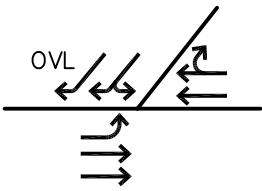
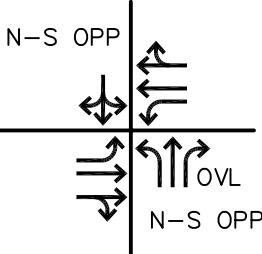
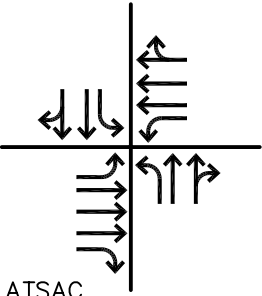
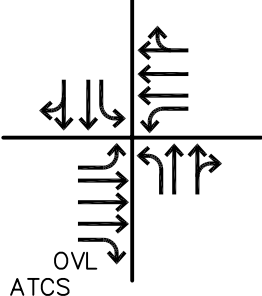
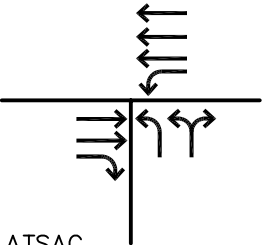
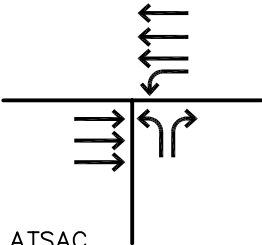
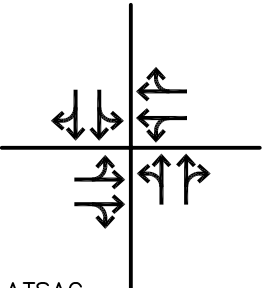
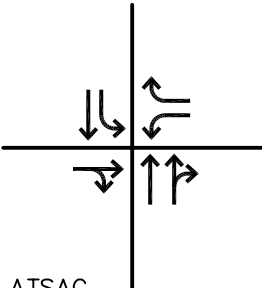


APPENDICES

APPENDIX A
EXISTING AND FUTURE PARKING SUPPLIES AND REQUIREMENTS

APPENDIX B
STUDY INTERSECTION GEOMETRIC AND
TRAFFIC CONTROL CONDITION DIAGRAMS

INTERSECTION	2001 EXISTING	2005 WITHOUT PROJECT	2005 WITH PROJECT
1. Sunset Blvd. & Beverly Glen Blvd.(E)	 <p>3ϕ, ATC</p>	SAME AS EXISTING	SAME AS EXISTING
2. Sunset Blvd. & Beverly Glen Blvd.(W)	 <p>4ϕ, ATC</p>	SAME AS EXISTING	SAME AS EXISTING
3. Wilshire Blvd. & Beverly Glen Blvd.	 <p>3ϕ, ATC</p>	 <p>4ϕ, ATC</p>	SAME AS WITHOUT PROJECT
4. Santa Monica Blvd.(N) & Overland Ave.	 <p>3ϕ, ATC</p>	 <p>3ϕ, ATC</p>	SAME AS WITHOUT PROJECT
5. Santa Monica Blvd.(S) & Overland Ave.	 <p>3ϕ, ATC</p>	 <p>3ϕ, ATC</p>	SAME AS WITHOUT PROJECT

LEGEND:

ST :STOP CONTROLLED
 OPP :OPPOSED PHASING
 OVL :OVERLAP

ATC : AUTOMATED TRAFFIC SURVEILLANCE AND CONTROL
 ATCS : ADAPTIVE TRAFFIC CONTROL SYSTEM

* FUNCTIONS AS A SEPARATE LANE, ALTHOUGH NOT STRIPED

FIGURE B-1

6/12/02

FN: ABC ENTERTAINMENT CTR-REVISED TURN-MOVEMENTS-1

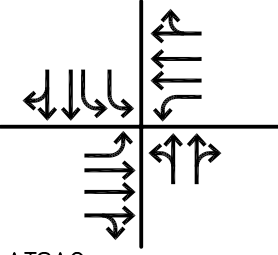
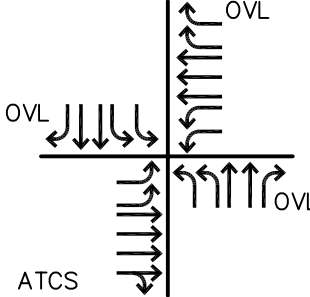
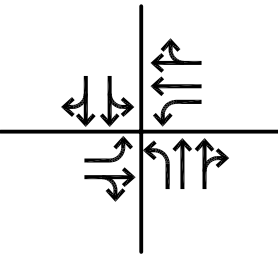
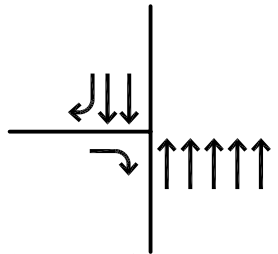
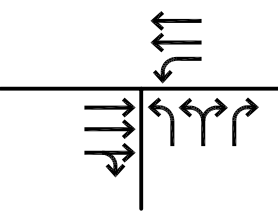
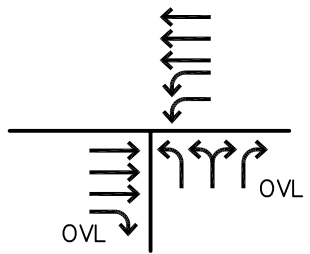
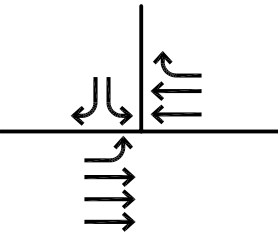
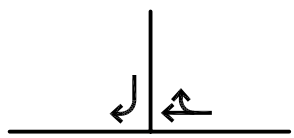
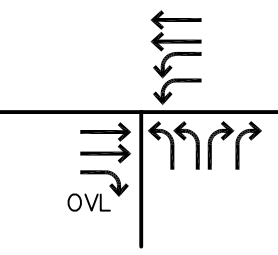
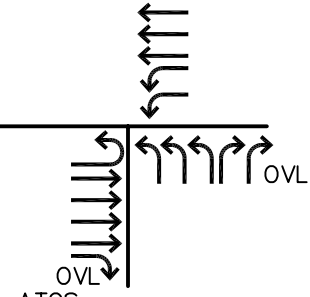
STUDY INTERSECTION
 GEOMETRIC AND TRAFFIC CONTROL CONDITIONS



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INTERSECTION	2001 EXISTING	2005 WITHOUT PROJECT	2005 WITH PROJECT
6. Santa Monica Blvd.(N) & Beverly Glen Blvd.	 3 ϕ , ATSAC	 4 ϕ , ATCS	SAME AS WITHOUT PROJECT
7. Santa Monica Blvd.(S) & Beverly Glen Blvd.	 3 ϕ , ATSAC	 ST (ASSUMED)	SAME AS WITHOUT PROJECT
8. Santa Monica Blvd.(S) & Century Park West	 3 ϕ , ATSAC	 3 ϕ , ATCS	SAME AS WITHOUT PROJECT
9. Santa Monica Blvd.(N) & Club View Dr.	 2 ϕ , ATSAC	 ST (ASSUMED)	SAME AS WITHOUT PROJECT
10. Santa Monica Blvd.(N) & Avenue of the Stars	 3 ϕ , ATSAC	 3 ϕ , ATCS	SAME AS WITHOUT PROJECT

LEGEND:

ST :STOP CONTROLLED
 OPP :OPPOSED PHASING
 OVL :OVERLAP

ATSAC :AUTOMATED TRAFFIC
 SURVEILLANCE AND CONTROL
 ATCS :ADAPTIVE TRAFFIC CONTROL SYSTEM

* FUNCTIONS AS A
 SEPARATE LANE,
 ALTHOUGH NOT STRIPED

FIGURE B-1

6/12/02

FN: ABC ENTERTAINMENT CTR-REVISEDTURN-MOVEMENTS-2

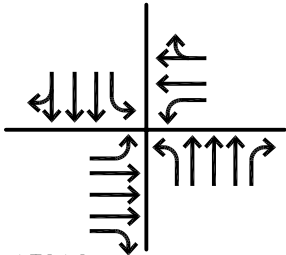
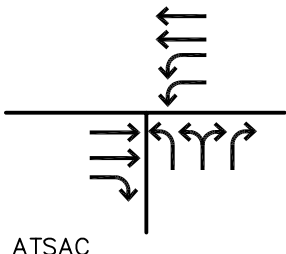
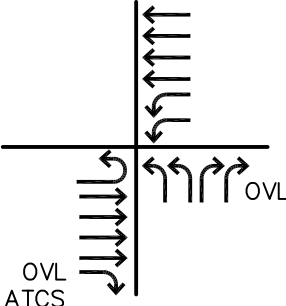
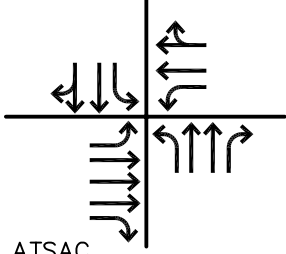
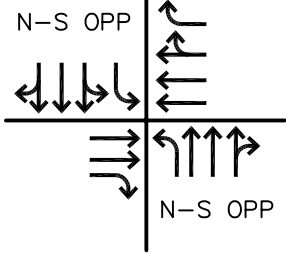
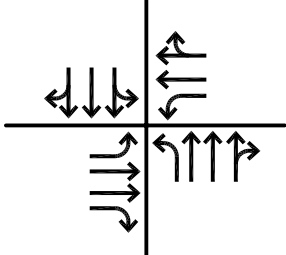
STUDY INTERSECTION
 GEOMETRIC AND TRAFFIC CONTROL CONDITIONS



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INTERSECTION	2001 EXISTING	2005 WITHOUT PROJECT	2005 WITH PROJECT
11. Santa Monica Blvd.(S) & Avenue of the Stars	 3ø, ATSAC	N/A	N/A
12. Santa Monica Blvd.(N) & Century Park East	 3ø, ATSAC	 3ø, ATCS	SAME AS WITHOUT PROJECT
13. Santa Monica Blvd.(S) & Century Park East	 3ø, ATSAC	N/A	N/A
14. Santa Monica Blvd.(N) & Wilshire Blvd.	 3ø	SAME AS EXISTING	SAME AS EXISTING
15. Santa Monica Blvd.(S) & Wilshire Blvd.	 3ø	SAME AS EXISTING	SAME AS EXISTING

LEGEND:

ST : STOP CONTROLLED
 OPP : OPPOSED PHASING
 OVL : OVERLAP

ATSAC : AUTOMATED TRAFFIC
 SURVEILLANCE AND CONTROL
 ATCS : ADAPTIVE TRAFFIC CONTROL SYSTEM

* FUNCTIONS AS A
 SEPARATE LANE,
 ALTHOUGH NOT STRIPED

FIGURE B-1

6/12/02

FN: ABC ENTERTAINMENT CTR-REVISED TURN-MOVEMENTS-3

STUDY INTERSECTION
 GEOMETRIC AND TRAFFIC CONTROL CONDITIONS



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INTERSECTION	2001 EXISTING	2005 WITHOUT PROJECT	2005 WITH PROJECT
16. Constellation Blvd. & Century Park West	<p>2ϕ, ATSAC</p>	<p>3ϕ, ATCS</p>	SAME AS WITHOUT PROJECT
17. Constellation Blvd. & Avenue of the Stars	<p>3ϕ, ATSAC</p>	<p>4ϕ, ATCS</p>	SAME AS WITHOUT PROJECT
18. Constellation Blvd. & Century Park East	<p>2ϕ, ATSAC</p>	<p>2ϕ, ATCS</p>	SAME AS WITHOUT PROJECT
19. Olympic Blvd. & Overland Ave.	<p>3ϕ, ATSAC</p>	<p>3ϕ, ATCS</p>	SAME AS WITHOUT PROJECT
20. Olympic Blvd. & Beverly Glen Blvd.	<p>3ϕ, ATSAC *</p>	<p>4ϕ, ATCS *</p>	SAME AS WITHOUT PROJECT

LEGEND:

ST : STOP CONTROLLED
 OPP : OPPOSED PHASING
 OVL : OVERLAP

ATSAC : AUTOMATED TRAFFIC SURVEILLANCE AND CONTROL
 ATCS : ADAPTIVE TRAFFIC CONTROL SYSTEM

* FUNCTIONS AS A SEPARATE LANE, ALTHOUGH NOT STRIPED

FIGURE B-1

6/21/02

FN: ABC ENTERTAINMENT CTR-REVISED TURN-MOVEMENTS-4

STUDY INTERSECTION
 GEOMETRIC AND TRAFFIC CONTROL CONDITIONS



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INTERSECTION	2001 EXISTING	2005 WITHOUT PROJECT	2005 WITH PROJECT
21. Olympic Blvd. & Century Park West	<p>3ϕ, ATCS</p>	<p>3ϕ, ATCS</p>	SAME AS WITHOUT PROJECT
22. Olympic Blvd. (WB Ramps) & Avenue of the Stars	<p>2ϕ, ATCS</p>	SAME AS EXISTING	SAME AS EXISTING
23. Olympic Blvd. (EB Ramps) & Avenue of the Stars	<p>3ϕ, ATCS</p>	SAME AS EXISTING	SAME AS EXISTING
24. Olympic Blvd. & Century Park East	<p>3ϕ, ATCS</p>	<p>3ϕ, ATCS</p>	SAME AS WITHOUT PROJECT
25. Olympic Blvd. & Spalding Dr.	<p>2ϕ</p>	SAME AS EXISTING	SAME AS EXISTING

LEGEND:

ST :STOP CONTROLLED
 OPP :OPPOSED PHASING
 OVL :OVERLAP

ATCSAC :AUTOMATED TRAFFIC SURVEILLANCE AND CONTROL
 ATCS :ADAPTIVE TRAFFIC CONTROL SYSTEM

* FUNCTIONS AS A SEPARATE LANE, ALTHOUGH NOT STRIPED

FIGURE B-1

6/12/02

FN: ABC ENTERTAINMENT CTR-REVISED TURN-MOVEMENTS-5

STUDY INTERSECTION
 GEOMETRIC AND TRAFFIC CONTROL CONDITIONS



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INTERSECTION	2001 EXISTING	2005 WITHOUT PROJECT	2005 WITH PROJECT
26. Galaxy Way & Avenue of the Stars	<p>2ø, ATSAC</p>	<p>3ø, ATCS</p>	SAME AS WITHOUT PROJECT
27. Empyrean Way & Avenue of the Stars	<p>ST</p>	SAME AS EXISTING	SAME AS EXISTING
28. Pico Blvd. & Overland Ave.	<p>4ø, ATSAC</p>	<p>4ø, ATCS</p>	SAME AS WITHOUT PROJECT
29. Pico Blvd. & Patricia Ave.	<p>3ø, ATSAC</p>	<p>3ø, ATCS</p>	SAME AS WITHOUT PROJECT
30. Pico Blvd. & Beverly Glen Blvd.	<p>2ø, ATSAC</p>	<p>2ø, ATCS</p>	SAME AS WITHOUT PROJECT

LEGEND:

ST : STOP CONTROLLED
 OPP : OPPOSED PHASING
 OVL : OVERLAP

ATSAC : AUTOMATED TRAFFIC SURVEILLANCE AND CONTROL
 ATCS : ADAPTIVE TRAFFIC CONTROL SYSTEM

* FUNCTIONS AS A SEPARATE LANE, ALTHOUGH NOT STRIPED

FIGURE B-1

6/12/02

FN: ABC ENTERTAINMENT CTR-REVISED/TURN-MOVEMENTS-6

STUDY INTERSECTION
 GEOMETRIC AND TRAFFIC CONTROL CONDITIONS



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INTERSECTION	2001 EXISTING	2005 WITHOUT PROJECT	2005 WITH PROJECT
31. Pico Blvd. & Motor Ave.	<p>4ϕ, ATCSAC</p>	<p>4ϕ, ATCS</p>	SAME AS WITHOUT PROJECT
32. Pico Blvd. & Avenue of the Stars	<p>3ϕ, ATCSAC</p>	<p>3ϕ, ATCS</p>	SAME AS WITHOUT PROJECT
33. Pico Blvd. & Century Park East	<p>3ϕ, ATCSAC</p>	<p>3ϕ, ATCS</p>	SAME AS WITHOUT PROJECT
34. Manning Ave. & Motor Ave.	<p>2ϕ, ATCSAC</p>	SAME AS EXISTING	SAME AS EXISTING
35. Santa Monica Blvd. & 405 Fwy. SB Ramps/ Beloit Ave.	<p>3ϕ, ATCSAC</p>	<p>3ϕ, ATCS</p>	SAME AS WITHOUT PROJECT

LEGEND:

ST : STOP CONTROLLED
 OPP : OPPOSED PHASING
 OVL : OVERLAP

ATCSAC : AUTOMATED TRAFFIC SURVEILLANCE AND CONTROL
 ATCS : ADAPTIVE TRAFFIC CONTROL SYSTEM

* FUNCTIONS AS A SEPARATE LANE, ALTHOUGH NOT STRIPED

FIGURE B-1

6/12/02

FN: ABC ENTERTAINMENT CTR-REVISED/TURN-MOVEMENTS-7

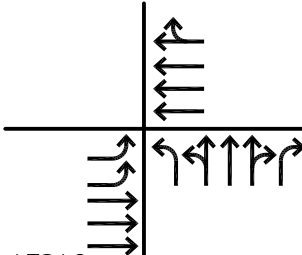
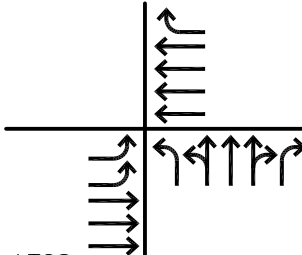
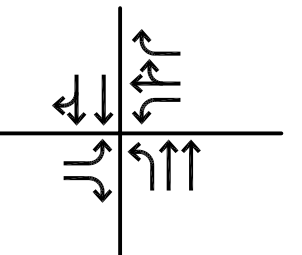
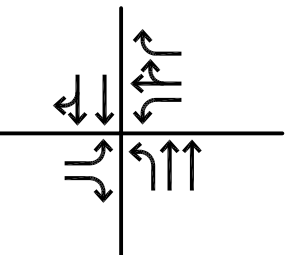
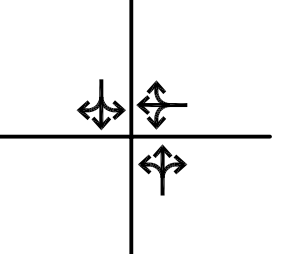
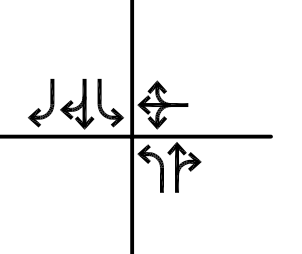
STUDY INTERSECTION
 GEOMETRIC AND TRAFFIC CONTROL CONDITIONS



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INTERSECTION	2001 EXISTING	2005 WITHOUT PROJECT	2005 WITH PROJECT
36. Santa Monica Blvd. & 405 Fwy. NB Ramps/ Cotner Ave.	 <p>3ϕ, ATCSAC</p>	 <p>3ϕ, ATCS</p>	SAME AS WITHOUT PROJECT
37. 405 SB Off-Ramp/ Tennessee Ave. & Sawtelle Blvd.	 <p>3ϕ, ATCSAC</p>	 <p>3ϕ, ATCS</p>	SAME AS WITHOUT PROJECT
38. 405 Fwy. NB On-Ramp/ Tennessee Ave. & Cotner Ave.	 <p>ST</p>	 <p>ST</p>	SAME AS WITHOUT PROJECT

LEGEND:

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 OPP :OPPOSED PHASING
 OVL :OVERLAP

ATCSAC :AUTOMATED TRAFFIC SURVEILLANCE AND CONTROL
 ATCS :ADAPTIVE TRAFFIC CONTROL SYSTEM

* FUNCTIONS AS A SEPARATE LANE, ALTHOUGH NOT STRIPED

FIGURE B-1

6/12/02

FN: ABC ENTERTAINMENT CTR-REVISED TURN-MOVEMENTS-8

APPENDIX C
PROJECT TRIP GENERATION FORMULAS AND RATES
PER CENTURY CITY NORTH SPECIFIC PLAN,
WEST LOS ANGELES TRANSPORTATION IMPROVEMENT AND MITIGATION
SPECIFIC PLAN, AND INSTITUTE OF TRANSPORTATION ENGINEERS

Table C-1
Trip Generation Formulas and Rates for
Various Project Trip Generation Calculation Methodologies

Century City North Specific Plan (CCNSP)

General Office Building (per 1,000 sf FAR Area)	Daily:	T = 14(A)
High-Turnover (Sit-Down) Restaurant (per 1,000 sf FAR Area)	Daily:	T = 45(A)
Quality Restaurant (per 1,000 sf FAR Area)	Daily:	T = 45(A)
Shopping Center (assumed for Retail use) (per 1,000 sf FAR Area)	Daily:	T = 35(A)
Library (assumed for Cultural use) (per 1,000 sf FAR Area)	Daily:	T = 35(A)
Multiplex Movie Theater (per 1,000 sf FAR Area)	Daily:	T = 35(A)
Live Theater (per 1,000 sf FAR Area)	Daily:	T = 35(A)
Health Club (per 1,000 sf FAR Area)	Daily:	T = 35(A)

Where: T = trip ends
FAR = Floor Area Ratio

West Los Angeles Transportation Improvement and Mitigation Specific Plan (WLA TIMP)

General Office Building (Proposed)	PM Pk Hr:	T = 1.09(A); I/B = 17%, O/B = 83%
General Office Building (Existing) (per 1,000 sf)	PM Pk Hr:	T = 1.38(A); I/B = 17%, O/B = 83%
High-Turnover (Sit-Down) Restaurant (per 1,000 sf)	PM Pk Hr:	T = 12.92(A); I/B = 60%, O/B = 40%
Quality Restaurant (per 1,000 sf)	PM Pk Hr:	T = 7.39(A); I/B = 67%, O/B = 33%
Shopping Center (assumed for Retail use) (per 1,000 sf)	PM Pk Hr:	T = 9.60(A); I/B = 48%, O/B = 52%
Library (assumed for Cultural use) (per 1,000 sf)	PM Pk Hr:	T = 7.09(A); I/B = 48%, O/B = 52%
Multiplex Movie Theater (per seat)	PM Pk Hr:	T = 0.15(S); I/B = 60%, O/B = 40%
Live Theater (per seat)	PM Pk Hr:	T = 0.02(S); I/B = 50%, O/B = 50%
Health Club (per 1,000 sf)	PM Pk Hr:	T = 4.30(A); I/B = 61%, O/B = 39%

Where: T = trip ends
A = area in gross sf
S = seat
O/B = outbound
I/B = inbound

Table C-1
Trip Generation Formulas and Rates for
Various Project Trip Generation Calculation Methodologies

Standard LADOT Methodology [Institute of Transportation Engineers (ITE)]

General Office Building (per 1,000 sf)	Daily: $\text{Ln}(T) = 0.768 \text{Ln}(A) + 3.654$ AM Pk Hr: $\text{Ln}(T) = 0.797 \text{Ln}(A) + 1.558$; I/B = 88%, O/B = 12%
High-Turnover (Sit-Down) Restaurant (per 1,000 sf)	Daily: $T = 130.34(A)$ AM Pk Hr: $T = 9.27(A)$; I/B = 52%, O/B = 48%
Quality Restaurant (per 1,000 sf)	Daily: $T = 89.95(A)$ AM Pk Hr: $T = 0.81(A)$; I/B = 82%, O/B = 18%
Shopping Center (assumed for Retail use) (per 1,000 sf)	Daily: $T = 42.92(A)$ AM Pk Hr: $T = 1.03(A)$; I/B = 61%, O/B = 39%
Library (assumed for Cultural use) (per 1,000 sf)	Daily: $T = 54.00(A)$ AM Pk Hr: $T = 1.06(A)$; I/B = 72%, O/B = 28%
Multiplex Movie Theater (per seat)	Daily: $T = 1.80(S)$ AM Pk Hr: $T = 0.01(S)$; I/B = 100%, O/B = 0%
Live Theater (per seat)	Daily: $T = 1.13(S)$ (estimated) AM Pk Hr: $T = 0.01(S)$ (estimated); I/B = 100%, O/B = 0%
Health Club (per 1,000 sf)	Daily: $T = 30.00(A)$ AM Pk Hr: $T = 0.30(A)$; I/B = 46%, O/B = 54%

Where: T = trip ends O/B = outbound
 A = area in gross sf I/B = inbound
 S = seat

APPENDIX D
RELATED PROJECTS TRIP GENERATION FORMULAS AND RATES

Table D-1
Related Projects Trip Generation Formulas and Rates

Apartment (per dwelling unit)

Daily: T = 6.63 (D)
 AM Peak Hour: T = 0.51 (D); I/B = 16%, O/B = 84%
 PM Peak Hour*: T = 0.49 (D); I/B = 67%, O/B = 33%

Condominium (per dwelling unit)

Daily: T = 5.86 (D)
 AM Peak Hour: T = 0.44 (D); I/B = 17%, O/B = 83%
 PM Peak Hour: T = 0.54 (D); I/B = 67%, O/B = 33%
 PM Peak Hour*: T = 0.55 (D; I/B = 67%, O/B = 33% (Rel. Proj. No. 5)

Gas Station with Convenience Market (per fueling position)

Daily: T = 162.78 (P)
 AM Peak Hour: T = 10.06 (P); I/B = 50%, O/B = 50%
 PM Peak Hour*: T = 17.45 (P); I/B = 50%, O/B = 50%

High-Turnover (Sit-Down) Restaurant (per 1,000 sf)

Daily: T = 130.34 (A)
 AM Peak Hour: T = 9.27 (A); I/B = 52%, O/B = 48%
 PM Peak Hour*: T = 12.92 (A); I/B = 60%, O/B = 40%

Hotel (per room)

Daily: T = 8.92 (R)
 AM Peak Hour: T = 0.67 (R); I/B = 58%, O/B = 42%
 PM Peak Hour: T = 0.71 (R); I/B = 49%, O/B = 51%

Medical Office (per 1,000 sf)

Daily: T = 40.892 (A) - 214.970
 AM Peak Hour: T = 2.43 (A); I/B = 80%, O/B = 20%
 PM Peak Hour: $\ln(T) = 0.921 \ln(A) + 1.476$; I/B = 27%, O/B = 73%

Movie Theater with Matinee (per seat)

Daily**: T = 1.8 (S)
 AM Peak Hour**: T = 0.01 (S); I/B = 100%, O/B = 0%
 PM Peak Hour*: T = 0.15 (S); I/B = 52%, O/B = 48%

Table D-1 (cont.)
Related Projects Trip Generation Formulas and Rates

Office (per 1,000 sf)

Daily:	$\text{Ln}(T) = 0.768 \text{Ln}(A) + 3.654$
AM Peak Hour:	$\text{Ln}(T) = 0.797 \text{Ln}(A) + 1.558$; I/B = 88%, O/B = 12%
PM Peak Hour:	$T = 1.121 (A) + 79.295$; I/B = 17%, O/B = 83%
PM Peak Hour*:	$T = 2.01 (A)$; I/B = 17%, O/B = 83% (Rel. Proj. No. 7) $T = 1.22 (A)$; I/B = 17%, O/B = 83% (Rel. Proj. No. 11)

Private School (per 1,000 sf)

Daily ^[1] :	$T = 18.08 (A)$
AM Peak Hour:	$T = 3.54 (A)$; I/B = 63%, O/B = 37%
PM Peak Hour:	$T = 5.50 (A)$; I/B = 28%, O/B = 72%

Supermarket (per 1,000 sf)

Daily:	$T = 111.51 (A)$
AM Peak Hour:	$T = 3.25 (A)$; I/B = 61%, O/B = 39%
PM Peak Hour*:	$T = 10.34 (A)$; I/B = 51%, O/B = 49%

Shopping Center (per 1,000 sf)

Daily:	$\text{Ln}(T) = 0.643 \text{Ln}(A) + 5.866$
AM Peak Hour:	$\text{Ln}(T) = 0.596 \text{Ln}(A) + 2.329$; I/B = 61%, O/B = 39%
PM Peak Hour:	$\text{Ln}(T) = 0.660 \text{Ln}(A) + 3.403$; I/B = 48%, O/B = 52%
PM Peak Hour*:	$T = 7.43 (A)$; I/B = 48%, O/B = 52% (Rel. Proj. No. 10)

Retirement Community (per dwelling unit)

Daily ^[2] :	$T = 3.48 (D)$
AM Peak Hour:	$T = 0.170 (D) - 0.355$; I/B = 45%, O/B = 55%
PM Peak Hour:	$T = 0.307 (D) - 9.806$; I/B = 56%, O/B = 44%

Specialty Retail (per 1,000 sf)

Daily:	$T = 40.67 (A)$
AM Peak Hour **:	$T = 1.2201 (A)$; I/B = 60%, O/B = 40%
PM Peak Hour:	$T = 2.59 (A)$; I/B = 43%, O/B = 57%
PM Peak Hour*:	$T = 5.00 (A)$; I/B = 43%, O/B = 57% (Rel. Proj. No. 4)

Where:

T = trip ends	A = building area in 1,000's of square feet
I/B = inbound	D = dwelling unit P = fueling position
O/B = outbound	R = room S = seat

Notes:

- [1] Rate estimated by using multiplier of 2 after adding AM and PM peak hour rates.
- [2] Retirement Community daily rate not available; Elderly Housing-Attached daily rate used.

Sources:

- Trip Generation, 6th Edition, Institute of Transportation Engineers, 1997.
- * West Los Angeles Transportation Improvement and Mitigation Specific Plan
- ** San Diego Traffic Generators, San Diego Association of Governments, 1998.

APPENDIX E
TRAFFIC COUNT SHEETS

APPENDIX F

CRITICAL MOVEMENT ANALYSIS (CMA) CALCULATION WORKSHEETS

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION:1, SUNSET BOULEVARD & BEVERLY GLEN BOULEVARD (E)
DATE: 6/13/2002 INITIALS: CT PERIOD: AM PEAK HOUR
CASE: EXISTING (2001)

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	0	1389	40	0
EASTBOUND	314	1294	0	0
NORTHBOUND	0	0	0	0
SOUTHBOUND	129	0	561	314

** NUMBER OF LANES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R		TOTAL LANES
	ONLY	SHARED		SHARED	ONLY	SHARED	SHARED	
WESTBOUND	0	0	1	1	0	0	0	2
EASTBOUND	1	0	2	0	0	0	0	3
NORTHBOUND	0	0	0	0	0	0	0	0
SOUTHBOUND	0	0	0	0	1	1	1	2

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R	
	ONLY	SHARED		SHARED	ONLY	SHARED	SHARED
WESTBOUND	N/A	N/A	714	714	N/A	N/A	N/A
EASTBOUND	314	N/A	647	N/A	N/A	N/A	N/A
NORTHBOUND	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SOUTHBOUND	N/A	N/A	N/A	N/A	345	345	345

EAST-WEST CRITICAL VOLUMES 1028
 NORTH-SOUTH CRITICAL VOLUMES 345

 THE SUM OF CRITICAL VOLUMES 1373

 NUMBER OF CRITICAL CLEARANCE INTERVALS 3

 CMA VALUE 0.894

 LEVEL OF SERVICE D

 * Includes CMA value decreased due to ATSAC Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION:1, SUNSET BOULEVARD & BEVERLY GLEN BOULEVARD (E)
DATE: 6/13/2002 INITIALS: CT PERIOD: AM PEAK HOUR
CASE: FUTURE (2005) WITHOUT PROJECT

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	0	1505	43	0
EASTBOUND	389	1390	0	0
NORTHBOUND	0	0	0	0
SOUTHBOUND	137	0	696	389

** NUMBER OF LANES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R		TOTAL LANES
	ONLY	SHARED		SHARED	ONLY	SHARED	SHARED	
WESTBOUND	0	0	1	1	0	0	0	2
EASTBOUND	1	0	2	0	0	0	0	3
NORTHBOUND	0	0	0	0	0	0	0	0
SOUTHBOUND	0	0	0	0	1	1	1	2

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R	
	ONLY	SHARED		SHARED	ONLY	SHARED	SHARED
WESTBOUND	N/A	N/A	774	774	N/A	N/A	N/A
EASTBOUND	389	N/A	695	N/A	N/A	N/A	N/A
NORTHBOUND	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SOUTHBOUND	N/A	N/A	N/A	N/A	416	416	416

EAST-WEST CRITICAL VOLUMES 1163
 NORTH-SOUTH CRITICAL VOLUMES 416

 THE SUM OF CRITICAL VOLUMES 1579

 NUMBER OF CRITICAL CLEARANCE INTERVALS 3

 CMA VALUE 1.038

 LEVEL OF SERVICE F

 * Includes CMA value decreased due to ATSAC Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION:1, SUNSET BOULEVARD & BEVERLY GLEN BOULEVARD (E)
DATE: 6/13/2002 INITIALS: CT PERIOD: AM PEAK HOUR
CASE: FUTURE (2005) WITH PROJECT

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	0	1505	43	0
EASTBOUND	378	1390	0	0
NORTHBOUND	0	0	0	0
SOUTHBOUND	137	0	713	378

** NUMBER OF LANES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R	TOTAL
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED	LANES
WESTBOUND	0	0	1	1	0	0	2
EASTBOUND	1	0	2	0	0	0	3
NORTHBOUND	0	0	0	0	0	0	0
SOUTHBOUND	0	0	0	0	1	1	2

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED
WESTBOUND	N/A	N/A	774	774	N/A	N/A
EASTBOUND	378	N/A	695	N/A	N/A	N/A
NORTHBOUND	N/A	N/A	N/A	N/A	N/A	N/A
SOUTHBOUND	N/A	N/A	N/A	N/A	425	425

EAST-WEST CRITICAL VOLUMES 1152
 NORTH-SOUTH CRITICAL VOLUMES 425

 THE SUM OF CRITICAL VOLUMES 1577

 NUMBER OF CRITICAL CLEARANCE INTERVALS 3

 CMA VALUE 1.037

 LEVEL OF SERVICE F

 * Includes CMA value decreased due to ATSAC Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION:1, SUNSET BOULEVARD & BEVERLY GLEN BOULEVARD (E)
DATE: 6/21/2002 INITIALS: CT PERIOD: AM PEAK HOUR
CASE: FUTURE (2005) WITH PROJECT PLUS MITIGATION

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	0	1505	43	0
EASTBOUND	378	1390	0	0
NORTHBOUND	0	0	0	0
SOUTHBOUND	137	0	711	378

** NUMBER OF LANES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R	TOTAL LANES
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED	
WESTBOUND	0	0	1	1	0	0	2
EASTBOUND	1	0	2	0	0	0	3
NORTHBOUND	0	0	0	0	0	0	0
SOUTHBOUND	0	0	0	0	1	1	2

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED
WESTBOUND	N/A	N/A	774	774	N/A	N/A
EASTBOUND	378	N/A	695	N/A	N/A	N/A
NORTHBOUND	N/A	N/A	N/A	N/A	N/A	N/A
SOUTHBOUND	N/A	N/A	N/A	N/A	424	424

EAST-WEST CRITICAL VOLUMES 1152
 NORTH-SOUTH CRITICAL VOLUMES 424

 THE SUM OF CRITICAL VOLUMES 1576

 NUMBER OF CRITICAL CLEARANCE INTERVALS 3

 CMA VALUE 1.036

 LEVEL OF SERVICE F

 * Includes CMA value decreased due to ATSAC Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION:1, SUNSET BOULEVARD & BEVERLY GLEN BOULEVARD (E)
DATE: 6/13/2002 INITIALS: CT PERIOD: PM PEAK HOUR
CASE: EXISTING (2001)

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	0	1039	84	0
EASTBOUND	821	1070	0	0
NORTHBOUND	0	0	0	0
SOUTHBOUND	175	0	0	447

** NUMBER OF LANES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R		TOTAL LANES
	ONLY	SHARED		SHARED	ONLY	SHARED	SHARED	
WESTBOUND	0	0	1	1	0	0	0	2
EASTBOUND	1	0	2	0	0	0	0	3
NORTHBOUND	0	0	0	0	0	0	0	0
SOUTHBOUND	0	0	0	0	1	1	1	2

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R	
	ONLY	SHARED		SHARED	ONLY	SHARED	SHARED
WESTBOUND	N/A	N/A	562	562	N/A	N/A	N/A
EASTBOUND	821	N/A	535	N/A	N/A	N/A	N/A
NORTHBOUND	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SOUTHBOUND	N/A	175	N/A	N/A	0	N/A	N/A

