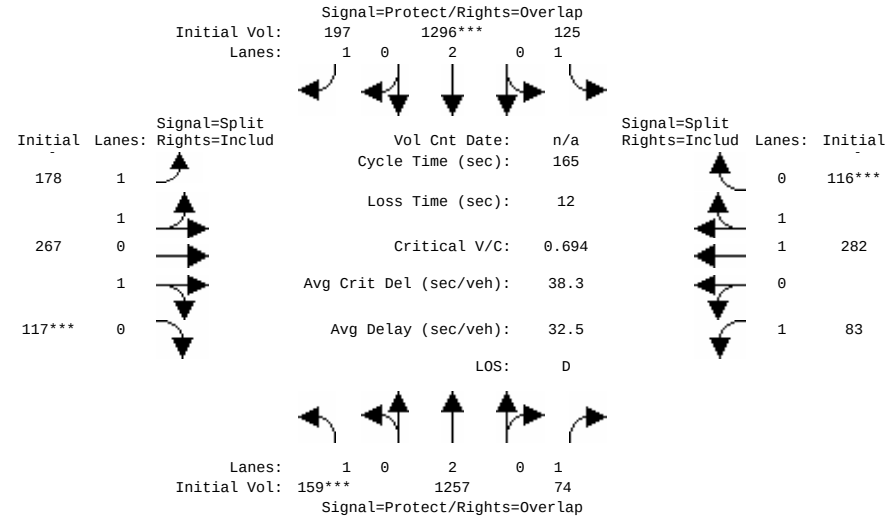
Intersection #1: Middlefield/Shoreline



Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	7	10	10	7	10	10	7	10	10	7	10	10
Volume Module:												
Base Vol:	292	697	83	121	360	202	191	743	181	236	1019	54
Growth Adj:	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17
Initial Bse:	342	817	97	142	422	237	224	871	212	277	1194	63
Added Vol:	0	24	0	0	8	0	0	0	0	0	0	0
Approved Pr:	4	186	20	0	39	3	12	49	18	6	115	0
Initial Fut:	346	1027	117	142	469	240	236	920	230	283	1309	63
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:	346	1027	117	142	469	240	236	920	230	283	1309	63
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	346	1027	117	142	469	240	236	920	230	283	1309	63
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 Vol.:	346	1027	117	142	469	240	236	920	230	283	1309	63
Saturation Flow Module:												
Sat/Lane:	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
Adjustment:	0.92	1.06	0.83	0.92	1.06	0.83	0.92	1.06	0.83	0.92	1.06	0.83
Lanes:	1.00	2.00	1.00	1.00	2.00	1.00	1.00	2.00	1.00	1.00	2.00	1.00
Final Sat.:	1662	3800	1487	1662	3800	1487	1662	3800	1487	1662	3800	1487
Capacity Analysis Module:												
Vol/Sat:	0.21	0.27	0.08	0.09	0.12	0.16	0.14	0.24	0.15	0.17	0.34	0.04
Crit Moves:	****	****	****	****	****	****	****	****	****	****	****	****
Green Time:	43.3	58.4	58.4	18.4	33.5	33.5	29.5	59.4	102.7	41.7	71.7	90.1
Volume/Cap:	0.91	0.88	0.26	0.88	0.70	0.91	0.91	0.77	0.29	0.77	0.91	0.09
Delay/Veh:	72.9	53.1	37.7	90.9	58.1	82.2	84.1	47.3	18.1	59.8	49.5	20.9
Delay Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
ProgAdjFctr:	1.00	0.85	0.85	1.00	0.85	0.85	1.00	0.85	0.85	1.00	0.85	0.85
AdjDel/Veh:	72.9	45.2	32.0	90.9	49.4	69.9	84.1	40.2	15.4	59.8	42.0	17.7
DesignQueue:	30	81	9	14	42	22	22	71	12	24	95	4

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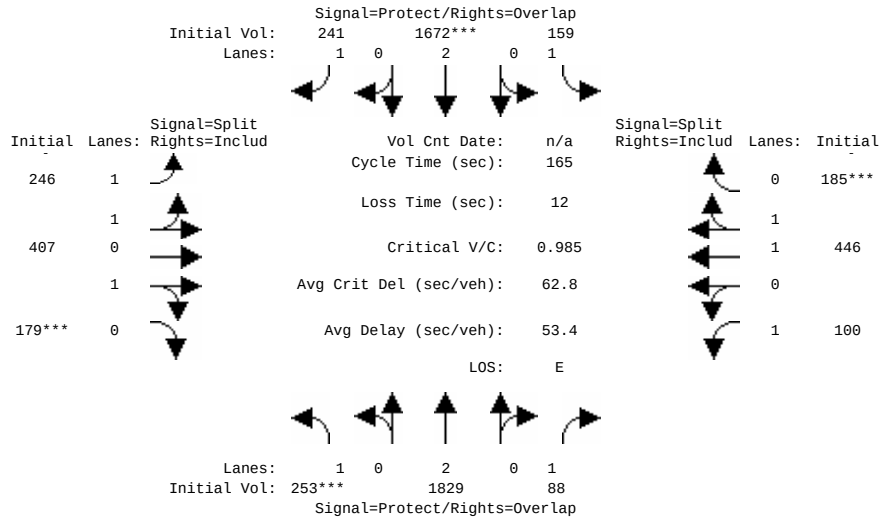
Intersection #2: Moffett/Central Expressway



Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	7	10	10	7	10	10	7	10	10	7	10	10
Volume Module:												
Base Vol:	159	1257	74	125	1296	197	178	267	117	83	282	116
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	159	1257	74	125	1296	197	178	267	117	83	282	116
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	159	1257	74	125	1296	197	178	267	117	83	282	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:	159	1257	74	125	1296	197	178	267	117	83	282	116
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	159	1257	74	125	1296	197	178	267	117	83	282	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
Final Vol.:	159	1257	74	125	1296	197	178	267	117	83	282	116
Saturation Flow Module:												
Sat/Lane:	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
Adjustment:	0.97	1.06	0.97	0.97	1.06	0.97	0.97	1.04	1.00	0.97	1.04	1.00
Lanes:	1.00	2.00	1.00	1.00	2.00	1.00	1.00	1.37	0.63	1.00	1.40	0.60
Final Sat.:	1750	3800	1750	1750	3800	1750	1750	2572	1127	1750	2621	1078
Capacity Analysis Module:												
Vol/Sat:	0.09	0.33	0.04	0.07	0.34	0.11	0.10	0.10	0.10	0.05	0.11	0.11
Crit Moves:	****	****	****	****	****	****	****	****	****	****	****	****
Green Time:	21.6	84.5	110.1	18.2	81.1	105.8	24.7	24.7	24.7	25.6	25.6	25.6
Volume/Cap:	0.69	0.65	0.06	0.65	0.69	0.18	0.68	0.69	0.69	0.31	0.69	0.69
Delay/Veh:	58.0	22.9	7.3	58.4	25.4	9.1	52.1	52.4	52.4	47.2	52.7	52.7
Delay Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
ProgAdjFctr:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	58.0	22.9	7.3	58.4	25.4	9.1	52.1	52.4	52.4	47.2	52.7	52.7
DesignQueue:	13	62	2	10	66	7	14	21	9	7	22	9

Level Of Service Computation Report
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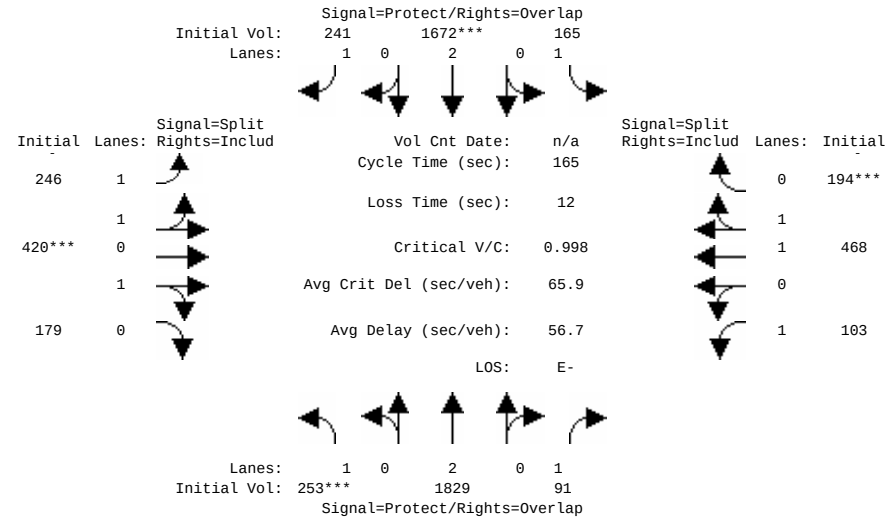
Intersection #2: Moffett/Central Expressway



Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	14	10	10	14	10	10	14	10	10	14	10	10
Volume Module:												
Base Vol:	159	1257	74	125	1296	197	178	267	117	83	282	116
Growth Adj:	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18
Initial Bse:	188	1488	88	148	1534	233	211	316	139	98	334	137
Added Vol:	0	0	0	2	0	0	0	6	0	2	38	15
Approved Pr:	65	341	0	9	138	8	35	85	40	0	74	33
Initial Fut:	253	1829	88	159	1672	241	246	407	179	100	446	185
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:	253	1829	88	159	1672	241	246	407	179	100	446	185
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	253	1829	88	159	1672	241	246	407	179	100	446	185
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 Vol.:	253	1829	88	159	1672	241	246	407	179	100	446	185
Saturation Flow Module:												
Sat/Lane:	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
Adjustment:	0.97	1.06	0.97	0.97	1.06	0.97	0.97	1.04	1.00	0.97	1.04	1.00
Lanes:	1.00	2.00	1.00	1.00	2.00	1.00	1.00	1.37	0.63	1.00	1.40	0.60
Final Sat.:	1750	3800	1750	1750	3800	1750	1750	2571	1128	1750	2613	1086
Capacity Analysis Module:												
Vol/Sat:	0.14	0.48	0.05	0.09	0.44	0.14	0.14	0.16	0.16	0.06	0.17	0.17
Crit Moves:	****	****	****	****	****	****	****	****	****	****	****	****
Green Time:	24.2	82.4	110.9	15.5	73.7	100.2	26.5	26.5	26.5	28.6	28.6	28.6
Volume/Cap:	0.99	0.96	0.07	0.96	0.99	0.23	0.87	0.99	0.99	0.33	0.99	0.99
Delay/Veh:	92.6	40.2	7.1	100.4	48.2	11.2	57.8	73.1	73.1	45.7	75.7	75.7
Delay Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
ProgAdjFctr:	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:	92.6	40.2	7.1	100.4	48.2	11.2	57.8	73.1	73.1	45.7	75.7	75.7
DesignQueue:	21	96	3	13	96	9	20	33	14	8	35	15

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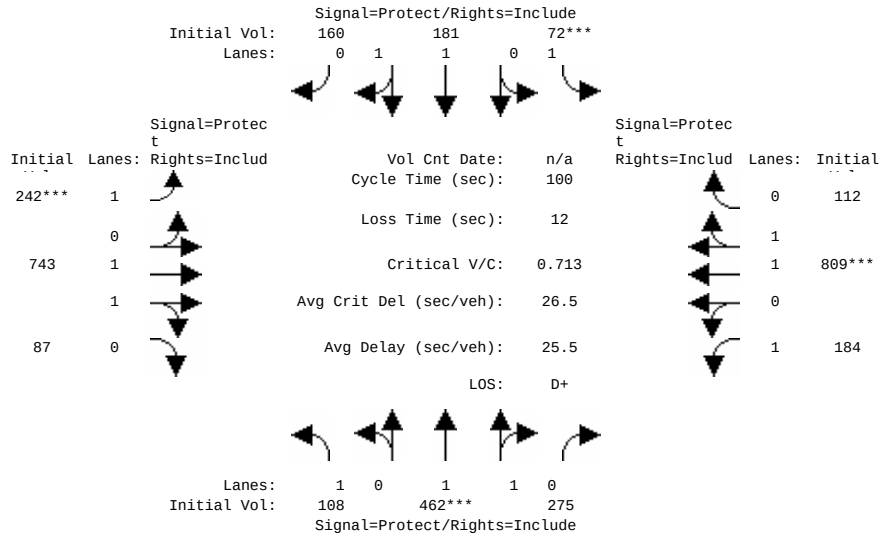
Intersection #2: Moffett/Central Expressway



Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	14	10	10	14	10	10	14	10	10	14	10	10
Volume Module:												
Base Vol:	159	1257	74	125	1296	197	178	267	117	83	282	116
Growth Adj:	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18
Initial Bse:	188	1488	88	148	1534	233	211	316	139	98	334	137
Added Vol:	0	0	3	8	0	0	0	19	0	5	60	24
Approved Pr:	65	341	0	9	138	8	35	85	40	0	74	33
Initial Fut:	253	1829	91	165	1672	241	246	420	179	103	468	194
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:	253	1829	91	165	1672	241	246	420	179	103	468	194
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	253	1829	91	165	1672	241	246	420	179	103	468	194
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 Vol.:	253	1829	91	165	1672	241	246	420	179	103	468	194
Saturation Flow Module:												
Sat/Lane:	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
Adjustment:	0.97	1.06	0.97	0.97	1.06	0.97	0.97	1.04	1.00	0.97	1.04	1.00
Lanes:	1.00	2.00	1.00	1.00	2.00	1.00	1.00	1.39	0.61	1.00	1.40	0.60
Final Sat.:	1750	3800	1750	1750	3800	1750	1750	2596	1103	1750	2613	1085
Capacity Analysis Module:												
Vol/Sat:	0.14	0.48	0.05	0.09	0.44	0.14	0.14	0.16	0.16	0.06	0.18	0.18
Crit Moves:	****	****	****	****	****	****	****	****	****	****	****	****
Green Time:	23.9	80.8	110.4	15.8	72.7	99.5	26.7	26.7	26.7	29.6	29.6	29.6
Volume/Cap:	1.00	0.98	0.08	0.98	1.00	0.23	0.87	1.00	1.00	0.33	1.00	1.00
Delay/Veh:	96.6	44.2	7.2	104.9	51.5	11.5	57.1	75.9	75.9	45.1	77.9	77.9
Delay Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
ProgAdjFctr:	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:	96.6	44.2	7.2	104.9	51.5	11.5	57.1	75.9	75.9	45.1	77.9	77.9
DesignQueue:	21	98	3	14	97	9	20	34	14	8	37	15

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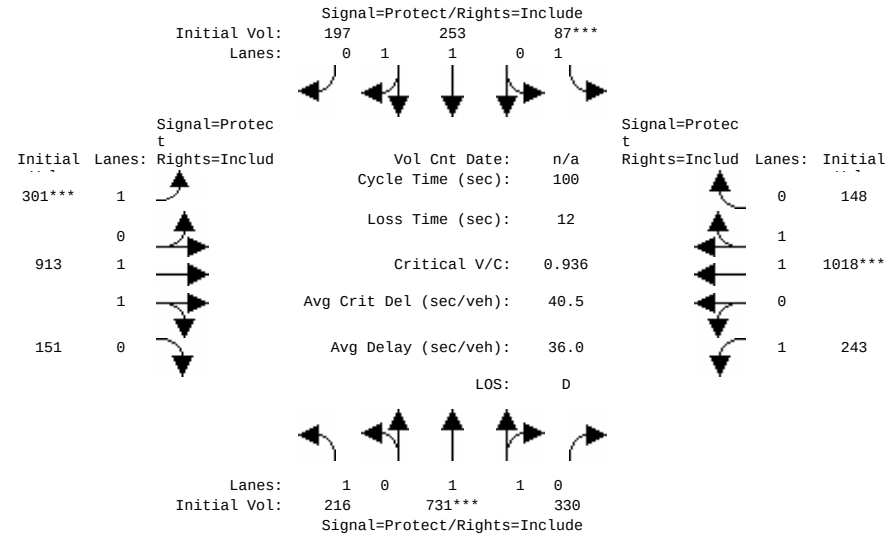
Intersection #3: Moffett/Middlefield



Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	7	10	10	7	10	10	7	10	10	7	10	10
Volume Module:												
Base Vol:	108	462	275	72	181	160	242	743	87	184	809	112
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:	108	462	275	72	181	160	242	743	87	184	809	112
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:	108	462	275	72	181	160	242	743	87	184	809	112
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:	108	462	275	72	181	160	242	743	87	184	809	112
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	108	462	275	72	181	160	242	743	87	184	809	112
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 Vol.:	108	462	275	72	181	160	242	743	87	184	809	112
Saturation Flow Module:												
Sat/Lane:	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
Adjustment:	0.97	1.04	1.00	0.97	1.05	1.00	0.97	1.03	1.00	0.97	1.03	1.00
Lanes:	1.00	1.23	0.77	1.00	1.04	0.96	1.00	1.78	0.22	1.00	1.74	0.25
Final Sat.:	1750	2318	1380	1750	1963	1735	1750	3312	388	1750	3250	450
Capacity Analysis Module:												
Vol/Sat:	0.06	0.20	0.20	0.04	0.09	0.09	0.14	0.22	0.22	0.11	0.25	0.25
Crit Moves:	****	****	****	****	****	****	****	****	****	****	****	****
Green Time:	14.2	27.5	27.5	7.0	20.3	20.3	19.1	36.4	36.4	17.1	34.4	34.4
Volume/Cap:	0.43	0.72	0.72	0.59	0.45	0.45	0.72	0.62	0.62	0.62	0.72	0.72
Delay/Veh:	30.6	26.7	26.7	39.3	26.9	26.9	34.0	20.4	20.4	31.9	23.2	23.2
Delay Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
ProgAdjFctr:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	30.6	26.7	26.7	39.3	26.9	26.9	34.0	20.4	20.4	31.9	23.2	23.2
DesignQueue:	5	20	12	4	8	7	11	28	3	9	32	4

Level Of Service Computation Report
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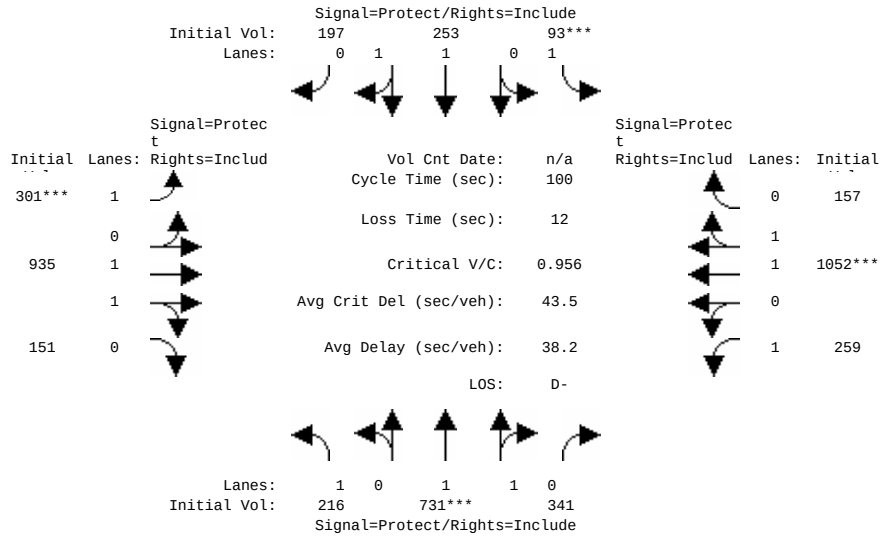
Intersection #3: Moffett/Middlefield



Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	7	10	10	7	10	10	7	10	10	7	10	10
Volume Module:												
Base Vol:	108	462	275	72	181	160	242	743	87	184	809	112
Growth Adj:	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18
Initial Bse:	128	547	326	85	214	189	287	880	103	218	958	133
Added Vol:	0	0	4	2	0	0	0	8	0	25	55	15
Approved Pr:	88	184	0	0	39	8	14	25	48	0	5	0
Initial Fut:	216	731	330	87	253	197	301	913	151	243	1018	148
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:	216	731	330	87	253	197	301	913	151	243	1018	148
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	216	731	330	87	253	197	301	913	151	243	1018	148
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 Vol.:	216	731	330	87	253	197	301	913	151	243	1018	148
Saturation Flow Module:												
Sat/Lane:	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
Adjustment:	0.97	1.04	1.00	0.97	1.05	1.00	0.97	1.03	1.00	0.97	1.03	1.00
Lanes:	1.00	1.36	0.64	1.00	1.10	0.90	1.00	1.71	0.29	1.00	1.74	0.25
Final Sat.:	1750	2549	1149	1750	2078	1620	1750	3174	525	1750	3231	469
Capacity Analysis Module:												
Vol/Sat:	0.12	0.29	0.29	0.05	0.12	0.12	0.17	0.29	0.29	0.14	0.31	0.31
Crit Moves:	****	****	****	****	****	****	****	****	****	****	****	****
Green Time:	18.6	30.0	30.0	7.0	18.4	18.4	18.0	34.4	34.4	16.6	33.0	33.0
Volume/Cap:	0.66	0.95	0.95	0.71	0.66	0.66	0.95	0.84	0.84	0.84	0.95	0.95
Delay/Veh:	32.1	38.8	38.8	46.1	30.5	30.5	59.2	26.5	26.5	43.6	36.8	36.8
Delay Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
ProgAdjFctr:	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:	32.1	38.8	38.8	46.1	30.5	30.5	59.2	26.5	26.5	43.6	36.8	36.8
DesignQueue:	10	31	14	5	12	9	14	36	6	12	41	6

Level Of Service Computation Report
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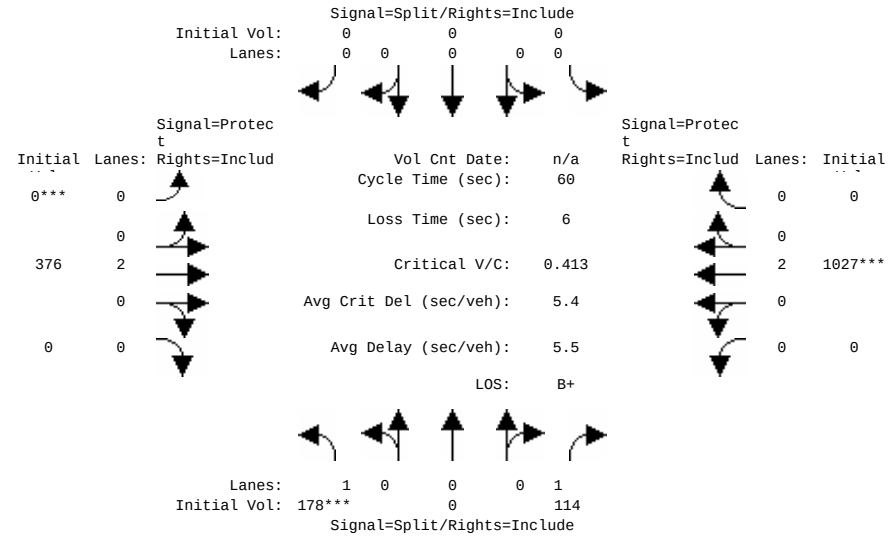
Intersection #3: Moffett/Middlefield



Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	7	10	10	7	10	10	7	10	10	7	10	10
Volume Module:												
Base Vol:	108	462	275	72	181	160	242	743	87	184	809	112
Growth Adj:	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18
Initial Bse:	128	547	326	85	214	189	287	880	103	218	958	133
Added Vol:	0	0	15	8	0	0	0	30	0	41	89	24
Approved Pr:	88	184	0	0	39	8	14	25	48	0	5	0
Initial Fut:	216	731	341	93	253	197	301	935	151	259	1052	157
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:	216	731	341	93	253	197	301	935	151	259	1052	157
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	216	731	341	93	253	197	301	935	151	259	1052	157
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 Vol.:	216	731	341	93	253	197	301	935	151	259	1052	157
Saturation Flow Module:												
Sat/Lane:	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
Adjustment:	0.97	1.04	1.00	0.97	1.05	1.00	0.97	1.03	1.00	0.97	1.03	1.00
Lanes:	1.00	1.35	0.65	1.00	1.10	0.90	1.00	1.71	0.29	1.00	1.73	0.27
Final Sat.:	1750	2523	1176	1750	2078	1620	1750	3185	515	1750	3220	479
Capacity Analysis Module:												
Vol/Sat:	0.12	0.29	0.29	0.05	0.12	0.12	0.17	0.29	0.29	0.15	0.33	0.33
Crit Moves:	****	****	****	****	****	****	****	****	****	****	****	****
Green Time:	18.5	29.8	29.8	7.0	18.3	18.3	17.7	34.1	34.1	17.2	33.6	33.6
Volume/Cap:	0.67	0.97	0.97	0.76	0.67	0.67	0.97	0.86	0.86	0.86	0.97	0.97
Delay/Veh:	32.4	41.9	41.9	50.4	30.7	30.7	63.7	27.9	27.9	45.6	39.3	39.3
Delay Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
ProgAdjFctr:	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:	32.4	41.9	41.9	50.4	30.7	30.7	63.7	27.9	27.9	45.6	39.3	39.3
DesignQueue:	10	31	14	5	12	9	14	37	6	12	42	6

Level Of Service Computation Report
1985 HCM Operations (Future Volume Alternative)
PM Peak

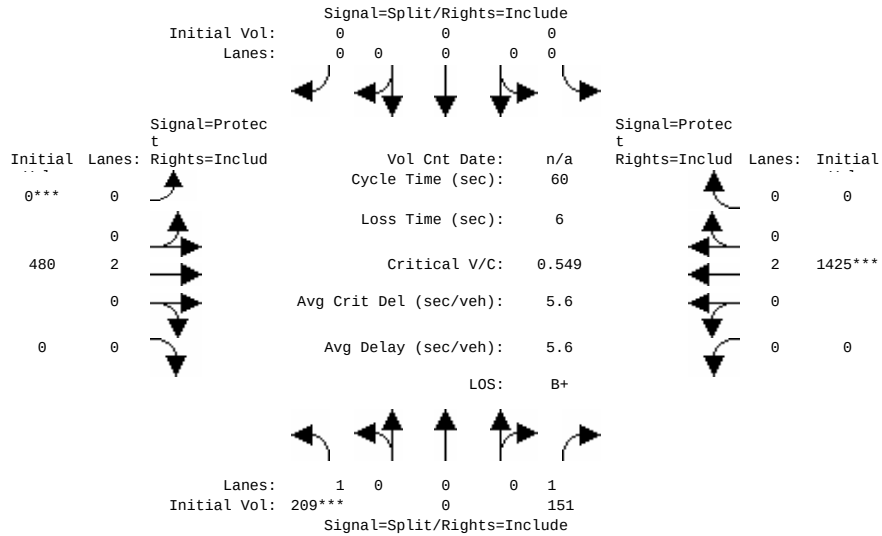
Intersection #4: Moffett/85 NB Ramp



Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	10	0	10	0	0	0	0	10	0	0	10	0
Volume Module:												
Base Vol:	178	0	114	0	0	0	0	376	0	0	1027	0
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	178	0	114	0	0	0	0	376	0	0	1027	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:	178	0	114	0	0	0	0	376	0	0	1027	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:	178	0	114	0	0	0	0	376	0	0	1027	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	178	0	114	0	0	0	0	376	0	0	1027	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 Vol.:	178	0	114	0	0	0	0	376	0	0	1027	0
Saturation Flow Module:												
Sat/Lane:	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
Adjustment:	0.97	1.06	0.97	0.97	1.06	0.97	0.97	1.06	0.97	0.97	1.06	0.97
Lanes:	1.00	0.00	1.00	0.00	0.00	0.00	0.00	2.00	0.00	0.00	2.00	0.00
Final Sat.:	1750	0	1750	0	0	0	0	3800	0	0	3800	0
Capacity Analysis Module:												
Vol/Sat:	0.10	0.00	0.07	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.27	0.00
Crit Moves:	****	****	****	****	****	****	****	****	****	****	****	****
Green Time:	14.8	0.0	14.8	0.0	0.0	0.0	0.0	39.2	0.0	0.0	39.2	0.0
Volume/Cap:	0.41	0.00	0.26	0.00	0.00	0.00	0.00	0.15	0.00	0.00	0.41	0.00
Delay/Veh:	14.8	0.0	13.9	0.0	0.0	0.0	0.0	3.0	0.0	0.0	3.8	0.0
Delay Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
ProgAdjFctr:	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:	14.8	0.0	13.9	0.0	0.0	0.0	0.0	3.0	0.0	0.0	3.8	0.0
DesignQueue:	5	0	3	0	0	0	0	4	0	0	13	0

Level Of Service Computation Report
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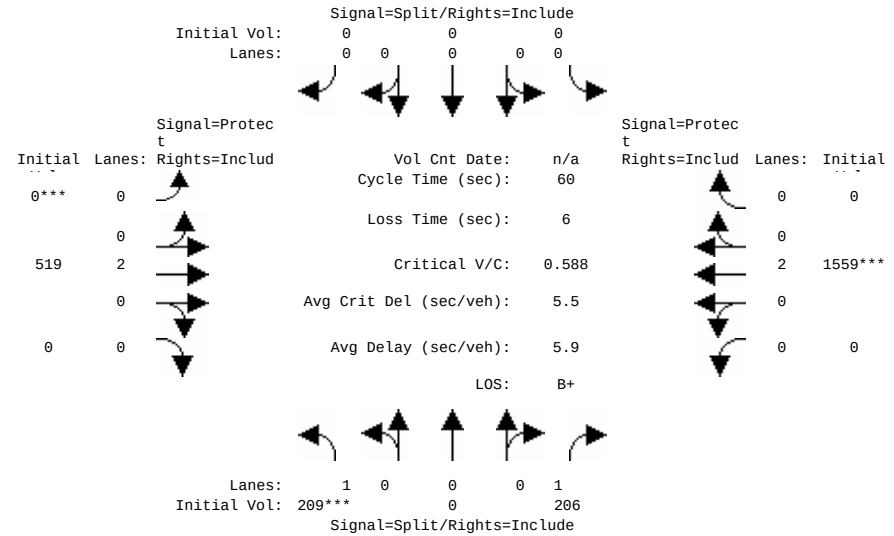
Intersection #4: Moffett/85 NB Ramp



Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	10	0	10	0	0	0	0	10	0	0	10	0
Volume Module:												
Base Vol:	178	0	114	0	0	0	0	376	0	0	1027	0
Growth Adj:	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17
Initial Bse:	209	0	134	0	0	0	0	441	0	0	1204	0
Added Vol:	0	0	17	0	0	0	0	14	0	0	213	0
Approved Pr:	0	0	0	0	0	0	0	25	0	0	8	0
Initial Fut:	209	0	151	0	0	0	0	480	0	0	1425	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:	209	0	151	0	0	0	0	480	0	0	1425	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	209	0	151	0	0	0	0	480	0	0	1425	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 Vol.:	209	0	151	0	0	0	0	480	0	0	1425	0
Saturation Flow Module:												
Sat/Lane:	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
Adjustment:	0.97	1.06	0.97	0.97	1.06	0.97	0.97	1.06	0.97	0.97	1.06	0.97
Lanes:	1.00	0.00	1.00	0.00	0.00	0.00	0.00	2.00	0.00	0.00	2.00	0.00
Final Sat.:	1750	0	1750	0	0	0	0	3800	0	0	3800	0
Capacity Analysis Module:												
Vol/Sat:	0.12	0.00	0.09	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.37	0.00
Crit Moves:	****						****			****		
Green Time:	13.0	0.0	13.0	0.0	0.0	0.0	0.0	41.0	0.0	0.0	41.0	0.0
Volume/Cap:	0.55	0.00	0.40	0.00	0.00	0.00	0.00	0.18	0.00	0.00	0.55	0.00
Delay/Veh:	17.2	0.0	15.7	0.0	0.0	0.0	0.0	2.6	0.0	0.0	3.9	0.0
Delay Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
ProgAdjFctr:	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:	17.2	0.0	15.7	0.0	0.0	0.0	0.0	2.6	0.0	0.0	3.9	0.0
DesignQueue:	6	0	4	0	0	0	0	5	0	0	17	0

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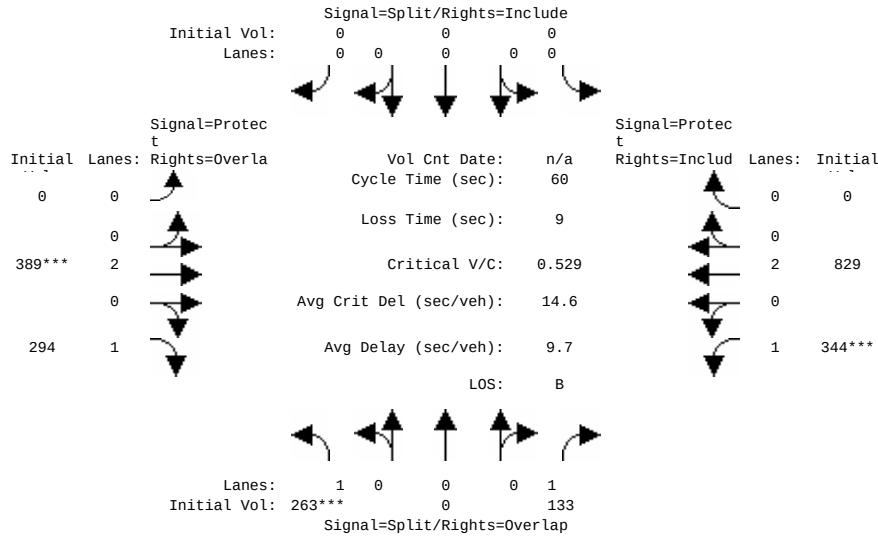
Intersection #4: Moffett/85 NB Ramp



Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	10	0	10	0	0	0	0	10	0	0	10	0
Volume Module:												
Base Vol:	178	0	114	0	0	0	0	376	0	0	1027	0
Growth Adj:	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17
Initial Bse:	209	0	134	0	0	0	0	441	0	0	1204	0
Added Vol:	0	0	72	0	0	0	0	53	0	0	347	0
Approved Pr:	0	0	0	0	0	0	0	25	0	0	8	0
Initial Fut:	209	0	206	0	0	0	0	519	0	0	1559	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:	209	0	206	0	0	0	0	519	0	0	1559	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	209	0	206	0	0	0	0	519	0	0	1559	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 Vol.:	209	0	206	0	0	0	0	519	0	0	1559	0
Saturation Flow Module:												
Sat/Lane:	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
Adjustment:	0.97	1.06	0.97	0.97	1.06	0.97	0.97	1.06	0.97	0.97	1.06	0.97
Lanes:	1.00	0.00	1.00	0.00	0.00	0.00	0.00	2.00	0.00	0.00	2.00	0.00
Final Sat.:	1750	0	1750	0	0	0	0	3800	0	0	3800	0
Capacity Analysis Module:												
Vol/Sat:	0.12	0.00	0.12	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.41	0.00
Crit Moves:	****						****			****		
Green Time:	12.2	0.0	12.2	0.0	0.0	0.0	0.0	41.8	0.0	0.0	41.8	0.0
Volume/Cap:	0.59	0.00	0.58	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.59	0.00
Delay/Veh:	18.3	0.0	18.2	0.0	0.0	0.0	0.0	2.4	0.0	0.0	3.8	0.0
Delay Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
ProgAdjFctr:	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:	18.3	0.0	18.2	0.0	0.0	0.0	0.0	2.4	0.0	0.0	3.8	0.0
DesignQueue:	6	0	6	0	0	0	0	5	0	0	18	0

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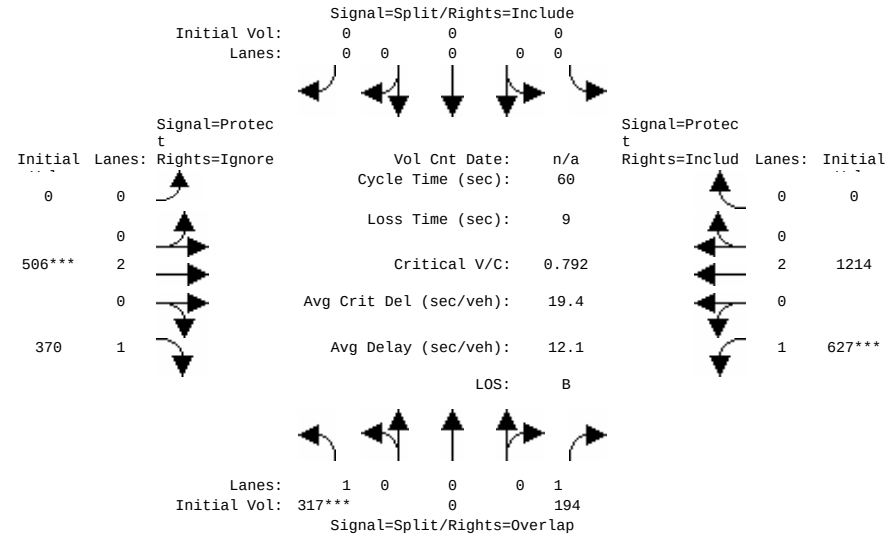
Intersection #5: Moffett/101 SB Ramps



Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	10	0	10	0	0	0	0	10	10	7	10	0
Volume Module:												
Base Vol:	263	0	133	0	0	0	0	389	294	344	829	0
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	263	0	133	0	0	0	0	389	294	344	829	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:	263	0	133	0	0	0	0	389	294	344	829	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:	263	0	133	0	0	0	0	389	294	344	829	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	263	0	133	0	0	0	0	389	294	344	829	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 Vol.:	263	0	133	0	0	0	0	389	294	344	829	0
Saturation Flow Module:												
Sat/Lane:	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
Adjustment:	0.97	1.06	0.97	0.97	1.06	0.97	0.97	1.06	0.97	0.97	1.06	0.97
Lanes:	1.00	0.00	1.00	0.00	0.00	0.00	0.00	2.00	1.00	1.00	2.00	0.00
Final Sat.:	1750	0	1750	0	0	0	0	3800	1750	1750	3800	0
Capacity Analysis Module:												
Vol/Sat:	0.15	0.00	0.08	0.00	0.00	0.00	0.00	0.10	0.17	0.20	0.22	0.00
Crit Moves:	****				****				****			
Green Time:	17.1	0.0	39.4	0.0	0.0	0.0	0.0	11.6	28.7	23.3	33.9	0.0
Volume/Cap:	0.53	0.00	0.12	0.00	0.00	0.00	0.00	0.53	0.35	0.53	0.39	0.00
Delay/Veh:	14.6	0.0	2.9	0.0	0.0	0.0	0.0	17.1	7.6	11.9	5.6	0.0
Delay Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
ProgAdjFctr:	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:	14.6	0.0	2.9	0.0	0.0	0.0	0.0	17.1	7.6	11.9	5.6	0.0
DesignQueue:	7	0	2	0	0	0	0	11	5	8	13	0

Level Of Service Computation Report
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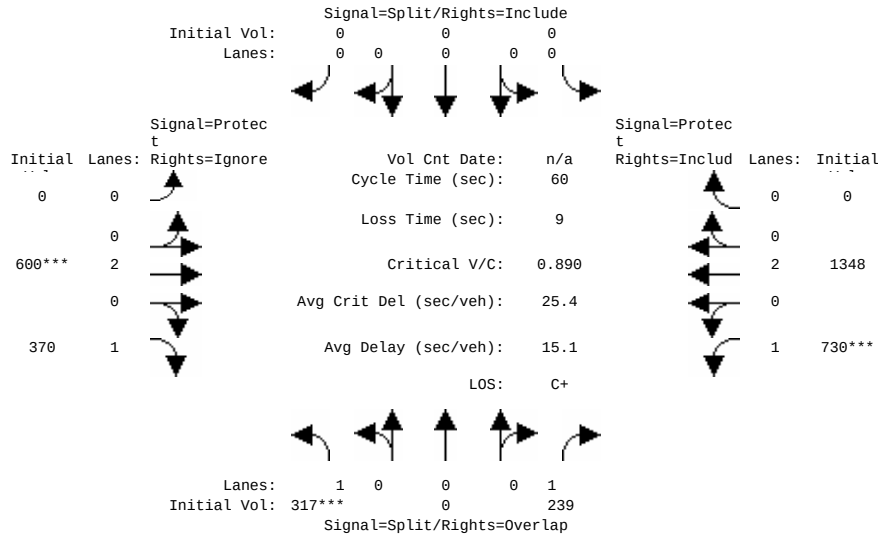
Intersection #5: Moffett/101 SB Ramps



Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	10	0	10	0	0	0	0	10	10	7	10	0
Volume Module:												
Base Vol:	263	0	133	0	0	0	0	389	294	344	829	0
Growth Adj:	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17
Initial Bse:	308	0	156	0	0	0	0	456	345	403	972	0
Added Vol:	0	0	19	0	0	0	0	31	0	162	213	0
Approved Pr:	9	0	19	0	0	0	0	19	25	62	29	0
Initial Fut:	317	0	194	0	0	0	0	506	370	627	1214	0
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00
PHF Volume:	317	0	194	0	0	0	0	506	0	627	1214	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	317	0	194	0	0	0	0	506	0	627	1214	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	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00
Final Vol.:	317	0	194	0	0	0	0	506	0	627	1214	0
Saturation Flow Module:												
Sat/Lane:	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
Adjustment:	0.97	1.06	0.97	0.97	1.06	0.97	0.97	1.06	0.97	0.97	1.06	0.97
Lanes:	1.00	0.00	1.00	0.00	0.00	0.00	0.00	2.00	1.00	1.00	2.00	0.00
Final Sat.:	1750	0	1750	0	0	0	0	3800	1750	1750	3800	0
Capacity Analysis Module:												
Vol/Sat:	0.18	0.00	0.11	0.00	0.00	0.00	0.00	0.13	0.00	0.36	0.32	0.00
Crit Moves:	****				****				****			
Green Time:	13.7	0.0	40.9	0.0	0.0	0.0	0.0	10.1	0.0	27.2	37.3	0.0
Volume/Cap:	0.79	0.00	0.16	0.00	0.00	0.00	0.00	0.79	0.00	0.79	0.51	0.00
Delay/Veh:	23.7	0.0	2.6	0.0	0.0	0.0	0.0	22.9	0.0	14.5	5.0	0.0
Delay Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
ProgAdjFctr:	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:	23.7	0.0	2.6	0.0	0.0	0.0	0.0	22.9	0.0	14.5	5.0	0.0
DesignQueue:	9	0	2	0	0	0	0	15	0	13	17	0

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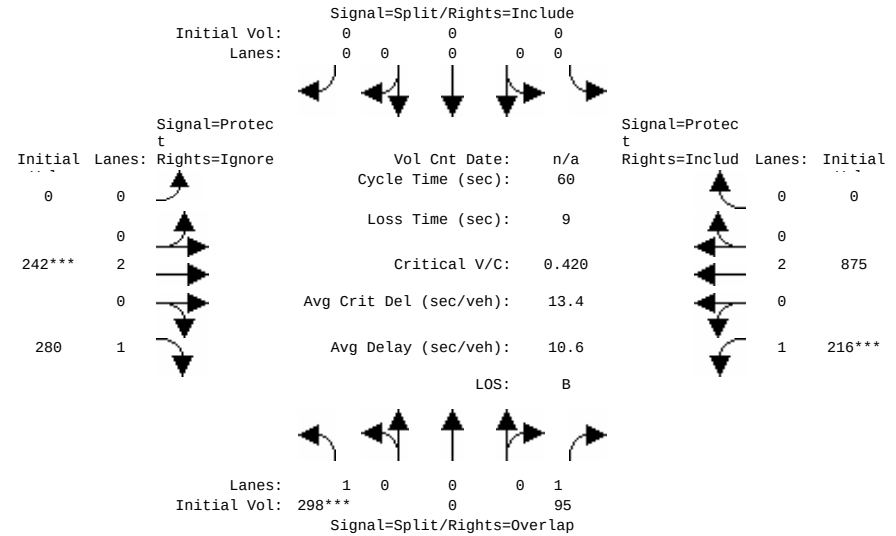
Intersection #5: Moffett/101 SB Ramps



Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	10	0	10	0	0	0	0	10	10	7	10	0
Volume Module:												
Base Vol:	263	0	133	0	0	0	0	389	294	344	829	0
Growth Adj:	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17
Initial Bse:	308	0	156	0	0	0	0	456	345	403	972	0
Added Vol:	0	0	64	0	0	0	0	125	0	265	347	0
Approved Pr:	9	0	19	0	0	0	0	19	25	62	29	0
Initial Fut:	317	0	239	0	0	0	0	600	370	730	1348	0
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00
PHF Volume:	317	0	239	0	0	0	0	600	0	730	1348	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	317	0	239	0	0	0	0	600	0	730	1348	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	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00
Final Vol.:	317	0	239	0	0	0	0	600	0	730	1348	0
Saturation Flow Module:												
Sat/Lane:	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
Adjustment:	0.97	1.06	0.97	0.97	1.06	0.97	0.97	1.06	0.97	0.97	1.06	0.97
Lanes:	1.00	0.00	1.00	0.00	0.00	0.00	0.00	2.00	1.00	1.00	2.00	0.00
Final Sat.:	1750	0	1750	0	0	0	0	3800	1750	1750	3800	0
Capacity Analysis Module:												
Vol/Sat:	0.18	0.00	0.14	0.00	0.00	0.00	0.00	0.16	0.00	0.42	0.35	0.00
Crit Moves:	****						****			****		
Green Time:	12.2	0.0	40.4	0.0	0.0	0.0	0.0	10.6	0.0	28.1	38.8	0.0
Volume/Cap:	0.89	0.00	0.20	0.00	0.00	0.00	0.00	0.89	0.00	0.89	0.55	0.00
Delay/Veh:	33.8	0.0	2.8	0.0	0.0	0.0	0.0	28.2	0.0	19.5	4.6	0.0
Delay Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
ProgAdjFctr:	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:	33.8	0.0	2.8	0.0	0.0	0.0	0.0	28.2	0.0	19.5	4.6	0.0
DesignQueue:	9	0	3	0	0	0	0	17	0	14	18	0

Level Of Service Computation Report
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PM Peak

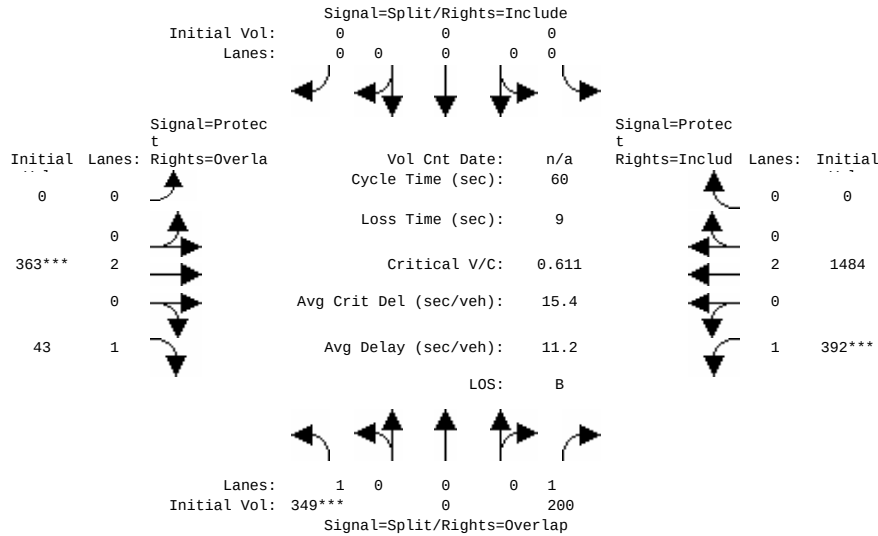
Intersection #6: Moffett/101 NB Ramps



Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	10	0	10	0	0	0	0	10	10	7	10	0
Volume Module:												
Base Vol:	298	0	95	0	0	0	0	242	280	216	875	0
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	298	0	95	0	0	0	0	242	280	216	875	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:	298	0	95	0	0	0	0	242	280	216	875	0
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00
PHF Volume:	298	0	95	0	0	0	0	242	0	216	875	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	298	0	95	0	0	0	0	242	0	216	875	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	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00
Final Vol.:	298	0	95	0	0	0	0	242	0	216	875	0
Saturation Flow Module:												
Sat/Lane:	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
Adjustment:	0.97	1.06	0.97	0.97	1.06	0.97	0.97	1.06	0.97	0.97	1.06	0.97
Lanes:	1.00	0.00	1.00	0.00	0.00	0.00	0.00	2.00	1.00	1.00	2.00	0.00
Final Sat.:	1750	0	1750	0	0	0	0	3800	1750	1750	3800	0
Capacity Analysis Module:												
Vol/Sat:	0.17	0.00	0.05	0.00	0.00	0.00	0.00	0.06	0.00	0.12	0.23	0.00
Crit Moves:	****						****			****		
Green Time:	23.8	0.0	41.0	0.0	0.0	0.0	0.0	10.0	0.0	17.2	27.2	0.0
Volume/Cap:	0.43	0.00	0.08	0.00	0.00	0.00	0.00	0.38	0.00	0.43	0.51	0.00
Delay/Veh:	10.3	0.0	2.4	0.0	0.0	0.0	0.0	17.1	0.0	13.6	9.0	0.0
Delay Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
ProgAdjFctr:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	10.3	0.0	2.4	0.0	0.0	0.0	0.0	17.1	0.0	13.6	9.0	0.0
DesignQueue:	6	0	1	0	0	0	0	7	0	5	17	0

Level Of Service Computation Report
1985 HCM Operations (Future Volume Alternative)
PM 2013 Project Alt. 1

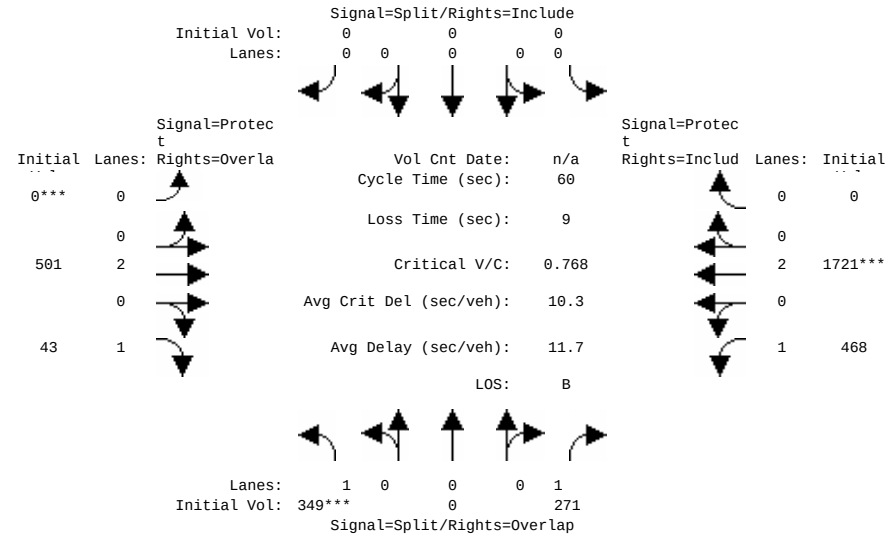
Intersection #6: Moffett/101 NB Ramps



Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	10	0	10	0	0	0	0	10	10	7	10	0
Volume Module:												
Base Vol:	298	0	95	0	0	0	0	242	0	216	875	0
Growth Adj:	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17
Initial Bse:	349	0	111	0	0	0	0	284	0	253	1026	0
Added Vol:	0	0	24	0	0	0	0	50	0	129	375	0
Approved Pr:	0	0	65	0	0	0	0	29	43	10	83	0
Initial Fut:	349	0	200	0	0	0	0	363	43	392	1484	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:	349	0	200	0	0	0	0	363	43	392	1484	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	349	0	200	0	0	0	0	363	43	392	1484	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 Vol.:	349	0	200	0	0	0	0	363	43	392	1484	0
Saturation Flow Module:												
Sat/Lane:	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
Adjustment:	0.97	1.06	0.97	0.97	1.06	0.97	0.97	1.06	0.97	0.97	1.06	0.97
Lanes:	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	2.00	1.00	0.00	0.00
Final Sat.:	1750	0	1750	0	0	0	0	3800	1750	1750	3800	0
Capacity Analysis Module:												
Vol/Sat:	0.20	0.00	0.11	0.00	0.00	0.00	0.00	0.10	0.02	0.22	0.39	0.00
Crit Moves:	****							****				
Green Time:	19.3	0.0	41.0	0.0	0.0	0.0	0.0	10.0	29.3	21.7	31.7	0.0
Volume/Cap:	0.62	0.00	0.17	0.00	0.00	0.00	0.00	0.57	0.05	0.62	0.74	0.00
Delay/Veh:	14.6	0.0	2.6	0.0	0.0	0.0	0.0	18.4	6.1	13.3	9.4	0.0
Delay Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
ProgAdjFctr:	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:	14.6	0.0	2.6	0.0	0.0	0.0	0.0	18.4	6.1	13.3	9.4	0.0
DesignQueue:	8	0	2	0	0	0	0	10	1	9	26	0

Level Of Service Computation Report
1985 HCM Operations (Future Volume Alternative)
PM 2013 Project Alt. 5

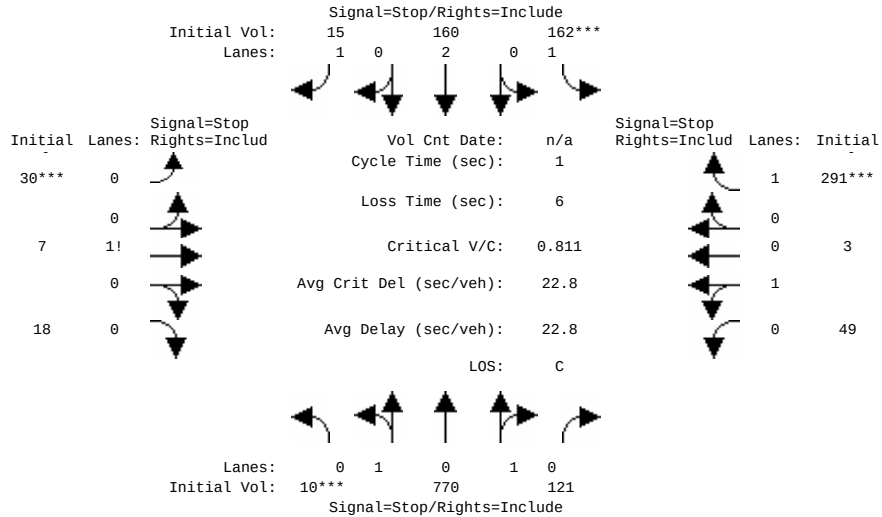
Intersection #6: Moffett/101 NB Ramps



Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	10	0	10	0	0	0	0	10	10	7	10	0
Volume Module:												
Base Vol:	298	0	95	0	0	0	0	242	0	216	875	0
Growth Adj:	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17
Initial Bse:	349	0	111	0	0	0	0	284	0	253	1026	0
Added Vol:	0	0	95	0	0	0	0	188	0	205	612	0
Approved Pr:	0	0	65	0	0	0	0	29	43	10	83	0
Initial Fut:	349	0	271	0	0	0	0	501	43	468	1721	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:	349	0	271	0	0	0	0	501	43	468	1721	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	349	0	271	0	0	0	0	501	43	468	1721	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 Vol.:	349	0	271	0	0	0	0	501	43	468	1721	0
Saturation Flow Module:												
Sat/Lane:	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
Adjustment:	0.97	1.06	0.97	0.97	1.06	0.97	0.97	1.06	0.97	0.97	1.06	0.97
Lanes:	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	2.00	1.00	0.00	0.00
Final Sat.:	1750	0	1750	0	0	0	0	3800	1750	1750	3800	0
Capacity Analysis Module:												
Vol/Sat:	0.20	0.00	0.16	0.00	0.00	0.00	0.00	0.13	0.02	0.27	0.45	0.00
Crit Moves:	****							****				
Green Time:	15.6	0.0	41.0	0.0	0.0	0.0	0.0	10.0	25.6	25.4	35.4	0.0
Volume/Cap:	0.77	0.00	0.23	0.00	0.00	0.00	0.00	0.79	0.06	0.63	0.77	0.00
Delay/Veh:	20.9	0.0	2.7	0.0	0.0	0.0	0.0	22.9	7.7	11.6	8.2	0.0
Delay Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
ProgAdjFctr:	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:	20.9	0.0	2.7	0.0	0.0	0.0	0.0	22.9	7.7	11.6	8.2	0.0
DesignQueue:	9	0	3	0	0	0	0	14	1	10	27	0