EAST-WEST CRITICAL VOLUMES 1383
 NORTH-SOUTH CRITICAL VOLUMES 175

 THE SUM OF CRITICAL VOLUMES 1558

 NUMBER OF CRITICAL CLEARANCE INTERVALS 3

 CMA VALUE 1.023

 LEVEL OF SERVICE F

 * Includes CMA value decreased due to ATSAC Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION:1, SUNSET BOULEVARD & BEVERLY GLEN BOULEVARD (E)
DATE: 6/13/2002 INITIALS: CT PERIOD: PM PEAK HOUR
CASE: FUTURE (2005) WITHOUT PROJECT

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	0	1127	89	0
EASTBOUND	1052	1169	0	0
NORTHBOUND	0	0	0	0
SOUTHBOUND	186	0	0	565

** NUMBER OF LANES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R	TOTAL
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED	LANES
WESTBOUND	0	0	1	1	0	0	2
EASTBOUND	1	0	2	0	0	0	3
NORTHBOUND	0	0	0	0	0	0	0
SOUTHBOUND	0	0	0	0	1	1	2

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED
WESTBOUND	N/A	N/A	608	608	N/A	N/A
EASTBOUND	1052	N/A	584	N/A	N/A	N/A
NORTHBOUND	N/A	N/A	N/A	N/A	N/A	N/A
SOUTHBOUND	N/A	186	N/A	N/A	0	N/A

EAST-WEST CRITICAL VOLUMES 1660
 NORTH-SOUTH CRITICAL VOLUMES 186

 THE SUM OF CRITICAL VOLUMES 1846

 NUMBER OF CRITICAL CLEARANCE INTERVALS 3

 CMA VALUE 1.225

 LEVEL OF SERVICE F

 * Includes CMA value decreased due to ATSAC Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION:1, SUNSET BOULEVARD & BEVERLY GLEN BOULEVARD (E)
DATE: 6/13/2002 INITIALS: CT PERIOD: PM PEAK HOUR
CASE: FUTURE (2005) WITH PROJECT

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	0	1127	89	0
EASTBOUND	1039	1169	0	0
NORTHBOUND	0	0	0	0
SOUTHBOUND	186	0	0	524

** NUMBER OF LANES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R		TOTAL LANES
	ONLY	SHARED		SHARED	ONLY	SHARED	SHARED	
WESTBOUND	0	0	1	1	0	0	0	2
EASTBOUND	1	0	2	0	0	0	0	3
NORTHBOUND	0	0	0	0	0	0	0	0
SOUTHBOUND	0	0	0	0	1	1	1	2

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R	
	ONLY	SHARED		SHARED	ONLY	SHARED	SHARED
WESTBOUND	N/A	N/A	608	608	N/A	N/A	N/A
EASTBOUND	1039	N/A	584	N/A	N/A	N/A	N/A
NORTHBOUND	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SOUTHBOUND	N/A	186	N/A	N/A	0	N/A	N/A

EAST-WEST CRITICAL VOLUMES 1647
 NORTH-SOUTH CRITICAL VOLUMES 186

 THE SUM OF CRITICAL VOLUMES 1833

 NUMBER OF CRITICAL CLEARANCE INTERVALS 3

 CMA VALUE 1.216

 LEVEL OF SERVICE F

 * Includes CMA value decreased due to ATSAC Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION:1, SUNSET BOULEVARD & BEVERLY GLEN BOULEVARD (E)
DATE: 6/21/2002 INITIALS: CT PERIOD: PM PEAK HOUR
CASE: FUTURE (2005) WITH PROJECT PLUS MITIGATION

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	0	1127	89	0
EASTBOUND	1037	1169	0	0
NORTHBOUND	0	0	0	0
SOUTHBOUND	186	0	0	524

** NUMBER OF LANES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R	TOTAL
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED	LANES
WESTBOUND	0	0	1	1	0	0	2
EASTBOUND	1	0	2	0	0	0	3
NORTHBOUND	0	0	0	0	0	0	0
SOUTHBOUND	0	0	0	0	1	1	2

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED
WESTBOUND	N/A	N/A	608	608	N/A	N/A
EASTBOUND	1037	N/A	584	N/A	N/A	N/A
NORTHBOUND	N/A	N/A	N/A	N/A	N/A	N/A
SOUTHBOUND	N/A	186	N/A	N/A	0	N/A

EAST-WEST CRITICAL VOLUMES 1645
 NORTH-SOUTH CRITICAL VOLUMES 186

 THE SUM OF CRITICAL VOLUMES 1831

 NUMBER OF CRITICAL CLEARANCE INTERVALS 3

 CMA VALUE 1.215

 LEVEL OF SERVICE F

 * Includes CMA value decreased due to ATSAC Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 2, SUNSET BOULEVARD & BEVERLY GLEN BOULEVARD (W)
DATE: 6/13/2002 INITIALS: CT PERIOD: AM PEAK HOUR
CASE: EXISTING (2001)

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	889	1262	78	0
EASTBOUND	12	1016	115	0
NORTHBOUND	86	90	0	483
SOUTHBOUND	90	89	8	0

** NUMBER OF LANES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R	TOTAL
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED	LANES
WESTBOUND	1	0	1	1	0	0	3
EASTBOUND	1	0	1	1	0	0	3
NORTHBOUND	1	0	1	0	1	0	3
SOUTHBOUND	0	0	0	0	0	1	1

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED
WESTBOUND	889	N/A	670	670	N/A	N/A
EASTBOUND	12	N/A	566	566	N/A	N/A
NORTHBOUND	86	N/A	90	N/A	0	N/A
SOUTHBOUND	N/A	N/A	N/A	N/A	N/A	187

EAST-WEST CRITICAL VOLUMES 1454
 NORTH-SOUTH CRITICAL VOLUMES 277

 THE SUM OF CRITICAL VOLUMES 1731

 NUMBER OF CRITICAL CLEARANCE INTERVALS 4*

 CMA VALUE 1.189

 LEVEL OF SERVICE F

 * Includes CMA value decreased due to ATSAC Implementation.

Northbound and Southbound approaches have opposed signal phases.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 2, SUNSET BOULEVARD & BEVERLY GLEN BOULEVARD (W)
DATE: 6/13/2002 INITIALS: CT PERIOD: AM PEAK HOUR
CASE: FUTURE (2005) WITHOUT PROJECT

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	1062	1414	83	0
EASTBOUND	13	1117	160	0
NORTHBOUND	101	96	0	543
SOUTHBOUND	96	94	9	0

** NUMBER OF LANES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R	TOTAL
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED	LANES
WESTBOUND	1	0	1	1	0	0	3
EASTBOUND	1	0	1	1	0	0	3
NORTHBOUND	1	0	1	0	1	0	3
SOUTHBOUND	0	0	0	0	0	1	1

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED
WESTBOUND	1062	N/A	748	748	N/A	N/A
EASTBOUND	13	N/A	638	638	N/A	N/A
NORTHBOUND	101	N/A	96	N/A	0	N/A
SOUTHBOUND	N/A	N/A	N/A	N/A	N/A	199

EAST-WEST CRITICAL VOLUMES 1700
 NORTH-SOUTH CRITICAL VOLUMES 300

 THE SUM OF CRITICAL VOLUMES 2000

 NUMBER OF CRITICAL CLEARANCE INTERVALS 4*

 CMA VALUE 1.385

 LEVEL OF SERVICE F

 * Includes CMA value decreased due to ATSAC Implementation.

Northbound and Southbound approaches have opposed signal phases.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 2, SUNSET BOULEVARD & BEVERLY GLEN BOULEVARD (W)
DATE: 6/13/2002 INITIALS: CT PERIOD: AM PEAK HOUR
CASE: FUTURE (2005) WITH PROJECT

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	1068	1414	83	0
EASTBOUND	13	1117	162	0
NORTHBOUND	97	96	0	532
SOUTHBOUND	96	94	10	0

** NUMBER OF LANES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R	TOTAL
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED	LANES
WESTBOUND	1	0	1	1	0	0	3
EASTBOUND	1	0	1	1	0	0	3
NORTHBOUND	1	0	1	0	1	0	3
SOUTHBOUND	0	0	0	0	0	1	1

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED
WESTBOUND	1068	N/A	748	748	N/A	N/A
EASTBOUND	13	N/A	640	640	N/A	N/A
NORTHBOUND	97	N/A	96	N/A	0	N/A
SOUTHBOUND	N/A	N/A	N/A	N/A	N/A	200

EAST-WEST CRITICAL VOLUMES 1708
 NORTH-SOUTH CRITICAL VOLUMES 297

 THE SUM OF CRITICAL VOLUMES 2005

 NUMBER OF CRITICAL CLEARANCE INTERVALS 4*

 CMA VALUE 1.388

 LEVEL OF SERVICE F

 * Includes CMA value decreased due to ATSAC Implementation.

Northbound and Southbound approaches have opposed signal phases.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 2, SUNSET BOULEVARD & BEVERLY GLEN BOULEVARD (W)
DATE: 6/21/2002 INITIALS: CT PERIOD: AM PEAK HOUR
CASE: FUTURE (2005) WITH PROJECT PLUS MITIGATION

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	1066	1414	83	0
EASTBOUND	13	1117	161	0
NORTHBOUND	97	96	0	532
SOUTHBOUND	96	94	10	0

** NUMBER OF LANES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R	TOTAL
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED	LANES
WESTBOUND	1	0	1	1	0	0	3
EASTBOUND	1	0	1	1	0	0	3
NORTHBOUND	1	0	1	0	1	0	3
SOUTHBOUND	0	0	0	0	0	1	1

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED
WESTBOUND	1066	N/A	748	748	N/A	N/A
EASTBOUND	13	N/A	639	639	N/A	N/A
NORTHBOUND	97	N/A	96	N/A	0	N/A
SOUTHBOUND	N/A	N/A	N/A	N/A	N/A	200

EAST-WEST CRITICAL VOLUMES 1704
 NORTH-SOUTH CRITICAL VOLUMES 297

 THE SUM OF CRITICAL VOLUMES 2001

 NUMBER OF CRITICAL CLEARANCE INTERVALS 4*

 CMA VALUE 1.385

 LEVEL OF SERVICE F

 * Includes CMA value decreased due to ATSAC Implementation.

Northbound and Southbound approaches have opposed signal phases.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 2, SUNSET BOULEVARD & BEVERLY GLEN BOULEVARD (W)
DATE: 6/13/2002 INITIALS: CT PERIOD: PM PEAK HOUR
CASE: EXISTING (2001)

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	284	964	84	0
EASTBOUND	19	1501	132	0
NORTHBOUND	178	207	202	284
SOUTHBOUND	19	86	144	0

** NUMBER OF LANES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R		TOTAL LANES
	ONLY	SHARED		SHARED	ONLY	SHARED	SHARED	
WESTBOUND	1	0	1	1	0	0	0	3
EASTBOUND	1	0	1	1	0	0	0	3
NORTHBOUND	1	0	1	0	1	0	0	3
SOUTHBOUND	0	0	0	0	0	1	1	1

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R	
	ONLY	SHARED		SHARED	ONLY	SHARED	SHARED
WESTBOUND	284	N/A	524	524	N/A	N/A	N/A
EASTBOUND	19	N/A	816	816	N/A	N/A	N/A
NORTHBOUND	178	N/A	207	N/A	202	N/A	N/A
SOUTHBOUND	N/A	N/A	N/A	N/A	N/A	N/A	249

EAST-WEST CRITICAL VOLUMES 1100
 NORTH-SOUTH CRITICAL VOLUMES 456

 THE SUM OF CRITICAL VOLUMES 1556

 NUMBER OF CRITICAL CLEARANCE INTERVALS 4*

 CMA VALUE 1.062

 LEVEL OF SERVICE F

 * Includes CMA value decreased due to ATSAC Implementation.

Northbound and Southbound approaches have opposed signal phases.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 2, SUNSET BOULEVARD & BEVERLY GLEN BOULEVARD (W)
DATE: 6/13/2002 INITIALS: CT PERIOD: PM PEAK HOUR
CASE: FUTURE (2005) WITHOUT PROJECT

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	367	1081	89	0
EASTBOUND	20	1658	163	0
NORTHBOUND	236	220	292	367
SOUTHBOUND	20	91	155	0

** NUMBER OF LANES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R	TOTAL
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED	LANES
WESTBOUND	1	0	1	1	0	0	3
EASTBOUND	1	0	1	1	0	0	3
NORTHBOUND	1	0	1	0	1	0	3
SOUTHBOUND	0	0	0	0	0	1	1

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED
WESTBOUND	367	N/A	585	585	N/A	N/A
EASTBOUND	20	N/A	910	910	N/A	N/A
NORTHBOUND	236	N/A	220	N/A	292	N/A
SOUTHBOUND	N/A	N/A	N/A	N/A	N/A	266

EAST-WEST CRITICAL VOLUMES 1276
 NORTH-SOUTH CRITICAL VOLUMES 558

 THE SUM OF CRITICAL VOLUMES 1834

 NUMBER OF CRITICAL CLEARANCE INTERVALS 4*

 CMA VALUE 1.264

 LEVEL OF SERVICE F

 * Includes CMA value decreased due to ATSAC Implementation.

Northbound and Southbound approaches have opposed signal phases.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 2, SUNSET BOULEVARD & BEVERLY GLEN BOULEVARD (W)
DATE: 6/13/2002 INITIALS: CT PERIOD: PM PEAK HOUR
CASE: FUTURE (2005) WITH PROJECT

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	326	1081	89	0
EASTBOUND	20	1658	149	0
NORTHBOUND	232	220	320	326
SOUTHBOUND	20	91	155	0

** NUMBER OF LANES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R		TOTAL LANES
	ONLY	SHARED		ONLY	SHARED	ONLY	SHARED	
WESTBOUND	1	0	1	1	0	0	0	3
EASTBOUND	1	0	1	1	0	0	0	3
NORTHBOUND	1	0	1	0	1	0	0	3
SOUTHBOUND	0	0	0	0	0	1	1	1

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT ONLY	LEFT SHARED	THROUGH ONLY	RIGHT SHARED	RIGHT ONLY	L/T/R SHARED
	WESTBOUND	326	N/A	585	585	N/A
EASTBOUND	20	N/A	904	904	N/A	N/A
NORTHBOUND	232	N/A	220	N/A	320	N/A
SOUTHBOUND	N/A	N/A	N/A	N/A	N/A	266

EAST-WEST CRITICAL VOLUMES 1230
 NORTH-SOUTH CRITICAL VOLUMES 586

 THE SUM OF CRITICAL VOLUMES 1816

 NUMBER OF CRITICAL CLEARANCE INTERVALS 4*

 CMA VALUE 1.251

 LEVEL OF SERVICE F

 * Includes CMA value decreased due to ATSAC Implementation.

Northbound and Southbound approaches have opposed signal phases.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 2, SUNSET BOULEVARD & BEVERLY GLEN BOULEVARD (W)
 DATE: 6/21/2002 INITIALS: CT PERIOD: PM PEAK HOUR
 CASE: FUTURE (2005) WITH PROJECT PLUS MITIGATION

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	326	1081	89	0
EASTBOUND	20	1658	149	0
NORTHBOUND	231	220	318	326
SOUTHBOUND	20	91	155	0

** NUMBER OF LANES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R	TOTAL
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED	LANES
WESTBOUND	1	0	1	1	0	0	3
EASTBOUND	1	0	1	1	0	0	3
NORTHBOUND	1	0	1	0	1	0	3
SOUTHBOUND	0	0	0	0	0	1	1

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED
WESTBOUND	326	N/A	585	585	N/A	N/A
EASTBOUND	20	N/A	904	904	N/A	N/A
NORTHBOUND	231	N/A	220	N/A	318	N/A
SOUTHBOUND	N/A	N/A	N/A	N/A	N/A	266

EAST-WEST CRITICAL VOLUMES 1230
 NORTH-SOUTH CRITICAL VOLUMES 584

 THE SUM OF CRITICAL VOLUMES 1814

 NUMBER OF CRITICAL CLEARANCE INTERVALS 4*

 CMA VALUE 1.249

 LEVEL OF SERVICE F

 * Includes CMA value decreased due to ATSAC Implementation.

Northbound and Southbound approaches have opposed signal phases.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 3, WILSHIRE BOULEVARD & BEVERLY GLEN BOULEVARD
 DATE: 6/13/2002 INITIALS: CT PERIOD: AM PEAK HOUR
 CASE: EXISTING (2001)

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	100	2205	50	0
EASTBOUND	104	1851	248	46
NORTHBOUND	91	498	117	0
SOUTHBOUND	70	669	112	0

** NUMBER OF LANES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R	TOTAL LANES
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED	
WESTBOUND	1	0	2	1	0	0	4
EASTBOUND	1	0	3	0	1	0	5
NORTHBOUND	1	0	1	1	0	0	3
SOUTHBOUND	1	0	1	1	0	0	3

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED
WESTBOUND	100	N/A	752	752	N/A	N/A
EASTBOUND	104	N/A	617	N/A	248	N/A
NORTHBOUND	91	N/A	308	308	N/A	N/A
SOUTHBOUND	70	N/A	390	390	N/A	N/A

EAST-WEST CRITICAL VOLUMES 856
 NORTH-SOUTH CRITICAL VOLUMES 481

 THE SUM OF CRITICAL VOLUMES 1337

 NUMBER OF CRITICAL CLEARANCE INTERVALS 3

 CMA VALUE 0.868

 LEVEL OF SERVICE D

 * Includes CMA value decreased due to ATSAC Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 3, WILSHIRE BOULEVARD & BEVERLY GLEN BOULEVARD
 DATE: 6/13/2002 INITIALS: CT PERIOD: AM PEAK HOUR
 CASE: FUTURE (2005) WITHOUT PROJECT

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	106	2365	68	0
EASTBOUND	110	2113	259	105
NORTHBOUND	105	585	124	0
SOUTHBOUND	131	937	119	0

** NUMBER OF LANES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R	TOTAL LANES
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED	
WESTBOUND	1	0	2	1	0	0	4
EASTBOUND	1	0	3	0	1	0	5
NORTHBOUND	1	0	1	1	0	0	3
SOUTHBOUND	1	0	1	1	0	0	3

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED
WESTBOUND	106	N/A	811	811	N/A	N/A
EASTBOUND	110	N/A	704	N/A	259	N/A
NORTHBOUND	105	N/A	354	354	N/A	N/A
SOUTHBOUND	131	N/A	528	528	N/A	N/A

EAST-WEST CRITICAL VOLUMES 921
 NORTH-SOUTH CRITICAL VOLUMES 633

 THE SUM OF CRITICAL VOLUMES 1554

 NUMBER OF CRITICAL CLEARANCE INTERVALS 4

 CMA VALUE 1.030

 LEVEL OF SERVICE F

 * Includes CMA value decreased due to ATCS Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 3, WILSHIRE BOULEVARD & BEVERLY GLEN BOULEVARD
 DATE: 6/13/2002 INITIALS: CT PERIOD: AM PEAK HOUR
 CASE: FUTURE (2005) WITH PROJECT

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	106	2365	68	0
EASTBOUND	110	2113	265	101
NORTHBOUND	101	571	124	0
SOUTHBOUND	131	945	119	0

** NUMBER OF LANES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R	TOTAL LANES
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED	
WESTBOUND	1	0	2	1	0	0	4
EASTBOUND	1	0	3	0	1	0	5
NORTHBOUND	1	0	1	1	0	0	3
SOUTHBOUND	1	0	1	1	0	0	3

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED
WESTBOUND	106	N/A	811	811	N/A	N/A
EASTBOUND	110	N/A	704	N/A	265	N/A
NORTHBOUND	101	N/A	348	348	N/A	N/A
SOUTHBOUND	131	N/A	532	532	N/A	N/A

EAST-WEST CRITICAL VOLUMES 921
 NORTH-SOUTH CRITICAL VOLUMES 633

 THE SUM OF CRITICAL VOLUMES 1554

 NUMBER OF CRITICAL CLEARANCE INTERVALS 4

 CMA VALUE 1.030

 LEVEL OF SERVICE F

 * Includes CMA value decreased due to ATCS Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 3, WILSHIRE BOULEVARD & BEVERLY GLEN BOULEVARD
 DATE: 6/21/2002 INITIALS: CT PERIOD: AM PEAK HOUR
 CASE: FUTURE (2005) WITH PROJECT PLUS MITIGATION

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	106	2365	68	0
EASTBOUND	110	2113	264	101
NORTHBOUND	101	570	124	0
SOUTHBOUND	131	942	119	0

** NUMBER OF LANES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R	TOTAL
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED	LANES
WESTBOUND	1	0	2	1	0	0	4
EASTBOUND	1	0	3	0	1	0	5
NORTHBOUND	1	0	1	1	0	0	3
SOUTHBOUND	1	0	1	1	0	0	3

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED
WESTBOUND	106	N/A	811	811	N/A	N/A
EASTBOUND	110	N/A	704	N/A	264	N/A
NORTHBOUND	101	N/A	347	347	N/A	N/A
SOUTHBOUND	131	N/A	530	530	N/A	N/A

EAST-WEST CRITICAL VOLUMES 921
 NORTH-SOUTH CRITICAL VOLUMES 631

 THE SUM OF CRITICAL VOLUMES 1552

 NUMBER OF CRITICAL CLEARANCE INTERVALS 4

 CMA VALUE 1.029

 LEVEL OF SERVICE F

 * Includes CMA value decreased due to ATCS Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 3, WILSHIRE BOULEVARD & BEVERLY GLEN BOULEVARD
 DATE: 6/13/2002 INITIALS: CT PERIOD: PM PEAK HOUR
 CASE: EXISTING (2001)

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	121	1897	110	0
EASTBOUND	150	2086	172	105
NORTHBOUND	117	800	154	0
SOUTHBOUND	63	583	78	0

** NUMBER OF LANES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R	TOTAL LANES
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED	
WESTBOUND	1	0	2	1	0	0	4
EASTBOUND	1	0	3	0	1	0	5
NORTHBOUND	1	0	1	1	0	0	3
SOUTHBOUND	1	0	1	1	0	0	3

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED
WESTBOUND	121	N/A	669	669	N/A	N/A
EASTBOUND	150	N/A	695	N/A	172	N/A
NORTHBOUND	117	N/A	477	477	N/A	N/A
SOUTHBOUND	63	N/A	330	330	N/A	N/A

EAST-WEST CRITICAL VOLUMES 819
 NORTH-SOUTH CRITICAL VOLUMES 540

 THE SUM OF CRITICAL VOLUMES 1359

 NUMBER OF CRITICAL CLEARANCE INTERVALS 3

 CMA VALUE 0.884

 LEVEL OF SERVICE D

 * Includes CMA value decreased due to ATSAC Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 3, WILSHIRE BOULEVARD & BEVERLY GLEN BOULEVARD
 DATE: 6/13/2002 INITIALS: CT PERIOD: PM PEAK HOUR
 CASE: FUTURE (2005) WITHOUT PROJECT

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	128	2244	196	0
EASTBOUND	159	2325	135	178
NORTHBOUND	178	1088	163	0
SOUTHBOUND	107	743	83	0

** NUMBER OF LANES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R		TOTAL LANES
	ONLY	SHARED		SHARED	ONLY	SHARED	SHARED	
WESTBOUND	1	0	2	1	0	0	0	4
EASTBOUND	1	0	3	0	1	0	0	5
NORTHBOUND	1	0	1	1	0	0	0	3
SOUTHBOUND	1	0	1	1	0	0	0	3

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R	
	ONLY	SHARED		SHARED	ONLY	SHARED	SHARED
WESTBOUND	128	N/A	813	813	N/A	N/A	N/A
EASTBOUND	159	N/A	775	N/A	135	N/A	N/A
NORTHBOUND	178	N/A	626	626	N/A	N/A	N/A
SOUTHBOUND	107	N/A	413	413	N/A	N/A	N/A

EAST-WEST CRITICAL VOLUMES 972
 NORTH-SOUTH CRITICAL VOLUMES 733

 THE SUM OF CRITICAL VOLUMES 1705

 NUMBER OF CRITICAL CLEARANCE INTERVALS 4

 CMA VALUE 1.140

 LEVEL OF SERVICE F

 * Includes CMA value decreased due to ATCS Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 3, WILSHIRE BOULEVARD & BEVERLY GLEN BOULEVARD
 DATE: 6/13/2002 INITIALS: CT PERIOD: PM PEAK HOUR
 CASE: FUTURE (2005) WITH PROJECT

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	128	2244	196	0
EASTBOUND	159	2325	125	174
NORTHBOUND	174	1071	163	0
SOUTHBOUND	107	688	83	0

** NUMBER OF LANES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R	TOTAL LANES
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED	
WESTBOUND	1	0	2	1	0	0	4
EASTBOUND	1	0	3	0	1	0	5
NORTHBOUND	1	0	1	1	0	0	3
SOUTHBOUND	1	0	1	1	0	0	3

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED
WESTBOUND	128	N/A	813	813	N/A	N/A
EASTBOUND	159	N/A	775	N/A	125	N/A
NORTHBOUND	174	N/A	617	617	N/A	N/A
SOUTHBOUND	107	N/A	386	386	N/A	N/A

EAST-WEST CRITICAL VOLUMES 972
 NORTH-SOUTH CRITICAL VOLUMES 724

 THE SUM OF CRITICAL VOLUMES 1696

 NUMBER OF CRITICAL CLEARANCE INTERVALS 4

 CMA VALUE 1.133

 LEVEL OF SERVICE F

 * Includes CMA value decreased due to ATCS Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 3, WILSHIRE BOULEVARD & BEVERLY GLEN BOULEVARD
 DATE: 6/21/2002 INITIALS: CT PERIOD: PM PEAK HOUR
 CASE: FUTURE (2005) WITH PROJECT PLUS MITIGATION

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	128	2244	196	0
EASTBOUND	159	2325	126	173
NORTHBOUND	173	1068	163	0
SOUTHBOUND	107	688	83	0

** NUMBER OF LANES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R	TOTAL
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED	LANES
WESTBOUND	1	0	2	1	0	0	4
EASTBOUND	1	0	3	0	1	0	5
NORTHBOUND	1	0	1	1	0	0	3
SOUTHBOUND	1	0	1	1	0	0	3

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED
WESTBOUND	128	N/A	813	813	N/A	N/A
EASTBOUND	159	N/A	775	N/A	126	N/A
NORTHBOUND	173	N/A	616	616	N/A	N/A
SOUTHBOUND	107	N/A	386	386	N/A	N/A

EAST-WEST CRITICAL VOLUMES 972
 NORTH-SOUTH CRITICAL VOLUMES 723

 THE SUM OF CRITICAL VOLUMES 1695

 NUMBER OF CRITICAL CLEARANCE INTERVALS 4

 CMA VALUE 1.133

 LEVEL OF SERVICE F

 * Includes CMA value decreased due to ATCS Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 4, SANTA MONICA BOULEVARD (N) & OVERLAND AVENUE
DATE: 6/13/2002 INITIALS: CT PERIOD: AM PEAK HOUR
CASE: EXISTING (2001)

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	212	1504	0	0
EASTBOUND	0	1741	0	55
NORTHBOUND	296	0	191	106
SOUTHBOUND	0	0	0	0

** NUMBER OF LANES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R	TOTAL
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED	LANES
WESTBOUND	1	0	3	0	0	0	4
EASTBOUND	0	0	2	0	1	0	3
NORTHBOUND	1	0	0	0	0	1	2
SOUTHBOUND	0	0	0	0	0	0	0

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED
WESTBOUND	212	N/A	501	N/A	N/A	N/A
EASTBOUND	N/A	N/A	870	N/A	0	N/A
NORTHBOUND	244	N/A	N/A	N/A	N/A	244
SOUTHBOUND	N/A	N/A	N/A	N/A	N/A	N/A

EAST-WEST CRITICAL VOLUMES 1082
 NORTH-SOUTH CRITICAL VOLUMES 244

 THE SUM OF CRITICAL VOLUMES 1326

 NUMBER OF CRITICAL CLEARANCE INTERVALS 3

 CMA VALUE 0.861

 LEVEL OF SERVICE D

 * Includes CMA value decreased due to ATSAC Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 4, SANTA MONICA BOULEVARD (N) & OVERLAND AVENUE
DATE: 6/13/2002 INITIALS: CT PERIOD: AM PEAK HOUR
CASE: FUTURE (2005) WITHOUT PROJECT

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	265	2119	0	0
EASTBOUND	0	3135	0	0
NORTHBOUND	323	0	218	132
SOUTHBOUND	0	0	0	0

** NUMBER OF LANES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R	TOTAL
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED	LANES
WESTBOUND	1	0	3	0	0	0	4
EASTBOUND	0	0	3	0	0	0	3
NORTHBOUND	1	0	0	0	1	0	2
SOUTHBOUND	0	0	0	0	0	0	0

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED
WESTBOUND	265	N/A	706	N/A	N/A	N/A
EASTBOUND	N/A	N/A	1045	N/A	N/A	N/A
NORTHBOUND	323	N/A	N/A	N/A	218	N/A
SOUTHBOUND	N/A	N/A	N/A	N/A	N/A	N/A

EAST-WEST CRITICAL VOLUMES 1310
 NORTH-SOUTH CRITICAL VOLUMES 323

 THE SUM OF CRITICAL VOLUMES 1633

 NUMBER OF CRITICAL CLEARANCE INTERVALS 3

 CMA VALUE 1.076

 LEVEL OF SERVICE F

 * Includes CMA value decreased due to ATSAC Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 4, SANTA MONICA BOULEVARD (N) & OVERLAND AVENUE
DATE: 6/13/2002 INITIALS: CT PERIOD: AM PEAK HOUR
CASE: FUTURE (2005) WITH PROJECT

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	265	2088	0	0
EASTBOUND	0	3152	0	0
NORTHBOUND	323	0	218	132
SOUTHBOUND	0	0	0	0

** NUMBER OF LANES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R	TOTAL
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED	LANES
WESTBOUND	1	0	3	0	0	0	4
EASTBOUND	0	0	3	0	0	0	3
NORTHBOUND	1	0	0	0	1	0	2
SOUTHBOUND	0	0	0	0	0	0	0

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED
WESTBOUND	265	N/A	696	N/A	N/A	N/A
EASTBOUND	N/A	N/A	1051	N/A	N/A	N/A
NORTHBOUND	323	N/A	N/A	N/A	218	N/A
SOUTHBOUND	N/A	N/A	N/A	N/A	N/A	N/A

EAST-WEST CRITICAL VOLUMES 1316
 NORTH-SOUTH CRITICAL VOLUMES 323

 THE SUM OF CRITICAL VOLUMES 1639

 NUMBER OF CRITICAL CLEARANCE INTERVALS 3

 CMA VALUE 1.080

 LEVEL OF SERVICE F

 * Includes CMA value decreased due to ATSAC Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 4, SANTA MONICA BOULEVARD (N) & OVERLAND AVENUE
DATE: 6/21/2002 INITIALS: CT PERIOD: AM PEAK HOUR
CASE: FUTURE (2005) WITH PROJECT PLUS MITIGATION

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	265	2087	0	0
EASTBOUND	0	3145	0	0
NORTHBOUND	323	0	218	132
SOUTHBOUND	0	0	0	0

** NUMBER OF LANES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R	TOTAL
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED	LANES
WESTBOUND	1	0	3	0	0	0	4
EASTBOUND	0	0	3	0	0	0	3
NORTHBOUND	1	0	0	0	1	0	2
SOUTHBOUND	0	0	0	0	0	0	0

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED
WESTBOUND	265	N/A	696	N/A	N/A	N/A
EASTBOUND	N/A	N/A	1048	N/A	N/A	N/A
NORTHBOUND	323	N/A	N/A	N/A	218	N/A
SOUTHBOUND	N/A	N/A	N/A	N/A	N/A	N/A

EAST-WEST CRITICAL VOLUMES 1313
 NORTH-SOUTH CRITICAL VOLUMES 323

 THE SUM OF CRITICAL VOLUMES 1636

 NUMBER OF CRITICAL CLEARANCE INTERVALS 3

 CMA VALUE 1.078

 LEVEL OF SERVICE F

 * Includes CMA value decreased due to ATSAC Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 4, SANTA MONICA BOULEVARD (N) & OVERLAND AVENUE
DATE: 6/13/2002 INITIALS: CT PERIOD: PM PEAK HOUR
CASE: EXISTING (2001)

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	407	1496	0	0
EASTBOUND	0	1205	14	125
NORTHBOUND	293	0	206	0
SOUTHBOUND	0	0	0	0

** NUMBER OF LANES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R	TOTAL
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED	LANES
WESTBOUND	1	0	3	0	0	0	4
EASTBOUND	0	0	2	0	1	0	3
NORTHBOUND	1	0	0	0	0	1	2
SOUTHBOUND	0	0	0	0	0	0	0

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED
WESTBOUND	407	N/A	499	N/A	N/A	N/A
EASTBOUND	N/A	N/A	602	N/A	14	N/A
NORTHBOUND	250	N/A	N/A	N/A	N/A	250
SOUTHBOUND	N/A	N/A	N/A	N/A	N/A	N/A

EAST-WEST CRITICAL VOLUMES 1009
 NORTH-SOUTH CRITICAL VOLUMES 250

 THE SUM OF CRITICAL VOLUMES 1259

 NUMBER OF CRITICAL CLEARANCE INTERVALS 3

 CMA VALUE 0.814

 LEVEL OF SERVICE D

 * Includes CMA value decreased due to ATSAC Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 4, SANTA MONICA BOULEVARD (N) & OVERLAND AVENUE
DATE: 6/13/2002 INITIALS: CT PERIOD: PM PEAK HOUR
CASE: FUTURE (2005) WITHOUT PROJECT

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	512	2735	0	0
EASTBOUND	0	2373	0	0
NORTHBOUND	338	0	32	256
SOUTHBOUND	0	0	0	0

** NUMBER OF LANES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R	TOTAL
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED	LANES
WESTBOUND	1	0	3	0	0	0	4
EASTBOUND	0	0	3	0	0	0	3
NORTHBOUND	1	0	0	0	1	0	2
SOUTHBOUND	0	0	0	0	0	0	0

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED
WESTBOUND	512	N/A	912	N/A	N/A	N/A
EASTBOUND	N/A	N/A	791	N/A	N/A	N/A
NORTHBOUND	338	N/A	N/A	N/A	32	N/A
SOUTHBOUND	N/A	N/A	N/A	N/A	N/A	N/A

EAST-WEST CRITICAL VOLUMES 1303
 NORTH-SOUTH CRITICAL VOLUMES 338

 THE SUM OF CRITICAL VOLUMES 1641

 NUMBER OF CRITICAL CLEARANCE INTERVALS 3

 CMA VALUE 1.082

 LEVEL OF SERVICE F

 * Includes CMA value decreased due to ATSAC Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 4, SANTA MONICA BOULEVARD (N) & OVERLAND AVENUE
DATE: 6/13/2002 INITIALS: CT PERIOD: PM PEAK HOUR
CASE: FUTURE (2005) WITH PROJECT

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	512	2698	0	0
EASTBOUND	0	2257	0	0
NORTHBOUND	338	0	32	256
SOUTHBOUND	0	0	0	0

** NUMBER OF LANES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R	TOTAL
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED	LANES
WESTBOUND	1	0	3	0	0	0	4
EASTBOUND	0	0	3	0	0	0	3
NORTHBOUND	1	0	0	0	1	0	2
SOUTHBOUND	0	0	0	0	0	0	0

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED
WESTBOUND	512	N/A	899	N/A	N/A	N/A
EASTBOUND	N/A	N/A	752	N/A	N/A	N/A
NORTHBOUND	338	N/A	N/A	N/A	32	N/A
SOUTHBOUND	N/A	N/A	N/A	N/A	N/A	N/A

EAST-WEST CRITICAL VOLUMES 1264
 NORTH-SOUTH CRITICAL VOLUMES 338

 THE SUM OF CRITICAL VOLUMES 1602

 NUMBER OF CRITICAL CLEARANCE INTERVALS 3

 CMA VALUE 1.054

 LEVEL OF SERVICE F

 * Includes CMA value decreased due to ATSAC Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 4, SANTA MONICA BOULEVARD (N) & OVERLAND AVENUE
DATE: 6/21/2002 INITIALS: CT PERIOD: PM PEAK HOUR
CASE: FUTURE (2005) WITH PROJECT PLUS MITIGATION

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	512	2692	0	0
EASTBOUND	0	2256	0	0
NORTHBOUND	338	0	32	256
SOUTHBOUND	0	0	0	0

** NUMBER OF LANES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R	TOTAL
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED	LANES
WESTBOUND	1	0	3	0	0	0	4
EASTBOUND	0	0	3	0	0	0	3
NORTHBOUND	1	0	0	0	1	0	2
SOUTHBOUND	0	0	0	0	0	0	0

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED
WESTBOUND	512	N/A	897	N/A	N/A	N/A
EASTBOUND	N/A	N/A	752	N/A	N/A	N/A
NORTHBOUND	338	N/A	N/A	N/A	32	N/A
SOUTHBOUND	N/A	N/A	N/A	N/A	N/A	N/A

EAST-WEST CRITICAL VOLUMES 1264
 NORTH-SOUTH CRITICAL VOLUMES 338

 THE SUM OF CRITICAL VOLUMES 1602

 NUMBER OF CRITICAL CLEARANCE INTERVALS 3

 CMA VALUE 1.054

 LEVEL OF SERVICE F

 * Includes CMA value decreased due to ATSAC Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 5, SANTA MONICA BOULEVARD (S) & OVERLAND AVENUE
DATE: 6/13/2002 INITIALS: CT PERIOD: AM PEAK HOUR
CASE: EXISTING (2001)

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	27	253	89	0
EASTBOUND	25	751	16	0
NORTHBOUND	5	516	47	0
SOUTHBOUND	65	191	16	0

** NUMBER OF LANES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R		TOTAL LANES
	ONLY	SHARED		SHARED	ONLY	SHARED	SHARED	
WESTBOUND	0	1	0	1	0	0	0	2
EASTBOUND	0	1	0	1	0	0	0	2
NORTHBOUND	0	1	0	1	0	0	0	2
SOUTHBOUND	0	1	0	1	0	0	0	2

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R	
	ONLY	SHARED		SHARED	ONLY	SHARED	SHARED
WESTBOUND	N/A	146	N/A	223	N/A	N/A	N/A
EASTBOUND	N/A	387	N/A	405	N/A	N/A	N/A
NORTHBOUND	N/A	284	N/A	284	N/A	N/A	N/A
SOUTHBOUND	N/A	77	N/A	195	N/A	N/A	N/A

EAST-WEST CRITICAL VOLUMES 432
 NORTH-SOUTH CRITICAL VOLUMES 349

 THE SUM OF CRITICAL VOLUMES 781

 NUMBER OF CRITICAL CLEARANCE INTERVALS 3

 CMA VALUE 0.478

 LEVEL OF SERVICE A

 * Includes CMA value decreased due to ATSAC Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 5, SANTA MONICA BOULEVARD (S) & OVERLAND AVENUE
DATE: 6/13/2002 INITIALS: CT PERIOD: AM PEAK HOUR
CASE: FUTURE (2005) WITHOUT PROJECT

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	30	0	71	12
EASTBOUND	0	124	97	0
NORTHBOUND	0	590	61	0
SOUTHBOUND	23	242	0	0

** NUMBER OF LANES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R		TOTAL LANES
	ONLY	SHARED		SHARED	ONLY	SHARED	SHARED	
WESTBOUND	1	0	0	0	1	0	0	2
EASTBOUND	0	0	0	1	0	0	0	1
NORTHBOUND	0	0	1	1	0	0	0	2
SOUTHBOUND	1	0	1	0	0	0	0	2

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R	
	ONLY	SHARED		SHARED	ONLY	SHARED	SHARED
WESTBOUND	30	N/A	N/A	N/A	71	N/A	N/A
EASTBOUND	N/A	N/A	N/A	221	N/A	N/A	N/A
NORTHBOUND	N/A	N/A	326	326	N/A	N/A	N/A
SOUTHBOUND	23	N/A	242	N/A	N/A	N/A	N/A

EAST-WEST CRITICAL VOLUMES 251
 NORTH-SOUTH CRITICAL VOLUMES 349

 THE SUM OF CRITICAL VOLUMES 600

 NUMBER OF CRITICAL CLEARANCE INTERVALS 3

 CMA VALUE 0.358

 LEVEL OF SERVICE A

 * Includes CMA value decreased due to ATSSAC Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 5, SANTA MONICA BOULEVARD (S) & OVERLAND AVENUE
DATE: 6/13/2002 INITIALS: CT PERIOD: AM PEAK HOUR
CASE: FUTURE (2005) WITH PROJECT

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	30	0	71	12
EASTBOUND	0	124	97	0
NORTHBOUND	0	590	61	0
SOUTHBOUND	23	242	0	0

** NUMBER OF LANES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R		TOTAL LANES
	ONLY	SHARED		SHARED	ONLY	SHARED	SHARED	
WESTBOUND	1	0	0	0	1	0	2	
EASTBOUND	0	0	0	1	0	0	1	
NORTHBOUND	0	0	1	1	0	0	2	
SOUTHBOUND	1	0	1	0	0	0	2	

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R	
	ONLY	SHARED		SHARED	ONLY	SHARED	SHARED
WESTBOUND	30	N/A	N/A	N/A	71	N/A	N/A
EASTBOUND	N/A	N/A	N/A	221	N/A	N/A	N/A
NORTHBOUND	N/A	N/A	326	326	N/A	N/A	N/A
SOUTHBOUND	23	N/A	242	N/A	N/A	N/A	N/A

EAST-WEST CRITICAL VOLUMES 251
 NORTH-SOUTH CRITICAL VOLUMES 349

 THE SUM OF CRITICAL VOLUMES 600
 NUMBER OF CRITICAL CLEARANCE INTERVALS 3
 CMA VALUE 0.358
 LEVEL OF SERVICE A

 * Includes CMA value decreased due to ATSAC Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 5, SANTA MONICA BOULEVARD (S) & OVERLAND AVENUE
DATE: 6/21/2002 INITIALS: CT PERIOD: AM PEAK HOUR
CASE: FUTURE (2005) WITH PROJECT PLUS MITIGATION

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	30	0	71	12
EASTBOUND	0	124	97	0
NORTHBOUND	0	590	61	0
SOUTHBOUND	23	242	0	0

** NUMBER OF LANES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R	TOTAL LANES
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED	
WESTBOUND	1	0	0	0	1	0	2
EASTBOUND	0	0	0	1	0	0	1
NORTHBOUND	0	0	1	1	0	0	2
SOUTHBOUND	1	0	1	0	0	0	2

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED
WESTBOUND	30	N/A	N/A	N/A	71	N/A
EASTBOUND	N/A	N/A	N/A	221	N/A	N/A
NORTHBOUND	N/A	N/A	326	326	N/A	N/A
SOUTHBOUND	23	N/A	242	N/A	N/A	N/A

EAST-WEST CRITICAL VOLUMES 251
 NORTH-SOUTH CRITICAL VOLUMES 349

 THE SUM OF CRITICAL VOLUMES 600

 NUMBER OF CRITICAL CLEARANCE INTERVALS 3

 CMA VALUE 0.358

 LEVEL OF SERVICE A

 * Includes CMA value decreased due to ATSAC Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 5, SANTA MONICA BOULEVARD (S) & OVERLAND AVENUE
DATE: 6/13/2002 INITIALS: CT PERIOD: PM PEAK HOUR
CASE: EXISTING (2001)

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	53	375	134	0
EASTBOUND	20	626	30	0
NORTHBOUND	7	361	39	0
SOUTHBOUND	76	404	34	0

** NUMBER OF LANES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R		TOTAL LANES
	ONLY	SHARED		ONLY	SHARED	ONLY	SHARED	
WESTBOUND	0	1	0	1	0	0	0	2
EASTBOUND	0	1	0	1	0	0	0	2
NORTHBOUND	0	1	0	1	0	0	0	2
SOUTHBOUND	0	1	0	1	0	0	0	2

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R	
	ONLY	SHARED		ONLY	SHARED	ONLY	SHARED
WESTBOUND	N/A	221	N/A	342	N/A	N/A	N/A
EASTBOUND	N/A	323	N/A	354	N/A	N/A	N/A
NORTHBOUND	N/A	199	N/A	208	N/A	N/A	N/A
SOUTHBOUND	N/A	219	N/A	295	N/A	N/A	N/A

EAST-WEST CRITICAL VOLUMES 407
 NORTH-SOUTH CRITICAL VOLUMES 302

 THE SUM OF CRITICAL VOLUMES 709

 NUMBER OF CRITICAL CLEARANCE INTERVALS 3

 CMA VALUE 0.428

 LEVEL OF SERVICE A

 * Includes CMA value decreased due to ATSAC Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 5, SANTA MONICA BOULEVARD (S) & OVERLAND AVENUE
DATE: 6/13/2002 INITIALS: CT PERIOD: PM PEAK HOUR
CASE: FUTURE (2005) WITHOUT PROJECT

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	73	0	59	105
EASTBOUND	0	44	185	0
NORTHBOUND	0	453	48	0
SOUTHBOUND	43	460	0	0

** NUMBER OF LANES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R	TOTAL LANES
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED	
WESTBOUND	1	0	0	0	1	0	2
EASTBOUND	0	0	0	1	0	0	1
NORTHBOUND	0	0	1	1	0	0	2
SOUTHBOUND	1	0	1	0	0	0	2

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED
WESTBOUND	73	N/A	N/A	N/A	59	N/A
EASTBOUND	N/A	N/A	N/A	229	N/A	N/A
NORTHBOUND	N/A	N/A	250	250	N/A	N/A
SOUTHBOUND	43	N/A	460	N/A	N/A	N/A

EAST-WEST CRITICAL VOLUMES 302
 NORTH-SOUTH CRITICAL VOLUMES 460

 THE SUM OF CRITICAL VOLUMES 762

 NUMBER OF CRITICAL CLEARANCE INTERVALS 3

 CMA VALUE 0.465

 LEVEL OF SERVICE A

 * Includes CMA value decreased due to ATSAC Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 5, SANTA MONICA BOULEVARD (S) & OVERLAND AVENUE
DATE: 6/13/2002 INITIALS: CT PERIOD: PM PEAK HOUR
CASE: FUTURE (2005) WITH PROJECT

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	73	0	59	105
EASTBOUND	0	44	185	0
NORTHBOUND	0	453	48	0
SOUTHBOUND	43	460	0	0

** NUMBER OF LANES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R	TOTAL
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED	LANES
WESTBOUND	1	0	0	0	1	0	2
EASTBOUND	0	0	0	1	0	0	1
NORTHBOUND	0	0	1	1	0	0	2
SOUTHBOUND	1	0	1	0	0	0	2

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED
WESTBOUND	73	N/A	N/A	N/A	59	N/A
EASTBOUND	N/A	N/A	N/A	229	N/A	N/A
NORTHBOUND	N/A	N/A	250	250	N/A	N/A
SOUTHBOUND	43	N/A	460	N/A	N/A	N/A

EAST-WEST CRITICAL VOLUMES 302
 NORTH-SOUTH CRITICAL VOLUMES 460

 THE SUM OF CRITICAL VOLUMES 762

 NUMBER OF CRITICAL CLEARANCE INTERVALS 3

 CMA VALUE 0.465

 LEVEL OF SERVICE A

 * Includes CMA value decreased due to ATSAC Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 5, SANTA MONICA BOULEVARD (S) & OVERLAND AVENUE
DATE: 6/21/2002 INITIALS: CT PERIOD: PM PEAK HOUR
CASE: FUTURE (2005) WITH PROJECT PLUS MITIGATION

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	73	0	59	105
EASTBOUND	0	44	185	0
NORTHBOUND	0	453	48	0
SOUTHBOUND	43	460	0	0

** NUMBER OF LANES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R	TOTAL LANES
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED	
WESTBOUND	1	0	0	0	1	0	2
EASTBOUND	0	0	0	1	0	0	1
NORTHBOUND	0	0	1	1	0	0	2
SOUTHBOUND	1	0	1	0	0	0	2

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED
WESTBOUND	73	N/A	N/A	N/A	59	N/A
EASTBOUND	N/A	N/A	N/A	229	N/A	N/A
NORTHBOUND	N/A	N/A	250	250	N/A	N/A
SOUTHBOUND	43	N/A	460	N/A	N/A	N/A

EAST-WEST CRITICAL VOLUMES 302
 NORTH-SOUTH CRITICAL VOLUMES 460

 THE SUM OF CRITICAL VOLUMES 762

 NUMBER OF CRITICAL CLEARANCE INTERVALS 3

 CMA VALUE 0.465

 LEVEL OF SERVICE A

 * Includes CMA value decreased due to ATSAC Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 6, SANTA MONICA BOULEVARD (N) & BEVERLY GLEN BOULEVARD
DATE: 6/13/2002 INITIALS: CT PERIOD: AM PEAK HOUR
CASE: EXISTING (2001)

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	69	1366	107	0
EASTBOUND	62	1719	77	0
NORTHBOUND	0	675	90	0
SOUTHBOUND	473	824	119	0

** NUMBER OF LANES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R		TOTAL LANES
	ONLY	SHARED		ONLY	SHARED	ONLY	SHARED	
WESTBOUND	1	0	2	1	0	0	0	4
EASTBOUND	1	0	2	1	0	0	0	4
NORTHBOUND	0	1	0	1	0	0	0	2
SOUTHBOUND	2	0	1	1	0	0	0	4

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R	
	ONLY	SHARED		ONLY	SHARED	ONLY	SHARED
WESTBOUND	69	N/A	491	491	N/A	N/A	N/A
EASTBOUND	62	N/A	599	599	N/A	N/A	N/A
NORTHBOUND	N/A	382	N/A	382	N/A	N/A	N/A
SOUTHBOUND	260	N/A	472	472	N/A	N/A	N/A

EAST-WEST CRITICAL VOLUMES 668
 NORTH-SOUTH CRITICAL VOLUMES 642

 THE SUM OF CRITICAL VOLUMES 1310

 NUMBER OF CRITICAL CLEARANCE INTERVALS 3

 CMA VALUE 0.849

 LEVEL OF SERVICE D

 * Includes CMA value decreased due to ATSAC Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 6, SANTA MONICA BOULEVARD (N) & BEVERLY GLEN BOULEVARD
 DATE: 6/13/2002 INITIALS: CT PERIOD: AM PEAK HOUR
 CASE: FUTURE (2005) WITHOUT PROJECT

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	114	2080	0	251
EASTBOUND	173	3333	0	0
NORTHBOUND	35	620	165	63
SOUTHBOUND	806	848	81	95

** NUMBER OF LANES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R	TOTAL LANES
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED	
WESTBOUND	2	0	3	0	2	0	7
EASTBOUND	2	0	3	1	0	0	6
NORTHBOUND	2	0	2	0	1	0	5
SOUTHBOUND	2	0	2	0	1	0	5

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED
WESTBOUND	63	N/A	693	N/A	0	N/A
EASTBOUND	95	N/A	833	833	N/A	N/A
NORTHBOUND	19	N/A	310	N/A	165	N/A
SOUTHBOUND	443	N/A	424	N/A	81	N/A

EAST-WEST CRITICAL VOLUMES 896
 NORTH-SOUTH CRITICAL VOLUMES 753

 THE SUM OF CRITICAL VOLUMES 1649
 NUMBER OF CRITICAL CLEARANCE INTERVALS 4
 CMA VALUE 1.099
 LEVEL OF SERVICE F

 * Includes CMA value decreased due to ATCS Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 6, SANTA MONICA BOULEVARD (N) & BEVERLY GLEN BOULEVARD
DATE: 6/13/2002 INITIALS: CT PERIOD: AM PEAK HOUR
CASE: FUTURE (2005) WITH PROJECT

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	114	2049	0	233
EASTBOUND	173	3350	0	0
NORTHBOUND	35	620	165	63
SOUTHBOUND	816	848	81	95

** NUMBER OF LANES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R	TOTAL
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED	LANES
WESTBOUND	2	0	3	0	2	0	7
EASTBOUND	2	0	3	1	0	0	6
NORTHBOUND	2	0	2	0	1	0	5
SOUTHBOUND	2	0	2	0	1	0	5

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED
WESTBOUND	63	N/A	683	N/A	0	N/A
EASTBOUND	95	N/A	838	838	N/A	N/A
NORTHBOUND	19	N/A	310	N/A	165	N/A
SOUTHBOUND	449	N/A	424	N/A	81	N/A

EAST-WEST CRITICAL VOLUMES 901
 NORTH-SOUTH CRITICAL VOLUMES 759

 THE SUM OF CRITICAL VOLUMES 1660

 NUMBER OF CRITICAL CLEARANCE INTERVALS 4

 CMA VALUE 1.107

 LEVEL OF SERVICE F

 * Includes CMA value decreased due to ATCS Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 6, SANTA MONICA BOULEVARD (N) & BEVERLY GLEN BOULEVARD
DATE: 6/21/2002 INITIALS: CT PERIOD: AM PEAK HOUR
CASE: FUTURE (2005) WITH PROJECT PLUS MITIGATION

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	114	2048	0	232
EASTBOUND	173	3343	0	0
NORTHBOUND	35	620	165	63
SOUTHBOUND	812	848	81	95

** NUMBER OF LANES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R	TOTAL
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED	LANES
WESTBOUND	2	0	3	0	2	0	7
EASTBOUND	2	0	3	1	0	0	6
NORTHBOUND	2	0	2	0	1	0	5
SOUTHBOUND	2	0	2	0	1	0	5

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED
WESTBOUND	63	N/A	683	N/A	0	N/A
EASTBOUND	95	N/A	836	836	N/A	N/A
NORTHBOUND	19	N/A	310	N/A	165	N/A
SOUTHBOUND	447	N/A	424	N/A	81	N/A

EAST-WEST CRITICAL VOLUMES 899
 NORTH-SOUTH CRITICAL VOLUMES 757

 THE SUM OF CRITICAL VOLUMES 1656

 NUMBER OF CRITICAL CLEARANCE INTERVALS 4

 CMA VALUE 1.104

 LEVEL OF SERVICE F

 * Includes CMA value decreased due to ATCS Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 6, SANTA MONICA BOULEVARD (N) & BEVERLY GLEN BOULEVARD
DATE: 6/13/2002 INITIALS: CT PERIOD: PM PEAK HOUR
CASE: EXISTING (2001)

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	99	1670	272	0
EASTBOUND	74	1160	91	0
NORTHBOUND	0	862	40	0
SOUTHBOUND	181	982	74	0

** NUMBER OF LANES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R	TOTAL
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED	LANES
WESTBOUND	1	0	2	1	0	0	4
EASTBOUND	1	0	2	1	0	0	4
NORTHBOUND	0	1	0	1	0	0	2
SOUTHBOUND	2	0	1	1	0	0	4

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED
WESTBOUND	99	N/A	647	647	N/A	N/A
EASTBOUND	74	N/A	417	417	N/A	N/A
NORTHBOUND	N/A	451	N/A	451	N/A	N/A
SOUTHBOUND	100	N/A	528	528	N/A	N/A

EAST-WEST CRITICAL VOLUMES 721
 NORTH-SOUTH CRITICAL VOLUMES 551

 THE SUM OF CRITICAL VOLUMES 1272

 NUMBER OF CRITICAL CLEARANCE INTERVALS 3

 CMA VALUE 0.823

 LEVEL OF SERVICE D

 * Includes CMA value decreased due to ATSAC Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 6, SANTA MONICA BOULEVARD (N) & BEVERLY GLEN BOULEVARD
 DATE: 6/13/2002 INITIALS: CT PERIOD: PM PEAK HOUR
 CASE: FUTURE (2005) WITHOUT PROJECT

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	226	3300	436	402
EASTBOUND	146	2478	0	0
NORTHBOUND	39	632	12	124
SOUTHBOUND	366	1005	0	79

** NUMBER OF LANES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R		TOTAL LANES
	ONLY	SHARED		SHARED	ONLY	SHARED	SHARED	
WESTBOUND	2	0	3	0	2	0	7	
EASTBOUND	2	0	3	1	0	0	6	
NORTHBOUND	2	0	2	0	1	0	5	
SOUTHBOUND	2	0	2	0	1	0	5	

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R	
	ONLY	SHARED		SHARED	ONLY	SHARED	
WESTBOUND	124	N/A	1100	N/A	218	N/A	
EASTBOUND	80	N/A	620	620	N/A	N/A	
NORTHBOUND	21	N/A	316	N/A	12	N/A	
SOUTHBOUND	201	N/A	502	N/A	0	N/A	

EAST-WEST CRITICAL VOLUMES 1180
 NORTH-SOUTH CRITICAL VOLUMES 523

 THE SUM OF CRITICAL VOLUMES 1703

 NUMBER OF CRITICAL CLEARANCE INTERVALS 4

 CMA VALUE 1.139

 LEVEL OF SERVICE F

 * Includes CMA value decreased due to ATCS Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 6, SANTA MONICA BOULEVARD (N) & BEVERLY GLEN BOULEVARD
DATE: 6/13/2002 INITIALS: CT PERIOD: PM PEAK HOUR
CASE: FUTURE (2005) WITH PROJECT

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	226	3263	488	328
EASTBOUND	146	2362	0	0
NORTHBOUND	39	632	12	124
SOUTHBOUND	298	1005	0	79

** NUMBER OF LANES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R	TOTAL LANES
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED	
WESTBOUND	2	0	3	0	2	0	7
EASTBOUND	2	0	3	1	0	0	6
NORTHBOUND	2	0	2	0	1	0	5
SOUTHBOUND	2	0	2	0	1	0	5

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED
WESTBOUND	124	N/A	1088	N/A	244	N/A
EASTBOUND	80	N/A	590	590	N/A	N/A
NORTHBOUND	21	N/A	316	N/A	12	N/A
SOUTHBOUND	164	N/A	502	N/A	0	N/A

EAST-WEST CRITICAL VOLUMES 1168
 NORTH-SOUTH CRITICAL VOLUMES 523

 THE SUM OF CRITICAL VOLUMES 1691

 NUMBER OF CRITICAL CLEARANCE INTERVALS 4

 CMA VALUE 1.130

 LEVEL OF SERVICE F

 * Includes CMA value decreased due to ATCS Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 6, SANTA MONICA BOULEVARD (N) & BEVERLY GLEN BOULEVARD
 DATE: 6/21/2002 INITIALS: CT PERIOD: PM PEAK HOUR
 CASE: FUTURE (2005) WITH PROJECT PLUS MITIGATION

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	MIN ON GREEN	MAX ON RED
WESTBOUND	226	3257	487	326
EASTBOUND	146	2361	0	0
NORTHBOUND	39	632	12	124
SOUTHBOUND	297	1005	0	79

** NUMBER OF LANES **

APPROACH	LEFT ONLY	LEFT SHARED	THROUGH ONLY	RIGHT SHARED	RIGHT ONLY	L/T/R SHARED	TOTAL LANES
WESTBOUND	2	0	3	0	2	0	7
EASTBOUND	2	0	3	1	0	0	6
NORTHBOUND	2	0	2	0	1	0	5
SOUTHBOUND	2	0	2	0	1	0	5

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT ONLY	LEFT SHARED	THROUGH ONLY	RIGHT SHARED	RIGHT ONLY	L/T/R SHARED
WESTBOUND	124	N/A	1086	N/A	244	N/A
EASTBOUND	80	N/A	590	590	N/A	N/A
NORTHBOUND	21	N/A	316	N/A	12	N/A
SOUTHBOUND	163	N/A	502	N/A	0	N/A

EAST-WEST CRITICAL VOLUMES 1166
 NORTH-SOUTH CRITICAL VOLUMES 523

 THE SUM OF CRITICAL VOLUMES 1689

 NUMBER OF CRITICAL CLEARANCE INTERVALS 4

 CMA VALUE 1.128

 LEVEL OF SERVICE F

 * Includes CMA value decreased due to ATCS Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 7, SANTA MONICA BOULEVARD (S) & BEVERLY GLEN BOULEVARD
DATE: 6/13/2002 INITIALS: CT PERIOD: AM PEAK HOUR
CASE: EXISTING (2001)

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	14	306	50	0
EASTBOUND	90	776	12	0
NORTHBOUND	33	605	91	0
SOUTHBOUND	0	874	76	0

** NUMBER OF LANES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R		TOTAL LANES
	ONLY	SHARED		ONLY	SHARED	ONLY	SHARED	
WESTBOUND	1	0	1	1	0	0	0	3
EASTBOUND	1	0	0	1	0	0	0	2
NORTHBOUND	1	0	1	1	0	0	0	3
SOUTHBOUND	0	1	0	1	0	0	0	2

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R	
	ONLY	SHARED		ONLY	SHARED	ONLY	SHARED
WESTBOUND	14	N/A	178	178	N/A	N/A	N/A
EASTBOUND	90	N/A	N/A	788	N/A	N/A	N/A
NORTHBOUND	33	N/A	348	348	N/A	N/A	N/A
SOUTHBOUND	N/A	475	N/A	475	N/A	N/A	N/A

EAST-WEST CRITICAL VOLUMES 802
 NORTH-SOUTH CRITICAL VOLUMES 508

 THE SUM OF CRITICAL VOLUMES 1310

 NUMBER OF CRITICAL CLEARANCE INTERVALS 3

 CMA VALUE 0.849

 LEVEL OF SERVICE D

 * Includes CMA value decreased due to ATSAC Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 7, SANTA MONICA BOULEVARD (S) & BEVERLY GLEN BOULEVARD
 DATE: 6/13/2002 INITIALS: CT PERIOD: AM PEAK HOUR
 CASE: FUTURE (2005) WITHOUT PROJECT

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	0	0	0	0
EASTBOUND	0	0	99	0
NORTHBOUND	0	883	0	0
SOUTHBOUND	0	916	0	21

** NUMBER OF LANES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R SHARED	TOTAL LANES
	ONLY	SHARED		SHARED	ONLY		
WESTBOUND	0	0	0	0	0	0	0
EASTBOUND	0	0	0	0	1	0	1
NORTHBOUND	0	0	5	0	0	0	5
SOUTHBOUND	0	0	2	0	1	0	3

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R SHARED
	ONLY	SHARED		SHARED	ONLY	
WESTBOUND	N/A	N/A	N/A	N/A	N/A	N/A
EASTBOUND	N/A	N/A	N/A	N/A	99	N/A
NORTHBOUND	N/A	N/A	177	N/A	N/A	N/A
SOUTHBOUND	N/A	N/A	458	N/A	0	N/A

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EAST-WEST CRITICAL VOLUMES ..... 99
NORTH-SOUTH CRITICAL VOLUMES ..... 458
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THE SUM OF CRITICAL VOLUMES ..... 557

NUMBER OF CRITICAL CLEARANCE INTERVALS .... 0

CMA VALUE ..... 0.464

LEVEL OF SERVICE ..... A
  
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Capacity assumed = 1200.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 7, SANTA MONICA BOULEVARD (S) & BEVERLY GLEN BOULEVARD
DATE: 6/13/2002 INITIALS: CT PERIOD: AM PEAK HOUR
CASE: FUTURE (2005) WITH PROJECT

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	0	0	0	0
EASTBOUND	0	0	99	0
NORTHBOUND	0	883	0	0
SOUTHBOUND	0	916	0	21

** NUMBER OF LANES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R SHARED	TOTAL LANES
	ONLY	SHARED		SHARED	ONLY		
WESTBOUND	0	0	0	0	0	0	0
EASTBOUND	0	0	0	0	1	0	1
NORTHBOUND	0	0	5	0	0	0	5
SOUTHBOUND	0	0	2	0	1	0	3

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R SHARED
	ONLY	SHARED		SHARED	ONLY	
WESTBOUND	N/A	N/A	N/A	N/A	N/A	N/A
EASTBOUND	N/A	N/A	N/A	N/A	99	N/A
NORTHBOUND	N/A	N/A	177	N/A	N/A	N/A
SOUTHBOUND	N/A	N/A	458	N/A	0	N/A

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EAST-WEST CRITICAL VOLUMES ..... 99
NORTH-SOUTH CRITICAL VOLUMES ..... 458
-----
THE SUM OF CRITICAL VOLUMES ..... 557