Level Of Service Computation Report
1997 HCM 4-Way Stop (Future Volume Alternative)
PM Peak

Intersection #7: Moffett-Clark/Moffett Extension



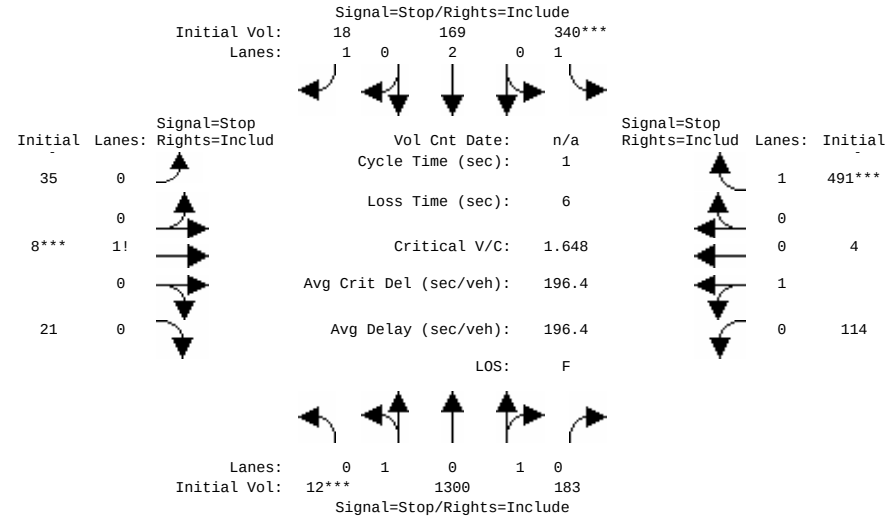
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	7	10	10	7	10	10	7	10	10	7	10	10
Volume Module:												
Base Vol:	10	770	121	162	160	15	30	7	18	49	3	291
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	10	770	121	162	160	15	30	7	18	49	3	291
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:	10	770	121	162	160	15	30	7	18	49	3	291
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:	10	770	121	162	160	15	30	7	18	49	3	291
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	10	770	121	162	160	15	30	7	18	49	3	291
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 Vol.:	10	770	121	162	160	15	30	7	18	49	3	291

Saturation Flow Module:												
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	0.02	1.71	0.27	1.00	2.00	1.00	0.54	0.13	0.33	0.94	0.06	1.00
Final Sat.:	12	962	154	422	889	484	234	55	141	412	25	515

Capacity Analysis Module:												
Vol/Sat:	0.81	0.80	0.79	0.38	0.18	0.03	0.13	0.13	0.13	0.12	0.12	0.57
Crit Moves:	****	****	****	****	****	****	****	****	****	****	****	****
Delay/Veh:	30.7	29.4	27.7	15.8	12.1	10.0	12.0	12.0	12.0	11.7	11.7	17.3
Delay Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	30.7	29.4	27.7	15.8	12.1	10.0	12.0	12.0	12.0	11.7	11.7	17.3
LOS by Move:	D	D	D	C	B	A	B	B	B	B	B	C
ApproachDel:	29.2			13.8			12.0			16.4		
Delay Adj:	1.00			1.00			1.00			1.00		
ApprAdjDel:	29.2			13.8			12.0			16.4		
LOS by Appr:	D			B			B			C		

Level Of Service Computation Report
1997 HCM 4-Way Stop (Future Volume Alternative)
PM 2013 Project Alt. 1

Intersection #7: Moffett-Clark/Moffett Extension



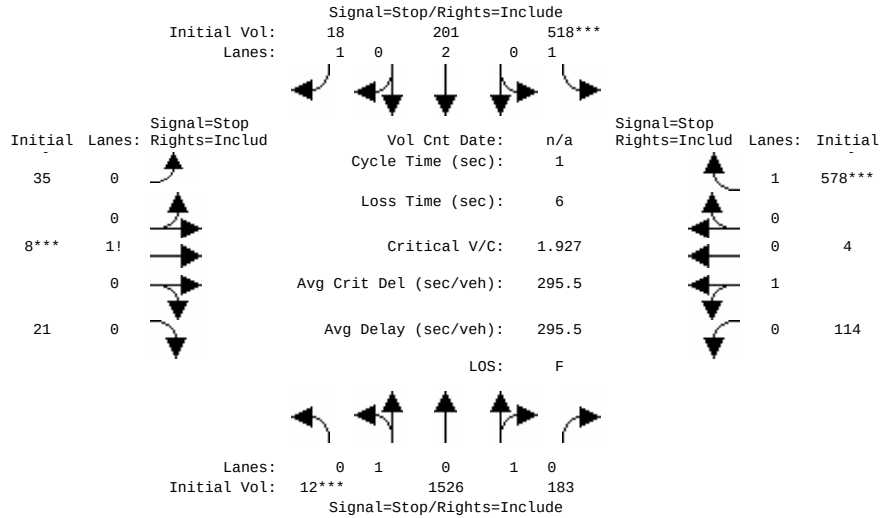
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	7	10	10	7	10	10	7	10	10	7	10	10
Volume Module:												
Base Vol:	10	770	121	162	160	15	30	7	18	49	3	291
Growth Adj:	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17
Initial Bse:	12	903	142	190	188	18	35	8	21	57	4	341
Added Vol:	0	504	0	0	74	0	0	0	0	0	0	0
Approved Pr:	0	-107	41	150	-93	0	0	0	0	57	0	150
Initial Fut:	12	1300	183	340	169	18	35	8	21	114	4	491
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	1300	183	340	169	18	35	8	21	114	4	491
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	12	1300	183	340	169	18	35	8	21	114	4	491
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 Vol.:	12	1300	183	340	169	18	35	8	21	114	4	491

Saturation Flow Module:												
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	0.02	1.74	0.24	1.00	2.00	1.00	0.54	0.13	0.33	0.97	0.03	1.00
Final Sat.:	7	796	113	375	788	427	204	48	122	396	12	476

Capacity Analysis Module:												
Vol/Sat:	1.65	1.63	1.61	0.91	0.21	0.04	0.17	0.17	0.17	0.29	0.29	1.03
Crit Moves:	****	****	****	****	****	****	****	****	****	****	****	****
Delay/Veh:	320.6	313	303.9	57.4	14.3	11.5	14.5	14.5	14.5	14.9	14.9	76.8
Delay Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	320.6	313	303.9	57.4	14.3	11.5	14.5	14.5	14.5	14.9	14.9	76.8
LOS by Move:	F	F	F	F	B	B	B	B	B	B	B	F
ApproachDel:	312.2			42.1			14.5			64.8		
Delay Adj:	1.00			1.00			1.00			1.00		
ApprAdjDel:	312.2			42.1			14.5			64.8		
LOS by Appr:	F			E			B			F		

Level Of Service Computation Report
1997 HCM 4-Way Stop (Future Volume Alternative)
PM 2013 Project Alt. 5

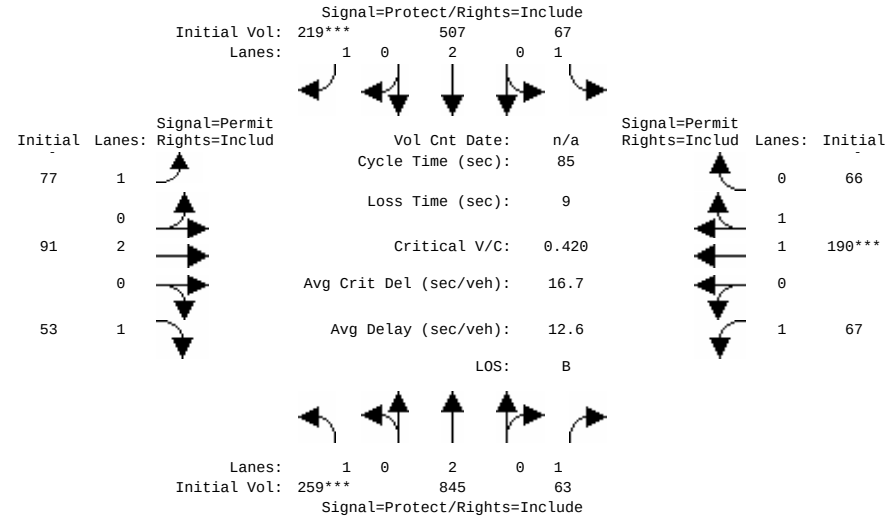
Intersection #7: Moffett-Clark/Moffett Extension



Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	7	10	10	7	10	10	7	10	10	7	10	10
Volume Module:												
Base Vol:	10	770	121	162	160	15	30	7	18	49	3	291
Growth Adj:	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17
Initial Bse:	12	903	142	190	188	18	35	8	21	57	4	341
Added Vol:	0	730	0	178	106	0	0	0	0	0	0	87
Approved Pr:	0	-107	41	150	-93	0	0	0	0	57	0	150
Initial Fut:	12	1526	183	518	201	18	35	8	21	114	4	578
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	1526	183	518	201	18	35	8	21	114	4	578
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	12	1526	183	518	201	18	35	8	21	114	4	578
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 Vol.:	12	1526	183	518	201	18	35	8	21	114	4	578
Saturation Flow Module:												
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	0.01	1.78	0.21	1.00	2.00	1.00	0.54	0.13	0.33	0.97	0.03	1.00
Final Sat.:	6	799	97	374	789	427	204	48	122	392	12	468
Capacity Analysis Module:												
Vol/Sat:	1.93	1.91	1.89	1.38	0.25	0.04	0.17	0.17	0.17	0.29	0.29	1.24
Crit Moves:	****	****	****	****	****	****	****	****	****	****	****	****
Delay/Veh:	443.2	436	426.4	214.4	14.9	11.5	14.6	14.6	14.6	15.2	15.2	147.9
Delay Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	443.2	436	426.4	214.4	14.9	11.5	14.6	14.6	14.6	15.2	15.2	147.9
LOS by Move:	F	F	F	F	B	B	B	B	B	C	C	F
ApproachDel:	434.8			155.2			14.6			125.4		
Delay Adj:	1.00			1.00			1.00			1.00		
ApprAdjDel:	434.8			155.2			14.6			125.4		
LOS by Appr:	F			F			B			F		

Level Of Service Computation Report
1985 HCM Operations (Future Volume Alternative)
PM Peak

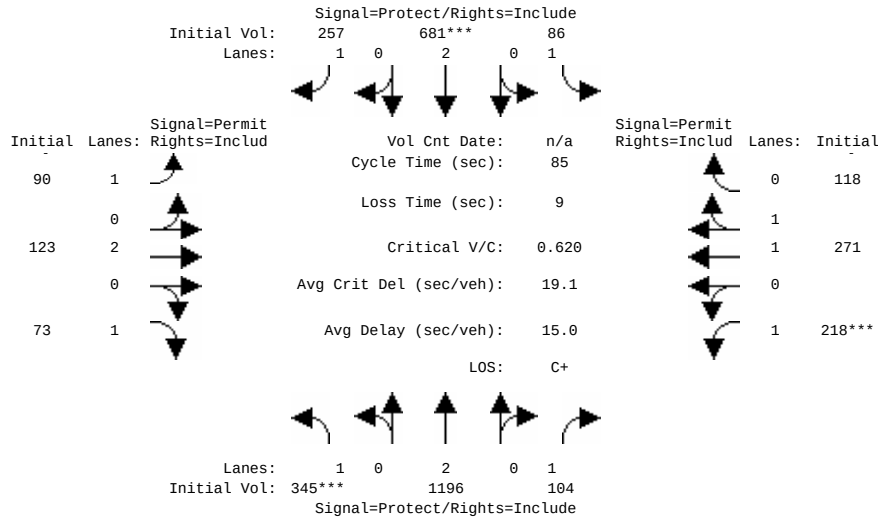
Intersection #8: Whisman/Middlefield



Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	7	10	10	7	10	10	10	10	10	10	10	10
Volume Module:												
Base Vol:	259	845	63	67	507	219	77	91	53	67	190	66
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:	259	845	63	67	507	219	77	91	53	67	190	66
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:	259	845	63	67	507	219	77	91	53	67	190	66
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:	259	845	63	67	507	219	77	91	53	67	190	66
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	259	845	63	67	507	219	77	91	53	67	190	66
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 Vol.:	259	845	63	67	507	219	77	91	53	67	190	66
Saturation Flow Module:												
Sat/Lane:	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
Adjustment:	0.92	1.06	0.83	0.92	1.06	0.83	0.65	1.06	0.83	0.81	1.00	0.96
Lanes:	1.00	2.00	1.00	1.00	2.00	1.00	1.00	2.00	1.00	1.00	1.47	0.53
Final Sat.:	1662	3800	1487	1662	3800	1487	1172	3800	1487	1452	2636	916
Capacity Analysis Module:												
Vol/Sat:	0.16	0.22	0.04	0.04	0.13	0.15	0.07	0.02	0.04	0.05	0.07	0.07
Crit Moves:	****	****	****	****	****	****	****	****	****	****	****	****
Green Time:	31.6	54.4	54.4	7.0	29.8	29.8	14.6	14.6	14.6	14.6	14.6	14.6
Volume/Cap:	0.42	0.35	0.07	0.49	0.38	0.42	0.38	0.14	0.21	0.27	0.42	0.42
Delay/Veh:	15.4	5.4	4.4	30.5	15.8	16.3	24.3	22.7	23.0	23.4	24.2	24.2
Delay Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
ProgAdjFctr:	1.00	0.85	0.85	1.00	0.85	0.85	1.00	0.85	0.85	1.00	0.85	0.85
AdjDel/Veh:	15.4	4.6	3.7	30.5	13.4	13.8	24.3	19.3	19.6	23.4	20.5	20.5
DesignQueue:	8	15	1	3	16	7	3	4	2	3	8	3

Level Of Service Computation Report
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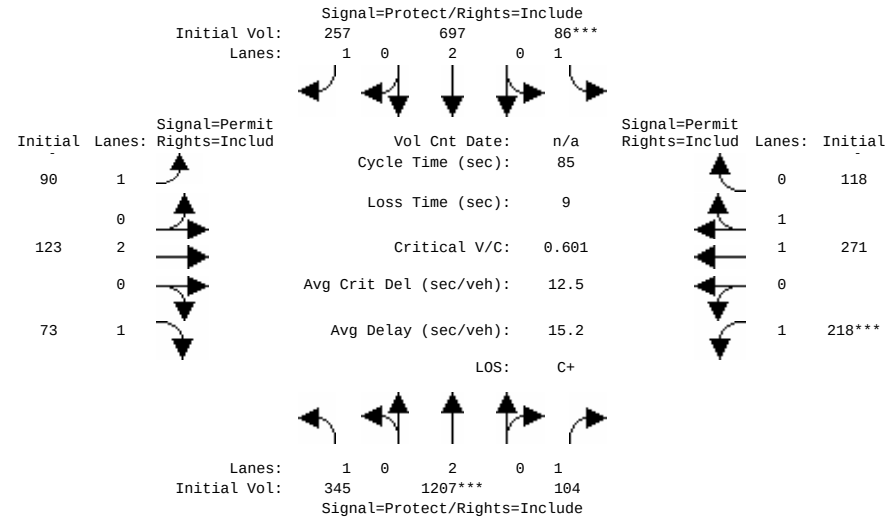
Intersection #8: Whisman/Middlefield



Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	7	10	10	7	10	10	10	10	10	10	10	10
Volume Module:												
Base Vol:	259	845	63	67	507	219	77	91	53	67	190	66
Growth Adj:	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17
Initial Bse:	304	991	74	79	594	257	90	107	62	79	223	77
Added Vol:	0	4	0	0	25	0	0	0	0	0	0	0
Approved Pr:	41	201	30	7	62	0	0	16	11	139	48	41
Initial Fut:	345	1196	104	86	681	257	90	123	73	218	271	118
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:	345	1196	104	86	681	257	90	123	73	218	271	118
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	345	1196	104	86	681	257	90	123	73	218	271	118
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 Vol.:	345	1196	104	86	681	257	90	123	73	218	271	118
Saturation Flow Module:												
Sat/Lane:	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
Adjustment:	0.92	1.06	0.83	0.92	1.06	0.83	0.53	1.06	0.83	0.72	1.00	0.96
Lanes:	1.00	2.00	1.00	1.00	2.00	1.00	1.00	2.00	1.00	1.00	1.37	0.63
Final Sat.:	1662	3800	1487	1662	3800	1487	962	3800	1487	1295	2471	1080
Capacity Analysis Module:												
Vol/Sat:	0.21	0.31	0.07	0.05	0.18	0.17	0.09	0.03	0.05	0.17	0.11	0.11
Crit Moves:	****	****	****	****	****	****	****	****	****	****	****	****
Green Time:	28.4	46.0	46.0	7.0	24.6	24.6	23.0	23.0	23.0	23.0	23.0	23.0
Volume/Cap:	0.62	0.58	0.13	0.62	0.62	0.60	0.35	0.12	0.18	0.62	0.40	0.40
Delay/Veh:	19.6	10.2	7.3	34.6	20.7	21.4	19.3	17.7	18.1	23.0	19.4	19.4
Delay Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
ProgAdjFctr:	1.00	0.85	0.85	1.00	0.85	0.85	1.00	0.85	0.85	1.00	0.85	0.85
AdjDel/Veh:	19.6	8.7	6.2	34.6	17.6	18.2	19.3	15.1	15.4	23.0	16.5	16.5
DesignQueue:	11	28	2	4	24	9	3	4	3	8	10	4

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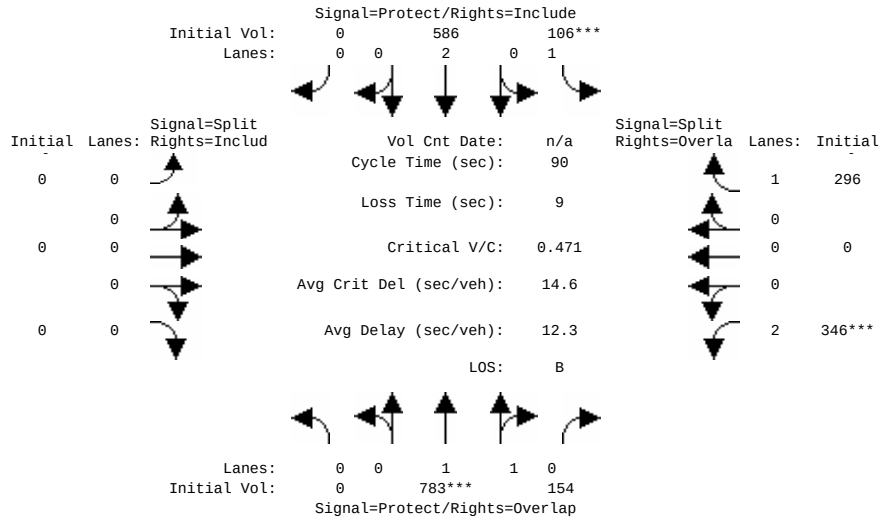
Intersection #8: Whisman/Middlefield



Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	7	10	10	7	10	10	10	10	10	10	10	10
Volume Module:												
Base Vol:	259	845	63	67	507	219	77	91	53	67	190	66
Growth Adj:	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17
Initial Bse:	304	991	74	79	594	257	90	107	62	79	223	77
Added Vol:	0	15	0	0	41	0	0	0	0	0	0	0
Approved Pr:	41	201	30	7	62	0	0	16	11	139	48	41
Initial Fut:	345	1207	104	86	697	257	90	123	73	218	271	118
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:	345	1207	104	86	697	257	90	123	73	218	271	118
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	345	1207	104	86	697	257	90	123	73	218	271	118
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 Vol.:	345	1207	104	86	697	257	90	123	73	218	271	118
Saturation Flow Module:												
Sat/Lane:	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
Adjustment:	0.92	1.06	0.83	0.92	1.06	0.83	0.53	1.06	0.83	0.72	1.00	0.96
Lanes:	1.00	2.00	1.00	1.00	2.00	1.00	1.00	2.00	1.00	1.00	1.37	0.63
Final Sat.:	1662	3800	1487	1662	3800	1487	962	3800	1487	1295	2471	1080
Capacity Analysis Module:												
Vol/Sat:	0.21	0.32	0.07	0.05	0.18	0.17	0.09	0.03	0.05	0.17	0.11	0.11
Crit Moves:	****	****	****	****	****	****	****	****	****	****	****	****
Green Time:	27.7	44.9	44.9	7.3	24.5	24.5	23.8	23.8	23.8	23.8	23.8	23.8
Volume/Cap:	0.64	0.60	0.13	0.60	0.64	0.60	0.34	0.12	0.18	0.60	0.39	0.39
Delay/Veh:	20.3	10.9	7.7	33.3	20.9	21.4	18.8	17.3	17.6	22.1	19.0	19.0
Delay Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
ProgAdjFctr:	1.00	0.85	0.85	1.00	0.85	0.85	1.00	0.85	0.85	1.00	0.85	0.85
AdjDel/Veh:	20.3	9.3	6.6	33.3	17.8	18.2	18.8	14.7	15.0	22.1	16.1	16.1
DesignQueue:	12	29	2	4	25	9	3	4	3	8	9	4

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PM Peak

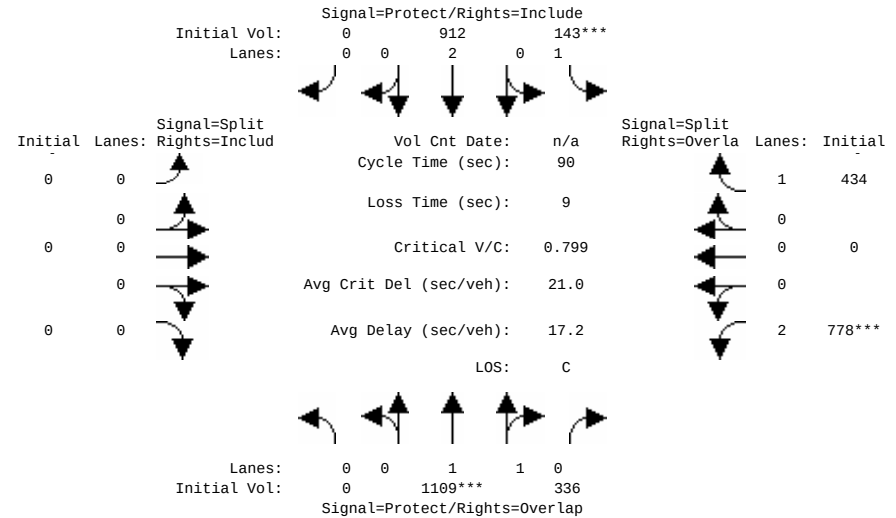
Intersection #9: Ellis/Middlefield



Approach:	North Bound				South Bound				East Bound				West Bound			
Movement:	L	T	R		L	T	R		L	T	R		L	T	R	
Min. Green:	0	10	10		7	10	0		0	0	0		7	0	10	
Volume Module:																
Base Vol:	0	783	154		106	586	0		0	0	0		346	0	296	
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	783	154		106	586	0		0	0	0		346	0	296	
Added Vol:	0	0	0		0	0	0		0	0	0		0	0	0	
PasserByVol:	0	0	0		0	0	0		0	0	0		0	0	0	
Initial Fut:	0	783	154		106	586	0		0	0	0		346	0	296	
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	783	154		106	586	0		0	0	0		346	0	296	
Reduct Vol:	0	0	0		0	0	0		0	0	0		0	0	0	
Reduced Vol:	0	783	154		106	586	0		0	0	0		346	0	296	
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 Vol.:	0	783	154		106	586	0		0	0	0		346	0	296	
Saturation Flow Module:																
Sat/Lane:	1800	1800	1800		1800	1800	1800		1800	1800	1800		1800	1800	1800	
Adjustment:	0.97	1.03	1.00		0.97	1.06	0.97		0.97	1.06	0.97		0.88	1.06	0.97	
Lanes:	0.00	1.66	0.34		1.00	2.00	0.00		0.00	0.00	0.00		2.00	0.00	1.00	
Final Sat.:	0	3091	608		1750	3800	0		0	0	0		3150	0	1750	
Capacity Analysis Module:																
Vol/Sat:	0.00	0.25	0.25		0.06	0.15	0.00		0.00	0.00	0.00		0.11	0.00	0.17	
Crit Moves:	****	****	****		****	****	****		****	****	****		****	****	****	
Green Time:	0.0	48.4	69.4		11.6	60.0	0.0		0.0	0.0	0.0		21.0	0.0	32.6	
Volume/Cap:	0.00	0.47	0.33		0.47	0.23	0.00		0.00	0.00	0.00		0.47	0.00	0.47	
Delay/Veh:	0.0	9.9	2.4		28.8	4.5	0.0		0.0	0.0	0.0		23.0	0.0	17.2	
Delay Adj:	1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00	
ProgAdjFctr:	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	9.9	2.4		28.8	4.5	0.0		0.0	0.0	0.0		23.0	0.0	17.2	
DesignQueue:	0	19	2		5	10	0		0	0	0		14	0	10	

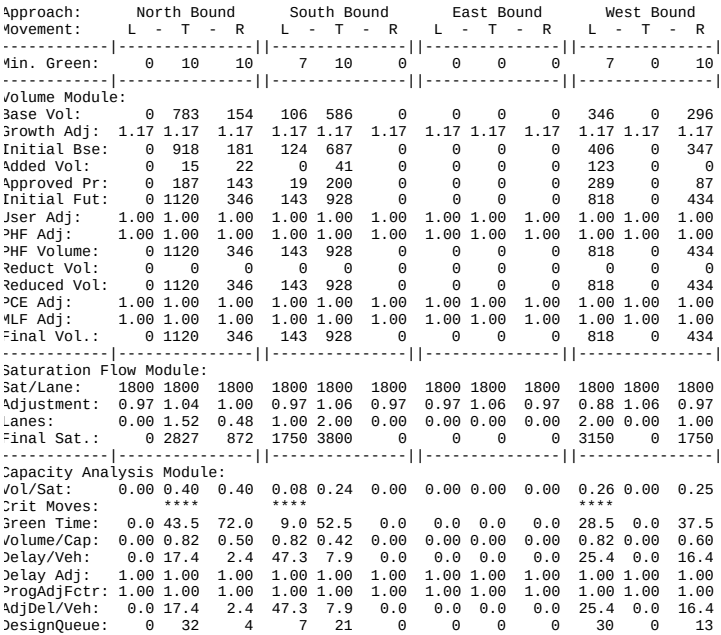
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Intersection #9: Ellis/Middlefield