NUMBER OF CRITICAL CLEARANCE INTERVALS .... 0

CMA VALUE ..... 0.464

LEVEL OF SERVICE ..... A

```

Capacity assumed = 1200.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 7, SANTA MONICA BOULEVARD (S) & BEVERLY GLEN BOULEVARD
DATE: 6/21/2002 INITIALS: CT PERIOD: AM PEAK HOUR
CASE: FUTURE (2005) WITH PROJECT PLUS MITIGATION

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	0	0	0	0
EASTBOUND	0	0	99	0
NORTHBOUND	0	883	0	0
SOUTHBOUND	0	916	0	21

** NUMBER OF LANES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R SHARED	TOTAL LANES
	ONLY	SHARED		SHARED	ONLY		
WESTBOUND	0	0	0	0	0	0	0
EASTBOUND	0	0	0	0	1	0	1
NORTHBOUND	0	0	5	0	0	0	5
SOUTHBOUND	0	0	2	0	1	0	3

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R SHARED
	ONLY	SHARED		SHARED	ONLY	
WESTBOUND	N/A	N/A	N/A	N/A	N/A	N/A
EASTBOUND	N/A	N/A	N/A	N/A	99	N/A
NORTHBOUND	N/A	N/A	177	N/A	N/A	N/A
SOUTHBOUND	N/A	N/A	458	N/A	0	N/A

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EAST-WEST CRITICAL VOLUMES ..... 99
NORTH-SOUTH CRITICAL VOLUMES ..... 458
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THE SUM OF CRITICAL VOLUMES ..... 557

NUMBER OF CRITICAL CLEARANCE INTERVALS .... 0

CMA VALUE ..... 0.464

LEVEL OF SERVICE ..... A

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Capacity assumed = 1200.

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CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 7, SANTA MONICA BOULEVARD (S) & BEVERLY GLEN BOULEVARD
DATE: 6/13/2002 INITIALS: CT PERIOD: PM PEAK HOUR
CASE: EXISTING (2001)

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	75	590	214	0
EASTBOUND	58	648	33	0
NORTHBOUND	37	626	69	0
SOUTHBOUND	0	1054	78	0

** NUMBER OF LANES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R	TOTAL
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED	LANES
WESTBOUND	1	0	1	1	0	0	3
EASTBOUND	1	0	0	1	0	0	2
NORTHBOUND	1	0	1	1	0	0	3
SOUTHBOUND	0	1	0	1	0	0	2

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED
WESTBOUND	75	N/A	402	402	N/A	N/A
EASTBOUND	58	N/A	N/A	681	N/A	N/A
NORTHBOUND	37	N/A	348	348	N/A	N/A
SOUTHBOUND	N/A	566	N/A	566	N/A	N/A

EAST-WEST CRITICAL VOLUMES 756
 NORTH-SOUTH CRITICAL VOLUMES 603

 THE SUM OF CRITICAL VOLUMES 1359

 NUMBER OF CRITICAL CLEARANCE INTERVALS 3

 CMA VALUE 0.884

 LEVEL OF SERVICE D

 * Includes CMA value decreased due to ATSAC Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 7, SANTA MONICA BOULEVARD (S) & BEVERLY GLEN BOULEVARD
 DATE: 6/13/2002 INITIALS: CT PERIOD: PM PEAK HOUR
 CASE: FUTURE (2005) WITHOUT PROJECT

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	0	0	0	0
EASTBOUND	0	0	132	0
NORTHBOUND	0	807	0	0
SOUTHBOUND	0	1115	15	66

** NUMBER OF LANES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R SHARED	TOTAL LANES
	ONLY	SHARED		SHARED	ONLY		
WESTBOUND	0	0	0	0	0	0	0
EASTBOUND	0	0	0	0	1	0	1
NORTHBOUND	0	0	5	0	0	0	5
SOUTHBOUND	0	0	2	0	1	0	3

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT ONLY	LEFT SHARED	THROUGH ONLY	RIGHT SHARED	RIGHT ONLY	L/T/R SHARED
	WESTBOUND	N/A	N/A	N/A	N/A	N/A
EASTBOUND	N/A	N/A	N/A	N/A	132	N/A
NORTHBOUND	N/A	N/A	161	N/A	N/A	N/A
SOUTHBOUND	N/A	N/A	558	N/A	15	N/A

EAST-WEST CRITICAL VOLUMES 132
 NORTH-SOUTH CRITICAL VOLUMES 558

 THE SUM OF CRITICAL VOLUMES 690

NUMBER OF CRITICAL CLEARANCE INTERVALS 0

CMA VALUE 0.575

LEVEL OF SERVICE A

Capacity assumed = 1200.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 7, SANTA MONICA BOULEVARD (S) & BEVERLY GLEN BOULEVARD
DATE: 6/13/2002 INITIALS: CT PERIOD: PM PEAK HOUR
CASE: FUTURE (2005) WITH PROJECT

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	0	0	0	0
EASTBOUND	0	0	132	0
NORTHBOUND	0	807	0	0
SOUTHBOUND	0	1115	15	66

** NUMBER OF LANES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R SHARED	TOTAL LANES
	ONLY	SHARED		SHARED	ONLY		
WESTBOUND	0	0	0	0	0	0	0
EASTBOUND	0	0	0	0	1	0	1
NORTHBOUND	0	0	5	0	0	0	5
SOUTHBOUND	0	0	2	0	1	0	3

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R SHARED
	ONLY	SHARED		SHARED	ONLY	
WESTBOUND	N/A	N/A	N/A	N/A	N/A	N/A
EASTBOUND	N/A	N/A	N/A	N/A	132	N/A
NORTHBOUND	N/A	N/A	161	N/A	N/A	N/A
SOUTHBOUND	N/A	N/A	558	N/A	15	N/A

EAST-WEST CRITICAL VOLUMES 132
 NORTH-SOUTH CRITICAL VOLUMES 558

 THE SUM OF CRITICAL VOLUMES 690

 NUMBER OF CRITICAL CLEARANCE INTERVALS 0

 CMA VALUE 0.575

 LEVEL OF SERVICE A

Capacity assumed = 1200.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 7, SANTA MONICA BOULEVARD (S) & BEVERLY GLEN BOULEVARD
 DATE: 6/21/2002 INITIALS: CT PERIOD: PM PEAK HOUR
 CASE: FUTURE (2005) WITH PROJECT PLUS MITIGATION

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	0	0	0	0
EASTBOUND	0	0	132	0
NORTHBOUND	0	807	0	0
SOUTHBOUND	0	1115	15	66

** NUMBER OF LANES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R SHARED	TOTAL LANES
	ONLY	SHARED		SHARED	ONLY		
WESTBOUND	0	0	0	0	0	0	0
EASTBOUND	0	0	0	0	1	0	1
NORTHBOUND	0	0	5	0	0	0	5
SOUTHBOUND	0	0	2	0	1	0	3

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R SHARED
	ONLY	SHARED		SHARED	ONLY	
WESTBOUND	N/A	N/A	N/A	N/A	N/A	N/A
EASTBOUND	N/A	N/A	N/A	N/A	132	N/A
NORTHBOUND	N/A	N/A	161	N/A	N/A	N/A
SOUTHBOUND	N/A	N/A	558	N/A	15	N/A

EAST-WEST CRITICAL VOLUMES 132
 NORTH-SOUTH CRITICAL VOLUMES 558

 THE SUM OF CRITICAL VOLUMES 690

 NUMBER OF CRITICAL CLEARANCE INTERVALS 0

 CMA VALUE 0.575

 LEVEL OF SERVICE A

Capacity assumed = 1200.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 8, SANTA MONICA BOULEVARD (S) & CENTURY PARK WEST
DATE: 6/13/2002 INITIALS: CT PERIOD: AM PEAK HOUR
CASE: EXISTING (2001)

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	188	323	0	0
EASTBOUND	0	787	166	0
NORTHBOUND	60	0	56	94
SOUTHBOUND	0	0	0	0

** NUMBER OF LANES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R		TOTAL LANES
	ONLY	SHARED		ONLY	SHARED	ONLY	SHARED	
WESTBOUND	1	0	2	0	0	0	0	3
EASTBOUND	0	0	2	1	0	0	0	3
NORTHBOUND	1	0	0	0	1	1	1	3
SOUTHBOUND	0	0	0	0	0	0	0	0

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R	
	ONLY	SHARED		ONLY	SHARED	ONLY	SHARED
WESTBOUND	188	N/A	162	N/A	N/A	N/A	N/A
EASTBOUND	N/A	N/A	318	318	N/A	N/A	N/A
NORTHBOUND	39	N/A	N/A	N/A	39	39	39
SOUTHBOUND	N/A	N/A	N/A	N/A	N/A	N/A	N/A

EAST-WEST CRITICAL VOLUMES 506
 NORTH-SOUTH CRITICAL VOLUMES 39

 THE SUM OF CRITICAL VOLUMES 545

 NUMBER OF CRITICAL CLEARANCE INTERVALS 3

 CMA VALUE 0.325

 LEVEL OF SERVICE A

 * Includes CMA value decreased due to ATSAC Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 8, SANTA MONICA BOULEVARD (S) & CENTURY PARK WEST
DATE: 6/13/2002 INITIALS: CT PERIOD: AM PEAK HOUR
CASE: FUTURE (2005) WITHOUT PROJECT

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	349	2365	0	0
EASTBOUND	0	4033	334	40
NORTHBOUND	80	0	0	185
SOUTHBOUND	0	0	0	0

** NUMBER OF LANES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R		TOTAL LANES
	ONLY	SHARED		SHARED	ONLY	SHARED	SHARED	
WESTBOUND	2	0	3	0	0	0	0	5
EASTBOUND	0	0	3	0	1	0	0	4
NORTHBOUND	1	0	0	0	1	1	1	3
SOUTHBOUND	0	0	0	0	0	0	0	0

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R	
	ONLY	SHARED		SHARED	ONLY	SHARED	SHARED
WESTBOUND	192	N/A	788	N/A	N/A	N/A	N/A
EASTBOUND	N/A	N/A	1344	N/A	334	N/A	N/A
NORTHBOUND	40	40	N/A	N/A	0	N/A	N/A
SOUTHBOUND	N/A	N/A	N/A	N/A	N/A	N/A	N/A

EAST-WEST CRITICAL VOLUMES 1536
 NORTH-SOUTH CRITICAL VOLUMES 40

 THE SUM OF CRITICAL VOLUMES 1576

 NUMBER OF CRITICAL CLEARANCE INTERVALS 3

 CMA VALUE 1.006

 LEVEL OF SERVICE F

 * Includes CMA value decreased due to ATCS Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 8, SANTA MONICA BOULEVARD (S) & CENTURY PARK WEST
DATE: 6/13/2002 INITIALS: CT PERIOD: AM PEAK HOUR
CASE: FUTURE (2005) WITH PROJECT

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	349	2327	0	0
EASTBOUND	0	4053	347	34
NORTHBOUND	69	0	0	185
SOUTHBOUND	0	0	0	0

** NUMBER OF LANES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R	TOTAL LANES
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED	
WESTBOUND	2	0	3	0	0	0	5
EASTBOUND	0	0	3	0	1	0	4
NORTHBOUND	1	0	0	0	1	1	3
SOUTHBOUND	0	0	0	0	0	0	0

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED
WESTBOUND	192	N/A	776	N/A	N/A	N/A
EASTBOUND	N/A	N/A	1351	N/A	347	N/A
NORTHBOUND	34	34	N/A	N/A	0	N/A
SOUTHBOUND	N/A	N/A	N/A	N/A	N/A	N/A

EAST-WEST CRITICAL VOLUMES 1543
 NORTH-SOUTH CRITICAL VOLUMES 34

 THE SUM OF CRITICAL VOLUMES 1577

 NUMBER OF CRITICAL CLEARANCE INTERVALS 3

 CMA VALUE 1.007

 LEVEL OF SERVICE F

 * Includes CMA value decreased due to ATCS Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 8, SANTA MONICA BOULEVARD (S) & CENTURY PARK WEST
DATE: 6/21/2002 INITIALS: CT PERIOD: AM PEAK HOUR
CASE: FUTURE (2005) WITH PROJECT PLUS MITIGATION

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	349	2326	0	0
EASTBOUND	0	4045	344	34
NORTHBOUND	69	0	0	185
SOUTHBOUND	0	0	0	0

** NUMBER OF LANES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R	TOTAL LANES
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED	
WESTBOUND	2	0	3	0	0	0	5
EASTBOUND	0	0	3	0	1	0	4
NORTHBOUND	1	0	0	0	1	1	3
SOUTHBOUND	0	0	0	0	0	0	0

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED
WESTBOUND	192	N/A	775	N/A	N/A	N/A
EASTBOUND	N/A	N/A	1348	N/A	344	N/A
NORTHBOUND	34	34	N/A	N/A	0	N/A
SOUTHBOUND	N/A	N/A	N/A	N/A	N/A	N/A

EAST-WEST CRITICAL VOLUMES 1540
 NORTH-SOUTH CRITICAL VOLUMES 34

 THE SUM OF CRITICAL VOLUMES 1574

 NUMBER OF CRITICAL CLEARANCE INTERVALS 3

 CMA VALUE 1.005

 LEVEL OF SERVICE F

 * Includes CMA value decreased due to ATCS Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 8, SANTA MONICA BOULEVARD (S) & CENTURY PARK WEST
DATE: 6/13/2002 INITIALS: CT PERIOD: PM PEAK HOUR
CASE: EXISTING (2001)

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	214	532	0	0
EASTBOUND	0	742	78	0
NORTHBOUND	355	0	106	107
SOUTHBOUND	0	0	0	0

** NUMBER OF LANES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R		TOTAL LANES
	ONLY	SHARED		SHARED	ONLY	SHARED	SHARED	
WESTBOUND	1	0	2	0	0	0	0	3
EASTBOUND	0	0	2	1	0	0	0	3
NORTHBOUND	1	0	0	0	1	1	1	3
SOUTHBOUND	0	0	0	0	0	0	0	0

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R	
	ONLY	SHARED		SHARED	ONLY	SHARED	SHARED
WESTBOUND	214	N/A	266	N/A	N/A	N/A	N/A
EASTBOUND	N/A	N/A	273	273	N/A	N/A	N/A
NORTHBOUND	178	178	N/A	N/A	106	N/A	N/A
SOUTHBOUND	N/A	N/A	N/A	N/A	N/A	N/A	N/A

EAST-WEST CRITICAL VOLUMES 487
 NORTH-SOUTH CRITICAL VOLUMES 178

 THE SUM OF CRITICAL VOLUMES 665

 NUMBER OF CRITICAL CLEARANCE INTERVALS 3

 CMA VALUE 0.397

 LEVEL OF SERVICE A

 * Includes CMA value decreased due to ATSAC Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 8, SANTA MONICA BOULEVARD (S) & CENTURY PARK WEST
DATE: 6/13/2002 INITIALS: CT PERIOD: PM PEAK HOUR
CASE: FUTURE (2005) WITHOUT PROJECT

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	269	3825	0	0
EASTBOUND	0	2805	0	176
NORTHBOUND	539	0	199	148
SOUTHBOUND	0	0	0	0

** NUMBER OF LANES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R		TOTAL LANES
	ONLY	SHARED		SHARED	ONLY	SHARED	SHARED	
WESTBOUND	2	0	3	0	0	0	0	5
EASTBOUND	0	0	3	0	1	0	0	4
NORTHBOUND	1	0	0	0	1	1	1	3
SOUTHBOUND	0	0	0	0	0	0	0	0

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R	
	ONLY	SHARED		SHARED	ONLY	SHARED	SHARED
WESTBOUND	148	N/A	1275	N/A	N/A	N/A	N/A
EASTBOUND	N/A	N/A	935	N/A	0	N/A	N/A
NORTHBOUND	270	270	N/A	N/A	199	N/A	N/A
SOUTHBOUND	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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EAST-WEST CRITICAL VOLUMES ..... 1275
NORTH-SOUTH CRITICAL VOLUMES ..... 270
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THE SUM OF CRITICAL VOLUMES ..... 1545

NUMBER OF CRITICAL CLEARANCE INTERVALS .... 3

CMA VALUE ..... 0.984

LEVEL OF SERVICE ..... E

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* Includes CMA value decreased due to ATCS Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 8, SANTA MONICA BOULEVARD (S) & CENTURY PARK WEST
DATE: 6/13/2002 INITIALS: CT PERIOD: PM PEAK HOUR
CASE: FUTURE (2005) WITH PROJECT

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	269	3780	0	0
EASTBOUND	0	2668	0	128
NORTHBOUND	526	0	199	148
SOUTHBOUND	0	0	0	0

** NUMBER OF LANES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R	TOTAL
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED	LANES
WESTBOUND	2	0	3	0	0	0	5
EASTBOUND	0	0	3	0	1	0	4
NORTHBOUND	1	0	0	0	1	1	3
SOUTHBOUND	0	0	0	0	0	0	0

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED
WESTBOUND	148	N/A	1260	N/A	N/A	N/A
EASTBOUND	N/A	N/A	889	N/A	0	N/A
NORTHBOUND	263	263	N/A	N/A	199	N/A
SOUTHBOUND	N/A	N/A	N/A	N/A	N/A	N/A

EAST-WEST CRITICAL VOLUMES 1260
 NORTH-SOUTH CRITICAL VOLUMES 263

 THE SUM OF CRITICAL VOLUMES 1523

 NUMBER OF CRITICAL CLEARANCE INTERVALS 3

 CMA VALUE 0.969

 LEVEL OF SERVICE E

 * Includes CMA value decreased due to ATCS Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 8, SANTA MONICA BOULEVARD (S) & CENTURY PARK WEST
DATE: 6/21/2002 INITIALS: CT PERIOD: PM PEAK HOUR
CASE: FUTURE (2005) WITH PROJECT PLUS MITIGATION

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	269	3772	0	0
EASTBOUND	0	2667	0	128
NORTHBOUND	524	0	199	148
SOUTHBOUND	0	0	0	0

** NUMBER OF LANES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R	TOTAL
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED	LANES
WESTBOUND	2	0	3	0	0	0	5
EASTBOUND	0	0	3	0	1	0	4
NORTHBOUND	1	0	0	0	1	1	3
SOUTHBOUND	0	0	0	0	0	0	0

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED
WESTBOUND	148	N/A	1257	N/A	N/A	N/A
EASTBOUND	N/A	N/A	889	N/A	0	N/A
NORTHBOUND	262	262	N/A	N/A	199	N/A
SOUTHBOUND	N/A	N/A	N/A	N/A	N/A	N/A

EAST-WEST CRITICAL VOLUMES 1257
 NORTH-SOUTH CRITICAL VOLUMES 262

 THE SUM OF CRITICAL VOLUMES 1519

 NUMBER OF CRITICAL CLEARANCE INTERVALS 3

 CMA VALUE 0.966

 LEVEL OF SERVICE E

 * Includes CMA value decreased due to ATCS Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 9, SANTA MONICA BOULEVARD (N) & CLUB VIEW DRIVE
DATE: 6/13/2002 INITIALS: CT PERIOD: AM PEAK HOUR
CASE: EXISTING (2001)

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	0	1545	0	62
EASTBOUND	9	2191	0	0
NORTHBOUND	0	0	0	0
SOUTHBOUND	244	0	1	4

** NUMBER OF LANES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R	TOTAL
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED	LANES
WESTBOUND	0	0	2	0	1	0	3
EASTBOUND	1	0	3	0	0	0	4
NORTHBOUND	0	0	0	0	0	0	0
SOUTHBOUND	1	0	0	0	1	0	2

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED
WESTBOUND	N/A	N/A	772	N/A	0	N/A
EASTBOUND	9	N/A	730	N/A	N/A	N/A
NORTHBOUND	N/A	N/A	N/A	N/A	N/A	N/A
SOUTHBOUND	244	N/A	N/A	N/A	1	N/A

EAST-WEST CRITICAL VOLUMES 781
 NORTH-SOUTH CRITICAL VOLUMES 244

 THE SUM OF CRITICAL VOLUMES 1025

 NUMBER OF CRITICAL CLEARANCE INTERVALS 2

 CMA VALUE 0.613

 LEVEL OF SERVICE B

 * Includes CMA value decreased due to ATSAC Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 9, SANTA MONICA BOULEVARD (N) & CLUB VIEW DRIVE
 DATE: 6/13/2002 INITIALS: CT PERIOD: AM PEAK HOUR
 CASE: FUTURE (2005) WITHOUT PROJECT

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	0	50	38	0
EASTBOUND	0	0	0	0
NORTHBOUND	0	0	0	0
SOUTHBOUND	0	0	168	0

** NUMBER OF LANES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R		TOTAL LANES
	ONLY	SHARED		SHARED	ONLY	SHARED	SHARED	
WESTBOUND	0	0	0	1	0	0	0	1
EASTBOUND	0	0	0	0	0	0	0	0
NORTHBOUND	0	0	0	0	0	0	0	0
SOUTHBOUND	0	0	0	0	1	0	0	1

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R	
	ONLY	SHARED		SHARED	ONLY	SHARED	SHARED
WESTBOUND	N/A	N/A	N/A	88	N/A	N/A	N/A
EASTBOUND	N/A	N/A	N/A	N/A	N/A	N/A	N/A
NORTHBOUND	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SOUTHBOUND	N/A	N/A	N/A	N/A	168	N/A	N/A

EAST-WEST CRITICAL VOLUMES 88
 NORTH-SOUTH CRITICAL VOLUMES 168

 THE SUM OF CRITICAL VOLUMES 256
 NUMBER OF CRITICAL CLEARANCE INTERVALS 0
 CMA VALUE 0.213
 LEVEL OF SERVICE A

Capacity assumed = 1200.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 9, SANTA MONICA BOULEVARD (N) & CLUB VIEW DRIVE
DATE: 6/13/2002 INITIALS: CT PERIOD: AM PEAK HOUR
CASE: FUTURE (2005) WITH PROJECT

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	0	50	38	0
EASTBOUND	0	0	0	0
NORTHBOUND	0	0	0	0
SOUTHBOUND	0	0	168	0

** NUMBER OF LANES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R SHARED	TOTAL LANES
	ONLY	SHARED		ONLY	SHARED		
WESTBOUND	0	0	0	1	0	0	1
EASTBOUND	0	0	0	0	0	0	0
NORTHBOUND	0	0	0	0	0	0	0
SOUTHBOUND	0	0	0	0	1	0	1

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R SHARED
	ONLY	SHARED		ONLY	SHARED	
WESTBOUND	N/A	N/A	N/A	88	N/A	N/A
EASTBOUND	N/A	N/A	N/A	N/A	N/A	N/A
NORTHBOUND	N/A	N/A	N/A	N/A	N/A	N/A
SOUTHBOUND	N/A	N/A	N/A	N/A	168	N/A

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EAST-WEST CRITICAL VOLUMES ..... 88
NORTH-SOUTH CRITICAL VOLUMES ..... 168
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THE SUM OF CRITICAL VOLUMES ..... 256

NUMBER OF CRITICAL CLEARANCE INTERVALS .... 0

CMA VALUE ..... 0.213

LEVEL OF SERVICE ..... A

```

Capacity assumed = 1200.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 9, SANTA MONICA BOULEVARD (N) & CLUB VIEW DRIVE
DATE: 6/21/2002 INITIALS: CT PERIOD: AM PEAK HOUR
CASE: FUTURE (2005) WITH PROJECT PLUS MITIGATION

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	0	50	38	0
EASTBOUND	0	0	0	0
NORTHBOUND	0	0	0	0
SOUTHBOUND	0	0	168	0

** NUMBER OF LANES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R	TOTAL
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED	LANES
WESTBOUND	0	0	0	1	0	0	1
EASTBOUND	0	0	0	0	0	0	0
NORTHBOUND	0	0	0	0	0	0	0
SOUTHBOUND	0	0	0	0	1	0	1

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED
WESTBOUND	N/A	N/A	N/A	88	N/A	N/A
EASTBOUND	N/A	N/A	N/A	N/A	N/A	N/A
NORTHBOUND	N/A	N/A	N/A	N/A	N/A	N/A
SOUTHBOUND	N/A	N/A	N/A	N/A	168	N/A

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EAST-WEST CRITICAL VOLUMES ..... 88
NORTH-SOUTH CRITICAL VOLUMES ..... 168
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THE SUM OF CRITICAL VOLUMES ..... 256

NUMBER OF CRITICAL CLEARANCE INTERVALS .... 0
CMA VALUE ..... 0.213
LEVEL OF SERVICE ..... A

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Capacity assumed = 1200.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 9, SANTA MONICA BOULEVARD (N) & CLUB VIEW DRIVE
DATE: 6/13/2002 INITIALS: CT PERIOD: PM PEAK HOUR
CASE: EXISTING (2001)

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	0	1997	227	81
EASTBOUND	5	1371	0	0
NORTHBOUND	0	0	0	0
SOUTHBOUND	162	0	7	2

** NUMBER OF LANES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R	TOTAL LANES
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED	
WESTBOUND	0	0	2	0	1	0	3
EASTBOUND	1	0	3	0	0	0	4
NORTHBOUND	0	0	0	0	0	0	0
SOUTHBOUND	1	0	0	0	1	0	2

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED
WESTBOUND	N/A	N/A	998	N/A	227	N/A
EASTBOUND	5	N/A	457	N/A	N/A	N/A
NORTHBOUND	N/A	N/A	N/A	N/A	N/A	N/A
SOUTHBOUND	162	N/A	N/A	N/A	7	N/A

EAST-WEST CRITICAL VOLUMES 1003
 NORTH-SOUTH CRITICAL VOLUMES 162

 THE SUM OF CRITICAL VOLUMES 1165

 NUMBER OF CRITICAL CLEARANCE INTERVALS 2

 CMA VALUE 0.707

 LEVEL OF SERVICE C

 * Includes CMA value decreased due to ATSAC Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 9, SANTA MONICA BOULEVARD (N) & CLUB VIEW DRIVE
 DATE: 6/13/2002 INITIALS: CT PERIOD: PM PEAK HOUR
 CASE: FUTURE (2005) WITHOUT PROJECT

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	0	150	224	0
EASTBOUND	0	0	0	0
NORTHBOUND	0	0	0	0
SOUTHBOUND	0	0	116	0

** NUMBER OF LANES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R		TOTAL LANES
	ONLY	SHARED		ONLY	SHARED	ONLY	SHARED	
WESTBOUND	0	0	0	1	0	0	0	1
EASTBOUND	0	0	0	0	0	0	0	0
NORTHBOUND	0	0	0	0	0	0	0	0
SOUTHBOUND	0	0	0	0	1	0	0	1

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R	
	ONLY	SHARED		ONLY	SHARED	ONLY	SHARED
WESTBOUND	N/A	N/A	N/A	374	N/A	N/A	N/A
EASTBOUND	N/A	N/A	N/A	N/A	N/A	N/A	N/A
NORTHBOUND	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SOUTHBOUND	N/A	N/A	N/A	N/A	116	N/A	N/A

EAST-WEST CRITICAL VOLUMES	374
NORTH-SOUTH CRITICAL VOLUMES	116

THE SUM OF CRITICAL VOLUMES	490
NUMBER OF CRITICAL CLEARANCE INTERVALS	0
CMA VALUE	0.408
LEVEL OF SERVICE	A

Capacity assumed = 1200.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 9, SANTA MONICA BOULEVARD (N) & CLUB VIEW DRIVE
DATE: 6/13/2002 INITIALS: CT PERIOD: PM PEAK HOUR
CASE: FUTURE (2005) WITH PROJECT

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	0	150	224	0
EASTBOUND	0	0	0	0
NORTHBOUND	0	0	0	0
SOUTHBOUND	0	0	116	0

** NUMBER OF LANES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R		TOTAL LANES
	ONLY	SHARED		SHARED	ONLY	SHARED	SHARED	
WESTBOUND	0	0	0	1	0	0	0	1
EASTBOUND	0	0	0	0	0	0	0	0
NORTHBOUND	0	0	0	0	0	0	0	0
SOUTHBOUND	0	0	0	0	1	0	0	1

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R	
	ONLY	SHARED		SHARED	ONLY	SHARED	SHARED
WESTBOUND	N/A	N/A	N/A	374	N/A	N/A	N/A
EASTBOUND	N/A	N/A	N/A	N/A	N/A	N/A	N/A
NORTHBOUND	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SOUTHBOUND	N/A	N/A	N/A	N/A	116	N/A	N/A

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EAST-WEST CRITICAL VOLUMES ..... 374
NORTH-SOUTH CRITICAL VOLUMES ..... 116
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THE SUM OF CRITICAL VOLUMES ..... 490

NUMBER OF CRITICAL CLEARANCE INTERVALS .... 0

CMA VALUE ..... 0.408

LEVEL OF SERVICE ..... A

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Capacity assumed = 1200.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 9, SANTA MONICA BOULEVARD (N) & CLUB VIEW DRIVE
 DATE: 6/21/2002 INITIALS: CT PERIOD: PM PEAK HOUR
 CASE: FUTURE (2005) WITH PROJECT PLUS MITIGATION

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	0	150	224	0
EASTBOUND	0	0	0	0
NORTHBOUND	0	0	0	0
SOUTHBOUND	0	0	116	0

** NUMBER OF LANES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R SHARED	TOTAL LANES
	ONLY	SHARED		ONLY	SHARED		
WESTBOUND	0	0	0	1	0	0	1
EASTBOUND	0	0	0	0	0	0	0
NORTHBOUND	0	0	0	0	0	0	0
SOUTHBOUND	0	0	0	0	1	0	1

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R	
	ONLY	SHARED		ONLY	SHARED	ONLY	SHARED
WESTBOUND	N/A	N/A	N/A	374	N/A	N/A	N/A
EASTBOUND	N/A	N/A	N/A	N/A	N/A	N/A	N/A
NORTHBOUND	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SOUTHBOUND	N/A	N/A	N/A	N/A	116	N/A	N/A

EAST-WEST CRITICAL VOLUMES 374
 NORTH-SOUTH CRITICAL VOLUMES 116

 THE SUM OF CRITICAL VOLUMES 490
 NUMBER OF CRITICAL CLEARANCE INTERVALS 0
 CMA VALUE 0.408
 LEVEL OF SERVICE A

Capacity assumed = 1200.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 10, SANTA MONICA BOULEVARD (N) & AVENUE OF THE STARS
DATE: 6/13/2002 INITIALS: CT PERIOD: AM PEAK HOUR
CASE: EXISTING (2001)

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	480	1349	0	0
EASTBOUND	0	1550	863	148
NORTHBOUND	269	0	0	127
SOUTHBOUND	0	0	0	0

** NUMBER OF LANES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R	TOTAL LANES
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED	
WESTBOUND	2	0	2	0	0	0	4
EASTBOUND	0	0	2	0	1	0	3
NORTHBOUND	2	0	0	0	2	0	4
SOUTHBOUND	0	0	0	0	0	0	0

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED
WESTBOUND	264	N/A	674	N/A	N/A	N/A
EASTBOUND	N/A	N/A	775	N/A	863	N/A
NORTHBOUND	148	N/A	N/A	N/A	0	N/A
SOUTHBOUND	N/A	N/A	N/A	N/A	N/A	N/A

EAST-WEST CRITICAL VOLUMES 1127
NORTH-SOUTH CRITICAL VOLUMES 148

THE SUM OF CRITICAL VOLUMES 1275

NUMBER OF CRITICAL CLEARANCE INTERVALS 3

CMA VALUE 0.825

LEVEL OF SERVICE D

* Includes CMA value decreased due to ATSAC Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 10, SANTA MONICA BOULEVARD (N) & AVENUE OF THE STARS
DATE: 6/13/2002 INITIALS: CT PERIOD: AM PEAK HOUR
CASE: FUTURE (2005) WITHOUT PROJECT

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	545	2396	0	0
EASTBOUND	0	2981	1376	164
NORTHBOUND	448	0	0	287
SOUTHBOUND	0	0	0	0

** NUMBER OF LANES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R	TOTAL
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED	LANES
WESTBOUND	2	0	3	0	0	0	5
EASTBOUND	1	0	4	0	1	0	6
NORTHBOUND	3	0	0	0	2	0	5
SOUTHBOUND	0	0	0	0	0	0	0

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED
WESTBOUND	300	N/A	799	N/A	N/A	N/A
EASTBOUND	0	N/A	745	N/A	1376	N/A
NORTHBOUND	164	N/A	N/A	N/A	0	N/A
SOUTHBOUND	N/A	N/A	N/A	N/A	N/A	N/A

EAST-WEST CRITICAL VOLUMES 1676
 NORTH-SOUTH CRITICAL VOLUMES 164

 THE SUM OF CRITICAL VOLUMES 1840

 NUMBER OF CRITICAL CLEARANCE INTERVALS 3

 CMA VALUE 1.191

 LEVEL OF SERVICE F

 * Includes CMA value decreased due to ATCS Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 10, SANTA MONICA BOULEVARD (N) & AVENUE OF THE STARS
DATE: 6/13/2002 INITIALS: CT PERIOD: AM PEAK HOUR
CASE: FUTURE (2005) WITH PROJECT

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	546	2380	0	0
EASTBOUND	0	2982	1403	156
NORTHBOUND	426	0	0	283
SOUTHBOUND	0	0	0	0

** NUMBER OF LANES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R	TOTAL
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED	LANES
WESTBOUND	2	0	3	0	0	0	5
EASTBOUND	1	0	4	0	1	0	6
NORTHBOUND	3	0	0	0	2	0	5
SOUTHBOUND	0	0	0	0	0	0	0

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED
WESTBOUND	300	N/A	793	N/A	N/A	N/A
EASTBOUND	0	N/A	746	N/A	1403	N/A
NORTHBOUND	156	N/A	N/A	N/A	0	N/A
SOUTHBOUND	N/A	N/A	N/A	N/A	N/A	N/A

EAST-WEST CRITICAL VOLUMES 1703
 NORTH-SOUTH CRITICAL VOLUMES 156

 THE SUM OF CRITICAL VOLUMES 1859

 NUMBER OF CRITICAL CLEARANCE INTERVALS 3

 CMA VALUE 1.205

 LEVEL OF SERVICE F

 * Includes CMA value decreased due to ATCS Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 10, SANTA MONICA BOULEVARD (N) & AVENUE OF THE STARS
DATE: 6/13/2002 INITIALS: CT PERIOD: AM PEAK HOUR
CASE: FUTURE (2005) WITH PROJECT PLUS MITIGATION

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	546	2379	0	0
EASTBOUND	0	2982	1395	156
NORTHBOUND	426	0	0	283
SOUTHBOUND	0	0	0	0

** NUMBER OF LANES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R	TOTAL
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED	LANES
WESTBOUND	2	0	3	0	0	0	5
EASTBOUND	1	0	4	0	1	0	6
NORTHBOUND	3	0	0	0	2	0	5
SOUTHBOUND	0	0	0	0	0	0	0

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED
WESTBOUND	300	N/A	793	N/A	N/A	N/A
EASTBOUND	0	N/A	746	N/A	1395	N/A
NORTHBOUND	156	N/A	N/A	N/A	0	N/A
SOUTHBOUND	N/A	N/A	N/A	N/A	N/A	N/A

EAST-WEST CRITICAL VOLUMES 1695
 NORTH-SOUTH CRITICAL VOLUMES 156

 THE SUM OF CRITICAL VOLUMES 1851

 NUMBER OF CRITICAL CLEARANCE INTERVALS 3

 CMA VALUE 1.199

 LEVEL OF SERVICE F

 * Includes CMA value decreased due to ATCS Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 10, SANTA MONICA BOULEVARD (N) & AVENUE OF THE STARS
DATE: 6/13/2002 INITIALS: CT PERIOD: PM PEAK HOUR
CASE: EXISTING (2001)

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	283	1497	0	0
EASTBOUND	0	1062	47	428
NORTHBOUND	778	0	180	108
SOUTHBOUND	0	0	0	0

** NUMBER OF LANES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R	TOTAL LANES
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED	
WESTBOUND	2	0	2	0	0	0	4
EASTBOUND	0	0	2	0	1	0	3
NORTHBOUND	2	0	0	0	2	0	4
SOUTHBOUND	0	0	0	0	0	0	0

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED
WESTBOUND	156	N/A	748	N/A	N/A	N/A
EASTBOUND	N/A	N/A	531	N/A	47	N/A
NORTHBOUND	428	N/A	N/A	N/A	90	N/A
SOUTHBOUND	N/A	N/A	N/A	N/A	N/A	N/A

EAST-WEST CRITICAL VOLUMES 748
 NORTH-SOUTH CRITICAL VOLUMES 428

 THE SUM OF CRITICAL VOLUMES 1176

 NUMBER OF CRITICAL CLEARANCE INTERVALS 3

 CMA VALUE 0.755

 LEVEL OF SERVICE C

 * Includes CMA value decreased due to ATSA Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 10, SANTA MONICA BOULEVARD (N) & AVENUE OF THE STARS
DATE: 6/13/2002 INITIALS: CT PERIOD: PM PEAK HOUR
CASE: FUTURE (2005) WITHOUT PROJECT

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	287	3193	0	0
EASTBOUND	0	2624	236	456
NORTHBOUND	1245	0	99	316
SOUTHBOUND	0	0	0	0

** NUMBER OF LANES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R	TOTAL LANES
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED	
WESTBOUND	2	0	3	0	0	0	5
EASTBOUND	1	0	4	0	1	0	6
NORTHBOUND	3	0	0	0	2	0	5
SOUTHBOUND	0	0	0	0	0	0	0

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED
WESTBOUND	158	N/A	1064	N/A	N/A	N/A
EASTBOUND	0	N/A	656	N/A	236	N/A
NORTHBOUND	456	N/A	N/A	N/A	50	N/A
SOUTHBOUND	N/A	N/A	N/A	N/A	N/A	N/A

EAST-WEST CRITICAL VOLUMES 1064
 NORTH-SOUTH CRITICAL VOLUMES 456

 THE SUM OF CRITICAL VOLUMES 1520

 NUMBER OF CRITICAL CLEARANCE INTERVALS 3

 CMA VALUE 0.967

 LEVEL OF SERVICE E

 * Includes CMA value decreased due to ATCS Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 10, SANTA MONICA BOULEVARD (N) & AVENUE OF THE STARS
DATE: 6/13/2002 INITIALS: CT PERIOD: PM PEAK HOUR
CASE: FUTURE (2005) WITH PROJECT

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	280	3174	0	0
EASTBOUND	0	2617	115	447
NORTHBOUND	1219	0	103	308
SOUTHBOUND	0	0	0	0

** NUMBER OF LANES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R	TOTAL LANES
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED	
WESTBOUND	2	0	3	0	0	0	5
EASTBOUND	1	0	4	0	1	0	6
NORTHBOUND	3	0	0	0	2	0	5
SOUTHBOUND	0	0	0	0	0	0	0

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED
WESTBOUND	154	N/A	1058	N/A	N/A	N/A
EASTBOUND	0	N/A	654	N/A	115	N/A
NORTHBOUND	447	N/A	N/A	N/A	52	N/A
SOUTHBOUND	N/A	N/A	N/A	N/A	N/A	N/A

EAST-WEST CRITICAL VOLUMES 1058
 NORTH-SOUTH CRITICAL VOLUMES 447

 THE SUM OF CRITICAL VOLUMES 1505

 NUMBER OF CRITICAL CLEARANCE INTERVALS 3

 CMA VALUE 0.956

 LEVEL OF SERVICE E

 * Includes CMA value decreased due to ATCS Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 10, SANTA MONICA BOULEVARD (N) & AVENUE OF THE STARS
DATE: 6/13/2002 INITIALS: CT PERIOD: PM PEAK HOUR
CASE: FUTURE (2005) WITH PROJECT PLUS MITIGATION

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	280	3170	0	0
EASTBOUND	0	2617	115	446
NORTHBOUND	1215	0	102	308
SOUTHBOUND	0	0	0	0

** NUMBER OF LANES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R	TOTAL LANES
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED	
WESTBOUND	2	0	3	0	0	0	5
EASTBOUND	1	0	4	0	1	0	6
NORTHBOUND	3	0	0	0	2	0	5
SOUTHBOUND	0	0	0	0	0	0	0

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED
WESTBOUND	154	N/A	1057	N/A	N/A	N/A
EASTBOUND	0	N/A	654	N/A	115	N/A
NORTHBOUND	446	N/A	N/A	N/A	51	N/A
SOUTHBOUND	N/A	N/A	N/A	N/A	N/A	N/A

EAST-WEST CRITICAL VOLUMES 1057
 NORTH-SOUTH CRITICAL VOLUMES 446

 THE SUM OF CRITICAL VOLUMES 1503

 NUMBER OF CRITICAL CLEARANCE INTERVALS 3

 CMA VALUE 0.955

 LEVEL OF SERVICE E

 * Includes CMA value decreased due to ATCS Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 11, SANTA MONICA BOULEVARD (S) & AVENUE OF THE STARS
DATE: 6/13/2002 INITIALS: CT PERIOD: AM PEAK HOUR
CASE: EXISTING (2001)

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	127	411	34	0
EASTBOUND	39	643	225	16
NORTHBOUND	32	334	160	64
SOUTHBOUND	162	1240	71	0

** NUMBER OF LANES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R	TOTAL LANES
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED	
WESTBOUND	1	0	1	1	0	0	3
EASTBOUND	1	0	3	0	1	0	5
NORTHBOUND	1	0	3	0	1	0	5
SOUTHBOUND	1	0	2	1	0	0	4

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED
WESTBOUND	127	N/A	222	222	N/A	N/A
EASTBOUND	39	N/A	214	N/A	225	N/A
NORTHBOUND	32	N/A	111	N/A	160	N/A
SOUTHBOUND	162	N/A	437	437	N/A	N/A

EAST-WEST CRITICAL VOLUMES 352
 NORTH-SOUTH CRITICAL VOLUMES 469

 THE SUM OF CRITICAL VOLUMES 821

 NUMBER OF CRITICAL CLEARANCE INTERVALS 3

 CMA VALUE 0.506

 LEVEL OF SERVICE A

 * Includes CMA value decreased due to ATSSAC Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 11, SANTA MONICA BOULEVARD (S) & AVENUE OF THE STARS
 DATE: 6/13/2002 INITIALS: CT PERIOD: AM PEAK HOUR
 CASE: FUTURE (2005) WITHOUT PROJECT

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	0	0	0	0
EASTBOUND	0	0	0	0
NORTHBOUND	0	0	0	0
SOUTHBOUND	0	0	0	0

** NUMBER OF LANES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R	TOTAL
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED	LANES
WESTBOUND	0	0	0	0	0	0	0
EASTBOUND	0	0	0	0	0	0	0
NORTHBOUND	0	0	0	0	0	0	0
SOUTHBOUND	0	0	0	0	0	0	0

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED
WESTBOUND	N/A	N/A	N/A	N/A	N/A	N/A
EASTBOUND	N/A	N/A	N/A	N/A	N/A	N/A
NORTHBOUND	N/A	N/A	N/A	N/A	N/A	N/A
SOUTHBOUND	N/A	N/A	N/A	N/A	N/A	N/A

EAST-WEST CRITICAL VOLUMES	0
NORTH-SOUTH CRITICAL VOLUMES	0

THE SUM OF CRITICAL VOLUMES	0
NUMBER OF CRITICAL CLEARANCE INTERVALS	0
CMA VALUE	-1
LEVEL OF SERVICE	NA

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 11, SANTA MONICA BOULEVARD (S) & AVENUE OF THE STARS
 DATE: 6/13/2002 INITIALS: CT PERIOD: AM PEAK HOUR
 CASE: FUTURE (2005) WITH PROJECT

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	0	0	0	0
EASTBOUND	0	0	0	0
NORTHBOUND	0	0	0	0
SOUTHBOUND	0	0	0	0

** NUMBER OF LANES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R	TOTAL
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED	LANES
WESTBOUND	0	0	0	0	0	0	0
EASTBOUND	0	0	0	0	0	0	0
NORTHBOUND	0	0	0	0	0	0	0
SOUTHBOUND	0	0	0	0	0	0	0

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED
WESTBOUND	N/A	N/A	N/A	N/A	N/A	N/A
EASTBOUND	N/A	N/A	N/A	N/A	N/A	N/A
NORTHBOUND	N/A	N/A	N/A	N/A	N/A	N/A
SOUTHBOUND	N/A	N/A	N/A	N/A	N/A	N/A

EAST-WEST CRITICAL VOLUMES	0
NORTH-SOUTH CRITICAL VOLUMES	0

THE SUM OF CRITICAL VOLUMES	0
NUMBER OF CRITICAL CLEARANCE INTERVALS	0
CMA VALUE	-1
LEVEL OF SERVICE	NA

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 11, SANTA MONICA BOULEVARD (S) & AVENUE OF THE STARS
DATE: 6/13/2002 INITIALS: CT PERIOD: PM PEAK HOUR
CASE: EXISTING (2001)

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	158	681	53	0
EASTBOUND	110	679	43	92
NORTHBOUND	38	894	114	126
SOUTHBOUND	100	487	152	0

** NUMBER OF LANES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R	TOTAL LANES
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED	
WESTBOUND	1	0	1	1	0	0	3
EASTBOUND	1	0	3	0	1	0	5
NORTHBOUND	1	0	3	0	1	0	5
SOUTHBOUND	1	0	2	1	0	0	4

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED
WESTBOUND	158	N/A	367	367	N/A	N/A
EASTBOUND	110	N/A	226	N/A	43	N/A
NORTHBOUND	38	N/A	298	N/A	114	N/A
SOUTHBOUND	100	N/A	213	213	N/A	N/A

EAST-WEST CRITICAL VOLUMES 477
 NORTH-SOUTH CRITICAL VOLUMES 398

 THE SUM OF CRITICAL VOLUMES 875

 NUMBER OF CRITICAL CLEARANCE INTERVALS 3

 CMA VALUE 0.544

 LEVEL OF SERVICE A

 * Includes CMA value decreased due to ATSAC Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 11, SANTA MONICA BOULEVARD (S) & AVENUE OF THE STARS
 DATE: 6/13/2002 INITIALS: CT PERIOD: PM PEAK HOUR
 CASE: FUTURE (2005) WITHOUT PROJECT

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	0	0	0	0
EASTBOUND	0	0	0	0
NORTHBOUND	0	0	0	0
SOUTHBOUND	0	0	0	0

** NUMBER OF LANES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R	TOTAL
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED	LANES
WESTBOUND	0	0	0	0	0	0	0
EASTBOUND	0	0	0	0	0	0	0
NORTHBOUND	0	0	0	0	0	0	0
SOUTHBOUND	0	0	0	0	0	0	0

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED
WESTBOUND	N/A	N/A	N/A	N/A	N/A	N/A
EASTBOUND	N/A	N/A	N/A	N/A	N/A	N/A
NORTHBOUND	N/A	N/A	N/A	N/A	N/A	N/A
SOUTHBOUND	N/A	N/A	N/A	N/A	N/A	N/A

EAST-WEST CRITICAL VOLUMES	0
NORTH-SOUTH CRITICAL VOLUMES	0

THE SUM OF CRITICAL VOLUMES	0
NUMBER OF CRITICAL CLEARANCE INTERVALS	0
CMA VALUE	-1
LEVEL OF SERVICE	NA

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 11, SANTA MONICA BOULEVARD (S) & AVENUE OF THE STARS
 DATE: 6/13/2002 INITIALS: CT PERIOD: PM PEAK HOUR
 CASE: FUTURE (2005) WITH PROJECT

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	0	0	0	0
EASTBOUND	0	0	0	0
NORTHBOUND	0	0	0	0
SOUTHBOUND	0	0	0	0

** NUMBER OF LANES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R	TOTAL
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED	LANES
WESTBOUND	0	0	0	0	0	0	0
EASTBOUND	0	0	0	0	0	0	0
NORTHBOUND	0	0	0	0	0	0	0
SOUTHBOUND	0	0	0	0	0	0	0

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED
WESTBOUND	N/A	N/A	N/A	N/A	N/A	N/A
EASTBOUND	N/A	N/A	N/A	N/A	N/A	N/A
NORTHBOUND	N/A	N/A	N/A	N/A	N/A	N/A
SOUTHBOUND	N/A	N/A	N/A	N/A	N/A	N/A

EAST-WEST CRITICAL VOLUMES	0
NORTH-SOUTH CRITICAL VOLUMES	0

THE SUM OF CRITICAL VOLUMES	0
NUMBER OF CRITICAL CLEARANCE INTERVALS	0
CMA VALUE	-1
LEVEL OF SERVICE	NA

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 12, SANTA MONICA BOULEVARD (N) & CENTURY PARK EAST
DATE: 6/13/2002 INITIALS: CT PERIOD: AM PEAK HOUR
CASE: EXISTING (2001)

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	867	1489	0	0
EASTBOUND	0	1095	459	78
NORTHBOUND	313	0	0	129
SOUTHBOUND	0	0	0	0

** NUMBER OF LANES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R	TOTAL LANES
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED	
WESTBOUND	2	0	2	0	0	0	4
EASTBOUND	0	0	2	0	1	0	3
NORTHBOUND	1	0	0	0	1	1	3
SOUTHBOUND	0	0	0	0	0	0	0

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED
WESTBOUND	477	N/A	744	N/A	N/A	N/A
EASTBOUND	N/A	N/A	548	N/A	459	N/A
NORTHBOUND	156	156	N/A	N/A	0	N/A
SOUTHBOUND	N/A	N/A	N/A	N/A	N/A	N/A

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EAST-WEST CRITICAL VOLUMES ..... 1025
NORTH-SOUTH CRITICAL VOLUMES ..... 156
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THE SUM OF CRITICAL VOLUMES ..... 1181

NUMBER OF CRITICAL CLEARANCE INTERVALS .... 3

CMA VALUE ..... 0.759

LEVEL OF SERVICE ..... C

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* Includes CMA value decreased due to ATSAC Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 12, SANTA MONICA BOULEVARD (N) & CENTURY PARK EAST
DATE: 6/13/2002 INITIALS: CT PERIOD: AM PEAK HOUR
CASE: FUTURE (2005) WITHOUT PROJECT

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	1234	2827	0	0
EASTBOUND	0	2348	603	214
NORTHBOUND	389	0	0	219
SOUTHBOUND	0	0	0	0

** NUMBER OF LANES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R	TOTAL LANES
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED	
WESTBOUND	2	0	4	0	0	0	6
EASTBOUND	1	0	4	0	1	0	6
NORTHBOUND	2	0	0	0	2	0	4
SOUTHBOUND	0	0	0	0	0	0	0

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED
WESTBOUND	679	N/A	707	N/A	N/A	N/A
EASTBOUND	0	N/A	587	N/A	603	N/A
NORTHBOUND	214	N/A	N/A	N/A	0	N/A
SOUTHBOUND	N/A	N/A	N/A	N/A	N/A	N/A

EAST-WEST CRITICAL VOLUMES 1282
 NORTH-SOUTH CRITICAL VOLUMES 214

 THE SUM OF CRITICAL VOLUMES 1496

 NUMBER OF CRITICAL CLEARANCE INTERVALS 3

 CMA VALUE 0.950

 LEVEL OF SERVICE E

 * Includes CMA value decreased due to ATCS Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 12, SANTA MONICA BOULEVARD (N) & CENTURY PARK EAST
DATE: 6/13/2002 INITIALS: CT PERIOD: AM PEAK HOUR
CASE: FUTURE (2005) WITH PROJECT

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	1246	2828	0	0
EASTBOUND	0	2344	613	205
NORTHBOUND	373	0	0	199
SOUTHBOUND	0	0	0	0

** NUMBER OF LANES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R	TOTAL
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED	LANES
WESTBOUND	2	0	4	0	0	0	6
EASTBOUND	1	0	4	0	1	0	6
NORTHBOUND	2	0	0	0	2	0	4
SOUTHBOUND	0	0	0	0	0	0	0

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED
WESTBOUND	685	N/A	707	N/A	N/A	N/A
EASTBOUND	0	N/A	586	N/A	613	N/A
NORTHBOUND	205	N/A	N/A	N/A	0	N/A
SOUTHBOUND	N/A	N/A	N/A	N/A	N/A	N/A

EAST-WEST CRITICAL VOLUMES 1298
 NORTH-SOUTH CRITICAL VOLUMES 205

 THE SUM OF CRITICAL VOLUMES 1503

 NUMBER OF CRITICAL CLEARANCE INTERVALS 3

 CMA VALUE 0.955

 LEVEL OF SERVICE E

 * Includes CMA value decreased due to ATCS Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 12, SANTA MONICA BOULEVARD (N) & CENTURY PARK EAST
 DATE: 6/21/2002 INITIALS: CT PERIOD: AM PEAK HOUR
 CASE: FUTURE (2005) WITH PROJECT PLUS MITIGATION

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	1241	2828	0	0
EASTBOUND	0	2344	613	205
NORTHBOUND	372	0	0	198
SOUTHBOUND	0	0	0	0

** NUMBER OF LANES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R	TOTAL
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED	LANES
WESTBOUND	2	0	4	0	0	0	6
EASTBOUND	1	0	4	0	1	0	6
NORTHBOUND	2	0	0	0	2	0	4
SOUTHBOUND	0	0	0	0	0	0	0

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED
WESTBOUND	683	N/A	707	N/A	N/A	N/A
EASTBOUND	0	N/A	586	N/A	613	N/A
NORTHBOUND	205	N/A	N/A	N/A	0	N/A
SOUTHBOUND	N/A	N/A	N/A	N/A	N/A	N/A

EAST-WEST CRITICAL VOLUMES 1296
 NORTH-SOUTH CRITICAL VOLUMES 205

 THE SUM OF CRITICAL VOLUMES 1501

 NUMBER OF CRITICAL CLEARANCE INTERVALS 3

 CMA VALUE 0.953

 LEVEL OF SERVICE E

 * Includes CMA value decreased due to ATCS Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 12, SANTA MONICA BOULEVARD (N) & CENTURY PARK EAST
DATE: 6/13/2002 INITIALS: CT PERIOD: PM PEAK HOUR
CASE: EXISTING (2001)

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	251	1276	0	0
EASTBOUND	0	1153	0	149
NORTHBOUND	542	0	464	69
SOUTHBOUND	0	0	0	0

** NUMBER OF LANES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R	TOTAL
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED	LANES
WESTBOUND	2	0	2	0	0	0	4
EASTBOUND	0	0	2	0	1	0	3
NORTHBOUND	1	0	0	0	1	1	3
SOUTHBOUND	0	0	0	0	0	0	0

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED
WESTBOUND	138	N/A	638	N/A	N/A	N/A
EASTBOUND	N/A	N/A	576	N/A	0	N/A
NORTHBOUND	335	N/A	N/A	N/A	335	335
SOUTHBOUND	N/A	N/A	N/A	N/A	N/A	N/A

EAST-WEST CRITICAL VOLUMES 714
 NORTH-SOUTH CRITICAL VOLUMES 335

 THE SUM OF CRITICAL VOLUMES 1049

 NUMBER OF CRITICAL CLEARANCE INTERVALS 3

 CMA VALUE 0.666

 LEVEL OF SERVICE B

 * Includes CMA value decreased due to ATSAC Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 12, SANTA MONICA BOULEVARD (N) & CENTURY PARK EAST
 DATE: 6/13/2002 INITIALS: CT PERIOD: PM PEAK HOUR
 CASE: FUTURE (2005) WITHOUT PROJECT

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	290	2838	0	0
EASTBOUND	0	2893	0	294
NORTHBOUND	845	0	524	320
SOUTHBOUND	0	0	0	0

** NUMBER OF LANES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R	TOTAL
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED	LANES
WESTBOUND	2	0	4	0	0	0	6
EASTBOUND	1	0	4	0	1	0	6
NORTHBOUND	2	0	0	0	2	0	4
SOUTHBOUND	0	0	0	0	0	0	0

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED
WESTBOUND	160	N/A	710	N/A	N/A	N/A
EASTBOUND	0	N/A	723	N/A	0	N/A
NORTHBOUND	465	N/A	N/A	N/A	262	N/A
SOUTHBOUND	N/A	N/A	N/A	N/A	N/A	N/A

EAST-WEST CRITICAL VOLUMES 883
 NORTH-SOUTH CRITICAL VOLUMES 465

 THE SUM OF CRITICAL VOLUMES 1348

 NUMBER OF CRITICAL CLEARANCE INTERVALS 3

 CMA VALUE 0.846

 LEVEL OF SERVICE D

 * Includes CMA value decreased due to ATCS Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 12, SANTA MONICA BOULEVARD (N) & CENTURY PARK EAST
DATE: 6/13/2002 INITIALS: CT PERIOD: PM PEAK HOUR
CASE: FUTURE (2005) WITH PROJECT

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	208	2831	0	0
EASTBOUND	0	2889	0	287
NORTHBOUND	826	0	592	228
SOUTHBOUND	0	0	0	0

** NUMBER OF LANES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R	TOTAL
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED	LANES
WESTBOUND	2	0	4	0	0	0	6
EASTBOUND	1	0	4	0	1	0	6
NORTHBOUND	2	0	0	0	2	0	4
SOUTHBOUND	0	0	0	0	0	0	0

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED
WESTBOUND	114	N/A	708	N/A	N/A	N/A
EASTBOUND	0	N/A	722	N/A	0	N/A
NORTHBOUND	454	N/A	N/A	N/A	296	N/A
SOUTHBOUND	N/A	N/A	N/A	N/A	N/A	N/A

EAST-WEST CRITICAL VOLUMES 836
 NORTH-SOUTH CRITICAL VOLUMES 454

 THE SUM OF CRITICAL VOLUMES 1290

 NUMBER OF CRITICAL CLEARANCE INTERVALS 3

 CMA VALUE 0.805

 LEVEL OF SERVICE D

 * Includes CMA value decreased due to ATCS Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 12, SANTA MONICA BOULEVARD (N) & CENTURY PARK EAST
 DATE: 6/21/2002 INITIALS: CT PERIOD: PM PEAK HOUR
 CASE: FUTURE (2005) WITH PROJECT PLUS MITIGATION

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	207	2831	0	0
EASTBOUND	0	2888	0	287
NORTHBOUND	822	0	588	228
SOUTHBOUND	0	0	0	0

** NUMBER OF LANES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R	TOTAL
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED	LANES
WESTBOUND	2	0	4	0	0	0	6
EASTBOUND	1	0	4	0	1	0	6
NORTHBOUND	2	0	0	0	2	0	4
SOUTHBOUND	0	0	0	0	0	0	0

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED
WESTBOUND	114	N/A	708	N/A	N/A	N/A
EASTBOUND	0	N/A	722	N/A	0	N/A
NORTHBOUND	452	N/A	N/A	N/A	294	N/A
SOUTHBOUND	N/A	N/A	N/A	N/A	N/A	N/A

EAST-WEST CRITICAL VOLUMES 836
 NORTH-SOUTH CRITICAL VOLUMES 452

 THE SUM OF CRITICAL VOLUMES 1288

 NUMBER OF CRITICAL CLEARANCE INTERVALS 3

 CMA VALUE 0.804

 LEVEL OF SERVICE D

 * Includes CMA value decreased due to ATCS Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 13, SANTA MONICA BOULEVARD (S) & CENTURY PARK EAST
DATE: 6/13/2002 INITIALS: CT PERIOD: AM PEAK HOUR
CASE: EXISTING (2001)

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	201	625	176	0
EASTBOUND	18	564	321	26
NORTHBOUND	52	260	108	100
SOUTHBOUND	180	1194	53	0

** NUMBER OF LANES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R	TOTAL
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED	LANES
WESTBOUND	1	0	1	1	0	0	3
EASTBOUND	1	0	3	0	1	0	5
NORTHBOUND	1	0	2	0	1	0	4
SOUTHBOUND	1	0	1	1	0	0	3

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED
WESTBOUND	201	N/A	400	400	N/A	N/A
EASTBOUND	18	N/A	188	N/A	321	N/A
NORTHBOUND	52	N/A	130	N/A	108	N/A
SOUTHBOUND	180	N/A	624	624	N/A	N/A

EAST-WEST CRITICAL VOLUMES 522
 NORTH-SOUTH CRITICAL VOLUMES 676

 THE SUM OF CRITICAL VOLUMES 1198

 NUMBER OF CRITICAL CLEARANCE INTERVALS 3

 CMA VALUE 0.771

 LEVEL OF SERVICE C

 * Includes CMA value decreased due to ATSAC Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 13, SANTA MONICA BOULEVARD (S) & CENTURY PARK EAST
 DATE: 6/13/2002 INITIALS: CT PERIOD: AM PEAK HOUR
 CASE: FUTURE (2005) WITHOUT PROJECT

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	0	0	0	0
EASTBOUND	0	0	0	0
NORTHBOUND	0	0	0	0
SOUTHBOUND	0	0	0	0

** NUMBER OF LANES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R	TOTAL
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED	LANES
WESTBOUND	0	0	0	0	0	0	0
EASTBOUND	0	0	0	0	0	0	0
NORTHBOUND	0	0	0	0	0	0	0
SOUTHBOUND	0	0	0	0	0	0	0

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED
WESTBOUND	N/A	N/A	N/A	N/A	N/A	N/A
EASTBOUND	N/A	N/A	N/A	N/A	N/A	N/A
NORTHBOUND	N/A	N/A	N/A	N/A	N/A	N/A
SOUTHBOUND	N/A	N/A	N/A	N/A	N/A	N/A

EAST-WEST CRITICAL VOLUMES	0
NORTH-SOUTH CRITICAL VOLUMES	0

THE SUM OF CRITICAL VOLUMES	0
NUMBER OF CRITICAL CLEARANCE INTERVALS	0
CMA VALUE	-1
LEVEL OF SERVICE	NA

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 13, SANTA MONICA BOULEVARD (S) & CENTURY PARK EAST
DATE: 6/13/2002 INITIALS: CT PERIOD: AM PEAK HOUR
CASE: FUTURE (2005) WITH PROJECT

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	0	0	0	0
EASTBOUND	0	0	0	0
NORTHBOUND	0	0	0	0
SOUTHBOUND	0	0	0	0

** NUMBER OF LANES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R	TOTAL
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED	LANES
WESTBOUND	0	0	0	0	0	0	0
EASTBOUND	0	0	0	0	0	0	0
NORTHBOUND	0	0	0	0	0	0	0
SOUTHBOUND	0	0	0	0	0	0	0

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED
WESTBOUND	N/A	N/A	N/A	N/A	N/A	N/A
EASTBOUND	N/A	N/A	N/A	N/A	N/A	N/A
NORTHBOUND	N/A	N/A	N/A	N/A	N/A	N/A
SOUTHBOUND	N/A	N/A	N/A	N/A	N/A	N/A

EAST-WEST CRITICAL VOLUMES	0
NORTH-SOUTH CRITICAL VOLUMES	0

THE SUM OF CRITICAL VOLUMES	0
NUMBER OF CRITICAL CLEARANCE INTERVALS	0
CMA VALUE	-1
LEVEL OF SERVICE	NA

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 13, SANTA MONICA BOULEVARD (S) & CENTURY PARK EAST
DATE: 6/13/2002 INITIALS: CT PERIOD: PM PEAK HOUR
CASE: EXISTING (2001)

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	123	671	143	0
EASTBOUND	75	910	0	132
NORTHBOUND	172	882	330	90
SOUTHBOUND	100	284	39	0

** NUMBER OF LANES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R	TOTAL LANES
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED	
WESTBOUND	1	0	1	1	0	0	3
EASTBOUND	1	0	3	0	1	0	5
NORTHBOUND	1	0	2	0	1	0	4
SOUTHBOUND	1	0	1	1	0	0	3

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED
WESTBOUND	123	N/A	407	407	N/A	N/A
EASTBOUND	75	N/A	303	N/A	0	N/A
NORTHBOUND	172	N/A	441	N/A	330	N/A
SOUTHBOUND	100	N/A	162	162	N/A	N/A

EAST-WEST CRITICAL VOLUMES 482
 NORTH-SOUTH CRITICAL VOLUMES 541

 THE SUM OF CRITICAL VOLUMES 1023

 NUMBER OF CRITICAL CLEARANCE INTERVALS 3

 CMA VALUE 0.648

 LEVEL OF SERVICE B

 * Includes CMA value decreased due to ATSAC Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 13, SANTA MONICA BOULEVARD (S) & CENTURY PARK EAST
 DATE: 6/13/2002 INITIALS: CT PERIOD: PM PEAK HOUR
 CASE: FUTURE (2005) WITHOUT PROJECT

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	0	0	0	0
EASTBOUND	0	0	0	0
NORTHBOUND	0	0	0	0
SOUTHBOUND	0	0	0	0

** NUMBER OF LANES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R	TOTAL
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED	LANES
WESTBOUND	0	0	0	0	0	0	0
EASTBOUND	0	0	0	0	0	0	0
NORTHBOUND	0	0	0	0	0	0	0
SOUTHBOUND	0	0	0	0	0	0	0

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED
WESTBOUND	N/A	N/A	N/A	N/A	N/A	N/A
EASTBOUND	N/A	N/A	N/A	N/A	N/A	N/A
NORTHBOUND	N/A	N/A	N/A	N/A	N/A	N/A
SOUTHBOUND	N/A	N/A	N/A	N/A	N/A	N/A

EAST-WEST CRITICAL VOLUMES	0
NORTH-SOUTH CRITICAL VOLUMES	0

THE SUM OF CRITICAL VOLUMES	0
NUMBER OF CRITICAL CLEARANCE INTERVALS	0
CMA VALUE	-1
LEVEL OF SERVICE	NA

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 13, SANTA MONICA BOULEVARD (S) & CENTURY PARK EAST
DATE: 6/13/2002 INITIALS: CT PERIOD: PM PEAK HOUR
CASE: FUTURE (2005) WITH PROJECT

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	0	0	0	0
EASTBOUND	0	0	0	0
NORTHBOUND	0	0	0	0
SOUTHBOUND	0	0	0	0

** NUMBER OF LANES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R	TOTAL
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED	LANES
WESTBOUND	0	0	0	0	0	0	0
EASTBOUND	0	0	0	0	0	0	0
NORTHBOUND	0	0	0	0	0	0	0
SOUTHBOUND	0	0	0	0	0	0	0

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED
WESTBOUND	N/A	N/A	N/A	N/A	N/A	N/A
EASTBOUND	N/A	N/A	N/A	N/A	N/A	N/A
NORTHBOUND	N/A	N/A	N/A	N/A	N/A	N/A
SOUTHBOUND	N/A	N/A	N/A	N/A	N/A	N/A

EAST-WEST CRITICAL VOLUMES	0
NORTH-SOUTH CRITICAL VOLUMES	0

THE SUM OF CRITICAL VOLUMES	0
NUMBER OF CRITICAL CLEARANCE INTERVALS	0
CMA VALUE	-1
LEVEL OF SERVICE	NA

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 14, SANTA MONICA BOULEVARD (N) & WILSHIRE BOULEVARD
DATE: 6/13/2002 INITIALS: CT PERIOD: AM PEAK HOUR
CASE: EXISTING (2001)

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	0	1671	225	275
EASTBOUND	0	800	0	157
NORTHBOUND	227	1361	8	0
SOUTHBOUND	611	1554	34	0

** NUMBER OF LANES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R		TOTAL LANES
	ONLY	SHARED		SHARED	ONLY	SHARED	SHARED	
WESTBOUND	0	0	2	1	1	0	4	
EASTBOUND	0	0	2	0	1	0	3	
NORTHBOUND	1	0	2	1	0	0	4	
SOUTHBOUND	1	1	1	1	0	0	4	

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R	
	ONLY	SHARED		SHARED	ONLY	SHARED	SHARED
WESTBOUND	N/A	N/A	557	N/A	225	N/A	N/A
EASTBOUND	N/A	N/A	400	N/A	0	N/A	N/A
NORTHBOUND	227	N/A	456	456	N/A	N/A	N/A
SOUTHBOUND	550	550	550	550	N/A	N/A	N/A

EAST-WEST CRITICAL VOLUMES 556
 NORTH-SOUTH CRITICAL VOLUMES 1006

 THE SUM OF CRITICAL VOLUMES 1562

 NUMBER OF CRITICAL CLEARANCE INTERVALS 3*

 CMA VALUE 1.096

 LEVEL OF SERVICE F

Northbound and Southbound approaches have opposed signal phases.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 14, SANTA MONICA BOULEVARD (N) & WILSHIRE BOULEVARD
DATE: 6/13/2002 INITIALS: CT PERIOD: AM PEAK HOUR
CASE: FUTURE (2005) WITHOUT PROJECT

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	0	2005	201	314
EASTBOUND	0	1017	0	219
NORTHBOUND	300	1498	9	0
SOUTHBOUND	683	1789	36	0

** NUMBER OF LANES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R		TOTAL LANES
	ONLY	SHARED		SHARED	ONLY	SHARED	SHARED	
WESTBOUND	0	0	2	1	1	0	4	
EASTBOUND	0	0	2	0	1	0	3	
NORTHBOUND	1	0	2	1	0	0	4	
SOUTHBOUND	1	1	1	1	0	0	4	

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R	
	ONLY	SHARED		SHARED	ONLY	SHARED	SHARED
WESTBOUND	N/A	N/A	668	N/A	201	N/A	N/A
EASTBOUND	N/A	N/A	508	N/A	0	N/A	N/A
NORTHBOUND	300	N/A	502	502	N/A	N/A	N/A
SOUTHBOUND	627	627	627	627	N/A	N/A	N/A

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EAST-WEST CRITICAL VOLUMES ..... 668
NORTH-SOUTH CRITICAL VOLUMES ..... 1129
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THE SUM OF CRITICAL VOLUMES ..... 1797

NUMBER OF CRITICAL CLEARANCE INTERVALS .... 3*

CMA VALUE ..... 1.261

LEVEL OF SERVICE ..... F

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Northbound and Southbound approaches have opposed signal phases.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 14, SANTA MONICA BOULEVARD (N) & WILSHIRE BOULEVARD
DATE: 6/13/2002 INITIALS: CT PERIOD: AM PEAK HOUR
CASE: FUTURE (2005) WITH PROJECT

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	0	2013	201	314
EASTBOUND	0	1003	0	219
NORTHBOUND	300	1498	10	0
SOUTHBOUND	683	1789	36	0

** NUMBER OF LANES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R		TOTAL LANES
	ONLY	SHARED		SHARED	ONLY	SHARED	SHARED	
WESTBOUND	0	0	2	1	1	0	0	4
EASTBOUND	0	0	2	0	1	0	0	3
NORTHBOUND	1	0	2	1	0	0	0	4
SOUTHBOUND	1	1	1	1	0	0	0	4

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R	
	ONLY	SHARED		SHARED	ONLY	SHARED	SHARED
WESTBOUND	N/A	N/A	671	N/A	201	N/A	N/A
EASTBOUND	N/A	N/A	502	N/A	0	N/A	N/A
NORTHBOUND	300	N/A	503	503	N/A	N/A	N/A
SOUTHBOUND	627	627	627	627	N/A	N/A	N/A

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EAST-WEST CRITICAL VOLUMES ..... 670
NORTH-SOUTH CRITICAL VOLUMES ..... 1130
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THE SUM OF CRITICAL VOLUMES ..... 1800

NUMBER OF CRITICAL CLEARANCE INTERVALS .... 3*

CMA VALUE ..... 1.263

LEVEL OF SERVICE ..... F

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Northbound and Southbound approaches have opposed signal phases.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 14, SANTA MONICA BOULEVARD (N) & WILSHIRE BOULEVARD
DATE: 6/21/2002 INITIALS: CT PERIOD: AM PEAK HOUR
CASE: FUTURE (2005) WITH PROJECT PLUS MITIGATION

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	0	2010	201	314
EASTBOUND	0	1002	0	219
NORTHBOUND	300	1498	10	0
SOUTHBOUND	683	1789	36	0

** NUMBER OF LANES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R	TOTAL LANES
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED	
WESTBOUND	0	0	2	1	1	0	4
EASTBOUND	0	0	2	0	1	0	3
NORTHBOUND	1	0	2	1	0	0	4
SOUTHBOUND	1	1	1	1	0	0	4

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED
WESTBOUND	N/A	N/A	670	N/A	201	N/A
EASTBOUND	N/A	N/A	501	N/A	0	N/A
NORTHBOUND	300	N/A	503	503	N/A	N/A
SOUTHBOUND	627	627	627	627	N/A	N/A

EAST-WEST CRITICAL VOLUMES 670
 NORTH-SOUTH CRITICAL VOLUMES 1130

 THE SUM OF CRITICAL VOLUMES 1800

 NUMBER OF CRITICAL CLEARANCE INTERVALS 3*

 CMA VALUE 1.263

 LEVEL OF SERVICE F

Northbound and Southbound approaches have opposed signal phases.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 14, SANTA MONICA BOULEVARD (N) & WILSHIRE BOULEVARD
DATE: 6/13/2002 INITIALS: CT PERIOD: PM PEAK HOUR
CASE: EXISTING (2001)

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	0	1157	526	251
EASTBOUND	0	1014	0	153
NORTHBOUND	197	1414	35	0
SOUTHBOUND	699	1283	26	0

** NUMBER OF LANES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R		TOTAL LANES
	ONLY	SHARED		SHARED	ONLY	SHARED	SHARED	
WESTBOUND	0	0	2	1	1	0	4	
EASTBOUND	0	0	2	0	1	0	3	
NORTHBOUND	1	0	2	1	0	0	4	
SOUTHBOUND	1	1	1	1	0	0	4	

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R	
	ONLY	SHARED		SHARED	ONLY	SHARED	SHARED
WESTBOUND	N/A	N/A	421	421	421	N/A	
EASTBOUND	N/A	N/A	507	N/A	0	N/A	
NORTHBOUND	197	N/A	483	483	N/A	N/A	
SOUTHBOUND	502	502	502	502	N/A	N/A	

EAST-WEST CRITICAL VOLUMES 506
 NORTH-SOUTH CRITICAL VOLUMES 985

 THE SUM OF CRITICAL VOLUMES 1491

 NUMBER OF CRITICAL CLEARANCE INTERVALS 3*

 CMA VALUE 1.046

 LEVEL OF SERVICE F

Northbound and Southbound approaches have opposed signal phases.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 14, SANTA MONICA BOULEVARD (N) & WILSHIRE BOULEVARD
DATE: 6/13/2002 INITIALS: CT PERIOD: PM PEAK HOUR
CASE: FUTURE (2005) WITHOUT PROJECT

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	0	1487	597	285
EASTBOUND	0	1365	0	223
NORTHBOUND	271	1730	45	0
SOUTHBOUND	751	1499	28	0

** NUMBER OF LANES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R		TOTAL LANES
	ONLY	SHARED		SHARED	ONLY	SHARED	SHARED	
WESTBOUND	0	0	2	1	1	0	4	
EASTBOUND	0	0	2	0	1	0	3	
NORTHBOUND	1	0	2	1	0	0	4	
SOUTHBOUND	1	1	1	1	0	0	4	

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R	
	ONLY	SHARED		SHARED	ONLY	SHARED	SHARED
WESTBOUND	N/A	N/A	521	521	521	N/A	N/A
EASTBOUND	N/A	N/A	682	N/A	0	N/A	N/A
NORTHBOUND	271	N/A	592	592	N/A	N/A	N/A
SOUTHBOUND	570	570	570	570	N/A	N/A	N/A

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EAST-WEST CRITICAL VOLUMES ..... 682
NORTH-SOUTH CRITICAL VOLUMES ..... 1162
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THE SUM OF CRITICAL VOLUMES ..... 1844

NUMBER OF CRITICAL CLEARANCE INTERVALS .... 3*

CMA VALUE ..... 1.294

LEVEL OF SERVICE ..... F

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Northbound and Southbound approaches have opposed signal phases.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 14, SANTA MONICA BOULEVARD (N) & WILSHIRE BOULEVARD
DATE: 6/13/2002 INITIALS: CT PERIOD: PM PEAK HOUR
CASE: FUTURE (2005) WITH PROJECT

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	0	1432	597	285
EASTBOUND	0	1348	0	223
NORTHBOUND	271	1730	45	0
SOUTHBOUND	751	1499	28	0

** NUMBER OF LANES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R		TOTAL LANES
	ONLY	SHARED		SHARED	ONLY	SHARED	SHARED	
WESTBOUND	0	0	2	1	1	0	4	
EASTBOUND	0	0	2	0	1	0	3	
NORTHBOUND	1	0	2	1	0	0	4	
SOUTHBOUND	1	1	1	1	0	0	4	

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R	
	ONLY	SHARED		SHARED	ONLY	SHARED	SHARED
WESTBOUND	N/A	N/A	507	507	507	N/A	N/A
EASTBOUND	N/A	N/A	674	N/A	0	N/A	N/A
NORTHBOUND	271	N/A	592	592	N/A	N/A	N/A
SOUTHBOUND	570	570	570	570	N/A	N/A	N/A

EAST-WEST CRITICAL VOLUMES 674
 NORTH-SOUTH CRITICAL VOLUMES 1162

 THE SUM OF CRITICAL VOLUMES 1836

 NUMBER OF CRITICAL CLEARANCE INTERVALS 3*

 CMA VALUE 1.288

 LEVEL OF SERVICE F

Northbound and Southbound approaches have opposed signal phases.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 14, SANTA MONICA BOULEVARD (N) & WILSHIRE BOULEVARD
DATE: 6/21/2002 INITIALS: CT PERIOD: PM PEAK HOUR
CASE: FUTURE (2005) WITH PROJECT PLUS MITIGATION

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	0	1432	597	285
EASTBOUND	0	1345	0	223
NORTHBOUND	271	1730	45	0
SOUTHBOUND	751	1499	28	0

** NUMBER OF LANES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R SHARED	TOTAL LANES
	ONLY	SHARED		SHARED	ONLY		
WESTBOUND	0	0	2	1	1	0	4
EASTBOUND	0	0	2	0	1	0	3
NORTHBOUND	1	0	2	1	0	0	4
SOUTHBOUND	1	1	1	1	0	0	4

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R SHARED
	ONLY	SHARED		SHARED	ONLY	
WESTBOUND	N/A	N/A	507	507	507	N/A
EASTBOUND	N/A	N/A	672	N/A	0	N/A
NORTHBOUND	271	N/A	592	592	N/A	N/A
SOUTHBOUND	570	570	570	570	N/A	N/A

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EAST-WEST CRITICAL VOLUMES ..... 672
NORTH-SOUTH CRITICAL VOLUMES ..... 1162
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THE SUM OF CRITICAL VOLUMES ..... 1834

NUMBER OF CRITICAL CLEARANCE INTERVALS .... 3*

CMA VALUE ..... 1.287

LEVEL OF SERVICE ..... F

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Northbound and Southbound approaches have opposed signal phases.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 15, SANTA MONICA BOULEVARD (S) & WILSHIRE BOULEVARD
DATE: 6/13/2002 INITIALS: CT PERIOD: AM PEAK HOUR
CASE: EXISTING (2001)

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	47	983	285	0
EASTBOUND	85	606	104	88
NORTHBOUND	177	1243	44	0
SOUTHBOUND	200	1362	107	0

** NUMBER OF LANES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R	TOTAL
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED	LANES
WESTBOUND	1	0	1	1	0	0	3
EASTBOUND	1	0	2	0	1	0	4
NORTHBOUND	1	0	2	1	0	0	4
SOUTHBOUND	0	1	1	1	0	0	3

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED
WESTBOUND	47	N/A	634	634	N/A	N/A
EASTBOUND	85	N/A	303	N/A	104	N/A
NORTHBOUND	177	N/A	429	429	N/A	N/A
SOUTHBOUND	200	N/A	734	734	N/A	N/A

EAST-WEST CRITICAL VOLUMES 719
 NORTH-SOUTH CRITICAL VOLUMES 911

 THE SUM OF CRITICAL VOLUMES 1630
 NUMBER OF CRITICAL CLEARANCE INTERVALS 3
 CMA VALUE 1.144
 LEVEL OF SERVICE F

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 15, SANTA MONICA BOULEVARD (S) & WILSHIRE BOULEVARD
 DATE: 6/13/2002 INITIALS: CT PERIOD: AM PEAK HOUR
 CASE: FUTURE (2005) WITHOUT PROJECT

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	50	1130	302	0
EASTBOUND	92	676	99	167
NORTHBOUND	334	1425	48	0
SOUTHBOUND	216	1602	134	0

** NUMBER OF LANES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R	TOTAL LANES
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED	
WESTBOUND	1	0	1	1	0	0	3
EASTBOUND	1	0	2	0	1	0	4
NORTHBOUND	1	0	2	1	0	0	4
SOUTHBOUND	0	1	1	1	0	0	3

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED
WESTBOUND	50	N/A	716	716	N/A	N/A
EASTBOUND	92	N/A	338	N/A	99	N/A
NORTHBOUND	334	N/A	491	491	N/A	N/A
SOUTHBOUND	216	N/A	868	868	N/A	N/A

EAST-WEST CRITICAL VOLUMES 808
 NORTH-SOUTH CRITICAL VOLUMES 1202

 THE SUM OF CRITICAL VOLUMES 2010

 NUMBER OF CRITICAL CLEARANCE INTERVALS 3

 CMA VALUE 1.411

 LEVEL OF SERVICE F

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 15, SANTA MONICA BOULEVARD (S) & WILSHIRE BOULEVARD
 DATE: 6/13/2002 INITIALS: CT PERIOD: AM PEAK HOUR
 CASE: FUTURE (2005) WITH PROJECT

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	50	1131	302	0
EASTBOUND	92	674	90	169
NORTHBOUND	338	1425	48	0
SOUTHBOUND	216	1602	134	0

** NUMBER OF LANES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R SHARED	TOTAL LANES
	ONLY	SHARED		SHARED	ONLY		
WESTBOUND	1	0	1	1	0	0	3
EASTBOUND	1	0	2	0	1	0	4
NORTHBOUND	1	0	2	1	0	0	4
SOUTHBOUND	0	1	1	1	0	0	3