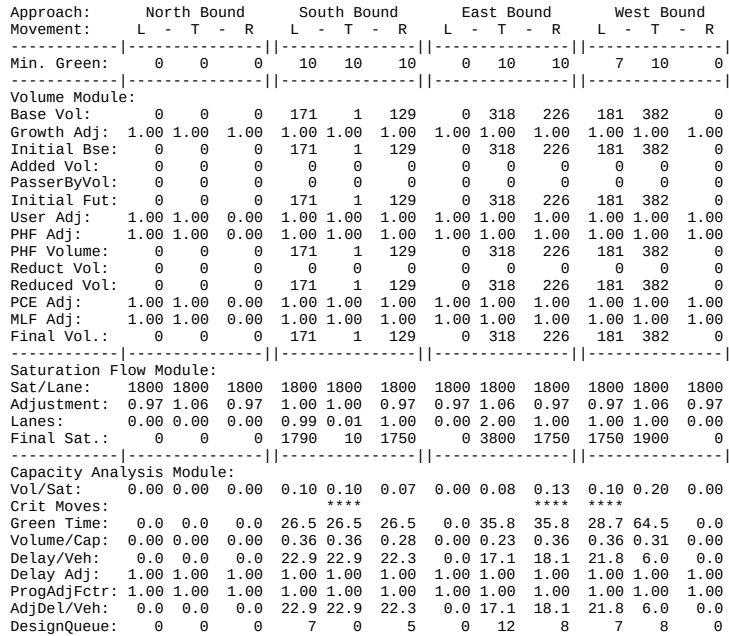


Approach:	North Bound				South Bound				East Bound				West Bound			
Movement:	L	T	R		L	T	R		L	T	R		L	T	R	
Min. Green:	0	10	10		7	10	0		0	0	0		7	0	10	
Volume Module:																
Base Vol:	0	783	154		106	586	0		0	0	0		346	0	296	
Growth Adj:	1.17	1.17	1.17		1.17	1.17	1.17		1.17	1.17	1.17		1.17	1.17	1.17	
Initial Bse:	0	918	181		124	687	0		0	0	0		406	0	347	
Added Vol:	0	4	12		0	25	0		0	0	0		83	0	0	
Approved Pr:	0	187	143		19	200	0		0	0	0		289	0	87	
Initial Fut:	0	1109	336		143	912	0		0	0	0		778	0	434	
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	1109	336		143	912	0		0	0	0		778	0	434	
Reduct Vol:	0	0	0		0	0	0		0	0	0		0	0	0	
Reduced Vol:	0	1109	336		143	912	0		0	0	0		778	0	434	
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 Vol.:	0	1109	336		143	912	0		0	0	0		778	0	434	
Saturation Flow Module:																
Sat/Lane:	1800	1800	1800		1800	1800	1800		1800	1800	1800		1800	1800	1800	
Adjustment:	0.97	1.04	1.00		0.97	1.06	0.97		0.97	1.06	0.97		0.88	1.06	0.97	
Lanes:	0.00	1.52	0.48		1.00	2.00	0.00		0.00	0.00	0.00		2.00	0.00	1.00	
Final Sat.:	0	2840	859		1750	3800	0		0	0	0		3150	0	1750	
Capacity Analysis Module:																
Vol/Sat:	0.00	0.39	0.39		0.08	0.24	0.00		0.00	0.00	0.00		0.25	0.00	0.25	
Crit Moves:	****	****	****		****	****	****		****	****	****		****	****	****	
Green Time:	0.0	44.0	71.8		9.2	53.2	0.0		0.0	0.0	0.0		27.8	0.0	37.0	
Volume/Cap:	0.00	0.80	0.49		0.80	0.41	0.00		0.00	0.00	0.00		0.80	0.00	0.60	
Delay/Veh:	0.0	16.5	2.4		44.7	7.6	0.0		0.0	0.0	0.0		25.0	0.0	16.8	
Delay Adj:	1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00	
ProgAdjFctr:	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	16.5	2.4		44.7	7.6	0.0		0.0	0.0	0.0		25.0	0.0	16.8	
DesignQueue:	0	32	4		7	20	0		0	0	0		28	0	14	

Intersection #9: Ellis/Middlefield

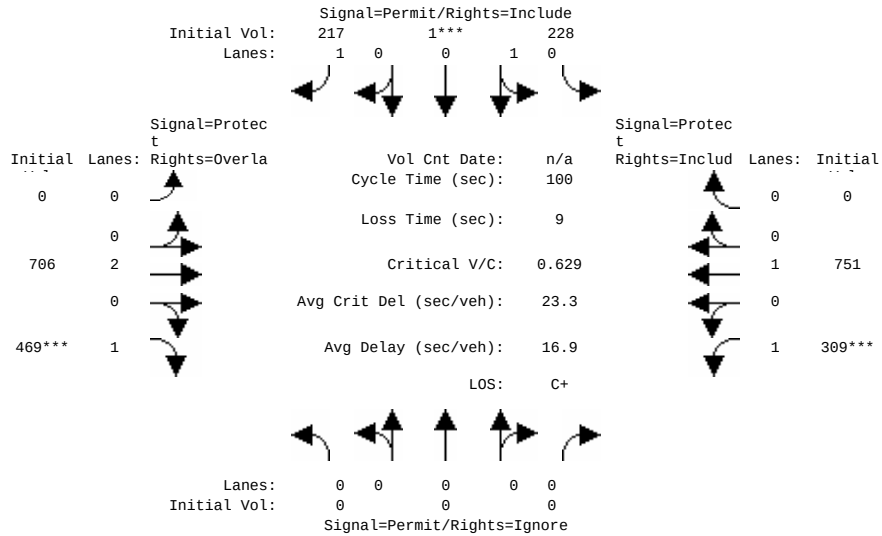


Intersection #10: Ellis/101 SB Ramps



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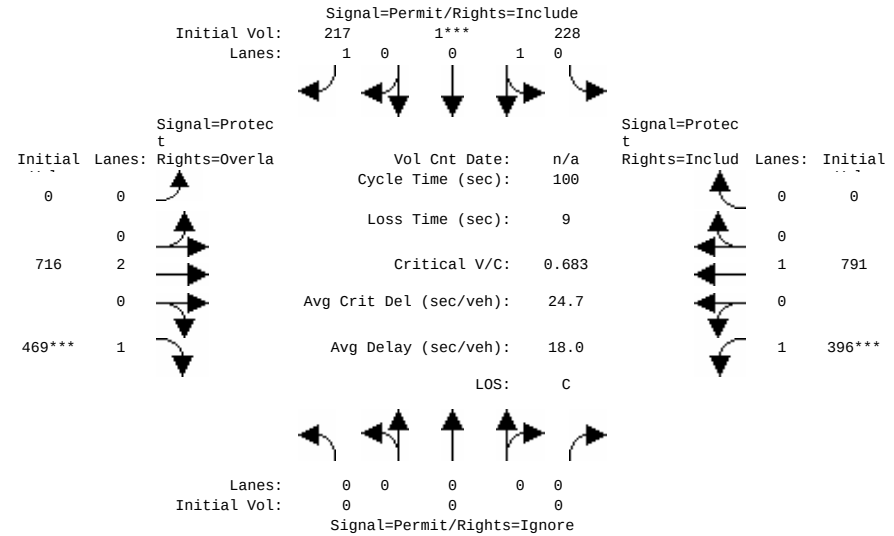
Intersection #10: Ellis/101 SB Ramps



Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	0	0	0	10	10	10	0	10	10	7	10	0
Volume Module:												
Base Vol:	0	0	0	171	1	129	0	318	226	181	382	0
Growth Adj:	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17
Initial Bse:	0	0	0	200	1	151	0	373	265	212	448	0
Added Vol:	0	0	0	0	0	0	0	12	0	159	83	0
Approved Pr:	0	0	0	28	0	66	0	321	204	-62	220	0
Initial Fut:	0	0	0	228	1	217	0	706	469	309	751	0
User Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	0	0	0	228	1	217	0	706	469	309	751	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	0	0	0	228	1	217	0	706	469	309	751	0
PCE Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Final Vol.:	0	0	0	228	1	217	0	706	469	309	751	0
Saturation Flow Module:												
Sat/Lane:	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
Adjustment:	0.97	1.06	0.97	1.00	1.00	0.97	0.97	1.06	0.97	0.97	1.06	0.97
Lanes:	0.00	0.00	0.00	0.99	0.01	1.00	0.00	2.00	1.00	1.00	1.00	0.00
Final Sat.:	0	0	0	1791	9	1750	0	3800	1750	1750	1900	0
Capacity Analysis Module:												
Vol/Sat:	0.00	0.00	0.00	0.13	0.13	0.12	0.00	0.19	0.27	0.18	0.40	0.00
Crit Moves:	0.00			0.00			0.00			0.00		
Green Time:	0.0	0.0	0.0	20.3	20.3	20.3	0.0	42.6	42.6	28.1	70.7	0.0
Volume/Cap:	0.00	0.00	0.00	0.63	0.63	0.61	0.00	0.44	0.63	0.63	0.56	0.00
Delay/Veh:	0.0	0.0	0.0	30.1	30.1	29.8	0.0	15.5	18.3	25.7	5.8	0.0
Delay Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
ProgAdjFctr:	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	30.1	30.1	29.8	0.0	15.5	18.3	25.7	5.8	0.0
DesignQueue:	0	0	0	10	0	10	0	24	16	13	14	0

Level Of Service Computation Report
1985 HCM Operations (Future Volume Alternative)
PM 2013 Project Alt. 5

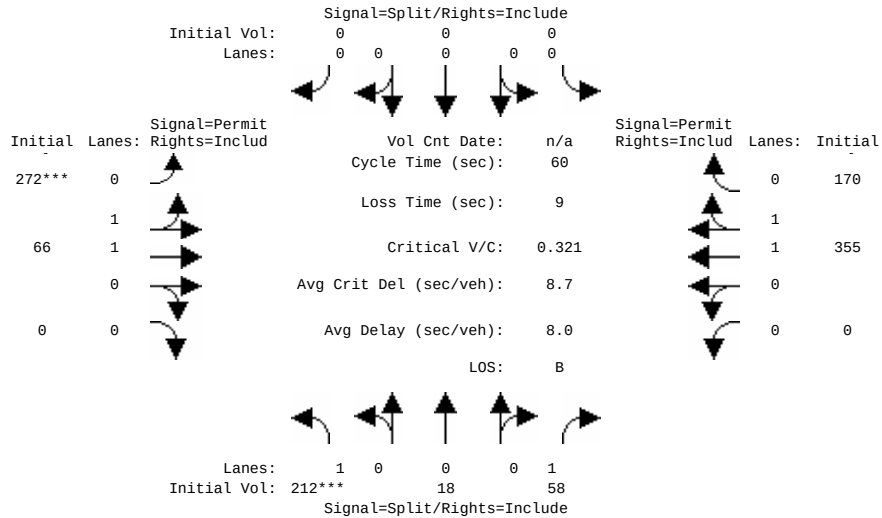
Intersection #10: Ellis/101 SB Ramps



Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	0	0	0	10	10	10	0	10	10	7	10	0
Volume Module:												
Base Vol:	0	0	0	171	1	129	0	318	226	181	382	0
Growth Adj:	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17
Initial Bse:	0	0	0	200	1	151	0	373	265	212	448	0
Added Vol:	0	0	0	0	0	0	0	22	0	246	123	0
Approved Pr:	0	0	0	28	0	66	0	321	204	-62	220	0
Initial Fut:	0	0	0	228	1	217	0	716	469	396	791	0
User Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	0	0	0	228	1	217	0	716	469	396	791	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	0	0	0	228	1	217	0	716	469	396	791	0
PCE Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Final Vol.:	0	0	0	228	1	217	0	716	469	396	791	0
Saturation Flow Module:												
Sat/Lane:	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
Adjustment:	0.97	1.06	0.97	1.00	1.00	0.97	0.97	1.06	0.97	0.97	1.06	0.97
Lanes:	0.00	0.00	0.00	0.99	0.01	1.00	0.00	2.00	1.00	1.00	1.00	0.00
Final Sat.:	0	0	0	1791	9	1750	0	3800	1750	1750	1900	0
Capacity Analysis Module:												
Vol/Sat:	0.00	0.00	0.00	0.13	0.13	0.12	0.00	0.19	0.27	0.23	0.42	0.00
Crit Moves:	0.00			0.00			0.00			0.00		
Green Time:	0.0	0.0	0.0	18.7	18.7	18.7	0.0	39.2	39.2	33.1	72.3	0.0
Volume/Cap:	0.00	0.00	0.00	0.68	0.68	0.66	0.00	0.48	0.68	0.68	0.58	0.00
Delay/Veh:	0.0	0.0	0.0	32.7	32.7	32.2	0.0	17.5	21.1	24.3	5.4	0.0
Delay Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
ProgAdjFctr:	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	32.7	32.7	32.2	0.0	17.5	21.1	24.3	5.4	0.0
DesignQueue:	0	0	0	11	0	10	0	25	17	16	14	0

Level Of Service Computation Report
1985 HCM Operations (Future Volume Alternative)
PM Peak

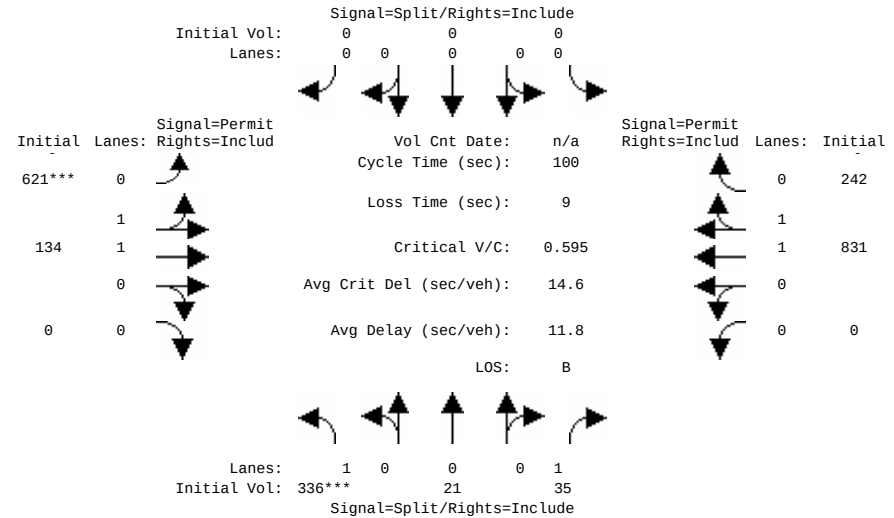
Intersection #11: Ellis/101 NB Ramps



Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	10	10	10	0	0	0	10	10	0	0	10	10
Volume Module:												
Base Vol:	212	18	58	0	0	0	272	66	0	0	355	170
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:	212	18	58	0	0	0	272	66	0	0	355	170
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:	212	18	58	0	0	0	272	66	0	0	355	170
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:	212	18	58	0	0	0	272	66	0	0	355	170
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	212	18	58	0	0	0	272	66	0	0	355	170
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 Vol.:	212	18	58	0	0	0	272	66	0	0	355	170
Saturation Flow Module:												
Sat/Lane:	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
Adjustment:	1.00	1.00	1.00	0.97	0.97	1.06	0.97	0.97	1.06	0.97	1.04	1.00
Lanes:	1.00	0.24	0.76	0.00	0.00	0.00	1.00	1.00	0.00	0.00	1.33	0.67
Final Sat.:	1800	426	1374	0	0	0	1750	1900	0	0	2501	1198
Capacity Analysis Module:												
Vol/Sat:	0.12	0.04	0.04	0.00	0.00	0.00	0.16	0.03	0.00	0.00	0.14	0.14
Crit Moves:	***						***					
Green Time:	22.0	22.0	22.0	0.0	0.0	0.0	29.0	29.0	0.0	0.0	29.0	29.0
Volume/Cap:	0.32	0.12	0.12	0.00	0.00	0.00	0.32	0.07	0.00	0.00	0.29	0.29
Delay/Veh:	10.4	9.6	9.6	0.0	0.0	0.0	7.3	6.3	0.0	0.0	7.1	7.1
Delay Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
ProgAdjFctr:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	10.4	9.6	9.6	0.0	0.0	0.0	7.3	6.3	0.0	0.0	7.1	7.1
DesignQueue:	5	0	1	0	0	0	5	1	0	0	6	3

Level Of Service Computation Report
1985 HCM Operations (Future Volume Alternative)
PM 2013 Project Alt. 1

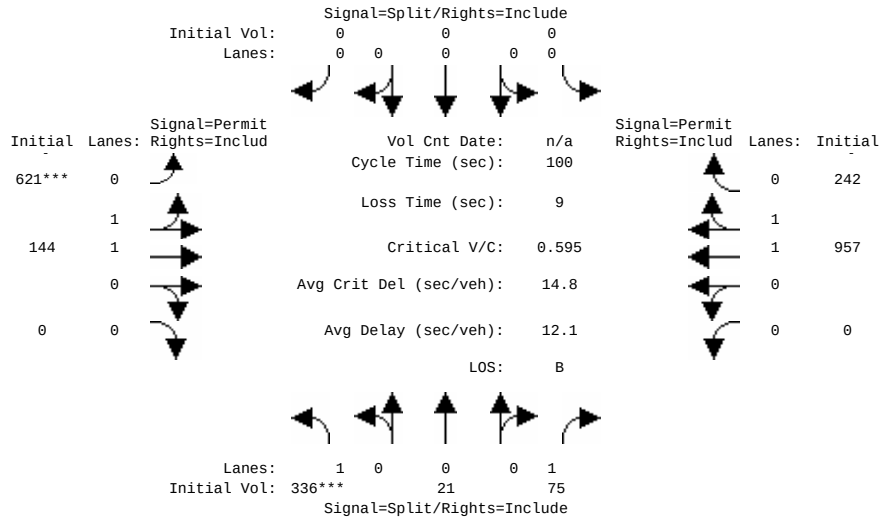
Intersection #11: Ellis/101 NB Ramps



Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	10	10	10	0	0	0	10	10	0	0	10	10
Volume Module:												
Base Vol:	212	18	58	0	0	0	272	66	0	0	355	170
Growth Adj:	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17
Initial Bse:	249	21	68	0	0	0	319	77	0	0	416	199
Added Vol:	0	0	24	0	0	0	0	12	0	0	243	0
Approved Pr:	87	0	-57	0	0	0	302	45	0	0	172	43
Initial Fut:	336	21	35	0	0	0	621	134	0	0	831	242
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:	336	21	35	0	0	0	621	134	0	0	831	242
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	336	21	35	0	0	0	621	134	0	0	831	242
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 Vol.:	336	21	35	0	0	0	621	134	0	0	831	242
Saturation Flow Module:												
Sat/Lane:	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
Adjustment:	1.00	1.00	1.00	0.97	0.97	1.06	0.97	0.97	1.06	0.97	1.04	1.00
Lanes:	1.00	0.38	0.62	0.00	0.00	0.00	1.00	1.00	0.00	0.00	1.54	0.46
Final Sat.:	1800	677	1123	0	0	0	1750	1900	0	0	2864	835
Capacity Analysis Module:												
Vol/Sat:	0.19	0.03	0.03	0.00	0.00	0.00	0.35	0.07	0.00	0.00	0.29	0.29
Crit Moves:	***						***					
Green Time:	31.3	31.3	31.3	0.0	0.0	0.0	59.7	59.7	0.0	0.0	59.7	59.7
Volume/Cap:	0.59	0.10	0.10	0.00	0.00	0.00	0.59	0.12	0.00	0.00	0.49	0.49
Delay/Veh:	23.1	18.5	18.5	0.0	0.0	0.0	10.1	6.7	0.0	0.0	8.9	8.9
Delay Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
ProgAdjFctr:	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:	23.1	18.5	18.5	0.0	0.0	0.0	10.1	6.7	0.0	0.0	8.9	8.9
DesignQueue:	13	1	1	0	0	0	15	3	0	0	20	6

Level Of Service Computation Report
1985 HCM Operations (Future Volume Alternative)
PM 2013 Project Alt. 5

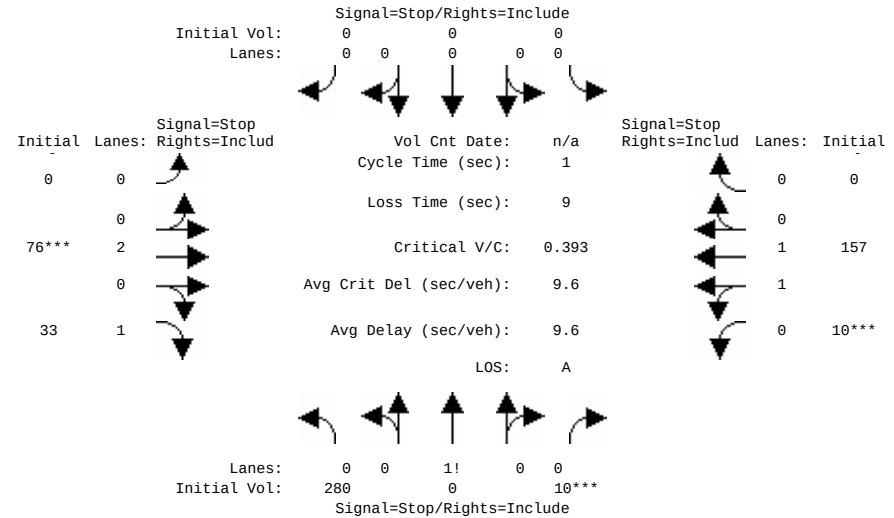
Intersection #11: Ellis/101 NB Ramps



Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	10	10	10	0	0	0	10	10	0	0	10	10
Volume Module:												
Base Vol:	212	18	58	0	0	0	272	66	0	0	355	170
Growth Adj:	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17
Initial Bse:	249	21	68	0	0	0	319	77	0	0	416	199
Added Vol:	0	0	64	0	0	0	0	22	0	0	369	0
Approved Pr:	87	0	-57	0	0	0	302	45	0	0	172	43
Initial Fut:	336	21	75	0	0	0	621	144	0	0	957	242
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:	336	21	75	0	0	0	621	144	0	0	957	242
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	336	21	75	0	0	0	621	144	0	0	957	242
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 Vol.:	336	21	75	0	0	0	621	144	0	0	957	242
Saturation Flow Module:												
Sat/Lane:	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
Adjustment:	1.00	1.00	1.00	0.97	0.97	1.06	0.97	0.97	1.06	0.97	1.03	1.00
Lanes:	1.00	0.22	0.78	0.00	0.00	0.00	1.00	1.00	0.00	0.00	1.58	0.42
Final Sat.:	1800	395	1405	0	0	0	1750	1900	0	0	2952	747
Capacity Analysis Module:												
Vol/Sat:	0.19	0.05	0.05	0.00	0.00	0.00	0.35	0.08	0.00	0.00	0.32	0.32
Crit Moves:	***						***					
Green Time:	31.3	31.3	31.3	0.0	0.0	0.0	59.7	59.7	0.0	0.0	59.7	59.7
Volume/Cap:	0.59	0.17	0.17	0.00	0.00	0.00	0.59	0.13	0.00	0.00	0.54	0.54
Delay/Veh:	23.0	18.9	18.9	0.0	0.0	0.0	10.1	6.7	0.0	0.0	9.4	9.4
Delay Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
ProgAdjFctr:	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:	23.0	18.9	18.9	0.0	0.0	0.0	10.1	6.7	0.0	0.0	9.4	9.4
DesignQueue:	13	1	3	0	0	0	15	3	0	0	23	6

Level Of Service Computation Report
1997 HCM 4-Way Stop (Future Volume Alternative)
PM Peak

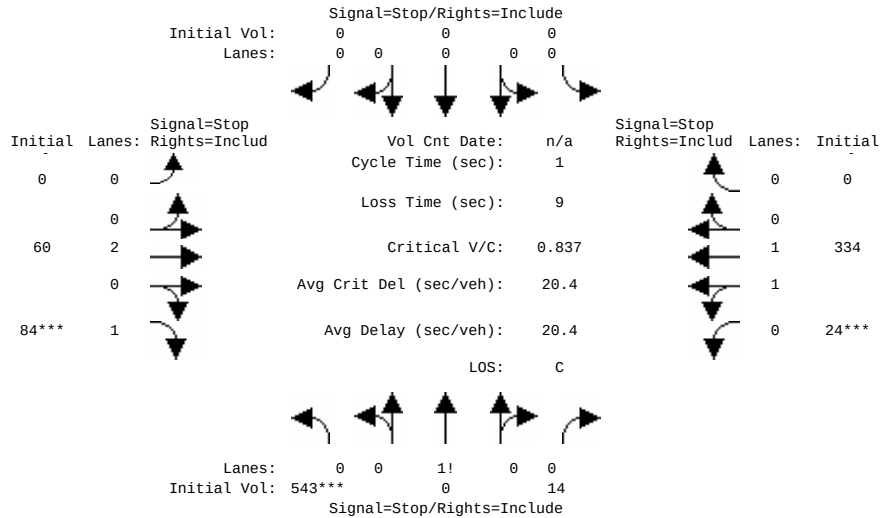
Intersection #12: Ellis/Manila



Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	7	10	10	7	10	10	7	10	10	7	10	10
Volume Module:												
Base Vol:	280	0	10	0	0	0	0	76	33	10	157	0
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	280	0	10	0	0	0	0	76	33	10	157	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:	280	0	10	0	0	0	0	76	33	10	157	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:	280	0	10	0	0	0	0	76	33	10	157	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	280	0	10	0	0	0	0	76	33	10	157	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 Vol.:	280	0	10	0	0	0	0	76	33	10	157	0
Saturation Flow Module:												
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	0.97	0.00	0.03	0.00	0.00	0.00	0.00	2.00	1.00	0.12	1.88	0.00
Final Sat.:	713	0	25	0	0	0	0	1275	728	77	1214	0
Capacity Analysis Module:												
Vol/Sat:	0.39	xxxx	0.39	xxxx	xxxx	xxxx	0.06	0.05	0.13	0.13	xxxx	
Crit Moves:	***			***			***		***			
Delay/Veh:	10.6	0.0	10.6	0.0	0.0	0.0	0.0	8.4	7.6	8.8	8.8	0.0
Delay Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	10.6	0.0	10.6	0.0	0.0	0.0	0.0	8.4	7.6	8.8	8.8	0.0
LOS by Move:	B	*	B	*	*	*	*	A	A	A	A	*
ApproachDel:	10.6							8.2				8.8
Delay Adj:	1.00			xxxxx				1.00				1.00
ApprAdjDel:	10.6			xxxxxx				8.2				8.8
LOS by Appr:	B			*				A				A

Level Of Service Computation Report
1997 HCM 4-Way Stop (Future Volume Alternative)
PM 2013 Project Alt. 1