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R SHARED
	ONLY	SHARED		SHARED	ONLY	
WESTBOUND	50	N/A	716	716	N/A	N/A
EASTBOUND	92	N/A	337	N/A	90	N/A
NORTHBOUND	338	N/A	491	491	N/A	N/A
SOUTHBOUND	216	N/A	868	868	N/A	N/A

EAST-WEST CRITICAL VOLUMES 808
 NORTH-SOUTH CRITICAL VOLUMES 1206

 THE SUM OF CRITICAL VOLUMES 2014

 NUMBER OF CRITICAL CLEARANCE INTERVALS 3

 CMA VALUE 1.413

 LEVEL OF SERVICE F

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 15, SANTA MONICA BOULEVARD (S) & WILSHIRE BOULEVARD
 DATE: 6/21/2002 INITIALS: CT PERIOD: AM PEAK HOUR
 CASE: FUTURE (2005) WITH PROJECT PLUS MITIGATION

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	50	1131	302	0
EASTBOUND	92	674	91	168
NORTHBOUND	336	1425	48	0
SOUTHBOUND	216	1602	134	0

** NUMBER OF LANES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R	TOTAL LANES
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED	
WESTBOUND	1	0	1	1	0	0	3
EASTBOUND	1	0	2	0	1	0	4
NORTHBOUND	1	0	2	1	0	0	4
SOUTHBOUND	0	1	1	1	0	0	3

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED
WESTBOUND	50	N/A	716	716	N/A	N/A
EASTBOUND	92	N/A	337	N/A	91	N/A
NORTHBOUND	336	N/A	491	491	N/A	N/A
SOUTHBOUND	216	N/A	868	868	N/A	N/A

EAST-WEST CRITICAL VOLUMES 808
 NORTH-SOUTH CRITICAL VOLUMES 1204

 THE SUM OF CRITICAL VOLUMES 2012

 NUMBER OF CRITICAL CLEARANCE INTERVALS 3

 CMA VALUE 1.412

 LEVEL OF SERVICE F

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 15, SANTA MONICA BOULEVARD (S) & WILSHIRE BOULEVARD
DATE: 6/13/2002 INITIALS: CT PERIOD: PM PEAK HOUR
CASE: EXISTING (2001)

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	35	572	284	0
EASTBOUND	94	950	193	120
NORTHBOUND	240	1268	68	0
SOUTHBOUND	161	1214	45	0

** NUMBER OF LANES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R	TOTAL LANES
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED	
WESTBOUND	1	0	1	1	0	0	3
EASTBOUND	1	0	2	0	1	0	4
NORTHBOUND	1	0	2	1	0	0	4
SOUTHBOUND	0	1	1	1	0	0	3

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED
WESTBOUND	35	N/A	428	428	N/A	N/A
EASTBOUND	94	N/A	475	N/A	193	N/A
NORTHBOUND	240	N/A	445	445	N/A	N/A
SOUTHBOUND	161	N/A	630	630	N/A	N/A

EAST-WEST CRITICAL VOLUMES	522
NORTH-SOUTH CRITICAL VOLUMES	870

THE SUM OF CRITICAL VOLUMES	1392
NUMBER OF CRITICAL CLEARANCE INTERVALS	3
CMA VALUE	0.977
LEVEL OF SERVICE	E

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 15, SANTA MONICA BOULEVARD (S) & WILSHIRE BOULEVARD
 DATE: 6/13/2002 INITIALS: CT PERIOD: PM PEAK HOUR
 CASE: FUTURE (2005) WITHOUT PROJECT

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	38	650	310	0
EASTBOUND	129	1095	315	170
NORTHBOUND	340	1586	72	0
SOUTHBOUND	177	1464	51	0

** NUMBER OF LANES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R	TOTAL LANES
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED	
WESTBOUND	1	0	1	1	0	0	3
EASTBOUND	1	0	2	0	1	0	4
NORTHBOUND	1	0	2	1	0	0	4
SOUTHBOUND	0	1	1	1	0	0	3

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED
WESTBOUND	38	N/A	480	480	N/A	N/A
EASTBOUND	129	N/A	548	N/A	315	N/A
NORTHBOUND	340	N/A	553	553	N/A	N/A
SOUTHBOUND	177	N/A	758	758	N/A	N/A

EAST-WEST CRITICAL VOLUMES 609
 NORTH-SOUTH CRITICAL VOLUMES 1098

 THE SUM OF CRITICAL VOLUMES 1707

 NUMBER OF CRITICAL CLEARANCE INTERVALS 3

 CMA VALUE 1.198

 LEVEL OF SERVICE F

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 15, SANTA MONICA BOULEVARD (S) & WILSHIRE BOULEVARD
 DATE: 6/13/2002 INITIALS: CT PERIOD: PM PEAK HOUR
 CASE: FUTURE (2005) WITH PROJECT

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	38	643	310	0
EASTBOUND	129	1093	320	156
NORTHBOUND	313	1586	72	0
SOUTHBOUND	177	1464	51	0

** NUMBER OF LANES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R	TOTAL LANES
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED	
WESTBOUND	1	0	1	1	0	0	3
EASTBOUND	1	0	2	0	1	0	4
NORTHBOUND	1	0	2	1	0	0	4
SOUTHBOUND	0	1	1	1	0	0	3

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED
WESTBOUND	38	N/A	476	476	N/A	N/A
EASTBOUND	129	N/A	546	N/A	320	N/A
NORTHBOUND	313	N/A	553	553	N/A	N/A
SOUTHBOUND	177	N/A	758	758	N/A	N/A

EAST-WEST CRITICAL VOLUMES 605
 NORTH-SOUTH CRITICAL VOLUMES 1071

 THE SUM OF CRITICAL VOLUMES 1676

 NUMBER OF CRITICAL CLEARANCE INTERVALS 3

 CMA VALUE 1.176

 LEVEL OF SERVICE F

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 15, SANTA MONICA BOULEVARD (S) & WILSHIRE BOULEVARD
 DATE: 6/21/2002 INITIALS: CT PERIOD: PM PEAK HOUR
 CASE: FUTURE (2005) WITH PROJECT PLUS MITIGATION

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	38	643	310	0
EASTBOUND	129	1092	319	156
NORTHBOUND	312	1586	72	0
SOUTHBOUND	177	1464	51	0

** NUMBER OF LANES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R	TOTAL
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED	LANES
WESTBOUND	1	0	1	1	0	0	3
EASTBOUND	1	0	2	0	1	0	4
NORTHBOUND	1	0	2	1	0	0	4
SOUTHBOUND	0	1	1	1	0	0	3

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED
WESTBOUND	38	N/A	476	476	N/A	N/A
EASTBOUND	129	N/A	546	N/A	319	N/A
NORTHBOUND	312	N/A	553	553	N/A	N/A
SOUTHBOUND	177	N/A	758	758	N/A	N/A

EAST-WEST CRITICAL VOLUMES 605
 NORTH-SOUTH CRITICAL VOLUMES 1070

 THE SUM OF CRITICAL VOLUMES 1675

NUMBER OF CRITICAL CLEARANCE INTERVALS 3

CMA VALUE 1.175

LEVEL OF SERVICE F

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 16, CONSTELLATION BOULEVARD & CENTURY PARK WEST
 DATE: 6/13/2002 INITIALS: CT PERIOD: AM PEAK HOUR
 CASE: EXISTING (2001)

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	41	0	31	56
EASTBOUND	0	0	0	0
NORTHBOUND	0	201	333	23
SOUTHBOUND	111	178	0	0

** NUMBER OF LANES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R	TOTAL
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED	LANES
WESTBOUND	2	0	0	0	2	0	4
EASTBOUND	0	0	0	0	0	0	0
NORTHBOUND	0	0	2	0	1	0	3
SOUTHBOUND	1	0	3	0	0	0	4

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED
WESTBOUND	23	N/A	N/A	N/A	16	N/A
EASTBOUND	N/A	N/A	N/A	N/A	N/A	N/A
NORTHBOUND	N/A	N/A	100	N/A	333	N/A
SOUTHBOUND	111	N/A	59	N/A	N/A	N/A

EAST-WEST CRITICAL VOLUMES 23
 NORTH-SOUTH CRITICAL VOLUMES 444

 THE SUM OF CRITICAL VOLUMES 467

 NUMBER OF CRITICAL CLEARANCE INTERVALS 2

 CMA VALUE 0.265

 LEVEL OF SERVICE A

 * Includes CMA value decreased due to ATSAC Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 16, CONSTELLATION BOULEVARD & CENTURY PARK WEST
DATE: 6/13/2002 INITIALS: CT PERIOD: AM PEAK HOUR
CASE: FUTURE (2005) WITHOUT PROJECT

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	178	0	0	102
EASTBOUND	0	0	0	0
NORTHBOUND	0	241	493	98
SOUTHBOUND	240	340	0	0

** NUMBER OF LANES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R	TOTAL
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED	LANES
WESTBOUND	2	0	0	0	2	0	4
EASTBOUND	0	0	0	0	0	0	0
NORTHBOUND	0	0	2	0	1	0	3
SOUTHBOUND	1	0	3	0	0	0	4

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED
WESTBOUND	98	N/A	N/A	N/A	0	N/A
EASTBOUND	N/A	N/A	N/A	N/A	N/A	N/A
NORTHBOUND	N/A	N/A	120	N/A	493	N/A
SOUTHBOUND	240	N/A	113	N/A	N/A	N/A

EAST-WEST CRITICAL VOLUMES 98
 NORTH-SOUTH CRITICAL VOLUMES 733

 THE SUM OF CRITICAL VOLUMES 831

 NUMBER OF CRITICAL CLEARANCE INTERVALS 3

 CMA VALUE 0.483

 LEVEL OF SERVICE A

 * Includes CMA value decreased due to ATCS Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 16, CONSTELLATION BOULEVARD & CENTURY PARK WEST
DATE: 6/13/2002 INITIALS: CT PERIOD: AM PEAK HOUR
CASE: FUTURE (2005) WITH PROJECT

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	174	0	0	91
EASTBOUND	0	0	0	0
NORTHBOUND	0	241	511	96
SOUTHBOUND	247	340	0	0

** NUMBER OF LANES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R	TOTAL LANES
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED	
WESTBOUND	2	0	0	0	2	0	4
EASTBOUND	0	0	0	0	0	0	0
NORTHBOUND	0	0	2	0	1	0	3
SOUTHBOUND	1	0	3	0	0	0	4

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED
WESTBOUND	96	N/A	N/A	N/A	0	N/A
EASTBOUND	N/A	N/A	N/A	N/A	N/A	N/A
NORTHBOUND	N/A	N/A	120	N/A	511	N/A
SOUTHBOUND	247	N/A	113	N/A	N/A	N/A

EAST-WEST CRITICAL VOLUMES 96
 NORTH-SOUTH CRITICAL VOLUMES 758

 THE SUM OF CRITICAL VOLUMES 854

 NUMBER OF CRITICAL CLEARANCE INTERVALS 3

 CMA VALUE 0.499

 LEVEL OF SERVICE A

 * Includes CMA value decreased due to ATCS Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 16, CONSTELLATION BOULEVARD & CENTURY PARK WEST
 DATE: 6/21/2002 INITIALS: CT PERIOD: AM PEAK HOUR
 CASE: FUTURE (2005) WITH PROJECT PLUS MITIGATION

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	174	0	0	91
EASTBOUND	0	0	0	0
NORTHBOUND	0	241	505	96
SOUTHBOUND	244	340	0	0

** NUMBER OF LANES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R	TOTAL
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED	LANES
WESTBOUND	2	0	0	0	2	0	4
EASTBOUND	0	0	0	0	0	0	0
NORTHBOUND	0	0	2	0	1	0	3
SOUTHBOUND	1	0	3	0	0	0	4

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED
WESTBOUND	96	N/A	N/A	N/A	0	N/A
EASTBOUND	N/A	N/A	N/A	N/A	N/A	N/A
NORTHBOUND	N/A	N/A	120	N/A	505	N/A
SOUTHBOUND	244	N/A	113	N/A	N/A	N/A

EAST-WEST CRITICAL VOLUMES 96
 NORTH-SOUTH CRITICAL VOLUMES 749

 THE SUM OF CRITICAL VOLUMES 845

 NUMBER OF CRITICAL CLEARANCE INTERVALS 3

 CMA VALUE 0.493

 LEVEL OF SERVICE A

 * Includes CMA value decreased due to ATCS Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 16, CONSTELLATION BOULEVARD & CENTURY PARK WEST
DATE: 6/13/2002 INITIALS: CT PERIOD: PM PEAK HOUR
CASE: EXISTING (2001)

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	560	0	255	28
EASTBOUND	0	0	0	0
NORTHBOUND	0	193	0	122
SOUTHBOUND	55	266	0	0

** NUMBER OF LANES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R	TOTAL
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED	LANES
WESTBOUND	2	0	0	0	2	0	4
EASTBOUND	0	0	0	0	0	0	0
NORTHBOUND	0	0	2	0	1	0	3
SOUTHBOUND	1	0	3	0	0	0	4

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED
WESTBOUND	308	N/A	N/A	N/A	128	N/A
EASTBOUND	N/A	N/A	N/A	N/A	N/A	N/A
NORTHBOUND	N/A	N/A	96	N/A	0	N/A
SOUTHBOUND	55	N/A	89	N/A	N/A	N/A

EAST-WEST CRITICAL VOLUMES 308
 NORTH-SOUTH CRITICAL VOLUMES 151

 THE SUM OF CRITICAL VOLUMES 459

 NUMBER OF CRITICAL CLEARANCE INTERVALS 2

 CMA VALUE 0.260

 LEVEL OF SERVICE A

 * Includes CMA value decreased due to ATSAC Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 16, CONSTELLATION BOULEVARD & CENTURY PARK WEST
DATE: 6/13/2002 INITIALS: CT PERIOD: PM PEAK HOUR
CASE: FUTURE (2005) WITHOUT PROJECT

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	833	0	348	48
EASTBOUND	0	0	0	0
NORTHBOUND	0	347	0	196
SOUTHBOUND	96	337	0	0

** NUMBER OF LANES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R	TOTAL LANES
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED	
WESTBOUND	2	0	0	0	2	0	4
EASTBOUND	0	0	0	0	0	0	0
NORTHBOUND	0	0	2	0	1	0	3
SOUTHBOUND	1	0	3	0	0	0	4

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED
WESTBOUND	458	N/A	N/A	N/A	174	N/A
EASTBOUND	N/A	N/A	N/A	N/A	N/A	N/A
NORTHBOUND	N/A	N/A	174	N/A	0	N/A
SOUTHBOUND	96	N/A	112	N/A	N/A	N/A

EAST-WEST CRITICAL VOLUMES 458
 NORTH-SOUTH CRITICAL VOLUMES 270

 THE SUM OF CRITICAL VOLUMES 728

 NUMBER OF CRITICAL CLEARANCE INTERVALS 3

 CMA VALUE 0.411

 LEVEL OF SERVICE A

 * Includes CMA value decreased due to ATCS Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 16, CONSTELLATION BOULEVARD & CENTURY PARK WEST
DATE: 6/13/2002 INITIALS: CT PERIOD: PM PEAK HOUR
CASE: FUTURE (2005) WITH PROJECT

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	829	0	359	24
EASTBOUND	0	0	0	0
NORTHBOUND	0	347	0	87
SOUTHBOUND	48	337	0	0

** NUMBER OF LANES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R		TOTAL LANES
	ONLY	SHARED		ONLY	SHARED	ONLY	SHARED	
WESTBOUND	2	0	0	0	2	0	4	
EASTBOUND	0	0	0	0	0	0	0	
NORTHBOUND	0	0	2	0	1	0	3	
SOUTHBOUND	1	0	3	0	0	0	4	

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R	
	ONLY	SHARED		ONLY	SHARED	ONLY	SHARED
WESTBOUND	456	N/A	N/A	N/A	180	N/A	
EASTBOUND	N/A	N/A	N/A	N/A	N/A	N/A	
NORTHBOUND	N/A	N/A	174	N/A	0	N/A	
SOUTHBOUND	48	N/A	112	N/A	N/A	N/A	

EAST-WEST CRITICAL VOLUMES 456
 NORTH-SOUTH CRITICAL VOLUMES 222

 THE SUM OF CRITICAL VOLUMES 678

 NUMBER OF CRITICAL CLEARANCE INTERVALS 3

 CMA VALUE 0.381

 LEVEL OF SERVICE A

 * Includes CMA value decreased due to ATCS Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 16, CONSTELLATION BOULEVARD & CENTURY PARK WEST
DATE: 6/21/2002 INITIALS: CT PERIOD: PM PEAK HOUR
CASE: FUTURE (2005) WITH PROJECT PLUS MITIGATION

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	828	0	357	24
EASTBOUND	0	0	0	0
NORTHBOUND	0	347	0	86
SOUTHBOUND	48	337	0	0

** NUMBER OF LANES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R	TOTAL LANES
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED	
WESTBOUND	2	0	0	0	2	0	4
EASTBOUND	0	0	0	0	0	0	0
NORTHBOUND	0	0	2	0	1	0	3
SOUTHBOUND	1	0	3	0	0	0	4

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED
WESTBOUND	455	N/A	N/A	N/A	178	N/A
EASTBOUND	N/A	N/A	N/A	N/A	N/A	N/A
NORTHBOUND	N/A	N/A	174	N/A	0	N/A
SOUTHBOUND	48	N/A	112	N/A	N/A	N/A

EAST-WEST CRITICAL VOLUMES 455
 NORTH-SOUTH CRITICAL VOLUMES 222

 THE SUM OF CRITICAL VOLUMES 677

 NUMBER OF CRITICAL CLEARANCE INTERVALS 3

 CMA VALUE 0.380

 LEVEL OF SERVICE A

 * Includes CMA value decreased due to ATCS Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 17, CONSTELLATION BOULEVARD & AVENUE OF THE STARS
DATE: 6/13/2002 INITIALS: CT PERIOD: AM PEAK HOUR
CASE: EXISTING (2001)

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	44	74	37	74
EASTBOUND	75	291	0	42
NORTHBOUND	221	951	594	22
SOUTHBOUND	431	521	162	0

** NUMBER OF LANES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R	TOTAL LANES
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED	
WESTBOUND	1	0	2	1	0	0	4
EASTBOUND	1	0	2	0	1	0	4
NORTHBOUND	2	0	2	0	1	0	5
SOUTHBOUND	2	0	2	1	0	0	5

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED
WESTBOUND	44	N/A	37	37	N/A	N/A
EASTBOUND	75	N/A	146	N/A	0	N/A
NORTHBOUND	122	N/A	476	N/A	594	N/A
SOUTHBOUND	237	N/A	228	228	N/A	N/A

EAST-WEST CRITICAL VOLUMES 190
 NORTH-SOUTH CRITICAL VOLUMES 831

 THE SUM OF CRITICAL VOLUMES 1021

 NUMBER OF CRITICAL CLEARANCE INTERVALS 3

 CMA VALUE 0.646

 LEVEL OF SERVICE B

 * Includes CMA value decreased due to ATSAC Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 17, CONSTELLATION BOULEVARD & AVENUE OF THE STARS
DATE: 6/21/2002 INITIALS: CT PERIOD: AM PEAK HOUR
CASE: FUTURE (2005) WITHOUT PROJECT

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	80	101	0	138
EASTBOUND	98	487	0	65
NORTHBOUND	370	1070	742	40
SOUTHBOUND	577	673	302	0

** NUMBER OF LANES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R	TOTAL
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED	LANES
WESTBOUND	1	0	2	0	1	0	4
EASTBOUND	1	0	2	0	1	0	4
NORTHBOUND	2	0	2	1	1	0	6
SOUTHBOUND	2	0	2	1	0	0	5

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED
WESTBOUND	80	N/A	50	N/A	0	N/A
EASTBOUND	98	N/A	244	N/A	0	N/A
NORTHBOUND	204	N/A	453	453	453	N/A
SOUTHBOUND	317	N/A	325	325	N/A	N/A

EAST-WEST CRITICAL VOLUMES 324
 NORTH-SOUTH CRITICAL VOLUMES 770

 THE SUM OF CRITICAL VOLUMES 1094

 NUMBER OF CRITICAL CLEARANCE INTERVALS 4

 CMA VALUE 0.696

 LEVEL OF SERVICE B

 * Includes CMA value decreased due to ATCS Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 17, CONSTELLATION BOULEVARD & AVENUE OF THE STARS
DATE: 6/21/2002 INITIALS: CT PERIOD: AM PEAK HOUR
CASE: FUTURE (2005) WITH PROJECT

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	78	94	0	136
EASTBOUND	98	510	0	65
NORTHBOUND	363	1046	768	39
SOUTHBOUND	595	675	302	0

** NUMBER OF LANES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R	TOTAL
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED	LANES
WESTBOUND	1	0	2	0	1	0	4
EASTBOUND	1	0	2	0	1	0	4
NORTHBOUND	2	0	2	1	1	0	6
SOUTHBOUND	2	0	2	1	0	0	5

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED
WESTBOUND	78	N/A	47	N/A	0	N/A
EASTBOUND	98	N/A	255	N/A	0	N/A
NORTHBOUND	200	N/A	454	454	454	N/A
SOUTHBOUND	327	N/A	326	326	N/A	N/A

EAST-WEST CRITICAL VOLUMES 333
 NORTH-SOUTH CRITICAL VOLUMES 781

 THE SUM OF CRITICAL VOLUMES 1114

 NUMBER OF CRITICAL CLEARANCE INTERVALS 4

 CMA VALUE 0.710

 LEVEL OF SERVICE C

 * Includes CMA value decreased due to ATCS Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 17, CONSTELLATION BOULEVARD & AVENUE OF THE STARS
 DATE: 6/21/2002 INITIALS: CT PERIOD: AM PEAK HOUR
 CASE: FUTURE (2005) WITH PROJECT PLUS MITIGATION

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	78	94	0	136
EASTBOUND	98	501	0	65
NORTHBOUND	363	1046	758	39
SOUTHBOUND	588	674	302	0

** NUMBER OF LANES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R	TOTAL
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED	LANES
WESTBOUND	1	0	2	0	1	0	4
EASTBOUND	1	0	2	0	1	0	4
NORTHBOUND	2	0	2	1	1	0	6
SOUTHBOUND	2	0	2	1	0	0	5

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED
WESTBOUND	78	N/A	47	N/A	0	N/A
EASTBOUND	98	N/A	250	N/A	0	N/A
NORTHBOUND	200	N/A	451	451	451	N/A
SOUTHBOUND	323	N/A	325	325	N/A	N/A

EAST-WEST CRITICAL VOLUMES 328
 NORTH-SOUTH CRITICAL VOLUMES 774

 THE SUM OF CRITICAL VOLUMES 1102

 NUMBER OF CRITICAL CLEARANCE INTERVALS 4

 CMA VALUE 0.701

 LEVEL OF SERVICE C

 * Includes CMA value decreased due to ATCS Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 17, CONSTELLATION BOULEVARD & AVENUE OF THE STARS
DATE: 6/13/2002 INITIALS: CT PERIOD: PM PEAK HOUR
CASE: EXISTING (2001)

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	170	388	194	43
EASTBOUND	126	206	178	68
NORTHBOUND	245	707	166	85
SOUTHBOUND	208	920	227	0

** NUMBER OF LANES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R	TOTAL LANES
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED	
WESTBOUND	1	0	2	1	0	0	4
EASTBOUND	1	0	2	0	1	0	4
NORTHBOUND	2	0	2	0	1	0	5
SOUTHBOUND	2	0	2	1	0	0	5

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED
WESTBOUND	170	N/A	194	194	N/A	N/A
EASTBOUND	126	N/A	103	N/A	178	N/A
NORTHBOUND	135	N/A	354	N/A	166	N/A
SOUTHBOUND	114	N/A	382	382	N/A	N/A

EAST-WEST CRITICAL VOLUMES 348
 NORTH-SOUTH CRITICAL VOLUMES 517

 THE SUM OF CRITICAL VOLUMES 865

 NUMBER OF CRITICAL CLEARANCE INTERVALS 3

 CMA VALUE 0.537

 LEVEL OF SERVICE A

 * Includes CMA value decreased due to ATSAC Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 17, CONSTELLATION BOULEVARD & AVENUE OF THE STARS
DATE: 6/21/2002 INITIALS: CT PERIOD: PM PEAK HOUR
CASE: FUTURE (2005) WITHOUT PROJECT

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	234	578	211	184
EASTBOUND	262	356	332	92
NORTHBOUND	333	826	166	117
SOUTHBOUND	262	1107	275	0

** NUMBER OF LANES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R	TOTAL
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED	LANES
WESTBOUND	1	0	2	0	1	0	4
EASTBOUND	1	0	2	0	1	0	4
NORTHBOUND	2	0	2	1	1	0	6
SOUTHBOUND	2	0	2	1	0	0	5

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED
WESTBOUND	234	N/A	289	N/A	211	N/A
EASTBOUND	262	N/A	178	N/A	332	N/A
NORTHBOUND	183	N/A	275	N/A	166	N/A
SOUTHBOUND	144	N/A	461	461	N/A	N/A

EAST-WEST CRITICAL VOLUMES 566
 NORTH-SOUTH CRITICAL VOLUMES 644

 THE SUM OF CRITICAL VOLUMES 1210

 NUMBER OF CRITICAL CLEARANCE INTERVALS 4

 CMA VALUE 0.780

 LEVEL OF SERVICE C

 * Includes CMA value decreased due to ATCS Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 17, CONSTELLATION BOULEVARD & AVENUE OF THE STARS
 DATE: 6/21/2002 INITIALS: CT PERIOD: PM PEAK HOUR
 CASE: FUTURE (2005) WITH PROJECT

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	232	569	209	184
EASTBOUND	262	199	335	89
NORTHBOUND	324	798	0	112
SOUTHBOUND	139	1093	275	0

** NUMBER OF LANES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R		TOTAL LANES
	ONLY	SHARED		SHARED	ONLY	SHARED	SHARED	
WESTBOUND	1	0	2	0	1	0	4	
EASTBOUND	1	0	2	0	1	0	4	
NORTHBOUND	2	0	2	1	1	0	6	
SOUTHBOUND	2	0	2	1	0	0	5	

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R	
	ONLY	SHARED		SHARED	ONLY	SHARED	SHARED
WESTBOUND	232	N/A	284	N/A	209	N/A	N/A
EASTBOUND	262	N/A	100	N/A	335	N/A	N/A
NORTHBOUND	178	N/A	266	N/A	0	N/A	N/A
SOUTHBOUND	77	N/A	456	456	N/A	N/A	N/A

EAST-WEST CRITICAL VOLUMES 567
 NORTH-SOUTH CRITICAL VOLUMES 634

 THE SUM OF CRITICAL VOLUMES 1201

 NUMBER OF CRITICAL CLEARANCE INTERVALS 4

 CMA VALUE 0.773

 LEVEL OF SERVICE C

 * Includes CMA value decreased due to ATCS Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 17, CONSTELLATION BOULEVARD & AVENUE OF THE STARS
 DATE: 6/21/2002 INITIALS: CT PERIOD: PM PEAK HOUR
 CASE: FUTURE (2005) WITH PROJECT PLUS MITIGATION

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	231	568	207	185
EASTBOUND	262	197	335	89
NORTHBOUND	323	793	0	110
SOUTHBOUND	138	1093	275	0

** NUMBER OF LANES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R	TOTAL LANES
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED	
WESTBOUND	1	0	2	0	1	0	4
EASTBOUND	1	0	2	0	1	0	4
NORTHBOUND	2	0	2	1	1	0	6
SOUTHBOUND	2	0	2	1	0	0	5

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED
WESTBOUND	231	N/A	284	N/A	207	N/A
EASTBOUND	262	N/A	98	N/A	335	N/A
NORTHBOUND	178	N/A	264	N/A	0	N/A
SOUTHBOUND	76	N/A	456	456	N/A	N/A

EAST-WEST CRITICAL VOLUMES 566
 NORTH-SOUTH CRITICAL VOLUMES 634

 THE SUM OF CRITICAL VOLUMES 1200

NUMBER OF CRITICAL CLEARANCE INTERVALS 4

CMA VALUE 0.773

LEVEL OF SERVICE C

 * Includes CMA value decreased due to ATCS Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 18, CONSTELLATION BOULEVARD & CENTURY PARK EAST
DATE: 6/13/2002 INITIALS: CT PERIOD: AM PEAK HOUR
CASE: EXISTING (2001)

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	8	18	26	0
EASTBOUND	223	0	36	84
NORTHBOUND	168	1029	0	0
SOUTHBOUND	2	590	160	62

** NUMBER OF LANES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R		TOTAL LANES
	ONLY	SHARED		SHARED	ONLY	SHARED	SHARED	
WESTBOUND	0	0	0	0	0	1		1
EASTBOUND	2	0	0	0	2	0		4
NORTHBOUND	1	0	3	0	0	0		4
SOUTHBOUND	1	0	2	0	1	0		4

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R	
	ONLY	SHARED		SHARED	ONLY	SHARED	SHARED
WESTBOUND	N/A	N/A	N/A	N/A	N/A		52
EASTBOUND	123	N/A	N/A	N/A	18		N/A
NORTHBOUND	168	N/A	343	N/A	N/A		N/A
SOUTHBOUND	2	N/A	295	N/A	160		N/A

EAST-WEST CRITICAL VOLUMES 175
 NORTH-SOUTH CRITICAL VOLUMES 463

 THE SUM OF CRITICAL VOLUMES 638

 NUMBER OF CRITICAL CLEARANCE INTERVALS 2

 CMA VALUE 0.362

 LEVEL OF SERVICE A

 * Includes CMA value decreased due to ATSAC Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 18, CONSTELLATION BOULEVARD & CENTURY PARK EAST
DATE: 6/13/2002 INITIALS: CT PERIOD: AM PEAK HOUR
CASE: FUTURE (2005) WITHOUT PROJECT

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	8	19	28	0
EASTBOUND	248	0	0	156
NORTHBOUND	344	1137	0	0
SOUTHBOUND	2	678	340	68

** NUMBER OF LANES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R SHARED	TOTAL LANES
	ONLY	SHARED		SHARED	ONLY		
WESTBOUND	0	0	0	0	0	1	1
EASTBOUND	2	0	0	0	2	0	4
NORTHBOUND	1	0	3	0	0	0	4
SOUTHBOUND	1	0	2	0	1	0	4

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R SHARED
	ONLY	SHARED		SHARED	ONLY	
WESTBOUND	N/A	N/A	N/A	N/A	N/A	55
EASTBOUND	136	N/A	N/A	N/A	0	N/A
NORTHBOUND	344	N/A	379	N/A	N/A	N/A
SOUTHBOUND	2	N/A	339	N/A	340	N/A

EAST-WEST CRITICAL VOLUMES 191
 NORTH-SOUTH CRITICAL VOLUMES 684

 THE SUM OF CRITICAL VOLUMES 875

 NUMBER OF CRITICAL CLEARANCE INTERVALS 2

 CMA VALUE 0.483

 LEVEL OF SERVICE A

 * Includes CMA value decreased due to ATCS Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 18, CONSTELLATION BOULEVARD & CENTURY PARK EAST
 DATE: 6/13/2002 INITIALS: CT PERIOD: AM PEAK HOUR
 CASE: FUTURE (2005) WITH PROJECT

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	10	19	28	0
EASTBOUND	212	0	0	142
NORTHBOUND	344	1137	0	0
SOUTHBOUND	10	686	355	58

** NUMBER OF LANES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R SHARED	TOTAL LANES
	ONLY	SHARED		SHARED	ONLY		
WESTBOUND	0	0	0	0	0	1	1
EASTBOUND	2	0	0	0	2	0	4
NORTHBOUND	1	0	3	0	0	0	4
SOUTHBOUND	1	0	2	0	1	0	4

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R SHARED
	ONLY	SHARED		SHARED	ONLY	
WESTBOUND	N/A	N/A	N/A	N/A	N/A	57
EASTBOUND	117	N/A	N/A	N/A	0	N/A
NORTHBOUND	344	N/A	379	N/A	N/A	N/A
SOUTHBOUND	10	N/A	343	N/A	355	N/A

EAST-WEST CRITICAL VOLUMES 174
 NORTH-SOUTH CRITICAL VOLUMES 699

 THE SUM OF CRITICAL VOLUMES 873

 NUMBER OF CRITICAL CLEARANCE INTERVALS 2

 CMA VALUE 0.482

 LEVEL OF SERVICE A

 * Includes CMA value decreased due to ATCS Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 18, CONSTELLATION BOULEVARD & CENTURY PARK EAST
DATE: 6/21/2002 INITIALS: CT PERIOD: AM PEAK HOUR
CASE: FUTURE (2005) WITH PROJECT PLUS MITIGATION

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	10	19	28	0
EASTBOUND	211	0	0	139
NORTHBOUND	344	1137	0	0
SOUTHBOUND	10	683	353	58

** NUMBER OF LANES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R	TOTAL
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED	LANES
WESTBOUND	0	0	0	0	0	1	1
EASTBOUND	2	0	0	0	2	0	4
NORTHBOUND	1	0	3	0	0	0	4
SOUTHBOUND	1	0	2	0	1	0	4

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED
WESTBOUND	N/A	N/A	N/A	N/A	N/A	57
EASTBOUND	116	N/A	N/A	N/A	0	N/A
NORTHBOUND	344	N/A	379	N/A	N/A	N/A
SOUTHBOUND	10	N/A	342	N/A	353	N/A

EAST-WEST CRITICAL VOLUMES 173
 NORTH-SOUTH CRITICAL VOLUMES 697

 THE SUM OF CRITICAL VOLUMES 870

 NUMBER OF CRITICAL CLEARANCE INTERVALS 2

 CMA VALUE 0.480

 LEVEL OF SERVICE A

 * Includes CMA value decreased due to ATCS Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 18, CONSTELLATION BOULEVARD & CENTURY PARK EAST
 DATE: 6/13/2002 INITIALS: CT PERIOD: PM PEAK HOUR
 CASE: EXISTING (2001)

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	0	9	28	0
EASTBOUND	586	0	463	46
NORTHBOUND	92	502	0	0
SOUTHBOUND	45	978	55	161

** NUMBER OF LANES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R SHARED	TOTAL LANES
	ONLY	SHARED		SHARED	ONLY		
WESTBOUND	0	0	0	0	0	1	1
EASTBOUND	2	0	0	0	2	0	4
NORTHBOUND	1	0	3	0	0	0	4
SOUTHBOUND	1	0	2	0	1	0	4

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R SHARED
	ONLY	SHARED		SHARED	ONLY	
WESTBOUND	N/A	N/A	N/A	N/A	N/A	37
EASTBOUND	322	N/A	N/A	N/A	232	N/A
NORTHBOUND	92	N/A	167	N/A	N/A	N/A
SOUTHBOUND	45	N/A	489	N/A	55	N/A

EAST-WEST CRITICAL VOLUMES 359
 NORTH-SOUTH CRITICAL VOLUMES 581

 THE SUM OF CRITICAL VOLUMES 940

 NUMBER OF CRITICAL CLEARANCE INTERVALS 2

 CMA VALUE 0.557

 LEVEL OF SERVICE A

 * Includes CMA value decreased due to ATSAC Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 18, CONSTELLATION BOULEVARD & CENTURY PARK EAST
DATE: 6/13/2002 INITIALS: CT PERIOD: PM PEAK HOUR
CASE: FUTURE (2005) WITHOUT PROJECT

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	0	10	30	0
EASTBOUND	695	0	545	74
NORTHBOUND	147	584	0	0
SOUTHBOUND	48	1038	73	191

** NUMBER OF LANES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R SHARED	TOTAL LANES
	ONLY	SHARED		SHARED	ONLY		
WESTBOUND	0	0	0	0	0	1	1
EASTBOUND	2	0	0	0	2	0	4
NORTHBOUND	1	0	3	0	0	0	4
SOUTHBOUND	1	0	2	0	1	0	4

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R SHARED
	ONLY	SHARED		SHARED	ONLY	
WESTBOUND	N/A	N/A	N/A	N/A	N/A	40
EASTBOUND	382	N/A	N/A	N/A	272	N/A
NORTHBOUND	147	N/A	195	N/A	N/A	N/A
SOUTHBOUND	48	N/A	519	N/A	73	N/A

EAST-WEST CRITICAL VOLUMES 422
 NORTH-SOUTH CRITICAL VOLUMES 666

 THE SUM OF CRITICAL VOLUMES 1088

 NUMBER OF CRITICAL CLEARANCE INTERVALS 2

 CMA VALUE 0.625

 LEVEL OF SERVICE B

 * Includes CMA value decreased due to ATCS Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 18, CONSTELLATION BOULEVARD & CENTURY PARK EAST
 DATE: 6/13/2002 INITIALS: CT PERIOD: PM PEAK HOUR
 CASE: FUTURE (2005) WITH PROJECT

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	0	10	30	0
EASTBOUND	652	0	480	74
NORTHBOUND	147	584	0	0
SOUTHBOUND	48	983	50	180

** NUMBER OF LANES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R		TOTAL LANES
	ONLY	SHARED		ONLY	SHARED	ONLY	SHARED	
WESTBOUND	0	0	0	0	0	1		1
EASTBOUND	2	0	0	0	2	0		4
NORTHBOUND	1	0	3	0	0	0		4
SOUTHBOUND	1	0	2	0	1	0		4

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R	
	ONLY	SHARED		ONLY	SHARED	ONLY	SHARED
WESTBOUND	N/A	N/A	N/A	N/A	N/A		40
EASTBOUND	359	N/A	N/A	N/A	240		N/A
NORTHBOUND	147	N/A	195	N/A	N/A		N/A
SOUTHBOUND	48	N/A	492	N/A	50		N/A

EAST-WEST CRITICAL VOLUMES 399
 NORTH-SOUTH CRITICAL VOLUMES 639

 THE SUM OF CRITICAL VOLUMES 1038

 NUMBER OF CRITICAL CLEARANCE INTERVALS 2

 CMA VALUE 0.592

 LEVEL OF SERVICE A

 * Includes CMA value decreased due to ATCS Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 18, CONSTELLATION BOULEVARD & CENTURY PARK EAST
 DATE: 6/21/2002 INITIALS: CT PERIOD: PM PEAK HOUR
 CASE: FUTURE (2005) WITH PROJECT PLUS MITIGATION

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	0	10	30	0
EASTBOUND	645	0	476	74
NORTHBOUND	147	584	0	0
SOUTHBOUND	48	983	51	178

** NUMBER OF LANES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R	TOTAL
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED	LANES
WESTBOUND	0	0	0	0	0	1	1
EASTBOUND	2	0	0	0	2	0	4
NORTHBOUND	1	0	3	0	0	0	4
SOUTHBOUND	1	0	2	0	1	0	4

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED
WESTBOUND	N/A	N/A	N/A	N/A	N/A	40
EASTBOUND	355	N/A	N/A	N/A	238	N/A
NORTHBOUND	147	N/A	195	N/A	N/A	N/A
SOUTHBOUND	48	N/A	492	N/A	51	N/A

EAST-WEST CRITICAL VOLUMES 395
 NORTH-SOUTH CRITICAL VOLUMES 639

 THE SUM OF CRITICAL VOLUMES 1034

 NUMBER OF CRITICAL CLEARANCE INTERVALS 2

 CMA VALUE 0.589

 LEVEL OF SERVICE A

 * Includes CMA value decreased due to ATCS Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 19, OLYMPIC BOULEVARD & OVERLAND AVENUE
DATE: 6/13/2002 INITIALS: CT PERIOD: AM PEAK HOUR
CASE: EXISTING (2001)

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	221	2415	6	44
EASTBOUND	19	2444	42	0
NORTHBOUND	100	375	262	0
SOUTHBOUND	89	398	39	0

** NUMBER OF LANES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R	TOTAL LANES
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED	
WESTBOUND	1	0	3	0	1	0	5
EASTBOUND	1	0	2	1	0	0	4
NORTHBOUND	1	0	0	1	0	0	2
SOUTHBOUND	1	0	0	1	0	0	2

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED
WESTBOUND	221	N/A	805	N/A	6	N/A
EASTBOUND	19	N/A	829	829	N/A	N/A
NORTHBOUND	100	N/A	N/A	637	N/A	N/A
SOUTHBOUND	89	N/A	N/A	437	N/A	N/A

EAST-WEST CRITICAL VOLUMES 1050
 NORTH-SOUTH CRITICAL VOLUMES 726

 THE SUM OF CRITICAL VOLUMES 1776

 NUMBER OF CRITICAL CLEARANCE INTERVALS 3

 CMA VALUE 1.176

 LEVEL OF SERVICE F

 * Includes CMA value decreased due to ATSAC Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 19, OLYMPIC BOULEVARD & OVERLAND AVENUE
DATE: 6/21/2002 INITIALS: CT PERIOD: AM PEAK HOUR
CASE: FUTURE (2005) WITHOUT PROJECT

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	276	2607	2	52
EASTBOUND	22	2894	45	0
NORTHBOUND	106	444	453	0
SOUTHBOUND	104	464	42	0

** NUMBER OF LANES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R		TOTAL LANES
	ONLY	SHARED		SHARED	ONLY	SHARED	SHARED	
WESTBOUND	1	0	3	0	1	0	5	
EASTBOUND	1	0	2	1	0	0	4	
NORTHBOUND	1	0	0	1	0	0	2	
SOUTHBOUND	1	0	0	1	0	0	2	

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R	
	ONLY	SHARED		SHARED	ONLY	SHARED	SHARED
WESTBOUND	276	N/A	869	N/A	2	N/A	
EASTBOUND	22	N/A	980	980	N/A	N/A	
NORTHBOUND	106	N/A	N/A	897	N/A	N/A	
SOUTHBOUND	104	N/A	N/A	506	N/A	N/A	

EAST-WEST CRITICAL VOLUMES 1256
 NORTH-SOUTH CRITICAL VOLUMES 1001

 THE SUM OF CRITICAL VOLUMES 2257

 NUMBER OF CRITICAL CLEARANCE INTERVALS 3

 CMA VALUE 1.484

 LEVEL OF SERVICE F

 * Includes CMA value decreased due to ATCS Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 19, OLYMPIC BOULEVARD & OVERLAND AVENUE
DATE: 6/21/2002 INITIALS: CT PERIOD: AM PEAK HOUR
CASE: FUTURE (2005) WITH PROJECT

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	267	2585	2	52
EASTBOUND	22	2907	45	0
NORTHBOUND	106	444	458	0
SOUTHBOUND	104	464	42	0

** NUMBER OF LANES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R	TOTAL LANES
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED	
WESTBOUND	1	0	3	0	1	0	5
EASTBOUND	1	0	2	1	0	0	4
NORTHBOUND	1	0	0	1	0	0	2
SOUTHBOUND	1	0	0	1	0	0	2

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED
WESTBOUND	267	N/A	862	N/A	2	N/A
EASTBOUND	22	N/A	984	984	N/A	N/A
NORTHBOUND	106	N/A	N/A	902	N/A	N/A
SOUTHBOUND	104	N/A	N/A	506	N/A	N/A

EAST-WEST CRITICAL VOLUMES 1251
 NORTH-SOUTH CRITICAL VOLUMES 1006

 THE SUM OF CRITICAL VOLUMES 2257

 NUMBER OF CRITICAL CLEARANCE INTERVALS 3

 CMA VALUE 1.484

 LEVEL OF SERVICE F

 * Includes CMA value decreased due to ATCS Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 19, OLYMPIC BOULEVARD & OVERLAND AVENUE
DATE: 6/21/2002 INITIALS: CT PERIOD: AM PEAK HOUR
CASE: FUTURE (2005) WITH PROJECT PLUS MITIGATION

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	267	2585	2	52
EASTBOUND	22	2902	45	0
NORTHBOUND	106	444	456	0
SOUTHBOUND	104	464	42	0

** NUMBER OF LANES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R	TOTAL LANES
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED	
WESTBOUND	1	0	3	0	1	0	5
EASTBOUND	1	0	2	1	0	0	4
NORTHBOUND	1	0	0	1	0	0	2
SOUTHBOUND	1	0	0	1	0	0	2

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED
WESTBOUND	267	N/A	862	N/A	2	N/A
EASTBOUND	22	N/A	982	982	N/A	N/A
NORTHBOUND	106	N/A	N/A	900	N/A	N/A
SOUTHBOUND	104	N/A	N/A	506	N/A	N/A

EAST-WEST CRITICAL VOLUMES 1249
 NORTH-SOUTH CRITICAL VOLUMES 1004

 THE SUM OF CRITICAL VOLUMES 2253

 NUMBER OF CRITICAL CLEARANCE INTERVALS 3

 CMA VALUE 1.481

 LEVEL OF SERVICE F

 * Includes CMA value decreased due to ATCS Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 19, OLYMPIC BOULEVARD & OVERLAND AVENUE
DATE: 6/13/2002 INITIALS: CT PERIOD: PM PEAK HOUR
CASE: EXISTING (2001)

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	270	3009	35	0
EASTBOUND	34	1988	148	0
NORTHBOUND	116	411	158	0
SOUTHBOUND	62	591	36	0

** NUMBER OF LANES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R	TOTAL LANES
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED	
WESTBOUND	1	0	3	1	0	0	5
EASTBOUND	1	0	2	1	0	0	4
NORTHBOUND	1	0	0	1	0	0	2
SOUTHBOUND	1	0	0	1	0	0	2

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED
WESTBOUND	270	N/A	761	761	N/A	N/A
EASTBOUND	34	N/A	712	712	N/A	N/A
NORTHBOUND	116	N/A	N/A	569	N/A	N/A
SOUTHBOUND	62	N/A	N/A	627	N/A	N/A

EAST-WEST CRITICAL VOLUMES 982
 NORTH-SOUTH CRITICAL VOLUMES 743

 THE SUM OF CRITICAL VOLUMES 1725

 NUMBER OF CRITICAL CLEARANCE INTERVALS 3

 CMA VALUE 1.141

 LEVEL OF SERVICE F

 * Includes CMA value decreased due to ATSAC Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 19, OLYMPIC BOULEVARD & OVERLAND AVENUE
 DATE: 6/21/2002 INITIALS: CT PERIOD: PM PEAK HOUR
 CASE: FUTURE (2005) WITHOUT PROJECT

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	489	3426	45	0
EASTBOUND	51	2186	157	0
NORTHBOUND	123	500	232	0
SOUTHBOUND	68	710	55	0

** NUMBER OF LANES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R	TOTAL
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED	LANES
WESTBOUND	1	0	3	1	0	0	5
EASTBOUND	1	0	2	1	0	0	4
NORTHBOUND	1	0	0	1	0	0	2
SOUTHBOUND	1	0	0	1	0	0	2

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED
WESTBOUND	489	N/A	868	868	N/A	N/A
EASTBOUND	51	N/A	781	781	N/A	N/A
NORTHBOUND	123	N/A	N/A	732	N/A	N/A
SOUTHBOUND	68	N/A	N/A	765	N/A	N/A

EAST-WEST CRITICAL VOLUMES 1270
 NORTH-SOUTH CRITICAL VOLUMES 888

 THE SUM OF CRITICAL VOLUMES 2158

 NUMBER OF CRITICAL CLEARANCE INTERVALS 3

 CMA VALUE 1.414

 LEVEL OF SERVICE F

 * Includes CMA value decreased due to ATCS Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 19, OLYMPIC BOULEVARD & OVERLAND AVENUE
DATE: 6/21/2002 INITIALS: CT PERIOD: PM PEAK HOUR
CASE: FUTURE (2005) WITH PROJECT

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	478	3400	45	0
EASTBOUND	51	2097	157	0
NORTHBOUND	123	500	198	0
SOUTHBOUND	68	710	55	0

** NUMBER OF LANES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R		TOTAL LANES
	ONLY	SHARED		SHARED	ONLY	SHARED	SHARED	
WESTBOUND	1	0	3	1	0	0	0	5
EASTBOUND	1	0	2	1	0	0	0	4
NORTHBOUND	1	0	0	1	0	0	0	2
SOUTHBOUND	1	0	0	1	0	0	0	2

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R	
	ONLY	SHARED		SHARED	ONLY	SHARED	SHARED
WESTBOUND	478	N/A	861	861	N/A	N/A	N/A
EASTBOUND	51	N/A	751	751	N/A	N/A	N/A
NORTHBOUND	123	N/A	N/A	698	N/A	N/A	N/A
SOUTHBOUND	68	N/A	N/A	765	N/A	N/A	N/A

EAST-WEST CRITICAL VOLUMES 1229
 NORTH-SOUTH CRITICAL VOLUMES 888

 THE SUM OF CRITICAL VOLUMES 2117

 NUMBER OF CRITICAL CLEARANCE INTERVALS 3

 CMA VALUE 1.386

 LEVEL OF SERVICE F

 * Includes CMA value decreased due to ATCS Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 19, OLYMPIC BOULEVARD & OVERLAND AVENUE
 DATE: 6/21/2002 INITIALS: CT PERIOD: PM PEAK HOUR
 CASE: FUTURE (2005) WITH PROJECT PLUS MITIGATION

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	476	3396	45	0
EASTBOUND	51	2096	157	0
NORTHBOUND	123	500	197	0
SOUTHBOUND	68	710	55	0

** NUMBER OF LANES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R	TOTAL LANES
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED	
WESTBOUND	1	0	3	1	0	0	5
EASTBOUND	1	0	2	1	0	0	4
NORTHBOUND	1	0	0	1	0	0	2
SOUTHBOUND	1	0	0	1	0	0	2

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED
WESTBOUND	476	N/A	860	860	N/A	N/A
EASTBOUND	51	N/A	751	751	N/A	N/A
NORTHBOUND	123	N/A	N/A	697	N/A	N/A
SOUTHBOUND	68	N/A	N/A	765	N/A	N/A

EAST-WEST CRITICAL VOLUMES 1227
 NORTH-SOUTH CRITICAL VOLUMES 888

 THE SUM OF CRITICAL VOLUMES 2115

 NUMBER OF CRITICAL CLEARANCE INTERVALS 3

 CMA VALUE 1.384

 LEVEL OF SERVICE F

 * Includes CMA value decreased due to ATCS Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 20, OLYMPIC BOULEVARD & BEVERLY GLEN BOULEVARD
 DATE: 6/13/2002 INITIALS: CT PERIOD: AM PEAK HOUR
 CASE: EXISTING (2001)

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	34	2210	3	74
EASTBOUND	160	2479	8	64
NORTHBOUND	89	445	118	36
SOUTHBOUND	149	483	124	80

** NUMBER OF LANES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R		TOTAL LANES
	ONLY	SHARED		SHARED	ONLY	SHARED	SHARED	
WESTBOUND	1	0	3	0	1	0	5	
EASTBOUND	1	0	3	0	1	0	5	
NORTHBOUND	1	0	2	0	1	0	4	
SOUTHBOUND	1	0	2	0	1	0	4	

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R	
	ONLY	SHARED		SHARED	ONLY	SHARED	SHARED
WESTBOUND	34	N/A	737	N/A	3	N/A	
EASTBOUND	160	N/A	826	N/A	8	N/A	
NORTHBOUND	89	N/A	222	N/A	118	N/A	
SOUTHBOUND	149	N/A	242	N/A	124	N/A	

EAST-WEST CRITICAL VOLUMES 897
 NORTH-SOUTH CRITICAL VOLUMES 371

 THE SUM OF CRITICAL VOLUMES 1268

 NUMBER OF CRITICAL CLEARANCE INTERVALS 3

 CMA VALUE 0.820

 LEVEL OF SERVICE D

 * Includes CMA value decreased due to ATSAC Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 20, OLYMPIC BOULEVARD & BEVERLY GLEN BOULEVARD
 DATE: 6/13/2002 INITIALS: CT PERIOD: AM PEAK HOUR
 CASE: FUTURE (2005) WITHOUT PROJECT

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	47	2421	0	80
EASTBOUND	181	3105	0	76
NORTHBOUND	94	467	220	24
SOUTHBOUND	171	502	89	138

** NUMBER OF LANES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R	TOTAL LANES
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED	
WESTBOUND	1	0	3	0	1	0	5
EASTBOUND	1	0	3	0	1	0	5
NORTHBOUND	1	0	2	0	1	0	4
SOUTHBOUND	1	0	2	0	1	0	4

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED
WESTBOUND	47	N/A	807	N/A	0	N/A
EASTBOUND	181	N/A	1035	N/A	0	N/A
NORTHBOUND	94	N/A	234	N/A	220	N/A
SOUTHBOUND	171	N/A	251	N/A	89	N/A

EAST-WEST CRITICAL VOLUMES 1082
 NORTH-SOUTH CRITICAL VOLUMES 405

 THE SUM OF CRITICAL VOLUMES 1487

 NUMBER OF CRITICAL CLEARANCE INTERVALS 4

 CMA VALUE 0.981

 LEVEL OF SERVICE E

 * Includes CMA value decreased due to ATCS Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 20, OLYMPIC BOULEVARD & BEVERLY GLEN BOULEVARD
 DATE: 6/13/2002 INITIALS: CT PERIOD: AM PEAK HOUR
 CASE: FUTURE (2005) WITH PROJECT

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	45	2390	0	80
EASTBOUND	181	3123	0	76
NORTHBOUND	94	467	226	22
SOUTHBOUND	171	502	83	144

** NUMBER OF LANES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R	TOTAL LANES
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED	
WESTBOUND	1	0	3	0	1	0	5
EASTBOUND	1	0	3	0	1	0	5
NORTHBOUND	1	0	2	0	1	0	4
SOUTHBOUND	1	0	2	0	1	0	4

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED
WESTBOUND	45	N/A	797	N/A	0	N/A
EASTBOUND	181	N/A	1041	N/A	0	N/A
NORTHBOUND	94	N/A	234	N/A	226	N/A
SOUTHBOUND	171	N/A	251	N/A	83	N/A

EAST-WEST CRITICAL VOLUMES 1086
 NORTH-SOUTH CRITICAL VOLUMES 405

 THE SUM OF CRITICAL VOLUMES 1491

 NUMBER OF CRITICAL CLEARANCE INTERVALS 4

 CMA VALUE 0.984

 LEVEL OF SERVICE E

 * Includes CMA value decreased due to ATCS Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 20, OLYMPIC BOULEVARD & BEVERLY GLEN BOULEVARD
 DATE: 6/21/2002 INITIALS: CT PERIOD: AM PEAK HOUR
 CASE: FUTURE (2005) WITH PROJECT PLUS MITIGATION

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	45	2389	0	80
EASTBOUND	181	3116	0	76
NORTHBOUND	94	467	224	22
SOUTHBOUND	171	502	83	144

** NUMBER OF LANES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R	TOTAL
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED	LANES
WESTBOUND	1	0	3	0	1	0	5
EASTBOUND	1	0	3	0	1	0	5
NORTHBOUND	1	0	2	0	1	0	4
SOUTHBOUND	1	0	2	0	1	0	4

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED
WESTBOUND	45	N/A	796	N/A	0	N/A
EASTBOUND	181	N/A	1039	N/A	0	N/A
NORTHBOUND	94	N/A	234	N/A	224	N/A
SOUTHBOUND	171	N/A	251	N/A	83	N/A

EAST-WEST CRITICAL VOLUMES 1084
 NORTH-SOUTH CRITICAL VOLUMES 405

 THE SUM OF CRITICAL VOLUMES 1489

 NUMBER OF CRITICAL CLEARANCE INTERVALS 4

 CMA VALUE 0.983

 LEVEL OF SERVICE E

 * Includes CMA value decreased due to ATCS Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 20, OLYMPIC BOULEVARD & BEVERLY GLEN BOULEVARD
DATE: 6/13/2002 INITIALS: CT PERIOD: PM PEAK HOUR
CASE: EXISTING (2001)

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	141	2990	143	0
EASTBOUND	159	1870	57	32
NORTHBOUND	64	351	0	45
SOUTHBOUND	172	611	194	80

** NUMBER OF LANES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R	TOTAL
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED	LANES
WESTBOUND	1	0	3	1	0	0	5
EASTBOUND	1	0	3	0	1	0	5
NORTHBOUND	1	0	2	0	1	0	4
SOUTHBOUND	1	0	2	0	1	0	4

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED
WESTBOUND	141	N/A	783	783	N/A	N/A
EASTBOUND	159	N/A	623	N/A	57	N/A
NORTHBOUND	64	N/A	176	N/A	0	N/A
SOUTHBOUND	172	N/A	306	N/A	194	N/A

EAST-WEST CRITICAL VOLUMES 942
 NORTH-SOUTH CRITICAL VOLUMES 370

 THE SUM OF CRITICAL VOLUMES 1312

 NUMBER OF CRITICAL CLEARANCE INTERVALS 3

 CMA VALUE 0.851

 LEVEL OF SERVICE D

 * Includes CMA value decreased due to ATSAC Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 20, OLYMPIC BOULEVARD & BEVERLY GLEN BOULEVARD
 DATE: 6/13/2002 INITIALS: CT PERIOD: PM PEAK HOUR
 CASE: FUTURE (2005) WITHOUT PROJECT

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	242	3593	171	0
EASTBOUND	174	2122	60	34
NORTHBOUND	68	341	0	86
SOUTHBOUND	182	628	224	87

** NUMBER OF LANES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R	TOTAL
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED	LANES
WESTBOUND	1	0	3	1	0	0	5
EASTBOUND	1	0	3	0	1	0	5
NORTHBOUND	1	0	2	0	1	0	4
SOUTHBOUND	1	0	2	0	1	0	4

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED
WESTBOUND	242	N/A	941	941	N/A	N/A
EASTBOUND	174	N/A	707	N/A	60	N/A
NORTHBOUND	68	N/A	170	N/A	0	N/A
SOUTHBOUND	182	N/A	314	N/A	224	N/A

EAST-WEST CRITICAL VOLUMES 1115
 NORTH-SOUTH CRITICAL VOLUMES 382

 THE SUM OF CRITICAL VOLUMES 1497

 NUMBER OF CRITICAL CLEARANCE INTERVALS 4

 CMA VALUE 0.989

 LEVEL OF SERVICE E

 * Includes CMA value decreased due to ATCS Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 20, OLYMPIC BOULEVARD & BEVERLY GLEN BOULEVARD
 DATE: 6/13/2002 INITIALS: CT PERIOD: PM PEAK HOUR
 CASE: FUTURE (2005) WITH PROJECT

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	240	3556	171	0
EASTBOUND	174	1999	60	34
NORTHBOUND	68	341	0	59
SOUTHBOUND	182	628	224	87

** NUMBER OF LANES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R	TOTAL LANES
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED	
WESTBOUND	1	0	3	1	0	0	5
EASTBOUND	1	0	3	0	1	0	5
NORTHBOUND	1	0	2	0	1	0	4
SOUTHBOUND	1	0	2	0	1	0	4

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED
WESTBOUND	240	N/A	932	932	N/A	N/A
EASTBOUND	174	N/A	666	N/A	60	N/A
NORTHBOUND	68	N/A	170	N/A	0	N/A
SOUTHBOUND	182	N/A	314	N/A	224	N/A

EAST-WEST CRITICAL VOLUMES 1106
 NORTH-SOUTH CRITICAL VOLUMES 382

 THE SUM OF CRITICAL VOLUMES 1488

 NUMBER OF CRITICAL CLEARANCE INTERVALS 4

 CMA VALUE 0.982

 LEVEL OF SERVICE E

 * Includes CMA value decreased due to ATCS Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 20, OLYMPIC BOULEVARD & BEVERLY GLEN BOULEVARD
 DATE: 6/21/2002 INITIALS: CT PERIOD: PM PEAK HOUR
 CASE: FUTURE (2005) WITH PROJECT PLUS MITIGATION

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	239	3550	171	0
EASTBOUND	174	1998	60	34
NORTHBOUND	68	341	0	58
SOUTHBOUND	182	628	224	87

** NUMBER OF LANES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R	TOTAL LANES
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED	
WESTBOUND	1	0	3	1	0	0	5
EASTBOUND	1	0	3	0	1	0	5
NORTHBOUND	1	0	2	0	1	0	4
SOUTHBOUND	1	0	2	0	1	0	4

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED
WESTBOUND	239	N/A	930	930	N/A	N/A
EASTBOUND	174	N/A	666	N/A	60	N/A
NORTHBOUND	68	N/A	170	N/A	0	N/A
SOUTHBOUND	182	N/A	314	N/A	224	N/A

EAST-WEST CRITICAL VOLUMES 1104
 NORTH-SOUTH CRITICAL VOLUMES 382

 THE SUM OF CRITICAL VOLUMES 1486

 NUMBER OF CRITICAL CLEARANCE INTERVALS 4

 CMA VALUE 0.981

 LEVEL OF SERVICE E

 * Includes CMA value decreased due to ATCS Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 21, OLYMPIC BOULEVARD & CENTURY PARK WEST
DATE: 6/13/2002 INITIALS: CT PERIOD: AM PEAK HOUR
CASE: EXISTING (2001)

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	0	2220	60	8
EASTBOUND	652	2661	0	0
NORTHBOUND	0	0	0	0
SOUTHBOUND	28	0	0	148

** NUMBER OF LANES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R		TOTAL LANES
	ONLY	SHARED		SHARED	ONLY	SHARED	SHARED	
WESTBOUND	0	0	3	0	1	0	0	4
EASTBOUND	1	0	3	0	0	0	0	4
NORTHBOUND	0	0	0	0	0	0	0	0
SOUTHBOUND	2	0	0	0	2	0	0	4

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R	
	ONLY	SHARED		SHARED	ONLY	SHARED	SHARED
WESTBOUND	N/A	N/A	740	N/A	60	N/A	N/A
EASTBOUND	652	N/A	887	N/A	N/A	N/A	N/A
NORTHBOUND	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SOUTHBOUND	15	N/A	N/A	N/A	0	N/A	N/A

EAST-WEST CRITICAL VOLUMES 1392
 NORTH-SOUTH CRITICAL VOLUMES 15

 THE SUM OF CRITICAL VOLUMES 1407

 NUMBER OF CRITICAL CLEARANCE INTERVALS 3

 CMA VALUE 0.917

 LEVEL OF SERVICE E

 * Includes CMA value decreased due to ATSAC Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 21, OLYMPIC BOULEVARD & CENTURY PARK WEST
DATE: 6/13/2002 INITIALS: CT PERIOD: AM PEAK HOUR
CASE: FUTURE (2005) WITHOUT PROJECT

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	0	2367	222	0
EASTBOUND	1077	3006	0	0
NORTHBOUND	0	0	0	0
SOUTHBOUND	50	0	0	231

** NUMBER OF LANES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R		TOTAL LANES
	ONLY	SHARED		SHARED	ONLY	SHARED	SHARED	
WESTBOUND	0	0	2	1	0	0	0	3
EASTBOUND	2	0	3	0	0	0	0	5
NORTHBOUND	0	0	0	0	0	0	0	0
SOUTHBOUND	2	0	0	0	2	0	0	4

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R	
	ONLY	SHARED		SHARED	ONLY	SHARED	SHARED
WESTBOUND	N/A	N/A	863	863	N/A	N/A	N/A
EASTBOUND	592	N/A	1002	N/A	N/A	N/A	N/A
NORTHBOUND	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SOUTHBOUND	28	N/A	N/A	N/A	0	N/A	N/A

EAST-WEST CRITICAL VOLUMES 1455
 NORTH-SOUTH CRITICAL VOLUMES 28

 THE SUM OF CRITICAL VOLUMES 1483

 NUMBER OF CRITICAL CLEARANCE INTERVALS 3

 CMA VALUE 0.941

 LEVEL OF SERVICE E

 * Includes CMA value decreased due to ATCS Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 21, OLYMPIC BOULEVARD & CENTURY PARK WEST
DATE: 6/13/2002 INITIALS: CT PERIOD: AM PEAK HOUR
CASE: FUTURE (2005) WITH PROJECT

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	0	2338	222	0
EASTBOUND	1093	3012	0	0
NORTHBOUND	0	0	0	0
SOUTHBOUND	50	0	0	227

** NUMBER OF LANES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R SHARED	TOTAL LANES
	ONLY	SHARED		ONLY	SHARED		
WESTBOUND	0	0	2	1	0	0	3
EASTBOUND	2	0	3	0	0	0	5
NORTHBOUND	0	0	0	0	0	0	0
SOUTHBOUND	2	0	0	0	2	0	4

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R	
	ONLY	SHARED		ONLY	SHARED	ONLY	SHARED
WESTBOUND	N/A	N/A	853	853	N/A	N/A	N/A
EASTBOUND	601	N/A	1004	N/A	N/A	N/A	N/A
NORTHBOUND	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SOUTHBOUND	28	N/A	N/A	N/A	0	N/A	N/A

EAST-WEST CRITICAL VOLUMES 1454
 NORTH-SOUTH CRITICAL VOLUMES 28

 THE SUM OF CRITICAL VOLUMES 1482

 NUMBER OF CRITICAL CLEARANCE INTERVALS 3

 CMA VALUE 0.940

 LEVEL OF SERVICE E

 * Includes CMA value decreased due to ATCS Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 21, OLYMPIC BOULEVARD & CENTURY PARK WEST
DATE: 6/21/2002 INITIALS: CT PERIOD: AM PEAK HOUR
CASE: FUTURE (2005) WITH PROJECT PLUS MITIGATION

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	0	2337	222	0
EASTBOUND	1087	3010	0	0
NORTHBOUND	0	0	0	0
SOUTHBOUND	50	0	0	227

** NUMBER OF LANES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R	TOTAL
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED	LANES
WESTBOUND	0	0	2	1	0	0	3
EASTBOUND	2	0	3	0	0	0	5
NORTHBOUND	0	0	0	0	0	0	0
SOUTHBOUND	2	0	0	0	2	0	4

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED
WESTBOUND	N/A	N/A	853	853	N/A	N/A
EASTBOUND	598	N/A	1003	N/A	N/A	N/A
NORTHBOUND	N/A	N/A	N/A	N/A	N/A	N/A
SOUTHBOUND	28	N/A	N/A	N/A	0	N/A

EAST-WEST CRITICAL VOLUMES 1451
 NORTH-SOUTH CRITICAL VOLUMES 28

 THE SUM OF CRITICAL VOLUMES 1479
 NUMBER OF CRITICAL CLEARANCE INTERVALS 3
 CMA VALUE 0.938
 LEVEL OF SERVICE E

 * Includes CMA value decreased due to ATCS Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 21, OLYMPIC BOULEVARD & CENTURY PARK WEST
DATE: 6/13/2002 INITIALS: CT PERIOD: PM PEAK HOUR
CASE: EXISTING (2001)

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	0	3028	0	67
EASTBOUND	273	2238	0	0
NORTHBOUND	0	0	0	0
SOUTHBOUND	89	0	389	546

** NUMBER OF LANES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R	TOTAL
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED	LANES
WESTBOUND	0	0	3	0	1	0	4
EASTBOUND	1	0	3	0	0	0	4
NORTHBOUND	0	0	0	0	0	0	0
SOUTHBOUND	2	0	0	0	2	0	4

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED
WESTBOUND	N/A	N/A	1009	N/A	0	N/A
EASTBOUND	273	N/A	746	N/A	N/A	N/A
NORTHBOUND	N/A	N/A	N/A	N/A	N/A	N/A
SOUTHBOUND	49	N/A	N/A	N/A	194	N/A

EAST-WEST CRITICAL VOLUMES 1282
 NORTH-SOUTH CRITICAL VOLUMES 194

 THE SUM OF CRITICAL VOLUMES 1476

 NUMBER OF CRITICAL CLEARANCE INTERVALS 3

 CMA VALUE 0.966

 LEVEL OF SERVICE E

 * Includes CMA value decreased due to ATSAC Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 21, OLYMPIC BOULEVARD & CENTURY PARK WEST
DATE: 6/13/2002 INITIALS: CT PERIOD: PM PEAK HOUR
CASE: FUTURE (2005) WITHOUT PROJECT

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	0	3344	98	0
EASTBOUND	410	2432	0	0
NORTHBOUND	0	0	0	0
SOUTHBOUND	227	0	943	452

** NUMBER OF LANES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R		TOTAL LANES
	ONLY	SHARED		SHARED	ONLY	SHARED	SHARED	
WESTBOUND	0	0	2	1	0	0	0	3
EASTBOUND	2	0	3	0	0	0	0	5
NORTHBOUND	0	0	0	0	0	0	0	0
SOUTHBOUND	2	0	0	0	2	0	0	4

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R	
	ONLY	SHARED		SHARED	ONLY	SHARED	SHARED
WESTBOUND	N/A	N/A	1147	1147	N/A	N/A	N/A
EASTBOUND	226	N/A	811	N/A	N/A	N/A	N/A
NORTHBOUND	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SOUTHBOUND	125	N/A	N/A	N/A	472	N/A	N/A

EAST-WEST CRITICAL VOLUMES 1373
 NORTH-SOUTH CRITICAL VOLUMES 472

 THE SUM OF CRITICAL VOLUMES 1845

 NUMBER OF CRITICAL CLEARANCE INTERVALS 3

 CMA VALUE 1.195

 LEVEL OF SERVICE F

 * Includes CMA value decreased due to ATCS Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 21, OLYMPIC BOULEVARD & CENTURY PARK WEST
DATE: 6/13/2002 INITIALS: CT PERIOD: PM PEAK HOUR
CASE: FUTURE (2005) WITH PROJECT

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	0	3309	98	0
EASTBOUND	301	2391	0	0
NORTHBOUND	0	0	0	0
SOUTHBOUND	227	0	1059	332

** NUMBER OF LANES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R	TOTAL
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED	LANES
WESTBOUND	0	0	2	1	0	0	3
EASTBOUND	2	0	3	0	0	0	5
NORTHBOUND	0	0	0	0	0	0	0
SOUTHBOUND	2	0	0	0	2	0	4

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED
WESTBOUND	N/A	N/A	1136	1136	N/A	N/A
EASTBOUND	166	N/A	797	N/A	N/A	N/A
NORTHBOUND	N/A	N/A	N/A	N/A	N/A	N/A
SOUTHBOUND	125	N/A	N/A	N/A	530	N/A

EAST-WEST CRITICAL VOLUMES 1302
 NORTH-SOUTH CRITICAL VOLUMES 530

 THE SUM OF CRITICAL VOLUMES 1832

 NUMBER OF CRITICAL CLEARANCE INTERVALS 3

 CMA VALUE 1.186

 LEVEL OF SERVICE F

 * Includes CMA value decreased due to ATCS Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 21, OLYMPIC BOULEVARD & CENTURY PARK WEST
DATE: 6/21/2002 INITIALS: CT PERIOD: PM PEAK HOUR
CASE: FUTURE (2005) WITH PROJECT PLUS MITIGATION

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	0	3304	98	0
EASTBOUND	300	2391	0	0
NORTHBOUND	0	0	0	0
SOUTHBOUND	227	0	1060	330

** NUMBER OF LANES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R	TOTAL
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED	LANES
WESTBOUND	0	0	2	1	0	0	3
EASTBOUND	2	0	3	0	0	0	5
NORTHBOUND	0	0	0	0	0	0	0
SOUTHBOUND	2	0	0	0	2	0	4

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED
WESTBOUND	N/A	N/A	1134	1134	N/A	N/A
EASTBOUND	165	N/A	797	N/A	N/A	N/A
NORTHBOUND	N/A	N/A	N/A	N/A	N/A	N/A
SOUTHBOUND	125	N/A	N/A	N/A	530	N/A

EAST-WEST CRITICAL VOLUMES 1299
 NORTH-SOUTH CRITICAL VOLUMES 530

 THE SUM OF CRITICAL VOLUMES 1829

 NUMBER OF CRITICAL CLEARANCE INTERVALS 3

 CMA VALUE 1.184

 LEVEL OF SERVICE F

 * Includes CMA value decreased due to ATCS Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 22, OLYMPIC BOULEVARD (WB) & AVENUE OF THE STARS
DATE: 6/13/2002 INITIALS: CT PERIOD: AM PEAK HOUR
CASE: EXISTING (2001)

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	190	7	272	10
EASTBOUND	15	2	0	9
NORTHBOUND	8	1432	37	0
SOUTHBOUND	20	576	38	0

** NUMBER OF LANES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R		TOTAL LANES
	ONLY	SHARED		SHARED	ONLY	SHARED	SHARED	
WESTBOUND	0	1	0	0	1	0	2	
EASTBOUND	0	1	0	0	1	0	2	
NORTHBOUND	1	0	2	1	0	0	4	
SOUTHBOUND	1	0	2	1	0	0	4	

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R	
	ONLY	SHARED		SHARED	ONLY	SHARED	SHARED
WESTBOUND	N/A	197	N/A	N/A	272	N/A	N/A
EASTBOUND	N/A	17	N/A	N/A	0	N/A	N/A
NORTHBOUND	8	N/A	490	490	N/A	N/A	N/A
SOUTHBOUND	20	N/A	205	205	N/A	N/A	N/A