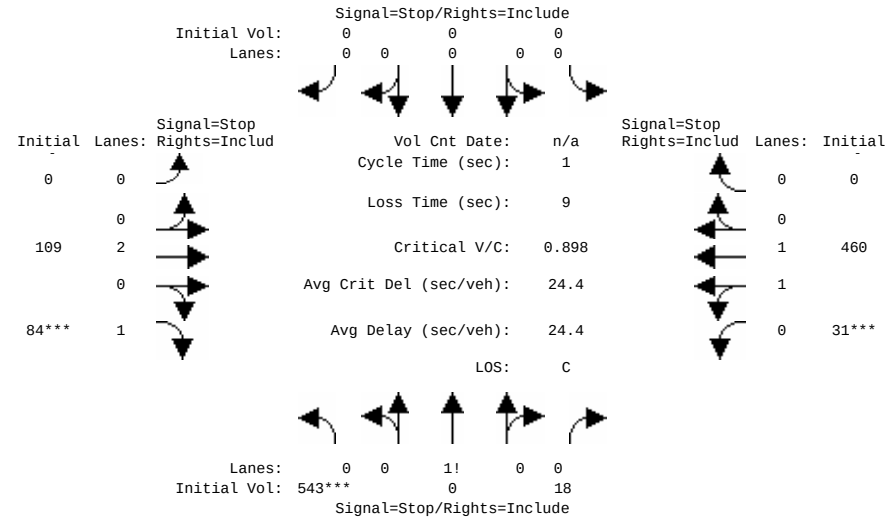
Intersection #12: Ellis/Manila



Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	7	10	10	7	10	10	7	10	10	7	10	10
Volume Module:												
Base Vol:	280	0	10	0	0	0	0	76	33	10	157	0
Growth Adj:	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17
Initial Bse:	328	0	12	0	0	0	0	89	39	12	184	0
Added Vol:	0	0	2	0	0	0	0	36	0	12	243	0
Approved Pr:	215	0	0	0	0	0	0	-65	45	0	-93	0
Initial Fut:	543	0	14	0	0	0	0	60	84	24	334	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:	543	0	14	0	0	0	0	60	84	24	334	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	543	0	14	0	0	0	0	60	84	24	334	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 Vol.:	543	0	14	0	0	0	0	60	84	24	334	0
Saturation Flow Module:												
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	0.98	0.00	0.02	0.00	0.00	0.00	0.00	2.00	1.00	0.13	1.87	0.00
Final Sat.:	649	0	16	0	0	0	0	1021	568	72	1023	0
Capacity Analysis Module:												
Vol/Sat:	0.84	xxxx	0.84	xxxx	xxxx	xxxx	xxxx	0.06	0.15	0.33	0.33	xxxx
Crit Moves:	****								****			
Delay/Veh:	28.8	0.0	28.8	0.0	0.0	0.0	0.0	9.7	9.5	11.9	11.8	0.0
Delay Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	28.8	0.0	28.8	0.0	0.0	0.0	0.0	9.7	9.5	11.9	11.8	0.0
LOS by Move:	D	*	D	*	*	*	*	A	A	B	B	*
ApproachDel:	28.8			xxxxxx				9.6		11.8		
Delay Adj:	1.00			xxxxxx				1.00		1.00		
ApprAdjDel:	28.8			xxxxxx				9.6		11.8		
LOS by Appr:	D			*				A		B		

Level Of Service Computation Report
1997 HCM 4-Way Stop (Future Volume Alternative)
PM 2013 Project Alt. 5

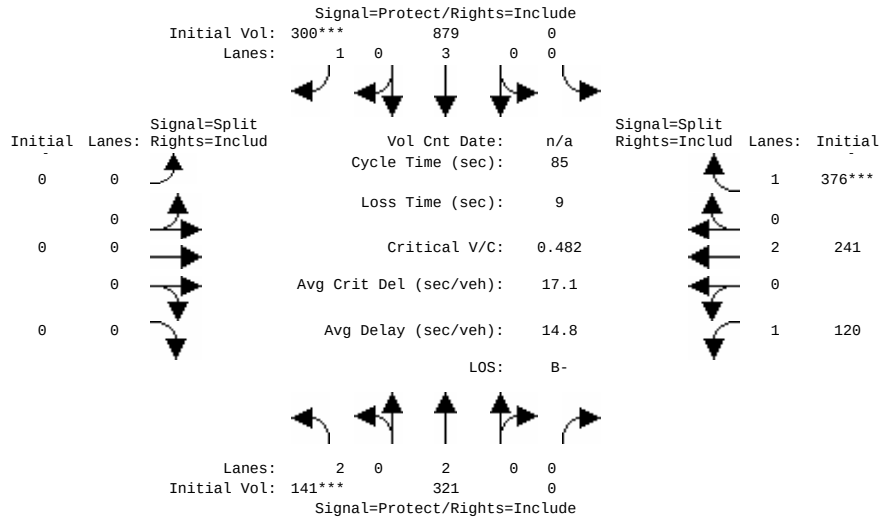
Intersection #12: Ellis/Manila



Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	7	10	10	7	10	10	7	10	10	7	10	10
Volume Module:												
Base Vol:	280	0	10	0	0	0	0	76	33	10	157	0
Growth Adj:	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17
Initial Bse:	328	0	12	0	0	0	0	89	39	12	184	0
Added Vol:	0	0	6	0	0	0	0	85	0	19	369	0
Approved Pr:	215	0	0	0	0	0	0	-65	45	0	-93	0
Initial Fut:	543	0	18	0	0	0	0	109	84	31	460	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:	543	0	18	0	0	0	0	109	84	31	460	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	543	0	18	0	0	0	0	109	84	31	460	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 Vol.:	543	0	18	0	0	0	0	109	84	31	460	0
Saturation Flow Module:												
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	0.97	0.00	0.03	0.00	0.00	0.00	0.00	2.00	1.00	0.13	1.87	0.00
Final Sat.:	605	0	20	0	0	0	0	995	550	67	1006	0
Capacity Analysis Module:												
Vol/Sat:	0.90	xxxx	0.90	xxxx	xxxx	xxxx	xxxx	0.11	0.15	0.46	0.46	xxxx
Crit Moves:	****								****			
Delay/Veh:	38.1	0.0	38.1	0.0	0.0	0.0	0.0	10.4	10.0	14.4	14.3	0.0
Delay Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	38.1	0.0	38.1	0.0	0.0	0.0	0.0	10.4	10.0	14.4	14.3	0.0
LOS by Move:	E	*	E	*	*	*	*	B	A	B	B	*
ApproachDel:	38.1			xxxxxx				10.2		14.3		
Delay Adj:	1.00			xxxxxx				1.00		1.00		
ApprAdjDel:	38.1			xxxxxx				10.2		14.3		
LOS by Appr:	E			*				B		B		

Level Of Service Computation Report
1985 HCM Operations (Future Volume Alternative)
PM Peak

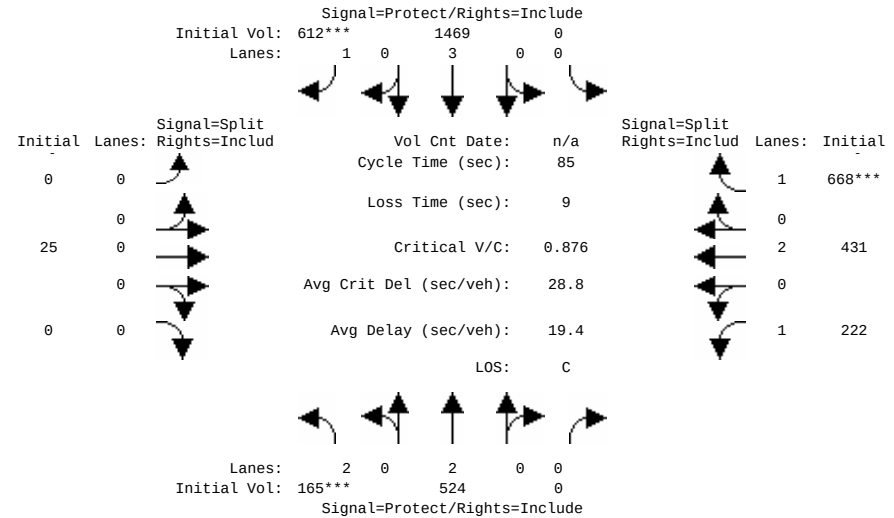
Intersection #13: 237 WB Ramps/Middlefield



Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	7	10	0	0	10	10	0	0	0	10	10	10
Volume Module:												
Base Vol:	141	321	0	0	879	300	0	0	0	120	241	376
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:	141	321	0	0	879	300	0	0	0	120	241	376
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:	141	321	0	0	879	300	0	0	0	120	241	376
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:	141	321	0	0	879	300	0	0	0	120	241	376
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	141	321	0	0	879	300	0	0	0	120	241	376
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 Vol.:	141	321	0	0	879	300	0	0	0	120	241	376
Saturation Flow Module:												
Sat/Lane:	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
Adjustment:	0.88	1.06	0.97	0.97	1.06	0.97	0.97	1.06	0.97	0.97	1.06	0.97
Lanes:	2.00	2.00	0.00	0.00	3.00	1.00	0.00	0.00	0.00	1.00	2.00	1.00
Final Sat.:	3150	3800	0	0	5700	1750	0	0	0	1750	3800	1750
Capacity Analysis Module:												
Vol/Sat:	0.04	0.08	0.00	0.00	0.15	0.17	0.00	0.00	0.00	0.07	0.06	0.21
Crit Moves:	****	****	****	****	****	****	****	****	****	****	****	****
Green Time:	7.9	38.1	0.0	0.0	30.2	30.2	0.0	0.0	0.0	37.9	37.9	37.9
Volume/Cap:	0.48	0.19	0.00	0.00	0.43	0.48	0.00	0.00	0.00	0.15	0.14	0.48
Delay/Veh:	28.8	10.7	0.0	0.0	16.0	16.7	0.0	0.0	0.0	10.7	10.6	13.0
Delay Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
ProgAdjFctr:	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:	28.8	10.7	0.0	0.0	16.0	16.7	0.0	0.0	0.0	10.7	10.6	13.0
DesignQueue:	6	9	0	0	28	10	0	0	0	3	6	10

Level Of Service Computation Report
1985 HCM Operations (Future Volume Alternative)
PM 2013 Project Alt. 1

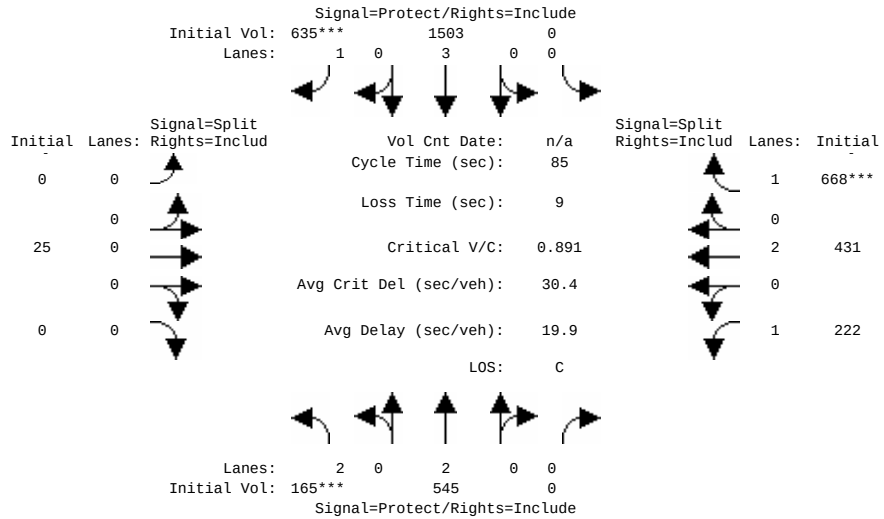
Intersection #13: 237 WB Ramps/Middlefield



Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	7	10	0	0	10	10	0	0	0	10	10	10
Volume Module:												
Base Vol:	141	321	0	0	879	300	0	0	0	120	241	376
Growth Adj:	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17
Initial Bse:	165	376	0	0	1030	352	0	0	0	141	283	441
Added Vol:	0	16	0	0	58	50	0	0	0	0	0	0
Approved Pr:	0	132	0	0	381	210	0	25	0	81	148	227
Initial Fut:	165	524	0	0	1469	612	0	25	0	222	431	668
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:	165	524	0	0	1469	612	0	25	0	222	431	668
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	165	524	0	0	1469	612	0	25	0	222	431	668
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 Vol.:	165	524	0	0	1469	612	0	25	0	222	431	668
Saturation Flow Module:												
Sat/Lane:	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
Adjustment:	0.88	1.06	0.97	0.97	1.06	0.97	0.97	1.06	0.97	0.97	1.06	0.97
Lanes:	2.00	2.00	0.00	0.00	3.00	1.00	0.00	0.00	0.00	1.00	2.00	1.00
Final Sat.:	3150	3800	0	0	5700	1750	0	0	0	1750	3800	1750
Capacity Analysis Module:												
Vol/Sat:	0.05	0.14	0.00	0.00	0.26	0.35	0.00	xxxx	0.00	0.13	0.11	0.38
Crit Moves:	****	****	****	****	****	****	****	****	****	****	****	****
Green Time:	7.0	40.0	0.0	0.0	33.0	33.0	0.0	0.0	0.0	36.0	36.0	36.0
Volume/Cap:	0.64	0.29	0.00	0.00	0.66	0.90	0.00	xxxx	0.00	0.30	0.27	0.90
Delay/Veh:	32.3	10.5	0.0	0.0	16.8	29.4	0.0	0.0	0.0	12.4	12.1	27.4
Delay Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
ProgAdjFctr:	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:	32.3	10.5	0.0	0.0	16.8	29.4	0.0	0.0	0.0	12.4	12.1	27.4
DesignQueue:	7	14	0	0	46	19	0	0	0	6	12	20

Level Of Service Computation Report
1985 HCM Operations (Future Volume Alternative)
PM 2013 Project Alt. 5

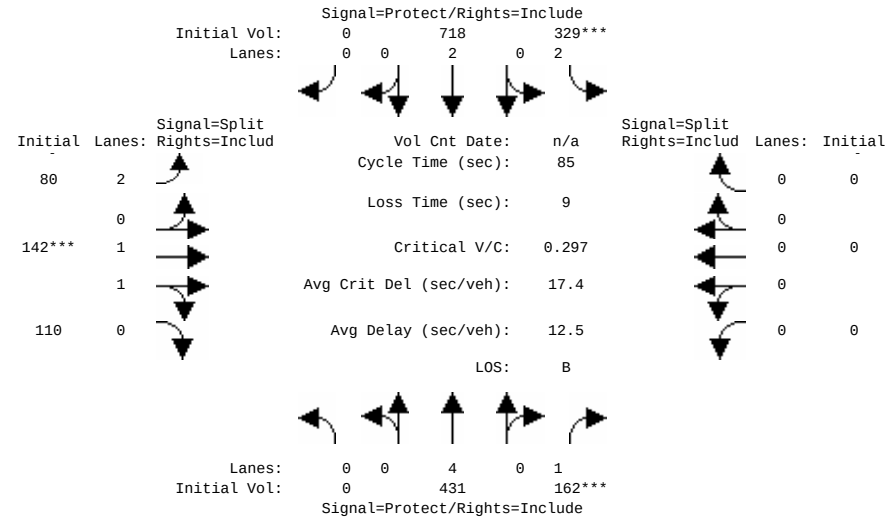
Intersection #13: 237 WB Ramps/Middlefield



Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	7	10	0	0	10	10	0	0	0	10	10	10
Volume Module:												
Base Vol:	141	321	0	0	879	300	0	0	0	120	241	376
Growth Adj:	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17
Initial Bse:	165	376	0	0	1030	352	0	0	0	141	283	441
Added Vol:	0	37	0	0	92	73	0	0	0	0	0	0
Approved Pr:	0	132	0	0	381	210	0	25	0	81	148	227
Initial Fut:	165	545	0	0	1503	635	0	25	0	222	431	668
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:	165	545	0	0	1503	635	0	25	0	222	431	668
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	165	545	0	0	1503	635	0	25	0	222	431	668
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 Vol.:	165	545	0	0	1503	635	0	25	0	222	431	668
Saturation Flow Module:												
Sat/Lane:	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
Adjustment:	0.88	1.06	0.97	0.97	1.06	0.97	0.97	1.06	0.97	0.97	1.06	0.97
Lanes:	2.00	2.00	0.00	0.00	3.00	1.00	0.00	0.00	0.00	1.00	2.00	1.00
Final Sat.:	3150	3800	0	0	5700	1750	0	0	0	1750	3800	1750
Capacity Analysis Module:												
Vol/Sat:	0.05	0.14	0.00	0.00	0.26	0.36	0.00	xxxx	0.00	0.13	0.11	0.38
Crit Moves:	****											
Green Time:	7.0	40.6	0.0	0.0	33.6	33.6	0.0	0.0	0.0	35.4	35.4	35.4
Volume/Cap:	0.64	0.30	0.00	0.00	0.67	0.92	0.00	xxxx	0.00	0.30	0.27	0.92
Delay/Veh:	32.3	10.3	0.0	0.0	16.6	30.8	0.0	0.0	0.0	12.7	12.4	29.6
Delay Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
ProgAdjFctr:	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:	32.3	10.3	0.0	0.0	16.6	30.8	0.0	0.0	0.0	12.7	12.4	29.6
DesignQueue:	7	14	0	0	46	20	0	0	0	6	12	20

Level Of Service Computation Report
1985 HCM Operations (Future Volume Alternative)
PM Peak

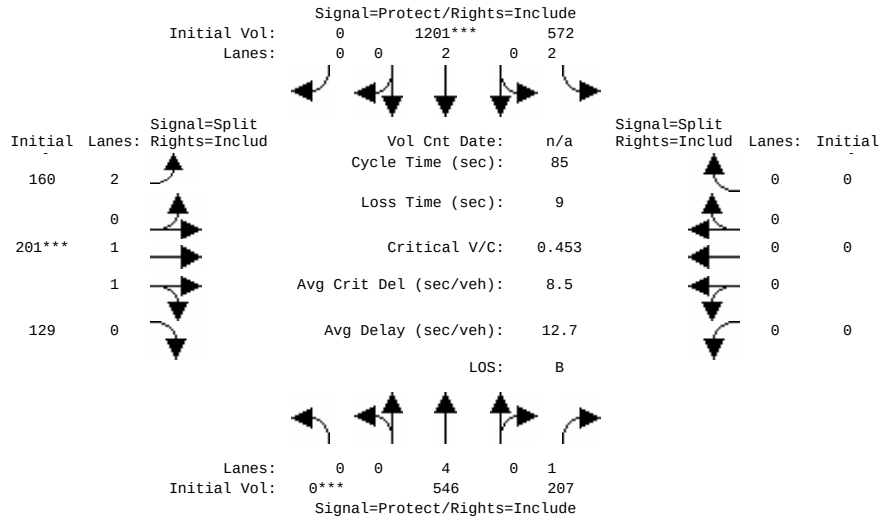
Intersection #14: 237 EB Ramps/Middlefield



Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	0	10	10	7	10	0	7	10	10	0	0	0
Volume Module:												
Base Vol:	0	431	162	329	718	0	80	142	110	0	0	0
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	0	431	162	329	718	0	80	142	110	0	0	0
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	0	431	162	329	718	0	80	142	110	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	431	162	329	718	0	80	142	110	0	0	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	0	431	162	329	718	0	80	142	110	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
Final Vol.:	0	431	162	329	718	0	80	142	110	0	0	0
Saturation Flow Module:												
Sat/Lane:	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
Adjustment:	0.97	1.06	0.97	0.88	1.06	0.97	0.88	1.05	1.00	0.97	1.06	0.97
Lanes:	0.00	4.00	1.00	2.00	2.00	0.00	2.00	1.10	0.90	0.00	0.00	0.00
Final Sat.:	0	7600	1750	3150	3800	0	3150	2084	1614	0	0	0
Capacity Analysis Module:												
Vol/Sat:	0.00	0.06	0.09	0.10	0.19	0.00	0.03	0.07	0.07	0.00	0.00	0.00
Crit Moves:	****			****			****					
Green Time:	0.0	26.5	26.5	29.9	56.5	0.0	19.5	19.5	19.5	0.0	0.0	0.0
Volume/Cap:	0.00	0.18	0.30	0.30	0.28	0.00	0.11	0.30	0.30	0.00	0.00	0.00
Delay/Veh:	0.0	16.2	16.9	15.2	4.5	0.0	19.7	20.6	20.6	0.0	0.0	0.0
Delay Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
ProgAdjFctr:	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	16.2	16.9	15.2	4.5	0.0	19.7	20.6	20.6	0.0	0.0	0.0
DesignQueue:	0	14	5	10	12	0	3	5	4	0	0	0

Level Of Service Computation Report
1985 HCM Operations (Future Volume Alternative)
PM 2013 Project Alt. 1

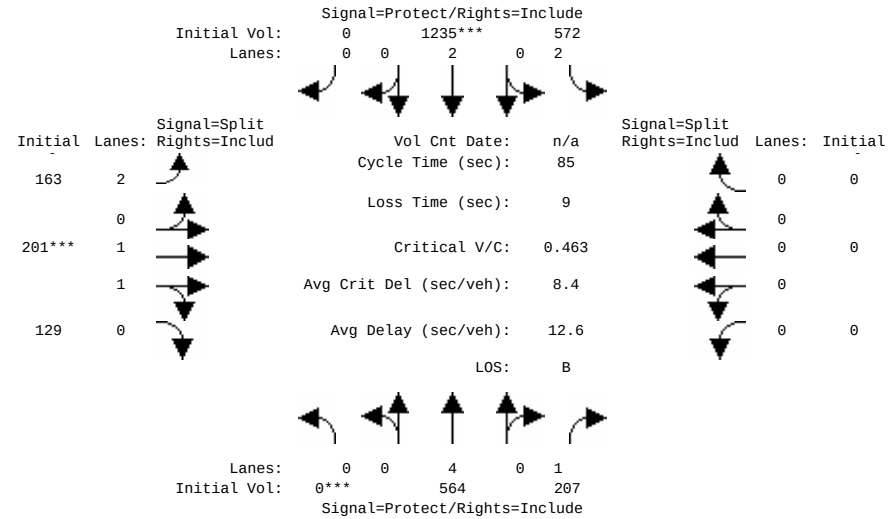
Intersection #14: 237 EB Ramps/Middlefield



Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	0	10	10	7	10	0	7	10	10	0	0	0
Volume Module:												
Base Vol:	0	431	162	329	718	0	80	142	110	0	0	0
Growth Adj:	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17
Initial Bse:	0	505	190	386	842	0	94	166	129	0	0	0
Added Vol:	0	9	0	0	58	0	7	0	0	0	0	0
Approved Pr:	0	32	17	186	301	0	59	35	0	0	0	0
Initial Fut:	0	546	207	572	1201	0	160	201	129	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	546	207	572	1201	0	160	201	129	0	0	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	0	546	207	572	1201	0	160	201	129	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
Final Vol.:	0	546	207	572	1201	0	160	201	129	0	0	0
Saturation Flow Module:												
Sat/Lane:	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
Adjustment:	0.97	1.06	0.97	0.88	1.06	0.97	0.88	1.05	1.00	0.97	1.06	0.97
Lanes:	0.00	4.00	1.00	2.00	2.00	0.00	2.00	1.20	0.80	0.00	0.00	0.00
Final Sat.:	0	7600	1750	3150	3800	0	3150	2255	1443	0	0	0
Capacity Analysis Module:												
Vol/Sat:	0.00	0.07	0.12	0.18	0.32	0.00	0.05	0.09	0.09	0.00	0.00	0.00
Crit Moves:	****					****						
Green Time:	0.0	23.4	23.4	35.9	59.2	0.0	16.8	16.8	16.8	0.0	0.0	0.0
Volume/Cap:	0.00	0.26	0.43	0.43	0.45	0.00	0.26	0.45	0.45	0.00	0.00	0.00
Delay/Veh:	0.0	18.3	19.7	13.3	4.4	0.0	22.0	23.2	23.2	0.0	0.0	0.0
Delay Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
ProgAdjFctr:	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	18.3	19.7	13.3	4.4	0.0	22.0	23.2	23.2	0.0	0.0	0.0
DesignQueue:	0	19	7	16	19	0	6	8	5	0	0	0

Level Of Service Computation Report
1985 HCM Operations (Future Volume Alternative)
PM 2013 Project Alt. 5

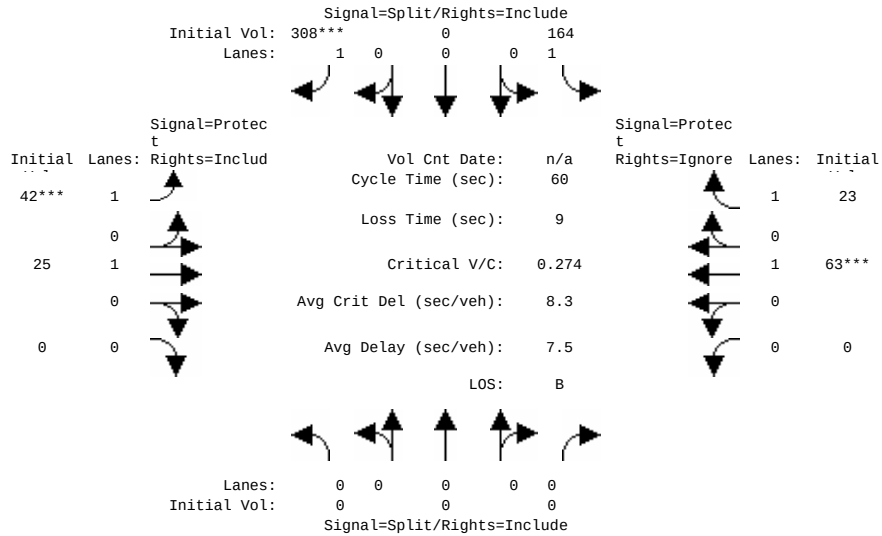
Intersection #14: 237 EB Ramps/Middlefield



Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	0	10	10	7	10	0	7	10	10	0	0	0
Volume Module:												
Base Vol:	0	431	162	329	718	0	80	142	110	0	0	0
Growth Adj:	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17
Initial Bse:	0	505	190	386	842	0	94	166	129	0	0	0
Added Vol:	0	27	0	0	92	0	10	0	0	0	0	0
Approved Pr:	0	32	17	186	301	0	59	35	0	0	0	0
Initial Fut:	0	564	207	572	1235	0	163	201	129	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	564	207	572	1235	0	163	201	129	0	0	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	0	564	207	572	1235	0	163	201	129	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
Final Vol.:	0	564	207	572	1235	0	163	201	129	0	0	0
Saturation Flow Module:												
Sat/Lane:	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
Adjustment:	0.97	1.06	0.97	0.88	1.06	0.97	0.88	1.05	1.00	0.97	1.06	0.97
Lanes:	0.00	4.00	1.00	2.00	2.00	0.00	2.00	1.20	0.80	0.00	0.00	0.00
Final Sat.:	0	7600	1750	3150	3800	0	3150	2255	1443	0	0	0
Capacity Analysis Module:												
Vol/Sat:	0.00	0.07	0.12	0.18	0.32	0.00	0.05	0.09	0.09	0.00	0.00	0.00
Crit Moves:	****					****						
Green Time:	0.0	23.5	23.5	36.1	59.6	0.0	16.4	16.4	16.4	0.0	0.0	0.0
Volume/Cap:	0.00	0.27	0.43	0.43	0.46	0.00	0.27	0.46	0.46	0.00	0.00	0.00
Delay/Veh:	0.0	18.3	19.6	13.2	4.4	0.0	22.3	23.5	23.5	0.0	0.0	0.0
Delay Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
ProgAdjFctr:	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	18.3	19.6	13.2	4.4	0.0	22.3	23.5	23.5	0.0	0.0	0.0
DesignQueue:	0	20	7	16	19	0	6	8	5	0	0	0

Level Of Service Computation Report
1985 HCM Operations (Future Volume Alternative)
PM Peak

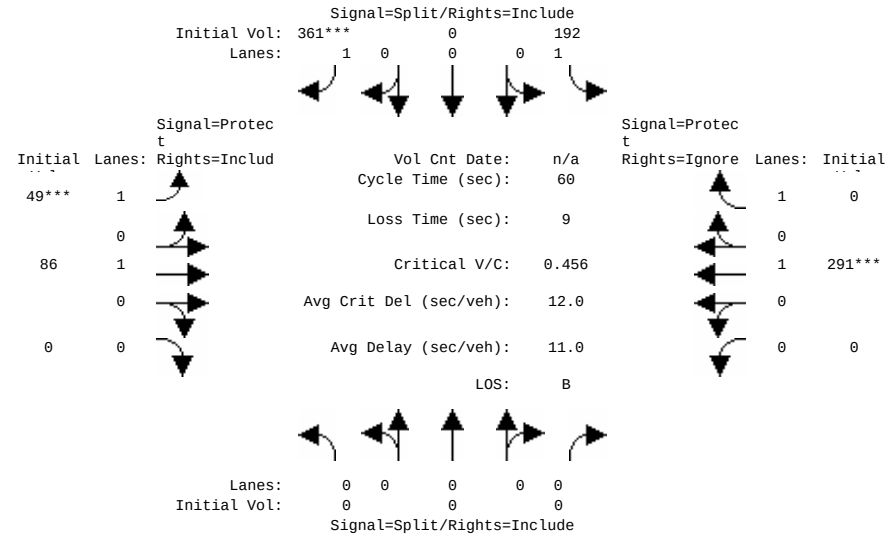
Intersection #15: Manila/H St.



Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	0	0	0	10	0	10	7	10	0	0	10	10
Volume Module:												
Base Vol:	0	0	0	164	0	308	42	25	0	0	63	23
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	0	0	0	164	0	308	42	25	0	0	63	23
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	0	0	0	164	0	308	42	25	0	0	63	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	0.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
PHF Volume:	0	0	0	164	0	308	42	25	0	0	63	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	0	0	0	164	0	308	42	25	0	0	63	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	0.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
Final Vol.:	0	0	0	164	0	308	42	25	0	0	63	0
Saturation Flow Module:												
Sat/Lane:	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
Adjustment:	0.97	1.06	0.97	0.97	1.06	0.97	0.97	1.06	0.97	0.97	1.06	0.97
Lanes:	0.00	0.00	0.00	1.00	0.00	1.00	1.00	0.00	0.00	1.00	0.00	1.00
Final Sat.:	0	0	0	1750	0	1750	1750	1900	0	0	1900	1750
Capacity Analysis Module:												
Vol/Sat:	0.00	0.00	0.00	0.09	0.00	0.18	0.02	0.01	0.00	0.00	0.03	0.00
Crit Moves:												
Green Time:	0.0	0.0	0.0	34.0	0.0	34.0	7.0	17.0	0.0	0.0	10.0	0.0
Volume/Cap:	0.00	0.00	0.00	0.17	0.00	0.31	0.21	0.05	0.00	0.00	0.20	0.00
Delay/Veh:	0.0	0.0	0.0	4.7	0.0	5.3	18.3	11.9	0.0	0.0	16.4	0.0
Delay Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
ProgAdjFctr:	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	4.7	0.0	5.3	18.3	11.9	0.0	0.0	16.4	0.0
DesignQueue:	0	0	0	2	0	5	1	1	0	0	2	0

Level Of Service Computation Report
1985 HCM Operations (Future Volume Alternative)
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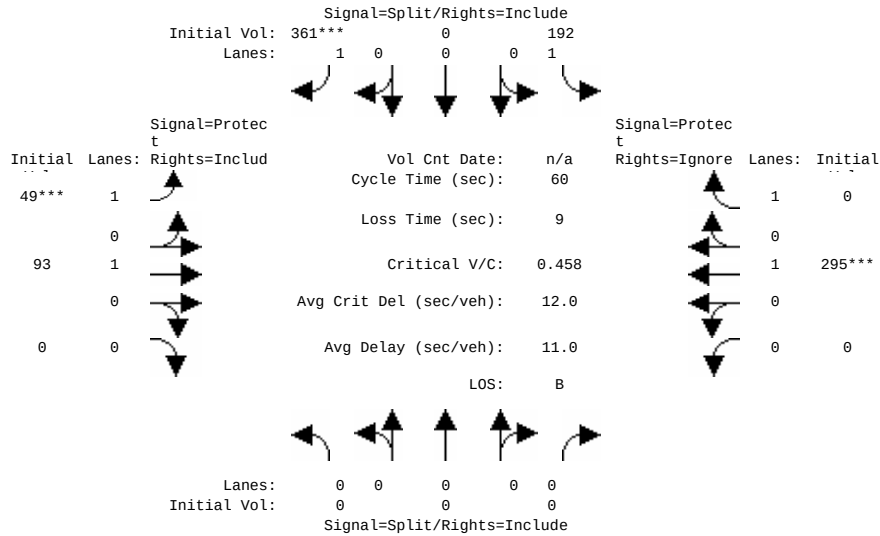
Intersection #15: Manila/H St.



Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	0	0	0	10	0	10	7	10	0	0	10	10
Volume Module:												
Base Vol:	0	0	0	164	0	308	42	25	0	0	63	0
Growth Adj:	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17
Initial Bse:	0	0	0	192	0	361	49	29	0	0	74	0
Added Vol:	0	0	0	0	0	0	0	12	0	0	2	0
Approved Pr:	0	0	0	0	0	0	0	45	0	0	215	0
Initial Fut:	0	0	0	192	0	361	49	86	0	0	291	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	0.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
PHF Volume:	0	0	0	192	0	361	49	86	0	0	291	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	0	0	0	192	0	361	49	86	0	0	291	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	0.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
Final Vol.:	0	0	0	192	0	361	49	86	0	0	291	0
Saturation Flow Module:												
Sat/Lane:	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
Adjustment:	0.97	1.06	0.97	0.97	1.06	0.97	0.97	1.06	0.97	0.97	1.06	0.97
Lanes:	0.00	0.00	0.00	1.00	0.00	1.00	1.00	0.00	0.00	1.00	0.00	1.00
Final Sat.:	0	0	0	1750	0	1750	1750	1900	0	0	1900	1750
Capacity Analysis Module:												
Vol/Sat:	0.00	0.00	0.00	0.11	0.00	0.21	0.03	0.05	0.00	0.00	0.15	0.00
Crit Moves:												
Green Time:	0.0	0.0	0.0	25.3	0.0	25.3	7.0	25.7	0.0	0.0	18.7	0.0
Volume/Cap:	0.00	0.00	0.00	0.26	0.00	0.49	0.24	0.11	0.00	0.00	0.49	0.00
Delay/Veh:	0.0	0.0	0.0	8.6	0.0	10.1	18.4	7.8	0.0	0.0	13.3	0.0
Delay Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
ProgAdjFctr:	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	8.6	0.0	10.1	18.4	7.8	0.0	0.0	13.3	0.0
DesignQueue:	0	0	0	4	0	7	1	2	0	0	7	0

Level Of Service Computation Report
1985 HCM Operations (Future Volume Alternative)
PM 2013 Project Alt. 5

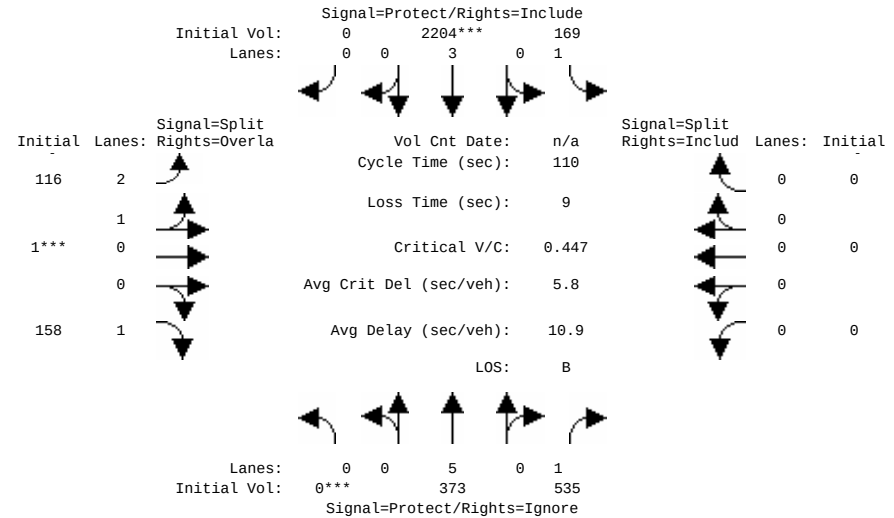
Intersection #15: Manila/H St.



Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	0	0	0	10	0	10	7	10	0	0	10	10
Volume Module:												
Base Vol:	0	0	0	164	0	308	42	25	0	0	63	0
Growth Adj:	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17
Initial Bse:	0	0	0	192	0	361	49	29	0	0	74	0
Added Vol:	0	0	0	0	0	0	0	19	0	0	6	0
Approved Pr:	0	0	0	0	0	0	0	45	0	0	215	0
Initial Fut:	0	0	0	192	0	361	49	93	0	0	295	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	0.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
PHF Volume:	0	0	0	192	0	361	49	93	0	0	295	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	0	0	0	192	0	361	49	93	0	0	295	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	0.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
Final Vol.:	0	0	0	192	0	361	49	93	0	0	295	0
Saturation Flow Module:												
Sat/Lane:	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
Adjustment:	0.97	1.06	0.97	0.97	1.06	0.97	0.97	1.06	0.97	0.97	1.06	0.97
Lanes:	0.00	0.00	0.00	1.00	0.00	1.00	1.00	1.00	0.00	0.00	1.00	1.00
Final Sat.:	0	0	0	1750	0	1750	1750	1900	0	0	1900	1750
Capacity Analysis Module:												
Vol/Sat:	0.00	0.00	0.00	0.11	0.00	0.21	0.03	0.05	0.00	0.00	0.16	0.00
Crit Moves:												
Green Time:	0.0	0.0	0.0	25.1	0.0	25.1	7.0	25.9	0.0	0.0	18.9	0.0
Volume/Cap:	0.00	0.00	0.00	0.26	0.00	0.49	0.24	0.11	0.00	0.00	0.49	0.00
Delay/Veh:	0.0	0.0	0.0	8.7	0.0	10.2	18.4	7.8	0.0	0.0	13.2	0.0
Delay Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
ProgAdjFctr:	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	8.7	0.0	10.2	18.4	7.8	0.0	0.0	13.2	0.0
DesignQueue:	0	0	0	4	0	7	1	2	0	0	7	0

Level Of Service Computation Report
1985 HCM Operations (Future Volume Alternative)
PM Peak

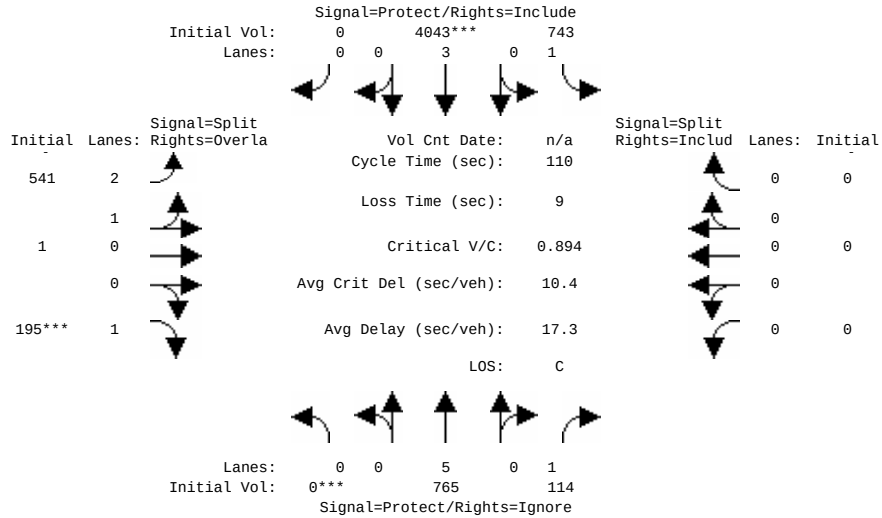
Intersection #16: 237 EB Ramps/Mathilda



Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	0	10	10	7	10	0	7	10	10	0	0	0
Volume Module:												
Base Vol:	0	373	535	169	2204	0	116	1	158	0	0	0
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	0	373	535	169	2204	0	116	1	158	0	0	0
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	0	373	535	169	2204	0	116	1	158	0	0	0
User Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	0	373	0	169	2204	0	116	1	158	0	0	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	0	373	0	169	2204	0	116	1	158	0	0	0
PCE Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Final Vol.:	0	373	0	169	2204	0	116	1	158	0	0	0
Saturation Flow Module:												
Sat/Lane:	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
Adjustment:	0.97	1.06	0.97	0.97	1.06	0.97	0.92	1.06	0.97	0.97	1.06	0.97
Lanes:	0.00	5.00	1.00	1.00	3.00	0.00	2.98	0.02	1.00	0.00	0.00	0.00
Final Sat.:	0	9500	1750	1750	5700	0	4907	42	1750	0	0	0
Capacity Analysis Module:												
Vol/Sat:	0.00	0.04	0.00	0.10	0.39	0.00	0.02	0.02	0.09	0.00	0.00	0.00
Crit Moves:												
Green Time:	0.0	10.0	0.0	71.9	81.9	0.0	19.1	19.1	19.1	0.0	0.0	0.0
Volume/Cap:	0.00	0.43	0.00	0.15	0.52	0.00	0.14	0.14	0.52	0.00	0.00	0.00
Delay/Veh:	0.0	36.2	0.0	5.6	4.5	0.0	29.2	29.2	32.7	0.0	0.0	0.0
Delay Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
ProgAdjFctr:	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	36.2	0.0	5.6	4.5	0.0	29.2	29.2	32.7	0.0	0.0	0.0
DesignQueue:	0	21	0	4	38	0	6	0	8	0	0	0

Level Of Service Computation Report
1985 HCM Operations (Future Volume Alternative)
PM 2013 Project Alt. 1

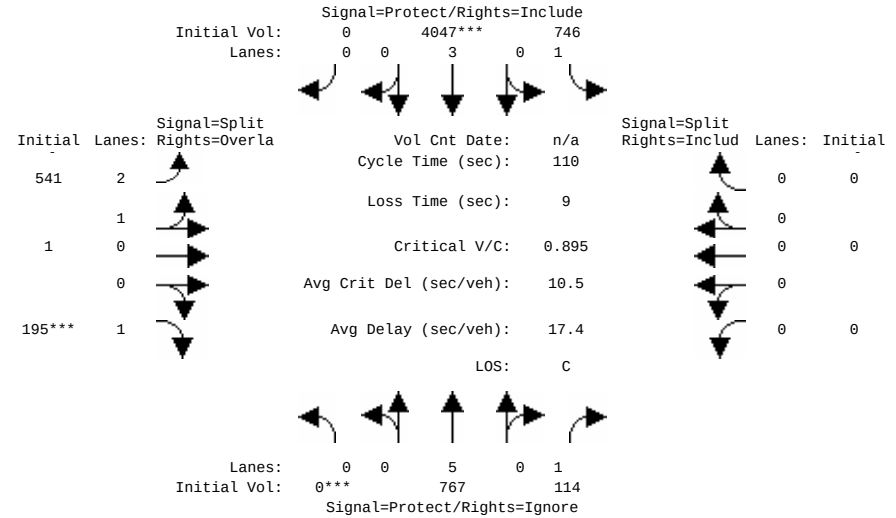
Intersection #16: 237 EB Ramps/Mathilda



Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	0	10	10	7	10	0	7	10	10	0	0	0
Volume Module:												
Base Vol:	0	373	0	169	2204	0	116	1	158	0	0	0
Growth Adj:	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17
Initial Bse:	0	437	0	198	2584	0	136	1	185	0	0	0
Added Vol:	0	1	0	5	8	0	0	0	0	0	0	0
Approved Pr:	0	327	114	540	1451	0	405	0	10	0	0	0
Initial Fut:	0	765	114	743	4043	0	541	1	195	0	0	0
User Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	0	765	0	743	4043	0	541	1	195	0	0	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	0	765	0	743	4043	0	541	1	195	0	0	0
PCE Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Final Vol.:	0	765	0	743	4043	0	541	1	195	0	0	0
Saturation Flow Module:												
Sat/Lane:	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
Adjustment:	0.97	1.06	0.97	0.97	1.06	0.97	0.92	1.00	0.97	0.97	1.06	0.97
Lanes:	0.00	5.00	1.00	1.00	3.00	0.00	2.99	0.01	1.00	0.00	0.00	0.00
Final Sat.:	0	9500	1750	1750	5700	0	4939	11	1750	0	0	0
Capacity Analysis Module:												
Vol/Sat:	0.00	0.08	0.00	0.42	0.71	0.00	0.11	0.11	0.11	0.00	0.00	0.00
Crit Moves:	****	****	****	****	****	****	****	****	****	****	****	****
Green Time:	0.0	10.0	0.0	77.3	87.3	0.0	13.7	13.7	13.7	0.0	0.0	0.0
Volume/Cap:	0.00	0.89	0.00	0.60	0.89	0.00	0.88	0.88	0.89	0.00	0.00	0.00
Delay/Veh:	0.0	45.4	0.0	7.1	8.1	0.0	45.5	45.5	59.7	0.0	0.0	0.0
Delay Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
ProgAdjFctr:	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	45.4	0.0	7.1	8.1	0.0	45.5	45.5	59.7	0.0	0.0	0.0
DesignQueue:	0	43	0	15	63	0	30	0	11	0	0	0

Level Of Service Computation Report
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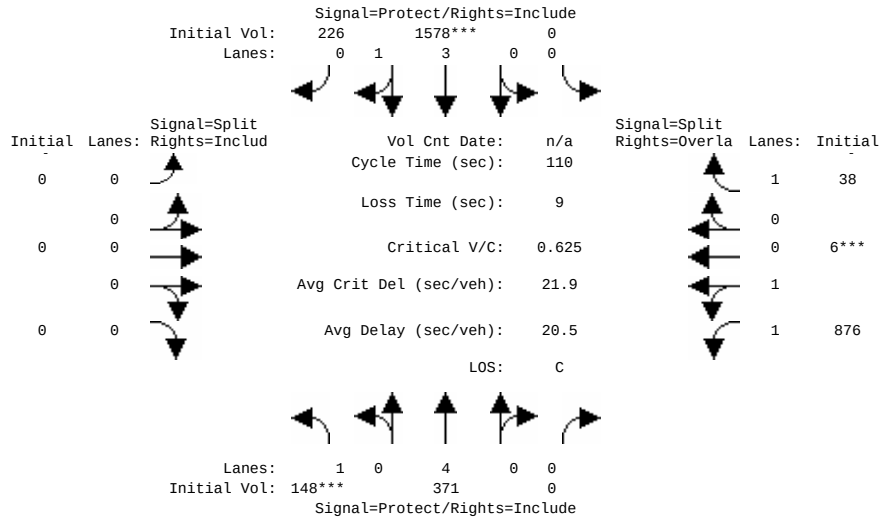
Intersection #16: 237 EB Ramps/Mathilda



Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	0	10	10	7	10	0	7	10	10	0	0	0
Volume Module:												
Base Vol:	0	373	0	169	2204	0	116	1	158	0	0	0
Growth Adj:	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17
Initial Bse:	0	437	0	198	2584	0	136	1	185	0	0	0
Added Vol:	0	3	0	8	12	0	0	0	0	0	0	0
Approved Pr:	0	327	114	540	1451	0	405	0	10	0	0	0
Initial Fut:	0	767	114	746	4047	0	541	1	195	0	0	0
User Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	0	767	0	746	4047	0	541	1	195	0	0	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	0	767	0	746	4047	0	541	1	195	0	0	0
PCE Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Final Vol.:	0	767	0	746	4047	0	541	1	195	0	0	0
Saturation Flow Module:												
Sat/Lane:	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
Adjustment:	0.97	1.06	0.97	0.97	1.06	0.97	0.92	1.00	0.97	0.97	1.06	0.97
Lanes:	0.00	5.00	1.00	1.00	3.00	0.00	2.99	0.01	1.00	0.00	0.00	0.00
Final Sat.:	0	9500	1750	1750	5700	0	4939	11	1750	0	0	0
Capacity Analysis Module:												
Vol/Sat:	0.00	0.08	0.00	0.43	0.71	0.00	0.11	0.11	0.11	0.00	0.00	0.00
Crit Moves:	****	****	****	****	****	****	****	****	****	****	****	****
Green Time:	0.0	10.0	0.0	77.3	87.3	0.0	13.7	13.7	13.7	0.0	0.0	0.0
Volume/Cap:	0.00	0.89	0.00	0.61	0.89	0.00	0.88	0.88	0.89	0.00	0.00	0.00
Delay/Veh:	0.0	45.6	0.0	7.1	8.1	0.0	45.6	45.6	59.8	0.0	0.0	0.0
Delay Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
ProgAdjFctr:	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	45.6	0.0	7.1	8.1	0.0	45.6	45.6	59.8	0.0	0.0	0.0
DesignQueue:	0	44	0	15	63	0	30	0	11	0	0	0

Level Of Service Computation Report
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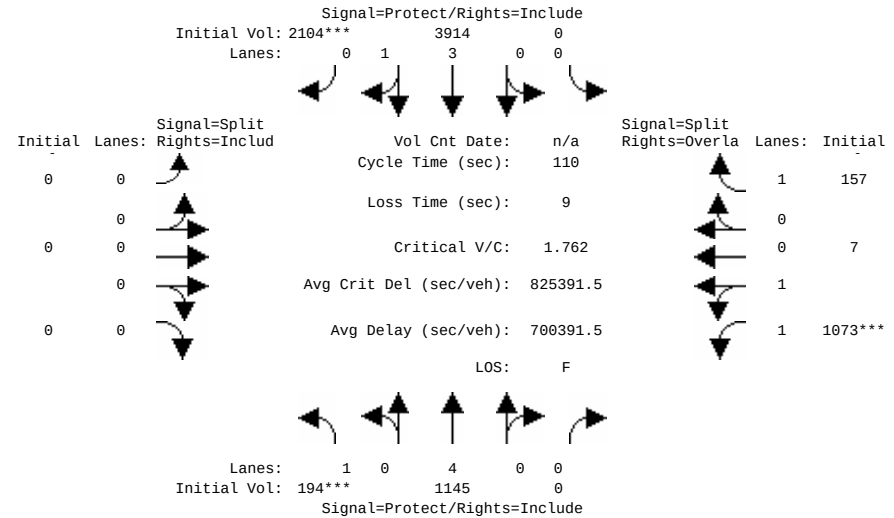
Intersection #17: 237 WB Ramps/Mathilda



Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	7	10	0	0	10	10	0	0	0	7	10	10
Volume Module:												
Base Vol:	148	371	0	0	1578	226	0	0	0	876	6	38
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:	148	371	0	0	1578	226	0	0	0	876	6	38
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:	148	371	0	0	1578	226	0	0	0	876	6	38
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:	148	371	0	0	1578	226	0	0	0	876	6	38
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	148	371	0	0	1578	226	0	0	0	876	6	38
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 Vol.:	148	371	0	0	1578	226	0	0	0	876	6	38
Saturation Flow Module:												
Sat/Lane:	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
Adjustment:	0.97	1.06	0.97	0.97	1.05	1.00	0.97	1.06	0.97	0.99	1.00	0.97
Lanes:	1.00	4.00	0.00	0.00	3.48	0.52	0.00	0.00	0.00	1.99	0.01	1.00
Final Sat.:	1750	7600	0	0	6559	939	0	0	0	3526	24	1750
Capacity Analysis Module:												
Vol/Sat:	0.08	0.05	0.00	0.00	0.24	0.24	0.00	0.00	0.00	0.25	0.25	0.02
Crit Moves:	***	***	***	***	***	***	***	***	***	***	***	***
Green Time:	14.9	57.3	0.0	0.0	42.4	42.4	0.0	0.0	0.0	43.7	43.7	43.7
Volume/Cap:	0.62	0.09	0.00	0.00	0.62	0.62	0.00	0.00	0.00	0.62	0.62	0.05
Delay/Veh:	37.7	10.1	0.0	0.0	21.1	21.1	0.0	0.0	0.0	20.8	20.8	15.5
Delay Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
ProgAdjFctr:	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:	37.7	10.1	0.0	0.0	21.1	21.1	0.0	0.0	0.0	20.8	20.8	15.5
DesignQueue:	8	11	0	0	63	9	0	0	0	34	0	1

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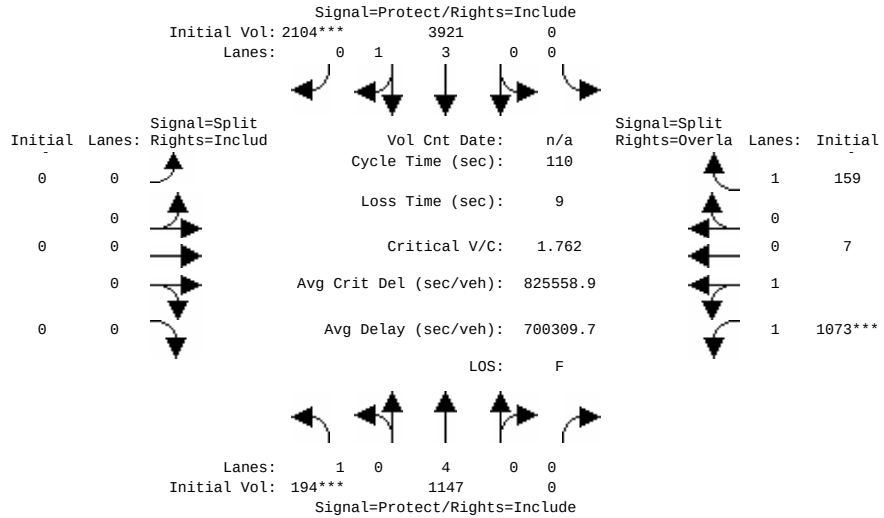
Intersection #17: 237 WB Ramps/Mathilda



Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	7	10	0	0	10	10	0	0	0	7	10	10
Volume Module:												
Base Vol:	148	371	0	0	1578	226	0	0	0	876	6	38
Growth Adj:	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17
Initial Bse:	173	435	0	0	1850	265	0	0	0	1027	7	45
Added Vol:	0	1	0	0	12	0	0	0	0	0	0	1
Approved Pr:	21	709	0	0	2052	1839	0	0	0	46	0	111
Initial Fut:	194	1145	0	0	3914	2104	0	0	0	1073	7	157
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:	194	1145	0	0	3914	2104	0	0	0	1073	7	157
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	194	1145	0	0	3914	2104	0	0	0	1073	7	157
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 Vol.:	194	1145	0	0	3914	2104	0	0	0	1073	7	157
Saturation Flow Module:												
Sat/Lane:	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
Adjustment:	0.97	1.06	0.97	0.97	1.06	0.97	0.97	1.06	0.97	0.99	1.00	0.97
Lanes:	1.00	4.00	0.00	0.00	3.00	1.00	0.00	0.00	0.00	1.99	0.01	1.00
Final Sat.:	1750	7600	0	0	5700	1750	0	0	0	3527	23	1750
Capacity Analysis Module:												
Vol/Sat:	0.11	0.15	0.00	0.00	0.69	1.20	0.00	0.00	0.00	0.30	0.30	0.09
Crit Moves:	***	***	***	***	***	***	***	***	***	***	***	***
Green Time:	7.0	82.0	0.0	0.0	75.0	75.0	0.0	0.0	0.0	19.0	19.0	19.0
Volume/Cap:	1.75	0.20	0.00	0.00	1.01	1.76	0.00	0.00	0.00	1.76	1.76	0.52
Delay/Veh:	909.4	3.2	0.0	0.0	23.9	xxxxx	0.0	0.0	0.0	877.3	877	32.7
Delay Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
ProgAdjFctr:	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:	909.4	3.2	0.0	0.0	23.9	xxxxx	0.0	0.0	0.0	877.3	877	32.7
DesignQueue:	11	19	0	0	93	58	0	0	0	59	0	8

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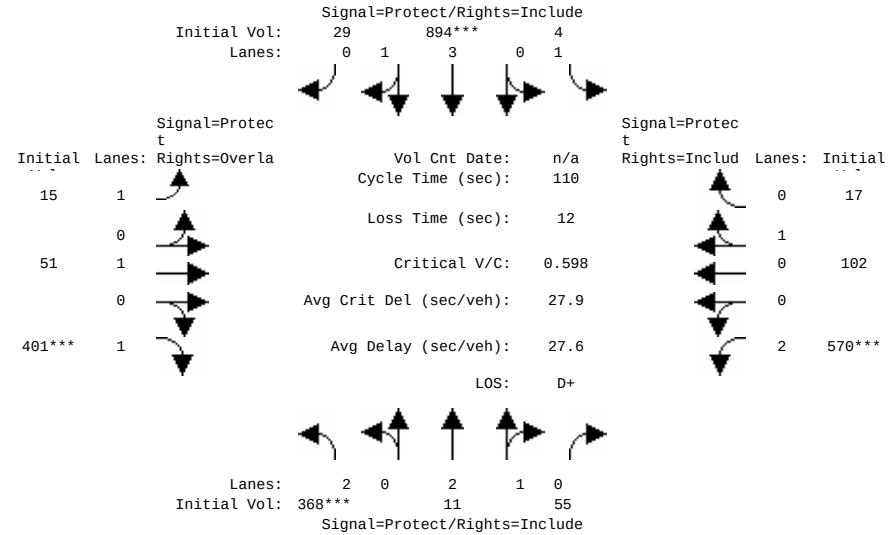
Intersection #17: 237 WB Ramps/Mathilda



Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	7	10	0	0	10	10	0	0	0	7	10	10
Volume Module:												
Base Vol:	148	371	0	0	1578	226	0	0	0	876	6	38
Growth Adj:	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17
Initial Bse:	173	435	0	0	1850	265	0	0	0	1027	7	45
Added Vol:	0	3	0	0	19	0	0	0	0	0	0	3
Approved Pr:	21	709	0	0	2052	1839	0	0	0	46	0	111
Initial Fut:	194	1147	0	0	3921	2104	0	0	0	1073	7	159
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:	194	1147	0	0	3921	2104	0	0	0	1073	7	159
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	194	1147	0	0	3921	2104	0	0	0	1073	7	159
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 Vol.:	194	1147	0	0	3921	2104	0	0	0	1073	7	159
Saturation Flow Module:												
Sat/Lane:	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
Adjustment:	0.97	1.06	0.97	0.97	1.06	0.97	0.97	1.06	0.97	0.99	1.00	0.97
Lanes:	1.00	4.00	0.00	0.00	3.00	1.00	0.00	0.00	0.00	1.99	0.01	1.00
Final Sat.:	1750	7600	0	0	5700	1750	0	0	0	3527	23	1750
Capacity Analysis Module:												
Vol/Sat:	0.11	0.15	0.00	0.00	0.69	1.20	0.00	0.00	0.00	0.30	0.30	0.09
Crit Moves:	****	****	****	****	****	****	****	****	****	****	****	****
Green Time:	7.0	82.0	0.0	0.0	75.0	75.0	0.0	0.0	0.0	19.0	19.0	19.0
Volume/Cap:	1.75	0.20	0.00	0.00	1.01	1.76	0.00	0.00	0.00	1.76	1.76	0.53
Delay/Veh:	909.4	3.2	0.0	0.0	24.3	xxxxx	0.0	0.0	0.0	877.3	877	32.8
Delay Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
ProgAdjFctr:	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:	909.4	3.2	0.0	0.0	24.3	xxxxx	0.0	0.0	0.0	877.3	877	32.8
DesignQueue:	11	19	0	0	93	58	0	0	0	59	0	8

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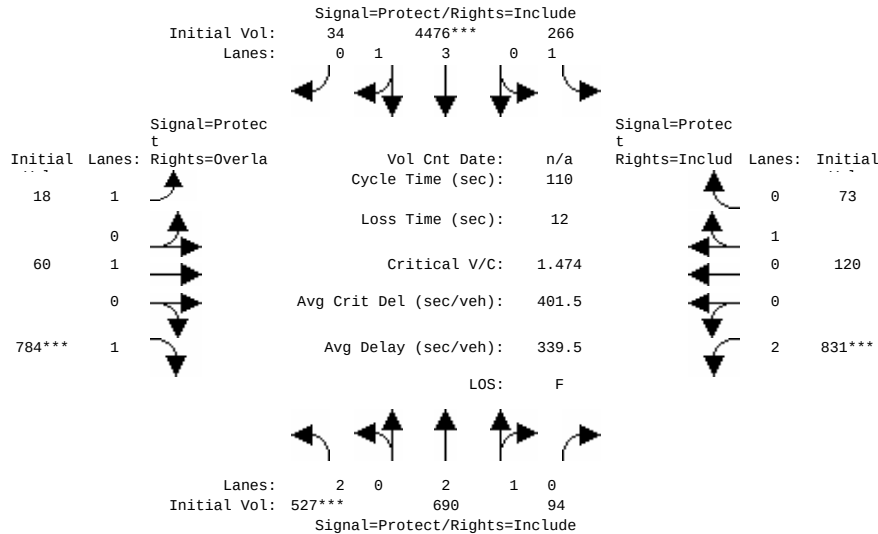
Intersection #18: Mathilda/Moffett Park



Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	7	10	10	7	10	10	7	10	10	7	10	10
Volume Module:												
Base Vol:	368	11	55	4	894	29	15	51	401	570	102	17
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	368	11	55	4	894	29	15	51	401	570	102	17
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	368	11	55	4	894	29	15	51	401	570	102	17
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	368	11	55	4	894	29	15	51	401	570	102	17
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	368	11	55	4	894	29	15	51	401	570	102	17
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Final Vol.:	368	11	55	4	894	29	15	51	401	570	102	17
Saturation Flow Module:												
Sat/Lane:	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
Adjustment:	0.88	1.06	0.97	0.97	1.04	1.00	0.97	1.06	0.97	0.88	1.00	1.00
Lanes:	2.00	2.00	1.00	1.00	3.87	0.13	1.00	1.00	1.00	2.00	0.86	0.14
Final Sat.:	3150	3800	1750	1750	7264	236	1750	1900	1750	3150	1543	257
Capacity Analysis Module:												
Vol/Sat:	0.12	0.00	0.03	0.00	0.12	0.12	0.01	0.03	0.23	0.18	0.07	0.07
Crit Moves:	****	****	****	****	****	****	****	****	****	****	****	****
Green Time:	21.5	25.9	25.9	18.2	22.6	22.6	22.2	20.6	42.1	33.3	31.7	31.7
Volume/Cap:	0.60	0.01	0.13	0.01	0.60	0.60	0.04	0.14	0.60	0.60	0.23	0.23
Delay/Veh:	31.8	24.5	25.2	29.2	30.6	30.6	26.9	28.4	21.7	25.6	22.7	22.7
Delay Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
ProgAdjFctr:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	31.8	24.5	25.2	29.2	30.6	30.6	26.9	28.4	21.7	25.6	22.7	22.7
DesignQueue:	19	1	3	0	45	1	1	3	16	25	5	1

Level Of Service Computation Report
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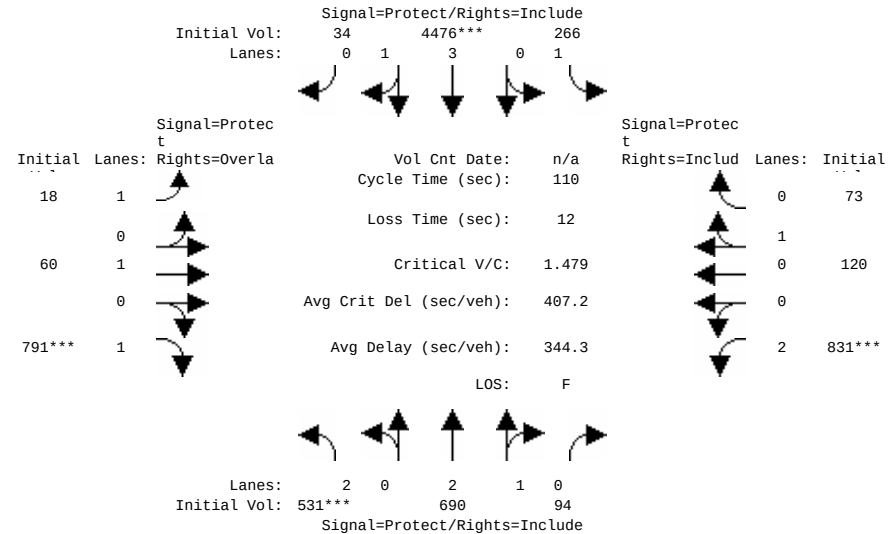
Intersection #18: Mathilda/Moffett Park



Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	7	10	10	7	10	10	7	10	10	7	10	10
Volume Module:												
Base Vol:	368	11	55	4	894	29	15	51	401	570	102	17
Growth Adj:	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17
Initial Bse:	431	13	64	5	1048	34	18	60	470	668	120	20
Added Vol:	2	0	0	0	0	0	0	0	12	0	0	0
Approved Pr:	94	677	30	261	3428	0	0	0	302	163	0	53
Initial Fut:	527	690	94	266	4476	34	18	60	784	831	120	73
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:	527	690	94	266	4476	34	18	60	784	831	120	73
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	527	690	94	266	4476	34	18	60	784	831	120	73
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 Vol.:	527	690	94	266	4476	34	18	60	784	831	120	73
Saturation Flow Module:												
Sat/Lane:	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
Adjustment:	0.88	1.04	1.00	0.97	1.04	1.00	0.97	1.06	0.97	0.88	1.00	1.00
Lanes:	2.00	2.63	0.37	1.00	3.97	0.03	1.00	1.00	1.00	2.00	0.62	0.38
Final Sat.:	3150	4925	674	1750	7443	57	1750	1900	1750	3150	1118	682
Capacity Analysis Module:												
Vol/Sat:	0.17	0.14	0.14	0.15	0.60	0.60	0.01	0.03	0.45	0.26	0.11	0.11
Crit Moves:	****	****	****	****	****	****	****	****	****	****	****	****
Green Time:	12.5	27.5	27.5	29.8	44.9	44.9	7.0	20.9	33.4	19.7	33.6	33.6
Volume/Cap:	1.47	0.56	0.56	0.56	1.47	1.47	0.16	0.17	1.47	1.47	0.35	0.35
Delay/Veh:	420.3	27.7	27.7	27.3	396	396.1	37.1	28.3	409.8	410.5	22.7	22.7
Delay Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
ProgAdjFctr:	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:	420.3	27.7	27.7	27.3	396	396.1	37.1	28.3	409.8	410.5	22.7	22.7
DesignQueue:	30	33	4	12	192	1	1	3	37	44	5	3

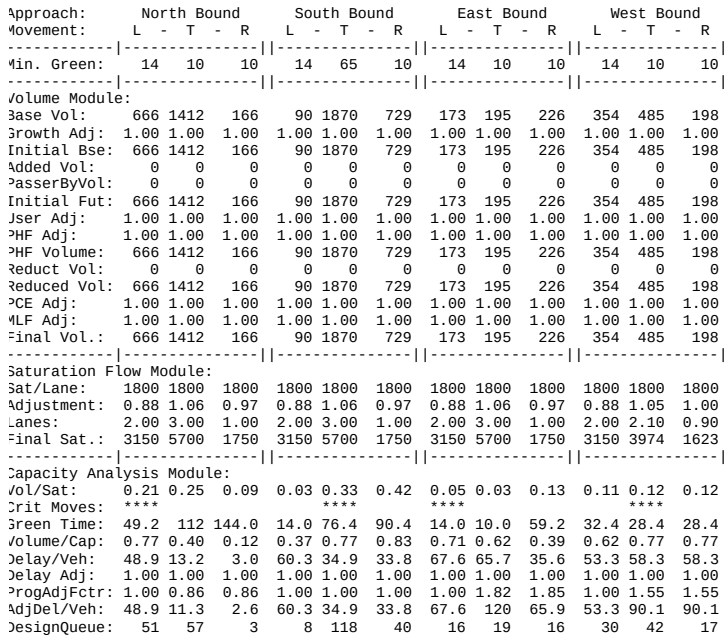
Level Of Service Computation Report
1985 HCM Operations (Future Volume Alternative)
PM 2013 Project Alt. 5

Intersection #18: Mathilda/Moffett Park

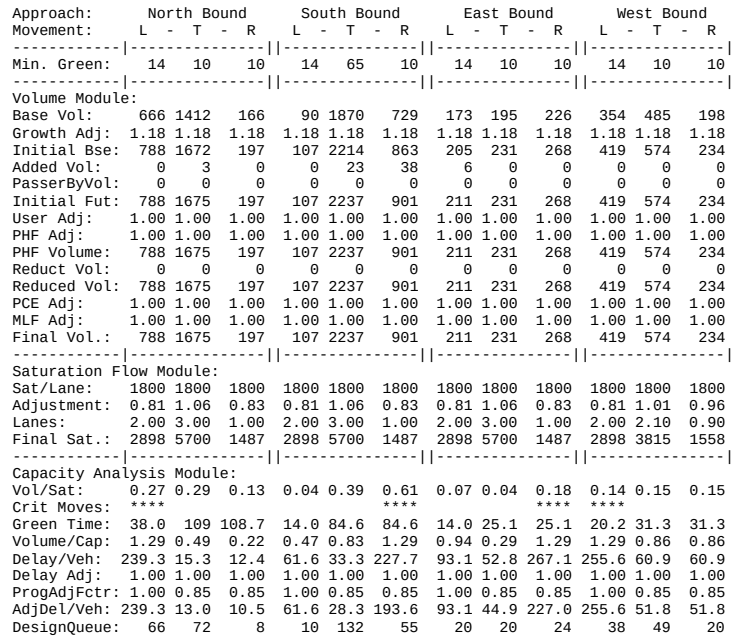


Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	7	10	10	7	10	10	7	10	10	7	10	10
Volume Module:												
Base Vol:	368	11	55	4	894	29	15	51	401	570	102	17
Growth Adj:	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17
Initial Bse:	431	13	64	5	1048	34	18	60	470	668	120	20
Added Vol:	6	0	0	0	0	0	0	0	19	0	0	0
Approved Pr:	94	677	30	261	3428	0	0	0	302	163	0	53
Initial Fut:	531	690	94	266	4476	34	18	60	791	831	120	73
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:	531	690	94	266	4476	34	18	60	791	831	120	73
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	531	690	94	266	4476	34	18	60	791	831	120	73
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 Vol.:	531	690	94	266	4476	34	18	60	791	831	120	73
Saturation Flow Module:												
Sat/Lane:	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
Adjustment:	0.88	1.04	1.00	0.97	1.04	1.00	0.97	1.06	0.97	0.88	1.00	1.00
Lanes:	2.00	2.63	0.37	1.00	3.97	0.03	1.00	1.00	1.00	2.00	0.62	0.38
Final Sat.:	3150	4925	674	1750	7443	57	1750	1900	1750	3150	1118	682
Capacity Analysis Module:												
Vol/Sat:	0.17	0.14	0.14	0.15	0.60	0.60	0.01	0.03	0.45	0.26	0.11	0.11
Crit Moves:	****	****	****	****	****	****	****	****	****	****	****	****
Green Time:	12.6	27.5	27.5	29.8	44.7	44.7	7.0	21.1	33.6	19.6	33.7	33.7
Volume/Cap:	1.48	0.56	0.56	0.56	1.48	1.48	0.16	0.16	1.48	1.48	0.35	0.35
Delay/Veh:	425.8	27.7	27.7	27.3	402	401.9	37.1	28.2	415.4	416.2	22.7	22.7
Delay Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
ProgAdjFctr:	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:	425.8	27.7	27.7	27.3	402	401.9	37.1	28.2	415.4	416.2	22.7	22.7
DesignQueue:	30	33	4	12	192	1	1	3	38	44	5	3

Intersection #19: Central/Mary

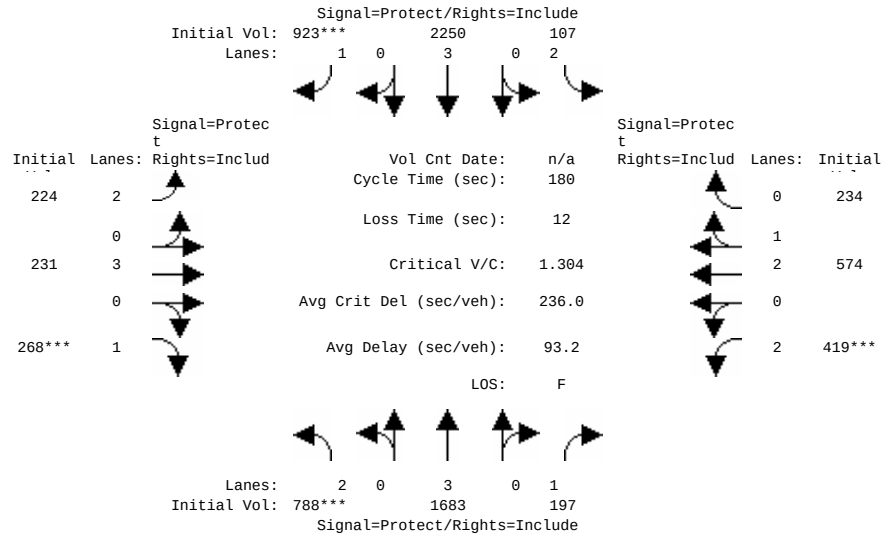


Intersection #19: Central/Mary



Level of Service Computation Report
1985 HCM Operations (Future Volume Alternative)
PM 2013 Project Alt. 5

Intersection #19: Central/Mary



Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	14	10	10	14	65	10	14	10	10	14	10	10
Volume Module:												
Base Vol:	666	1412	166	90	1870	729	173	195	226	354	485	198
Growth Adj:	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18
Initial Bse:	788	1672	197	107	2214	863	205	231	268	419	574	234
Added Vol:	0	11	0	0	36	60	19	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	788	1683	197	107	2250	923	224	231	268	419	574	234
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:	788	1683	197	107	2250	923	224	231	268	419	574	234
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	788	1683	197	107	2250	923	224	231	268	419	574	234
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 Vol.:	788	1683	197	107	2250	923	224	231	268	419	574	234
Saturation Flow Module:												
Sat/Lane:	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
Adjustment:	0.81	1.06	0.83	0.81	1.06	0.83	0.81	1.06	0.83	0.81	1.01	0.96
Lanes:	2.00	3.00	1.00	2.00	3.00	1.00	2.00	3.00	1.00	2.00	2.10	0.90
Final Sat.:	2898	5700	1487	2898	5700	1487	2898	5700	1487	2898	3815	1558
Capacity Analysis Module:												
Vol/Sat:	0.27	0.30	0.13	0.04	0.39	0.62	0.08	0.04	0.18	0.14	0.15	0.15
Crit Moves:	****			****			****		****			
Green Time:	37.6	109	109.2	14.0	85.7	85.7	14.0	24.8	24.8	20.0	30.8	30.8
Volume/Cap:	1.30	0.49	0.22	0.47	0.83	1.30	0.99	0.29	1.30	1.30	0.88	0.88
Delay/Veh:	253.1	15.1	12.2	61.6	32.7	241.7	107.1	53.0	281.1	269.4	62.3	62.3
Delay Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
ProgAdjFctr:	1.00	0.85	0.85	1.00	0.85	0.85	1.00	0.85	0.85	1.00	0.85	0.85
AdjDel/Veh:	253.1	12.8	10.4	61.6	27.8	205.4	107.1	45.1	238.9	269.4	53.0	53.0
DesignQueue:	66	72	8	10	132	55	21	20	24	38	49	20

A P P E N D I X H 2

AIR QUALITY CALCULATIONS

NASA AMES DEVELOPMENT PLAN
Total Annual Operational Emissions by Alternative
Emissions in tons per year

		2003						2005						2010						2015						2020					
		100% Build out						100% Build out						100% Build out						100% Build out						100% Build out					
Scenario	ROG	NOx	CO	PM10	ROG	NOx	CO	PM10	ROG	NOx	CO	PM10	ROG	NOx	CO	PM10	ROG	NOx	CO	PM10	ROG	NOx	CO	PM10							
Alternative 1	Area Sources																														
	Mobile Sources (Sat)	0.3	6.6	1.0	0.0	0.3	6.6	1.0	0.0	0.3	6.6	1.0	0.0	0.3	6.6	1.0	0.0	0.3	6.6	1.0	0.0	0.3	6.6	1.0	0.0						
	Mobile Sources (Sun)	0.2	0.3	4.4	0.1	0.1	0.3	2.8	0.1	0.1	0.3	2.8	0.1	0.1	0.2	1.9	0.1	0.1	0.2	1.9	0.1	0.1	0.2	1.6	0.1						
	Mobile Sources (WD)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0						
	TOTAL	5.7	11.1	142.5	4.3	3.3	8.6	90.1	4.3	4.3	2.2	7.6	61.4	4.3	2.2	7.6	61.4	4.3	2.1	14.0	53.3	4.4	1.80	7.40	52.35	4.39					
	Mobile	6.2	18.0	147.9	4.4	3.7	15.5	93.9	4.4	4.4	2.6	14.4	64.4	4.4	2.6	14.4	64.4	4.4	2.1	14.0	53.3	4.4	1.80	7.40	52.35	4.39					
Alternative 2	Area Sources																														
	Mobile Sources (Sat)	0.4	8.0	4.0	0.0	0.4	8.0	4.0	0.0	0.4	8.0	4.0	0.0	0.4	8.0	4.0	0.0	0.4	8.0	4.0	0.0	0.4	8.0	4.0	0.0						
	Mobile Sources (Sun)	4.0	7.7	99.5	3.0	2.3	6.0	62.9	3.0	3.0	1.5	5.3	42.9	3.0	1.5	5.3	42.9	3.0	1.2	5.0	35.4	3.0	1.2	5.0	35.4	3.0					
	Mobile Sources (WD)	3.7	7.2	92.7	2.8	2.2	5.6	58.7	2.8	2.8	1.4	4.9	40.0	2.8	1.4	4.9	40.0	2.8	1.1	4.7	33.0	2.8	1.1	4.7	33.0	2.8					
	TOTAL	22.8	44.4	570.7	17.1	13.3	34.6	361.0	17.1	17.1	8.8	30.3	246.1	17.1	8.8	30.3	246.1	17.1	7.0	28.7	203.4	17.1	7.0	28.7	203.4	17.1					
	Mobile	30.9	67.4	766.9	22.8	18.2	54.3	486.6	22.8	22.8	12.1	48.5	333.0	22.8	12.1	48.5	333.0	22.8	9.8	46.4	275.9	22.8	9.8	46.4	275.9	22.8					
Alternative 3	Area Sources																														
	Mobile Sources (Sat)	0.3	6.8	4.0	0.0	0.3	6.8	4.0	0.0	0.3	6.8	4.0	0.0	0.3	6.8	4.0	0.0	0.3	6.8	4.0	0.0	0.3	6.8	4.0	0.0						
	Mobile Sources (Sun)	3.3	6.5	83.1	2.5	1.9	5.0	52.6	2.5	2.5	1.3	4.4	35.9	2.5	1.3	4.4	35.9	2.5	1.0	4.2	29.6	2.5	1.0	4.2	29.6	2.5					
	Mobile Sources (WD)	3.1	5.9	76.3	2.3	1.8	4.6	48.3	2.3	2.3	1.2	4.1	32.9	2.3	1.2	4.1	32.9	2.3	0.9	5.8	27.2	2.3	0.9	5.8	27.2	2.3					
	TOTAL	16.7	32.4	417.0	12.5	9.7	25.3	263.8	12.5	12.5	6.4	22.1	179.8	12.5	6.4	22.1	179.8	12.5	5.1	21.0	148.6	12.5	5.1	21.0	148.6	12.5					
	Mobile	23.4	51.6	580.4	17.2	13.8	41.8	368.7	17.2	17.2	9.2	37.4	252.6	17.2	9.2	37.4	252.6	17.2	7.4	37.8	209.4	17.2	7.4	37.8	209.4	17.2					
Alternative 4	Area Sources																														
	Mobile Sources (Sat)	0.6	8.8	4.0	0.0	0.6	8.8	4.0	0.0	0.6	8.8	4.0	0.0	0.6	8.8	4.0	0.0	0.6	8.8	4.0	0.0	0.6	8.8	4.0	0.0						
	Mobile Sources (Sun)	4.6	9.0	115.6	3.5	2.7	7.0	73.1	3.5	3.5	1.8	6.1	49.8	3.5	1.8	6.1	49.8	3.5	1.4	5.8	41.2	3.5	1.4	5.8	41.2	3.5					
	Mobile Sources (WD)	4.2	8.2	104.8	3.1	2.4	6.4	66.3	3.1	3.1	1.6	5.6	45.2	3.1	1.6	5.6	45.2	3.1	1.3	5.3	37.3	3.1	1.3	5.3	37.3	3.1					
	TOTAL	28.1	54.7	703.6	21.0	16.4	42.7	445.1	21.0	21.0	10.8	37.3	303.5	21.0	10.8	37.3	303.5	21.0	8.6	35.4	250.7	21.0	8.6	35.4	250.7	21.0					
	Mobile	37.6	80.7	927.9	27.6	22.2	64.8	588.5	27.6	27.6	14.8	57.8	402.5	27.6	14.8	57.8	402.5	27.6	11.9	55.3	333.3	27.6	11.9	55.3	333.3	27.6					
Alternative 5	Area Sources																														
	Mobile Sources (Sat)	0.5	9.3	4.0	0.0	0.5	9.3	4.0	0.0	0.5	9.3	4.0	0.0	0.5	9.3	4.0	0.0	0.5	9.3	4.0	0.0	0.5	9.3	4.0	0.0						
	Mobile Sources (Sun)	4.0	7.8	100.4	3.0	2.3	6.1	63.5	3.0	3.0	1.5	5.3	43.3	3.0	1.5	5.3	43.3	3.0	1.2	5.1	35.8	3.0	1.2	5.1	35.8	3.0					
	Mobile Sources (WD)	4.1	7.9	101.4	3.0	2.4	6.2	64.2	3.0	3.0	1.6	5.4	43.7	3.0	1.6	5.4	43.7	3.0	1.2	5.1	36.1	3.0	1.2	5.1	36.1	3.0					
	TOTAL	16.1	31.2	401.2	12.0	9.4	24.3	253.8	12.0	12.0	6.2	21.3	173.0	12.0	6.2	21.3	173.0	12.0	4.9	20.2	143.0	12.0	4.9	20.2	143.0	12.0					
	Mobile	24.6	56.2	607.1	18.0	14.6	45.9	385.5	18.0	18.0	9.8	41.3	264.1	18.0	9.8	41.3	264.1	18.0	7.9	39.7	218.9	18.0	7.9	39.7	218.9	18.0					
Alternative 5 Housing	Area Sources																														
	Mobile Sources (Sat)	0.547	10.2	4.4	0.5	10.2	4.4	0.5	0.5	10.2	4.4	0.5	0.5	10.2	4.4	0.5	0.5	10.2	4.4	0.5	10.2	4.374	0.5	10.2	4.374	0.5					
	Mobile Sources (Sun)	5.2	10.0	128.8	3.9	3.0	7.8	81.5	3.9	3.9	2.0	6.8	55.6	3.9	2.0	6.8	55.6	3.9	1.6	6.5	45.9	3.9	1.6	6.5	45.9	3.9					
	Mobile Sources (WD)	5.3	10.4	133.5	4.0	3.1	8.1	84.5	4.0	4.0	2.1	7.1	57.6	4.0	2.1	7.1	57.6	4.0	1.6	6.7	47.6	4.0	1.6	6.7	47.6	4.0					
	TOTAL	21.7	42.2	542.8	16.2	12.7	32.9	343.4	16.2	16.2	8.3	28.8	234.1	16.2	8.3	28.8	234.1	16.2	6.7	27.3	193.4	16.2	6.7	27.3	193.4	16.2					
	Mobile	32.8	72.8	809.5	24.1	19.4	59.0	513.7	24.1	24.1	12.9	52.9	351.6	24.1	12.9	52.9	351.6	24.1	10.4	50.7	291.3	24.1	10.4	50.7	291.3	24.1					
	Area Sources																														
	Mobile Sources (Sat)	32.21	62.64	805.16	24.08	18.81	48.83	509.36	24.08	24.08	12.38	42.73	347.24	24.08	12.38	42.73	347.24	24.08	9.89	40.55	286.93	24.08	9.89	40.55	286.93	24.08					

NASA AMES DEVELOPMENT PLAN
 Total Annual Air Pollutant Emissions
 Emissions by 1000 Square Feet of Construction
 based on Alt 5 Construction
 CO

Emission Factor (tons per 1000 ft²)

Year	Construction	Area	Mobile
2003	0.0033	-	-
2004	0.0161	0.0010	0.1747
2005	0.0288	0.0010	0.1627
2006	0.0283	0.0010	0.1507
2007	0.0278	0.0010	0.1388
2008	0.0273	0.0010	0.1268
2009	0.0268	0.0010	0.1149
2010	0.0263	0.0010	0.1029
2011	0.0259	0.0010	0.0963
2012	0.0256	0.0010	0.0898
2013	0.0252	0.0010	0.0832
2014	0.0249	0.0010	0.0767
2015	0.0245	0.0010	0.0701

INPUT DATA

↓

Incremental 1000s ft² Const	1000s ft² Occupancy	Annual Emissions (tons per year)
450.0	0	1.5
450.0	450	86.3
450.0	900	160.3
450.0	1350	217.6
450.0	1800	264.1
450.0	2250	299.9
450.0	2700	324.9
450.0	3150	339.1
450.0	3600	362.1
450.0	4050	379.2
450.0	4500	390.3
	4950	384.4
	4950	351.9

11 yr Build out

Note: Emissions factors are a composite factor for square footage. These factors change with year and mix of land uses. Factors were developed for 2000, 2005, 2010, and 2015 - then interpolated for other years.

NASA AMES DEVELOPMENT PLAN
 Total Annual Air Pollutant Emissions
 Emissions by 1000 Square Feet of Construction
 based on Alt 5 Construction
 NOx

Emission Factor (tons per 1000 ft ²)			
Year	Construction	Area	Mobile
2003	0.1953	—	—
2004	0.1822	0.0020	0.0132
2005	0.1691	0.0020	0.0127
2006	0.1612	0.0020	0.0122
2007	0.1533	0.0020	0.0116
2008	0.1454	0.0020	0.0111
2009	0.1375	0.0020	0.0105
2010	0.1296	0.0020	0.0100
2011	0.1234	0.0020	0.0097
2012	0.1172	0.0020	0.0094
2013	0.1110	0.0020	0.0092
2014	0.1048	0.0020	0.0089
2015	0.0986	0.0020	0.0086

INPUT DATA

↓

Incremental 1000s ft ² Const	1000s ft ² Occupancy	Annual Emissions (tons per year)
450.0	0	87.9
450.0	450	88.8
450.0	900	89.3
450.0	1350	91.7
450.0	1800	93.5
450.0	2250	94.9
450.0	2700	95.7
450.0	3150	96.1
450.0	3600	97.7
450.0	4050	99.1
450.0	4500	100.2
	4950	53.9
	4950	52.5

11 yr Build out

Note: Emissions factors are a composite factor for square footage. These factors change with year and mix of land uses. Factors were developed for 2000, 2005, 2010, and 2015 - then interpolated for other years.

NASA AMES DEVELOPMENT PLAN
Total Annual Air Pollutant Emissions
Emissions by 1000 Square Feet of Construction
based on Alt 5 Construction
ROG

Emission Factor (tons per 1000 ft ²)			
Year	Construction	Area	Mobile
2003	0.0121	—	—
2004	0.0115	0.0001	0.0070
2005	0.0109	0.0001	0.0065
2006	0.0103	0.0001	0.0060
2007	0.0096	0.0001	0.0054
2008	0.0090	0.0001	0.0049
2009	0.0083	0.0001	0.0043
2010	0.0077	0.0001	0.0038
2011	0.0073	0.0001	0.0035
2012	0.0069	0.0001	0.0033
2013	0.0064	0.0001	0.0030
2014	0.0060	0.0001	0.0028
2015	0.0056	0.0001	0.0025

INPUT DATA

Incremental 1000s ft ² Const	1000s ft ² Occupancy	Annual Emissions (tons per year)
450.0	0	5.4
450.0	450	8.4
450.0	900	10.8
450.0	1350	12.8
450.0	1800	14.3
450.0	2250	15.2
450.0	2700	15.7
450.0	3150	15.8
450.0	3600	16.4
450.0	4050	16.8
450.0	4500	16.9
	4950	14.2
	4950	12.9

11 yr Build out

Note: Emissions factors are a composite factor for square footage. These factors change with year and mix of land uses. Factors were developed for 2000, 2005, 2010, and 2015 - then interpolated for other years.

NASA AMES DEVELOPMENT PLAN EMISSION FACTORS
On-Road Motor Vehicle Emission Factors

Santa Clara County	2000	2003	2005	2010	2015	2020
Burden Info						
Daily VMT (county-wide)			35830000	38767000	41708000	44644000
Daily Starts (county-wide)			8618209	9277197	9936189	10596849

VMt =
6.9 mi in 2000 through 2015

Project Info	Weekday		Saturday		Sunday	
	Unmitigated	Mitigated	Unmitigated	Mitigated	Unmitigated	Mitigated
Alt 1 Trips	5934	5371	694	680	0	0
Alt 2 Trips	33527	21517	16649	15233	13159	11960
Alt 3 Trips	24406	15721	13831	12734	10763	9845
Alt 4 Trips	41148	26528	19386	17699	14916	13514
Alt 5 Trips	27790	15127	17031	15385	14525	13080
Alt 5 Housing	39287	20464	22228	19735	19454	17223

Percent of Weekday Trips

Saturday	Sunday	
	Unmitigated	Mitigated
12%	13%	0%
50%	71%	39%
57%	81%	44%
47%	67%	36%
61%	102%	52%
57%	96%	50%

In typical year -
Saturdays = 52 + ~5 = 57 (16%)
Sundays = 52+12 = 69 (19%)
Weekdays 365 -(57+69) = 239 (65%)

Pollutant Factor	Emissions in tons per day for entire county					
ROG	2000	2003	2005	2010	2015	2020
Exhaust	9.34	5.29	3.56	3.10	0.08	0.06
RunLoss	3.92	3.22	2.73	2.55	0.06	0.05
Start	12.53	7.25	4.45	3.23	0.41	0.28
HotSoak	4.02	2.94	2.29	2.08	0.21	0.18
NOx						
Exhaust	38.66	32.30	30.35	30.82	0.66	0.63
Start	10.80	9.58	9.06	9.20	0.83	0.79
CO						
Exhaust	175.24	149.02	135.065	137.02	2.94	2.79
Start	139.64	95.09	69.43	61.19	6.34	5.24
PM10						
Exhaust	1.48	1.49	1.56	1.67	0.44	0.44

Conversion Factors
pounds to tons = /2000
grams to pounds = *454

Note:
County-wide mobile source emissions in tons per day were converted to unit emission factors (in grams per mile or grams per day) using county-wide vehicle activity (i.e., daily vehicle miles traveled and daily vehicle starts).

NASA AMES DEVELOPMENT PLAN

Development of Construction Emission Factors

Alternative 5 with Additional Housing Mitigation

Development Data and Emission Factors for Construction of Land Use Types

Associated with the NASA/AMES Research Park Plan - Conformity Analysis.

Land Use Type		Emission Factors				Units
		ROG	CO	NOx	PM10	
Dormitory/Housing		22.0	70.2	322.9	22.93	lbs/1000 ft ²
Hotel		41.6	132.9	611.0	43.4	lbs/1000 ft ²
Museum/Exhibit Space		41.6	132.9	611.0	43.4	lbs/1000 ft ²
Office Park		55.4	177.2	814.7	57.9	lbs/1000 ft ²
Research & Development		55.4	177.2	814.7	57.9	lbs/1000 ft ²
Retail		31.8	101.6	467.0	33.2	lbs/1000 ft ²
University		47.0	150.2	690.5	49.0	lbs/1000 ft ²

Yearly Adjustment Factors

Year	ROG	CO	NOx	PM
1990	1.08	1.08	1.08	1.08
1995	0.90	0.83	0.89	0.84
2000	0.72	0.59	0.72	0.60
2005	0.57	0.47	0.60	0.50
2010	0.40	0.43	0.46	0.39
2015	0.29	0.40	0.35	0.29
2020	0.24	0.39	0.30	0.24

Total Emissions in Tons Throughout Construction

Period

Use	Size	Units	ROG	NOx	CO	PM10
NRP Area:						
Educational Uses	968	ksf	23	334	73	24
Computer Museum	120	ksf	2	37	8	3
CASC	500	ksf	14	204	44	14
Coference Center & Gym	275	ksf	6	84	18	6
Housing (290 810 @ 800 1000f ² un	648	ksf	7	105	23	7
Office High Density R&D	401	ksf	11	163	36	12
Retail and Support	77	ksf	1	18	4	1
Ames Campus Area						
Office High Density R&D	500	ksf	14	204	44	14
Eastside Airfield Area						
Control Tower	12	ksf	0	5	1	0
Bay View Area						
Housing (750 1120 1200f ² units)	1344	ksf	15	217	47	15
Retail and Support	100	ksf	2	23	5	2
Total Uncontrolled	4945		95	1393	303	99

Adjust for New 1990 Factors		102	1505	327	107
Adjust for future years	2002	63	934	164	53
	2005	54	836	142	47
	2010	38	641	130	43
	2015	27	488	121	40
	2020	23	418	118	39

ksf = 1000 square feet

Annual Emission Factor (tons per 1000 square foot) Assuming 10-year Build Out			
ROG	NOx	CO	PM10
0.0127	0.1888	0.0331	0.0108
0.0109	0.1691	0.0288	0.0094
0.0077	0.1296	0.0263	0.0086
0.0056	0.0986	0.0245	0.0080
0.0046	0.0845	0.0239	0.0078

A P P E N D I X H 3

INFRASTRUCTURE SPREADSHEETS

NASA AMES DEVELOPMENT PLAN - EIS
REVISED FROM APPENDIX C: INFRASTRUCTURE - SECTION 1

WATER ANALYSIS - TABLE 1.5
AVERAGE AND PEAK DOMESTIC WATER DEMAND - MITIGATED ALTERNATIVE 5
 Average Day Domestic Water Demand for Determining Required Emergency Storage
 Annual Water Demand and Peak Hour Domestic Water Demand for Determining Regional Impacts

TABLE 1.5		Standard Water Demands					Reduced Water Demands					Demand Reduction	
		Unit Water Demand	Average Day Water Demand (gpd)	Annual Water Demand (gallons)	Average Day Water Demand (gpm)	Peak Hour Water Demand (gpm)	Unit Water Demand	Average Day Water Demand (gpd)	Annual Water Demand (gallons)	Average Day Water Demand (gpm)	Peak Hour Water Demand (gpm)	Annual Water Demand Reduction (gallons)	Peak Hour Demand Reduction (gpm)
Development Area \ Description	Area												
LAB													
Office/High Density R&D	690,000 sf	0.10 gpd/sf	69,000	25,202,250	48	192	0.06 gpd/sf	41,400	15,121,350	29	115	10,080,900	77
Auditorium	30,000 sf	0.06 gpd/sf	1,800	657,450	1	5	0.04 gpd/sf	1,200	438,300	1	3	219,150	2
Subtotal - Lab	720,000 sf		70,800	25,859,700	49	197		42,600	15,559,650	30	118	10,300,050	78
NASA RESEARCH PARK													
Existing Buildings	54,355 sf	0.128 gpd/sf	6,937	2,533,797	5	19	0.128 gpd/sf	6,937	2,533,797	5	19	0	0
Office / R&D / University	1,374,895 sf	0.10 gpd/sf	137,490	50,218,040	95	382	0.06 gpd/sf	82,494	30,130,824	57	229	20,087,216	153
Museum / Conference Center	895,000 sf	0.05 gpd/sf	44,750	16,344,938	31	124	0.03 gpd/sf	26,850	9,806,963	19	75	6,537,975	50
Housing - see note 2 (1 unit/800 sf)	624,000 sf	200.00 gpd/unit	156,000	56,979,000	108	433	137.00 gpd/unit	106,860	39,030,615	74	297	17,948,385	137
Retail	77,000 sf	0.06 gpd/sf	4,620	1,687,455	3	13	0.04 gpd/sf	3,080	1,124,970	2	9	562,485	4
Subtotal - NRP	3,025,250 sf		349,797	127,763,229	243	972		226,221	82,627,168	157	628	45,136,061	343
Subtotal - Lab and NRP	3,745,250 sf		420,597	153,622,929	292	1168		268,821	98,186,818	187	747	55,436,111	422
BAY VIEW													
Child Care	0 sf	0.07 gpd/sf	0	0	0		0.04 gpd/sf	0	0	0		0	0
Retail	0 sf	0.06 gpd/sf	0	0	0		0.04 gpd/sf	0	0	0		0	0
Housing - see note 3 (1 unit/1,200 sf)	1,344,000 sf	250.00 gpd/unit	280,000	102,270,000	194	778	172.00 gpd/unit	192,640	70,361,760	134	535	31,908,240	243
Subtotal - Bay View	1,344,000 sf		280,000	102,270,000	194	778		192,640	70,361,760	134	535	31,908,240	243
EASTSIDE/AIRFIELD													
Existing Buildings	79,023 sf	0.128 gpd/sf	10,085	3,683,713	7	28	0.128 gpd/sf	10,085	3,683,713	7	28	0	0
Hangars 2 & 3	780,613 sf	0.02 gpd/sf	15,612	5,702,378	11	43	0.02 gpd/sf	15,612	5,702,378	11	43	0	0
Low Density R&D / Industrial	12,000 sf	0.10 gpd/sf	1,200	438,300	1	3	0.06 gpd/sf	720	262,980	1	2	175,320	1
Subtotal - EastSide/Airfield	871,636 sf		26,898	9,824,391	19	75		26,418	9,649,071	18	73	175,320	1
AMES CAMPUS													
Existing Buildings	2,889,658 sf	0.046 gpd/sf	132,536	48,408,762	92	368	0.046 gpd/sf	132,536	48,408,762	92	368	0	0
Office/High Density R&D	500,000 sf	0.10 gpd/sf	50,000	18,262,500	35	139	0.06 gpd/sf	30,000	10,957,500	21	83	7,305,000	56
Subtotal - Ames Campus	3,389,658 sf		182,536	66,671,262	127	507		162,536	59,366,262	113	451	7,305,000	56
Total Indoor Demand - EIS			910,030	332,388,582	632	2528		650,415	237,563,911	452	1807	94,824,671	721
Orion Park Military Housing	435 units	225.00 gpd/unit	97,875	35,748,844	68	272	225.00 gpd/unit	97,875	35,748,844	68	272	0	0
Berry Court Military Housing	110 units	225.00 gpd/unit	24,750	9,039,938	17	69	225.00 gpd/unit	24,750	9,039,938	17	69	0	0
California Air National Guard	42 acre	912 gpd/acre	38,295	13,987,218	27	106	912 gpd/acre	38,295	13,987,218	27	106	0	0
Total Indoor Demand - Non EIS			160,920	58,776,000	112	447		160,920	58,776,000	112	447	0	0
Total Indoor Demand - NASA ARC			1,070,950	391,164,582	744	2975		811,334	296,339,911	563	2254	94,824,671	721
IRRIGATION		Average Unit Demand gpd/acre			Peak Unit Demand gpm/acre		Average Unit Demand gpd/acre			Peak Unit Demand gpm/acre			
Not From Reclaimed													
Eastside/Airfield	10 acre	463 gpd/acre	4,630	1,691,108	2.72	27	463 gpd/acre	4,630	1,691,108	2.72	27		
Ames Campus	240 acre	463 gpd/acre	111,120	40,586,580	2.72	653	463 gpd/acre	111,120	40,586,580	2.72	653		
Total Irrigation Demand - EIS			115,750	42,277,688		680		115,750	42,277,688		680		
Orion Park Military Housing	79 acre	463 gpd/acre	36,577	13,359,749	2.72	215	463 gpd/acre	36,577	13,359,749	2.72	215		
Berry Court Military Housing	37 acre	463 gpd/acre	17,131	6,257,098	2.72	101	463 gpd/acre	17,131	6,257,098	2.72	101		
California Air National Guard	42 acre	463 gpd/acre	19,446	7,102,652	2.72	114	463 gpd/acre	19,446	7,102,652	2.72	114		
Total Irrigation Demand - Non EIS			73,154	26,719,499		430		73,154	26,719,499		430		
Total Irrigation Demand-NASA ARC			188,904	68,997,186		1110		188,904	68,997,186		1110		
Total Water Demand - EIS			1,025,780	374,666,270		3208		766,165	279,841,599		2487		
Total Water Demand - NASA ARC			1,259,854	460,161,768		4085		1,000,238	365,337,097		3363		

- Notes:
- (1) Peak hour demand is four times the average day demand.
 - (2) Housing in NRP consists of Student Apartments and Dormitories ranging from 150 to 800 sf. Demand is based on an equivalent average occupancy.
 - (3) Housing in Bay View consists of 1300 sf Townhomes and 1000 sf Apartments. Demand is based on an equivalent average occupancy.

NASA AMES DEVELOPMENT PLAN - EIS
REVISED FROM APPENDIX C: INFRASTRUCTURE - SECTION 3
SANITARY SEWER ANALYSIS

TABLE 3.5
PROPOSED FLOW TO SUNNYVALE METERING STATION - MITIGATED ALTERNATIVE 5
AVERAGE AND PEAK SANITARY SEWER FLOWS

Table 3.5 A - Peak Wet Weather Flow for Determining Required Capacity of Pipes Conveying Sewage to Treatment Plant
Based on Meter Records for the Sunnyvale Pump Station; Sewer Generation is based on August, September and October sewer flows.

TABLE 3.5 A			Average Dry Weather Sewer Flow (gpd)	Average Dry Weather Sewer Flow (gpm)	Peak Dry Weather Sewer Flow (gpm) (1)	Land Area (acre)	Peak Inflow and Infiltration (gpm) (2)	Peak Wet Weather Sewer Flow (gpm)
Development Area \ Description	Area	Unit Sewer Flow						
LAB								
Office/High Density R&D	690,000 sf	0.10 gpd/sf	69,000	48	120			
Auditorium	30,000 sf	0.05 gpd/sf	1,500	1	3			
Subtotal, Lab	720,000 sf		70,500	49	122	28	15	137
NASA RESEARCH PARK								
Existing Buildings	54,355 sf	0.13 gpd/sf	6,957	5	12			
CUP/EA Development in Shenandoah Plaza	105,000 sf	0.10 gpd/sf	10,500	7	18			
Office/High Density R&D								
Historic Infill	8,250 sf	0.10 gpd/sf	825	1	1			
Space Camp	70,000 sf	0.10 gpd/sf	7,000	5	12			
Other	223,645 sf	0.10 gpd/sf	22,365	16	39			
University Office	406,560 sf	0.10 gpd/sf	40,656	28	71			
University Classroom	561,440 sf	0.10 gpd/sf	56,144	39	97			
Museum (Computer)	120,000 sf	0.05 gpd/sf	6,000	4	10			
Museum (CASC)	500,000 sf	0.05 gpd/sf	25,000	17	43			
Conference Center	250,000 sf	0.05 gpd/sf	12,500	9	22			
Housing - see note 3 (1 unit/800 sf)	624,000 sf	150.00 gpd/unit	117,000	81	203			
Retail (University)	50,000 sf	0.10 gpd/sf	5,000	3	9			
Retail (Gateway & Historic Infill)	27,000 sf	0.10 gpd/sf	2,700	2	5			
Recreation (Conference Center)	25,000 sf	0.05 gpd/sf	1,250	1	2			
Area with Existing System						69	145	
Area with New System						102	53	
Subtotal, NRP	3,025,250 sf		313,897	218	545	171	198	743
Subtotal, Lab and NRP	3,745,250 sf		384,397	267	667	199	213	880
Southern & Eastern Portion of Ames	801,000 sf	0.05 gpd/sf	36,738	26	64	64	135	199
Berry Court Military Housing	110 units	225.00 gpd/unit	24,750	17	43	37	77	120
Subtotal to New SS Pump Station			445,885	310	774	300	425	1199
EASTSIDE/AIRFIELD								
Existing Buildings Excluding Hangars 2 & 3	79,023 sf	0.13 gpd/sf	10,115	7	18	17	36	
Hangars 2 & 3	780,613 sf	0.02 gpd/sf	15,612	11	27			
Control Tower	12,000 sf	0.08 gpd/sf	960	1	2			
Area with New System						5	3	
Subtotal, EastSide/Airfield	871,636 sf		26,687	19	46	22	39	85
California Air National Guard	42 acres	912 gpd/acre	38,295	27	66	42	87	154
Total to EX SS Pump Station			510,867	355	887	364	551	1438

Notes: (1) Peak Dry Weather = 2.5 x Average Dry Weather
(2) Peak I/I = 3,000 gpd/acre for existing systems. Peak I/I = 750 gpd/acre for new systems.
(3) Housing in NRP consists of Student Apartments and Dormitories ranging from 150 to 800 sf.
Demand is based on an equivalent average occupancy.

Table 3.5 B - Peak Wet Weather Flow for Determining Sewage Flowing to Treatment Plant
From Meter Readings and Calculations

TABLE 3.5 B	Average Dry Weather Sewer Flow (gpd) (1)	Land Area (acre)	Average Inflow and Infiltration (gpd/acre) (2)	Total Inflow and Infiltration (gpd)	Peak Wet Weather Sewer Flow (MGD)
Total Flow from Existing Development	116,856	229	1500	343,350	0.46
Total Flow from Proposed Development	378,400	135	750	101,250	0.48
Total to Sunnyvale Meter	495,255	364		444,600	0.94

Notes: (1) From Table 3.5 A
(2) Daily I/I = 1,500 gpd/acre for existing systems. Daily I/I = 750 gpd/acre for new systems.

The recommended mitigation for NASA Research Park is the installation of new sanitary sewer piping throughout the entire development area, including Shenandoah Plaza. This will reduce the inflow and infiltration into the system. However, for this study, we are assuming that inflow and infiltration will not be reduced in Shenandoah Plaza, in order to allow for the possibility that it could be the last area to develop. For the remainder of NASA Research Park, we have assumed that inflow and infiltration will only be reduced in the portion of the site that will be developed.

NASA AMES DEVELOPMENT PLAN - EIS
REVISED FROM APPENDIX C: INFRASTRUCTURE - SECTION 4
SANITARY SEWER ANALYSIS

TABLE 4.5
PROPOSED FLOW TO MOUNTAIN VIEW - MITIGATED ALTERNATIVE 5
AVERAGE AND PEAK SANITARY SEWER FLOWS

Table 4.5 A - Peak Wet Weather Flow for Determining Required Capacity of Pipes Conveying Sewage to Treatment Plant
 From Meter Readings and Calculations

TABLE 4.5 A			Average Dry Weather Sewer Flow (gpd)	Average Dry Weather Sewer Flow (gpm)	Peak Dry Weather Sewer Flow (gpm) (2)	Land Area (acre)	Peak Inflow and Infiltration (gpm) (3)	Peak Wet Weather Sewer Flow (gpm)
Development Area \ Description	Area	Unit Demand						
Ames Campus								
Existing Buildings	1,688,658 sf	(1)	100,000	69	174	176	370	543
Ex Buildings flowing to Sunnyvale	801,000 sf							
Office/High Density R&D	500,000 sf	0.10 gpd/sf	50,000	35	87			
Subtotal, Ames Campus	2,989,658 sf		150,000	69	174	176	370	543
BAY VIEW								
Housing - see note 4 (1 unit/1200 sf)	1,344,000 sf	180.00 gpd/sf	201,600	140	350			
Retail	sf	0.10 gpd/sf		0	0			
Child Care	sf	0.05 gpd/sf		0	0			
Subtotal, Proposed Bay View	1,344,000 sf		201,600	140	350	95	49	399
Subtotal, ARC & Proposed Bay View	4,333,658 sf		351,600	209	524	271	419	942
Orion Park Military Housing	435 units	225.00 gpd/unit	97,875	68	170	79	166	336
Total Leaving NASA ARC			449,475	277	694	350	585	1278

- Notes: (1) Assume existing Ames Campus flow from Table 4.7 is unchanged and flows from new development are added.
 (2) Peak Dry Weather = 2.5 x Average Dry Weather
 (3) Peak I/I = 3,000 gpd/acre for existing systems. Peak I/I = 750 gpd/acre for new systems.
 (4) Housing in Bay View consists of 1300 sf Townhomes and 1000 sf Apartments. Demand is based on an equivalent average occupancy.

Table 4.5 B - Peak Wet Weather Flow for Determining Sewage Flowing to Treatment Plant
 From Meter Readings and Calculations

TABLE 4.5 B	Average Dry Weather Sewer Flow (gpd) (1)	Land Area (acre) (1)	Average Inflow and Infiltration (gpd/acre) (2)	Total Inflow and Infiltration (gpd)	Peak Wet Weather Sewer Flow (MGD)
Total Flow from Existing Development	197,875	255	1500	382,500	0.58
Total Flow from Proposed Development	251,600	95	750	70,950	0.32
Total Leaving NASA ARC	449,475	350		453,450	0.90

- Notes: (1) From Table 4.5 A
 (2) Daily I/I = 1,500 gpd/acre for existing systems. Daily I/I = 750 gpd/acre for new systems.

NASA AMES DEVELOPMENT PLAN - EIS
REVISED FROM APPENDIX C: INFRASTRUCTURE - SECTION 6
GAS ANALYSIS
TABLE 6.5
NATURAL GAS DEMAND - MITIGATED ALTERNATIVE 5

TABLE 6.5		Unit Gas Demand (KThrms/sf)	Annual Gas Demand (KThrms)
Development Area \ Description	Area		
LAB			
Office/High Density R&D	590,000 sf	0.00067	395
Computer Lab	100,000 sf	0.00067	67
Auditorium	30,000 sf	0.00080	24
Subtotal - Lab	720,000 sf		486
NASA RESEARCH PARK			
Existing Buildings	54,355 sf	0.00065	35
CUP/EA Development in Shenandoah Plaza	105,000 sf	0.00067	70
Office/High Density R&D			
Historic Infill	8,250 sf	0.00067	6
Space Camp	70,000 sf	0.00067	47
Parcel 9 / Others	223,645 sf	0.00067	150
University Office	406,560 sf	0.00070	285
University Classroom	561,440 sf	0.00070	393
Museum (Computer)	120,000 sf	0.00080	96
Museum (CASC)	500,000 sf	0.00080	400
Conference Center	250,000 sf	0.00080	200
Recreation (Conference Center)	25,000 sf	0.00080	20
Housing - see note 1 (1 unit/800 sf)	624,000 sf	0.00080	499
Retail (University)	50,000 sf	0.00100	50
Retail (Gateway & Historic Infill)	27,000 sf	0.00100	27
Subtotal - NRP	3,025,250 sf		2,278
Subtotal - Lab and NRP	3,745,250 sf		2,764
BAY VIEW			
Child Care	0 sf	0.00095	0
Retail	0 sf	0.00100	0
Housing - see note 2 (1 unit/1,200 sf)	1,344,000 sf	0.00086	1,156
Subtotal - Bay View	1,344,000 sf		1,156
EAST SIDE/AIRFIELD			
Existing Buildings	79,023 sf	0.00065	51
Hangars 2 & 3 - Existing Use	780,613 sf	0.00030	234
Low Density R&D / Industrial	12,000 sf	0.00064	8
Subtotal - Eastside/Airfield	871,636 sf		293
AMES CAMPUS			
Existing Buildings	2,889,658 sf	0.00100	2,890
Office/High Density R&D	500,000 sf	0.00067	335
Subtotal - AMES CAMPUS	3,389,658 sf		3,225
Total - NASA Ames Research Center			7,438

Notes:

- (1) Housing in NRP consists of Student Apartments and Dormitories ranging from 150 to 800 sf.
- (2) Housing in Bay View consists of 1300 sf Townhomes and 1000 sf Apartments.
- (3) Demand is based on an equivalent average occupancy.