EAST-WEST CRITICAL VOLUMES 287
 NORTH-SOUTH CRITICAL VOLUMES 510

 THE SUM OF CRITICAL VOLUMES 797

 NUMBER OF CRITICAL CLEARANCE INTERVALS 2

 CMA VALUE 0.461

 LEVEL OF SERVICE A

 * Includes CMA value decreased due to ATSAC Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 22, OLYMPIC BOULEVARD (WB) & AVENUE OF THE STARS
 DATE: 6/13/2002 INITIALS: CT PERIOD: AM PEAK HOUR
 CASE: FUTURE (2005) WITHOUT PROJECT

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	245	7	286	11
EASTBOUND	16	2	0	10
NORTHBOUND	8	1847	47	0
SOUTHBOUND	22	783	40	0

** NUMBER OF LANES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R	TOTAL
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED	LANES
WESTBOUND	0	1	0	0	1	0	2
EASTBOUND	0	1	0	0	1	0	2
NORTHBOUND	1	0	2	1	0	0	4
SOUTHBOUND	1	0	2	1	0	0	4

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED
WESTBOUND	N/A	252	N/A	N/A	286	N/A
EASTBOUND	N/A	18	N/A	N/A	0	N/A
NORTHBOUND	8	N/A	631	631	N/A	N/A
SOUTHBOUND	22	N/A	274	274	N/A	N/A

EAST-WEST CRITICAL VOLUMES 302
 NORTH-SOUTH CRITICAL VOLUMES 653

 THE SUM OF CRITICAL VOLUMES 955

 NUMBER OF CRITICAL CLEARANCE INTERVALS 2

 CMA VALUE 0.567

 LEVEL OF SERVICE A

 * Includes CMA value decreased due to ATSAC Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 22, OLYMPIC BOULEVARD (WB) & AVENUE OF THE STARS
 DATE: 6/13/2002 INITIALS: CT PERIOD: AM PEAK HOUR
 CASE: FUTURE (2005) WITH PROJECT

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	245	10	289	11
EASTBOUND	16	10	0	10
NORTHBOUND	10	1872	47	0
SOUTHBOUND	22	781	40	0

** NUMBER OF LANES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R		TOTAL LANES
	ONLY	SHARED		ONLY	SHARED	ONLY	SHARED	
WESTBOUND	0	1	0	0	1	0	0	2
EASTBOUND	0	1	0	0	1	0	0	2
NORTHBOUND	1	0	2	1	0	0	0	4
SOUTHBOUND	1	0	2	1	0	0	0	4

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R	
	ONLY	SHARED		ONLY	SHARED	ONLY	SHARED
WESTBOUND	N/A	255	N/A	N/A	289	N/A	N/A
EASTBOUND	N/A	26	N/A	N/A	0	N/A	N/A
NORTHBOUND	10	N/A	640	640	N/A	N/A	N/A
SOUTHBOUND	22	N/A	274	274	N/A	N/A	N/A

EAST-WEST CRITICAL VOLUMES 305
 NORTH-SOUTH CRITICAL VOLUMES 662

 THE SUM OF CRITICAL VOLUMES 967

 NUMBER OF CRITICAL CLEARANCE INTERVALS 2

 CMA VALUE 0.575

 LEVEL OF SERVICE A

 * Includes CMA value decreased due to ATSAC Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 22, OLYMPIC BOULEVARD (WB) & AVENUE OF THE STARS
 DATE: 6/21/2002 INITIALS: CT PERIOD: AM PEAK HOUR
 CASE: FUTURE (2005) WITH PROJECT PLUS MITIGATION

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	245	10	288	11
EASTBOUND	16	10	0	10
NORTHBOUND	10	1862	47	0
SOUTHBOUND	22	781	40	0

** NUMBER OF LANES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R	TOTAL
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED	LANES
WESTBOUND	0	1	0	0	1	0	2
EASTBOUND	0	1	0	0	1	0	2
NORTHBOUND	1	0	2	1	0	0	4
SOUTHBOUND	1	0	2	1	0	0	4

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED
WESTBOUND	N/A	255	N/A	N/A	288	N/A
EASTBOUND	N/A	26	N/A	N/A	0	N/A
NORTHBOUND	10	N/A	636	636	N/A	N/A
SOUTHBOUND	22	N/A	274	274	N/A	N/A

EAST-WEST CRITICAL VOLUMES 304
 NORTH-SOUTH CRITICAL VOLUMES 658

 THE SUM OF CRITICAL VOLUMES 962

 NUMBER OF CRITICAL CLEARANCE INTERVALS 2

 CMA VALUE 0.571

 LEVEL OF SERVICE A

 * Includes CMA value decreased due to ATSAC Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 22, OLYMPIC BOULEVARD (WB) & AVENUE OF THE STARS
DATE: 6/13/2002 INITIALS: CT PERIOD: PM PEAK HOUR
CASE: EXISTING (2001)

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	157	6	250	73
EASTBOUND	20	1	5	6
NORTHBOUND	12	812	123	0
SOUTHBOUND	110	1299	40	0

** NUMBER OF LANES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R		TOTAL LANES
	ONLY	SHARED		SHARED	ONLY	SHARED	SHARED	
WESTBOUND	0	1	0	0	1	0	0	2
EASTBOUND	0	1	0	0	1	0	0	2
NORTHBOUND	1	0	2	1	0	0	0	4
SOUTHBOUND	1	0	2	1	0	0	0	4

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R	
	ONLY	SHARED		SHARED	ONLY	SHARED	SHARED
WESTBOUND	N/A	163	N/A	N/A	250	N/A	N/A
EASTBOUND	N/A	21	N/A	N/A	5	N/A	N/A
NORTHBOUND	12	N/A	312	312	N/A	N/A	N/A
SOUTHBOUND	110	N/A	446	446	N/A	N/A	N/A

EAST-WEST CRITICAL VOLUMES 270
 NORTH-SOUTH CRITICAL VOLUMES 458

 THE SUM OF CRITICAL VOLUMES 728

 NUMBER OF CRITICAL CLEARANCE INTERVALS 2

 CMA VALUE 0.415

 LEVEL OF SERVICE A

 * Includes CMA value decreased due to ATSAC Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 22, OLYMPIC BOULEVARD (WB) & AVENUE OF THE STARS
 DATE: 6/13/2002 INITIALS: CT PERIOD: PM PEAK HOUR
 CASE: FUTURE (2005) WITHOUT PROJECT

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	174	6	192	86
EASTBOUND	21	1	6	6
NORTHBOUND	13	1093	195	0
SOUTHBOUND	122	1722	42	0

** NUMBER OF LANES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R SHARED	TOTAL LANES
	ONLY	SHARED		SHARED	ONLY		
WESTBOUND	0	1	0	0	1	0	2
EASTBOUND	0	1	0	0	1	0	2
NORTHBOUND	1	0	2	1	0	0	4
SOUTHBOUND	1	0	2	1	0	0	4

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R SHARED
	ONLY	SHARED		SHARED	ONLY	
WESTBOUND	N/A	180	N/A	N/A	192	N/A
EASTBOUND	N/A	22	N/A	N/A	6	N/A
NORTHBOUND	13	N/A	429	429	N/A	N/A
SOUTHBOUND	122	N/A	588	588	N/A	N/A

EAST-WEST CRITICAL VOLUMES 213
 NORTH-SOUTH CRITICAL VOLUMES 601

 THE SUM OF CRITICAL VOLUMES 814

 NUMBER OF CRITICAL CLEARANCE INTERVALS 2

 CMA VALUE 0.473

 LEVEL OF SERVICE A

 * Includes CMA value decreased due to ATSAC Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 22, OLYMPIC BOULEVARD (WB) & AVENUE OF THE STARS
 DATE: 6/13/2002 INITIALS: CT PERIOD: PM PEAK HOUR
 CASE: FUTURE (2005) WITH PROJECT

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	174	10	144	114
EASTBOUND	21	10	6	6
NORTHBOUND	13	922	195	0
SOUTHBOUND	122	1720	42	0

** NUMBER OF LANES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R		TOTAL LANES
	ONLY	SHARED		SHARED	ONLY	SHARED	SHARED	
WESTBOUND	0	1	0	0	1	0	0	2
EASTBOUND	0	1	0	0	1	0	0	2
NORTHBOUND	1	0	2	1	0	0	0	4
SOUTHBOUND	1	0	2	1	0	0	0	4

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R	
	ONLY	SHARED		SHARED	ONLY	SHARED	SHARED
WESTBOUND	N/A	184	N/A	N/A	144	N/A	N/A
EASTBOUND	N/A	31	N/A	N/A	6	N/A	N/A
NORTHBOUND	13	N/A	372	372	N/A	N/A	N/A
SOUTHBOUND	122	N/A	587	587	N/A	N/A	N/A

EAST-WEST CRITICAL VOLUMES 205
 NORTH-SOUTH CRITICAL VOLUMES 600

 THE SUM OF CRITICAL VOLUMES 805

 NUMBER OF CRITICAL CLEARANCE INTERVALS 2

 CMA VALUE 0.467

 LEVEL OF SERVICE A

 * Includes CMA value decreased due to ATSAC Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 22, OLYMPIC BOULEVARD (WB) & AVENUE OF THE STARS
 DATE: 6/21/2002 INITIALS: CT PERIOD: PM PEAK HOUR
 CASE: FUTURE (2005) WITH PROJECT PLUS MITIGATION

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	174	10	143	114
EASTBOUND	21	10	6	6
NORTHBOUND	13	920	195	0
SOUTHBOUND	122	1719	42	0

** NUMBER OF LANES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R	TOTAL
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED	LANES
WESTBOUND	0	1	0	0	1	0	2
EASTBOUND	0	1	0	0	1	0	2
NORTHBOUND	1	0	2	1	0	0	4
SOUTHBOUND	1	0	2	1	0	0	4

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED
WESTBOUND	N/A	184	N/A	N/A	143	N/A
EASTBOUND	N/A	31	N/A	N/A	6	N/A
NORTHBOUND	13	N/A	372	372	N/A	N/A
SOUTHBOUND	122	N/A	587	587	N/A	N/A

EAST-WEST CRITICAL VOLUMES 205
 NORTH-SOUTH CRITICAL VOLUMES 600

 THE SUM OF CRITICAL VOLUMES 805

 NUMBER OF CRITICAL CLEARANCE INTERVALS 2

 CMA VALUE 0.467

 LEVEL OF SERVICE A

 * Includes CMA value decreased due to ATSAC Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 23, OLYMPIC BOULEVARD (EB) & AVENUE OF THE STARS
DATE: 6/21/2002 INITIALS: CT PERIOD: AM PEAK HOUR
CASE: EXISTING (2001)

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	102	26	289	10
EASTBOUND	6	5	0	3
NORTHBOUND	50	1181	24	0
SOUTHBOUND	37	575	143	0

** NUMBER OF LANES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R	TOTAL LANES
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED	
WESTBOUND	0	0	0	0	1	1	2
EASTBOUND	0	1	1	0	1	0	3
NORTHBOUND	1	0	2	1	0	0	4
SOUTHBOUND	2	0	2	1	0	0	5

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED
WESTBOUND	N/A	N/A	N/A	N/A	208	208
EASTBOUND	6	N/A	5	N/A	0	N/A
NORTHBOUND	50	N/A	402	402	N/A	N/A
SOUTHBOUND	20	N/A	239	239	N/A	N/A

EAST-WEST CRITICAL VOLUMES 214
 NORTH-SOUTH CRITICAL VOLUMES 422

 THE SUM OF CRITICAL VOLUMES 636

 NUMBER OF CRITICAL CLEARANCE INTERVALS 3

 CMA VALUE 0.379

 LEVEL OF SERVICE A

 * Includes CMA value decreased due to ATSAC Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 23, OLYMPIC BOULEVARD (EB) & AVENUE OF THE STARS
 DATE: 6/21/2002 INITIALS: CT PERIOD: AM PEAK HOUR
 CASE: FUTURE (2005) WITHOUT PROJECT

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	125	28	323	12
EASTBOUND	6	5	0	3
NORTHBOUND	53	1570	28	0
SOUTHBOUND	44	820	152	0

** NUMBER OF LANES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R	TOTAL
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED	LANES
WESTBOUND	0	0	0	0	1	1	2
EASTBOUND	0	1	1	0	1	0	3
NORTHBOUND	1	0	2	1	0	0	4
SOUTHBOUND	2	0	2	1	0	0	5

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED
WESTBOUND	N/A	N/A	N/A	N/A	238	238
EASTBOUND	6	N/A	5	N/A	0	N/A
NORTHBOUND	53	N/A	533	533	N/A	N/A
SOUTHBOUND	24	N/A	324	324	N/A	N/A

EAST-WEST CRITICAL VOLUMES 244
 NORTH-SOUTH CRITICAL VOLUMES 557

 THE SUM OF CRITICAL VOLUMES 801

 NUMBER OF CRITICAL CLEARANCE INTERVALS 3

 CMA VALUE 0.492

 LEVEL OF SERVICE A

 * Includes CMA value decreased due to ATSAC Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 23, OLYMPIC BOULEVARD (EB) & AVENUE OF THE STARS
 DATE: 6/21/2002 INITIALS: CT PERIOD: AM PEAK HOUR
 CASE: FUTURE (2005) WITH PROJECT

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	125	28	329	12
EASTBOUND	10	10	0	10
NORTHBOUND	53	1589	28	0
SOUTHBOUND	44	818	152	0

** NUMBER OF LANES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R	TOTAL LANES
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED	
WESTBOUND	0	0	0	0	1	1	2
EASTBOUND	0	1	1	0	1	0	3
NORTHBOUND	1	0	2	1	0	0	4
SOUTHBOUND	2	0	2	1	0	0	5

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED
WESTBOUND	N/A	N/A	N/A	N/A	241	241
EASTBOUND	10	N/A	10	N/A	0	N/A
NORTHBOUND	53	N/A	539	539	N/A	N/A
SOUTHBOUND	24	N/A	323	323	N/A	N/A

EAST-WEST CRITICAL VOLUMES 251
 NORTH-SOUTH CRITICAL VOLUMES 563

 THE SUM OF CRITICAL VOLUMES 814

 NUMBER OF CRITICAL CLEARANCE INTERVALS 3

 CMA VALUE 0.501

 LEVEL OF SERVICE A

 * Includes CMA value decreased due to ATSAC Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 23, OLYMPIC BOULEVARD (EB) & AVENUE OF THE STARS
 DATE: 6/21/2002 INITIALS: CT PERIOD: AM PEAK HOUR
 CASE: FUTURE (2005) WITH PROJECT PLUS MITIGATION

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	125	28	327	12
EASTBOUND	10	10	0	10
NORTHBOUND	53	1581	28	0
SOUTHBOUND	44	818	152	0

** NUMBER OF LANES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R	TOTAL LANES
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED	
WESTBOUND	0	0	0	0	1	1	2
EASTBOUND	0	1	1	0	1	0	3
NORTHBOUND	1	0	2	1	0	0	4
SOUTHBOUND	2	0	2	1	0	0	5

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED
WESTBOUND	N/A	N/A	N/A	N/A	240	240
EASTBOUND	10	N/A	10	N/A	0	N/A
NORTHBOUND	53	N/A	536	536	N/A	N/A
SOUTHBOUND	24	N/A	323	323	N/A	N/A

EAST-WEST CRITICAL VOLUMES 250
 NORTH-SOUTH CRITICAL VOLUMES 560

 THE SUM OF CRITICAL VOLUMES 810

 NUMBER OF CRITICAL CLEARANCE INTERVALS 3

 CMA VALUE 0.498

 LEVEL OF SERVICE A

 * Includes CMA value decreased due to ATSAC Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 23, OLYMPIC BOULEVARD (EB) & AVENUE OF THE STARS
DATE: 6/21/2002 INITIALS: CT PERIOD: PM PEAK HOUR
CASE: EXISTING (2001)

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	56	5	12	108
EASTBOUND	66	33	28	11
NORTHBOUND	22	627	97	0
SOUTHBOUND	192	1260	46	0

** NUMBER OF LANES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R SHARED	TOTAL LANES
	ONLY	SHARED		ONLY	SHARED		
WESTBOUND	0	0	0	0	1	1	2
EASTBOUND	0	1	1	0	1	0	3
NORTHBOUND	1	0	2	1	0	0	4
SOUTHBOUND	2	0	2	1	0	0	5

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R SHARED
	ONLY	SHARED		ONLY	SHARED	
WESTBOUND	N/A	61	N/A	N/A	12	N/A
EASTBOUND	66	N/A	33	N/A	28	N/A
NORTHBOUND	22	N/A	241	241	N/A	N/A
SOUTHBOUND	106	N/A	435	435	N/A	N/A

EAST-WEST CRITICAL VOLUMES 127
 NORTH-SOUTH CRITICAL VOLUMES 457

 THE SUM OF CRITICAL VOLUMES 584

 NUMBER OF CRITICAL CLEARANCE INTERVALS 3

 CMA VALUE 0.348

 LEVEL OF SERVICE A

 * Includes CMA value decreased due to ATSAC Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 23, OLYMPIC BOULEVARD (EB) & AVENUE OF THE STARS
DATE: 6/21/2002 INITIALS: CT PERIOD: PM PEAK HOUR
CASE: FUTURE (2005) WITHOUT PROJECT

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	61	5	12	118
EASTBOUND	70	35	29	12
NORTHBOUND	23	956	123	0
SOUTHBOUND	223	1667	49	0

** NUMBER OF LANES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R	TOTAL
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED	LANES
WESTBOUND	0	0	0	0	1	1	2
EASTBOUND	0	1	1	0	1	0	3
NORTHBOUND	1	0	2	1	0	0	4
SOUTHBOUND	2	0	2	1	0	0	5

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED
WESTBOUND	N/A	66	N/A	N/A	12	N/A
EASTBOUND	70	N/A	35	N/A	29	N/A
NORTHBOUND	23	N/A	360	360	N/A	N/A
SOUTHBOUND	123	N/A	572	572	N/A	N/A

EAST-WEST CRITICAL VOLUMES 136
 NORTH-SOUTH CRITICAL VOLUMES 595

 THE SUM OF CRITICAL VOLUMES 731

 NUMBER OF CRITICAL CLEARANCE INTERVALS 3

 CMA VALUE 0.443

 LEVEL OF SERVICE A

 * Includes CMA value decreased due to ATSAC Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 23, OLYMPIC BOULEVARD (EB) & AVENUE OF THE STARS
 DATE: 6/21/2002 INITIALS: CT PERIOD: PM PEAK HOUR
 CASE: FUTURE (2005) WITH PROJECT

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	61	10	0	89
EASTBOUND	70	35	29	12
NORTHBOUND	23	826	123	0
SOUTHBOUND	223	1665	49	0

** NUMBER OF LANES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R	TOTAL
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED	LANES
WESTBOUND	0	0	0	0	1	1	2
EASTBOUND	0	1	1	0	1	0	3
NORTHBOUND	1	0	2	1	0	0	4
SOUTHBOUND	2	0	2	1	0	0	5

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED
WESTBOUND	N/A	71	N/A	N/A	0	N/A
EASTBOUND	70	N/A	35	N/A	29	N/A
NORTHBOUND	23	N/A	316	316	N/A	N/A
SOUTHBOUND	123	N/A	571	571	N/A	N/A

EAST-WEST CRITICAL VOLUMES 141
 NORTH-SOUTH CRITICAL VOLUMES 594

 THE SUM OF CRITICAL VOLUMES 735

 NUMBER OF CRITICAL CLEARANCE INTERVALS 3

 CMA VALUE 0.446

 LEVEL OF SERVICE A

 * Includes CMA value decreased due to ATSAC Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 23, OLYMPIC BOULEVARD (EB) & AVENUE OF THE STARS
 DATE: 6/21/2002 INITIALS: CT PERIOD: PM PEAK HOUR
 CASE: FUTURE (2005) WITH PROJECT PLUS MITIGATION

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	61	10	0	89
EASTBOUND	70	35	29	12
NORTHBOUND	23	825	123	0
SOUTHBOUND	223	1664	49	0

** NUMBER OF LANES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R	TOTAL
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED	LANES
WESTBOUND	0	0	0	0	1	1	2
EASTBOUND	0	1	1	0	1	0	3
NORTHBOUND	1	0	2	1	0	0	4
SOUTHBOUND	2	0	2	1	0	0	5

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED
WESTBOUND	N/A	71	N/A	N/A	0	N/A
EASTBOUND	70	N/A	35	N/A	29	N/A
NORTHBOUND	23	N/A	316	316	N/A	N/A
SOUTHBOUND	123	N/A	571	571	N/A	N/A

EAST-WEST CRITICAL VOLUMES 141
 NORTH-SOUTH CRITICAL VOLUMES 594

 THE SUM OF CRITICAL VOLUMES 735

 NUMBER OF CRITICAL CLEARANCE INTERVALS 3

 CMA VALUE 0.446

 LEVEL OF SERVICE A

 * Includes CMA value decreased due to ATSAC Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 24, OLYMPIC BOULEVARD & CENTURY PARK EAST
DATE: 6/13/2002 INITIALS: CT PERIOD: AM PEAK HOUR
CASE: EXISTING (2001)

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	0	2633	469	0
EASTBOUND	0	1948	51	0
NORTHBOUND	419	847	112	0
SOUTHBOUND	130	147	119	0

** NUMBER OF LANES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R SHARED	TOTAL LANES
	ONLY	SHARED		ONLY	SHARED		
WESTBOUND	0	0	3	1	0	0	4
EASTBOUND	0	0	2	1	0	0	3
NORTHBOUND	2	0	1	1	0	0	4
SOUTHBOUND	2	0	2	0	2	0	6

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R	
	ONLY	SHARED		ONLY	SHARED	ONLY	SHARED
WESTBOUND	N/A	N/A	776	776	N/A	N/A	N/A
EASTBOUND	N/A	N/A	666	666	N/A	N/A	N/A
NORTHBOUND	230	N/A	480	480	N/A	N/A	N/A
SOUTHBOUND	71	N/A	74	N/A	60	N/A	N/A

EAST-WEST CRITICAL VOLUMES 776
 NORTH-SOUTH CRITICAL VOLUMES 551

 THE SUM OF CRITICAL VOLUMES 1327

 NUMBER OF CRITICAL CLEARANCE INTERVALS 3

 CMA VALUE 0.861

 LEVEL OF SERVICE D

 * Includes CMA value decreased due to ATSAC Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 24, OLYMPIC BOULEVARD & CENTURY PARK EAST
DATE: 6/13/2002 INITIALS: CT PERIOD: AM PEAK HOUR
CASE: FUTURE (2005) WITHOUT PROJECT

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	0	2981	610	0
EASTBOUND	0	2119	61	0
NORTHBOUND	476	998	119	0
SOUTHBOUND	196	194	111	0

** NUMBER OF LANES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R	TOTAL
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED	LANES
WESTBOUND	0	0	3	1	0	0	4
EASTBOUND	0	0	2	1	0	0	3
NORTHBOUND	2	0	1	1	0	0	4
SOUTHBOUND	2	0	2	0	2	0	6

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED
WESTBOUND	N/A	N/A	898	898	N/A	N/A
EASTBOUND	N/A	N/A	727	727	N/A	N/A
NORTHBOUND	262	N/A	558	558	N/A	N/A
SOUTHBOUND	108	N/A	97	N/A	56	N/A

EAST-WEST CRITICAL VOLUMES 898
 NORTH-SOUTH CRITICAL VOLUMES 666

 THE SUM OF CRITICAL VOLUMES 1564

 NUMBER OF CRITICAL CLEARANCE INTERVALS 3

 CMA VALUE 0.998

 LEVEL OF SERVICE E

 * Includes CMA value decreased due to ATCS Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 24, OLYMPIC BOULEVARD & CENTURY PARK EAST
DATE: 6/13/2002 INITIALS: CT PERIOD: AM PEAK HOUR
CASE: FUTURE (2005) WITH PROJECT

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	0	2995	610	0
EASTBOUND	0	2119	61	0
NORTHBOUND	481	998	119	0
SOUTHBOUND	178	192	82	0

** NUMBER OF LANES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R		TOTAL LANES
	ONLY	SHARED		SHARED	ONLY	SHARED	SHARED	
WESTBOUND	0	0	3	1	0	0	0	4
EASTBOUND	0	0	2	1	0	0	0	3
NORTHBOUND	2	0	1	1	0	0	0	4
SOUTHBOUND	2	0	2	0	2	0	0	6

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R	
	ONLY	SHARED		SHARED	ONLY	SHARED	SHARED
WESTBOUND	N/A	N/A	901	901	N/A	N/A	N/A
EASTBOUND	N/A	N/A	727	727	N/A	N/A	N/A
NORTHBOUND	265	N/A	558	558	N/A	N/A	N/A
SOUTHBOUND	98	N/A	96	N/A	41	N/A	N/A

EAST-WEST CRITICAL VOLUMES 901
 NORTH-SOUTH CRITICAL VOLUMES 656

 THE SUM OF CRITICAL VOLUMES 1557

 NUMBER OF CRITICAL CLEARANCE INTERVALS 3

 CMA VALUE 0.993

 LEVEL OF SERVICE E

 * Includes CMA value decreased due to ATCS Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 24, OLYMPIC BOULEVARD & CENTURY PARK EAST
 DATE: 6/21/2002 INITIALS: CT PERIOD: AM PEAK HOUR
 CASE: FUTURE (2005) WITH PROJECT PLUS MITIGATION

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	0	2989	610	0
EASTBOUND	0	2119	61	0
NORTHBOUND	479	998	119	0
SOUTHBOUND	177	192	81	0

** NUMBER OF LANES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R	TOTAL
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED	LANES
WESTBOUND	0	0	3	1	0	0	4
EASTBOUND	0	0	2	1	0	0	3
NORTHBOUND	2	0	1	1	0	0	4
SOUTHBOUND	2	0	2	0	2	0	6

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED
WESTBOUND	N/A	N/A	900	900	N/A	N/A
EASTBOUND	N/A	N/A	727	727	N/A	N/A
NORTHBOUND	264	N/A	558	558	N/A	N/A
SOUTHBOUND	97	N/A	96	N/A	40	N/A

EAST-WEST CRITICAL VOLUMES 900
 NORTH-SOUTH CRITICAL VOLUMES 655

 THE SUM OF CRITICAL VOLUMES 1555

 NUMBER OF CRITICAL CLEARANCE INTERVALS 3

 CMA VALUE 0.991

 LEVEL OF SERVICE E

 * Includes CMA value decreased due to ATCS Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 24, OLYMPIC BOULEVARD & CENTURY PARK EAST
DATE: 6/13/2002 INITIALS: CT PERIOD: PM PEAK HOUR
CASE: EXISTING (2001)

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	0	2531	249	0
EASTBOUND	0	2218	95	0
NORTHBOUND	88	234	127	0
SOUTHBOUND	600	571	585	38

** NUMBER OF LANES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R	TOTAL
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED	LANES
WESTBOUND	0	0	3	1	0	0	4
EASTBOUND	0	0	2	1	0	0	3
NORTHBOUND	2	0	1	1	0	0	4
SOUTHBOUND	2	0	2	0	2	0	6

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED
WESTBOUND	N/A	N/A	695	695	N/A	N/A
EASTBOUND	N/A	N/A	771	771	N/A	N/A
NORTHBOUND	48	N/A	180	180	N/A	N/A
SOUTHBOUND	330	N/A	286	N/A	292	N/A

EAST-WEST CRITICAL VOLUMES 771
 NORTH-SOUTH CRITICAL VOLUMES 510

 THE SUM OF CRITICAL VOLUMES 1281

 NUMBER OF CRITICAL CLEARANCE INTERVALS 3

 CMA VALUE 0.829

 LEVEL OF SERVICE D

 * Includes CMA value decreased due to ATSAC Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 24, OLYMPIC BOULEVARD & CENTURY PARK EAST
DATE: 6/13/2002 INITIALS: CT PERIOD: PM PEAK HOUR
CASE: FUTURE (2005) WITHOUT PROJECT

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	0	2804	336	0
EASTBOUND	0	2537	127	0
NORTHBOUND	100	277	138	0
SOUTHBOUND	749	668	514	52

** NUMBER OF LANES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R		TOTAL LANES
	ONLY	SHARED		ONLY	SHARED	ONLY	SHARED	
WESTBOUND	0	0	3	1	0	0	0	4
EASTBOUND	0	0	2	1	0	0	0	3
NORTHBOUND	2	0	1	1	0	0	0	4
SOUTHBOUND	2	0	2	0	2	0	0	6

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R	
	ONLY	SHARED		ONLY	SHARED	ONLY	SHARED
WESTBOUND	N/A	N/A	785	785	N/A	N/A	N/A
EASTBOUND	N/A	N/A	888	888	N/A	N/A	N/A
NORTHBOUND	55	N/A	208	208	N/A	N/A	N/A
SOUTHBOUND	412	N/A	334	N/A	257	N/A	N/A

EAST-WEST CRITICAL VOLUMES 888
 NORTH-SOUTH CRITICAL VOLUMES 620

 THE SUM OF CRITICAL VOLUMES 1508

 NUMBER OF CRITICAL CLEARANCE INTERVALS 3

 CMA VALUE 0.958

 LEVEL OF SERVICE E

 * Includes CMA value decreased due to ATCS Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 24, OLYMPIC BOULEVARD & CENTURY PARK EAST
DATE: 6/13/2002 INITIALS: CT PERIOD: PM PEAK HOUR
CASE: FUTURE (2005) WITH PROJECT

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	0	2708	336	0
EASTBOUND	0	2537	127	0
NORTHBOUND	66	277	138	0
SOUTHBOUND	727	666	467	64

** NUMBER OF LANES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R		TOTAL LANES
	ONLY	SHARED		SHARED	ONLY	SHARED	SHARED	
WESTBOUND	0	0	3	1	0	0	0	4
EASTBOUND	0	0	2	1	0	0	0	3
NORTHBOUND	2	0	1	1	0	0	0	4
SOUTHBOUND	2	0	2	0	2	0	0	6

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R	
	ONLY	SHARED		SHARED	ONLY	SHARED	SHARED
WESTBOUND	N/A	N/A	761	761	N/A	N/A	N/A
EASTBOUND	N/A	N/A	888	888	N/A	N/A	N/A
NORTHBOUND	36	N/A	208	208	N/A	N/A	N/A
SOUTHBOUND	400	N/A	333	N/A	234	N/A	N/A

EAST-WEST CRITICAL VOLUMES 888
 NORTH-SOUTH CRITICAL VOLUMES 608

 THE SUM OF CRITICAL VOLUMES 1496

 NUMBER OF CRITICAL CLEARANCE INTERVALS 3

 CMA VALUE 0.950

 LEVEL OF SERVICE E

 * Includes CMA value decreased due to ATCS Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 24, OLYMPIC BOULEVARD & CENTURY PARK EAST
DATE: 6/21/2002 INITIALS: CT PERIOD: PM PEAK HOUR
CASE: FUTURE (2005) WITH PROJECT PLUS MITIGATION

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	0	2707	336	0
EASTBOUND	0	2537	127	0
NORTHBOUND	65	277	138	0
SOUTHBOUND	724	665	462	64

** NUMBER OF LANES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R		TOTAL LANES
	ONLY	SHARED		ONLY	SHARED	ONLY	SHARED	
WESTBOUND	0	0	3	1	0	0	0	4
EASTBOUND	0	0	2	1	0	0	0	3
NORTHBOUND	2	0	1	1	0	0	0	4
SOUTHBOUND	2	0	2	0	2	0	0	6

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R	
	ONLY	SHARED		ONLY	SHARED	ONLY	SHARED
WESTBOUND	N/A	N/A	761	761	N/A	N/A	N/A
EASTBOUND	N/A	N/A	888	888	N/A	N/A	N/A
NORTHBOUND	36	N/A	208	208	N/A	N/A	N/A
SOUTHBOUND	398	N/A	332	N/A	231	N/A	N/A

EAST-WEST CRITICAL VOLUMES 888
 NORTH-SOUTH CRITICAL VOLUMES 606

 THE SUM OF CRITICAL VOLUMES 1494

 NUMBER OF CRITICAL CLEARANCE INTERVALS 3

 CMA VALUE 0.948

 LEVEL OF SERVICE E

 * Includes CMA value decreased due to ATCS Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 25, OLYMPIC BOULEVARD & SPALDING DRIVE
 DATE: 6/13/2002 INITIALS: CT PERIOD: AM PEAK HOUR
 CASE: EXISTING (2001)

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	9	2704	96	0
EASTBOUND	212	1708	18	0
NORTHBOUND	106	50	20	0
SOUTHBOUND	127	35	223	106

** NUMBER OF LANES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R	TOTAL
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED	LANES
WESTBOUND	1	0	2	1	0	0	4
EASTBOUND	1	0	2	1	0	0	4
NORTHBOUND	0	0	0	0	0	1	1
SOUTHBOUND	0	1	0	0	1	0	2

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED
WESTBOUND	9	N/A	933	933	N/A	N/A
EASTBOUND	212	N/A	575	575	N/A	N/A
NORTHBOUND	N/A	N/A	N/A	N/A	N/A	176
SOUTHBOUND	N/A	162	N/A	N/A	223	N/A

EAST-WEST CRITICAL VOLUMES 1145
 NORTH-SOUTH CRITICAL VOLUMES 329

 THE SUM OF CRITICAL VOLUMES 1474

 NUMBER OF CRITICAL CLEARANCE INTERVALS 2

 CMA VALUE 0.983

 LEVEL OF SERVICE E

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 25, OLYMPIC BOULEVARD & SPALDING DRIVE
 DATE: 6/13/2002 INITIALS: CT PERIOD: AM PEAK HOUR
 CASE: FUTURE (2005) WITHOUT PROJECT

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	10	3155	132	0
EASTBOUND	253	1895	19	0
NORTHBOUND	113	53	21	0
SOUTHBOUND	165	37	236	126

** NUMBER OF LANES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R	TOTAL LANES
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED	
WESTBOUND	1	0	2	1	0	0	4
EASTBOUND	1	0	2	1	0	0	4
NORTHBOUND	0	0	0	0	0	1	1
SOUTHBOUND	0	1	0	0	1	0	2

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED
WESTBOUND	10	N/A	1096	1096	N/A	N/A
EASTBOUND	253	N/A	638	638	N/A	N/A
NORTHBOUND	N/A	N/A	N/A	N/A	N/A	187
SOUTHBOUND	N/A	202	N/A	N/A	236	N/A

EAST-WEST CRITICAL VOLUMES 1349
 NORTH-SOUTH CRITICAL VOLUMES 352

 THE SUM OF CRITICAL VOLUMES 1701

 NUMBER OF CRITICAL CLEARANCE INTERVALS 2

 CMA VALUE 1.134

 LEVEL OF SERVICE F

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 25, OLYMPIC BOULEVARD & SPALDING DRIVE
 DATE: 6/13/2002 INITIALS: CT PERIOD: AM PEAK HOUR
 CASE: FUTURE (2005) WITH PROJECT

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	10	3169	132	0
EASTBOUND	253	1877	19	0
NORTHBOUND	113	53	21	0
SOUTHBOUND	165	37	236	126

** NUMBER OF LANES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R		TOTAL LANES
	ONLY	SHARED		SHARED	ONLY	SHARED	SHARED	
WESTBOUND	1	0	2	1	0	0	0	4
EASTBOUND	1	0	2	1	0	0	0	4
NORTHBOUND	0	0	0	0	0	1	1	1
SOUTHBOUND	0	1	0	0	1	0	0	2

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R	
	ONLY	SHARED		SHARED	ONLY	SHARED	SHARED
WESTBOUND	10	N/A	1100	1100	N/A	N/A	N/A
EASTBOUND	253	N/A	632	632	N/A	N/A	N/A
NORTHBOUND	N/A	N/A	N/A	N/A	N/A	N/A	187
SOUTHBOUND	N/A	202	N/A	N/A	236	N/A	N/A

EAST-WEST CRITICAL VOLUMES 1353
 NORTH-SOUTH CRITICAL VOLUMES 352

 THE SUM OF CRITICAL VOLUMES 1705

 NUMBER OF CRITICAL CLEARANCE INTERVALS 2

 CMA VALUE 1.137

 LEVEL OF SERVICE F

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 25, OLYMPIC BOULEVARD & SPALDING DRIVE
 DATE: 6/21/2002 INITIALS: CT PERIOD: AM PEAK HOUR
 CASE: FUTURE (2005) WITH PROJECT PLUS MITIGATION

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	10	3163	132	0
EASTBOUND	253	1876	19	0
NORTHBOUND	113	53	21	0
SOUTHBOUND	165	37	236	126

** NUMBER OF LANES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R	TOTAL
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED	LANES
WESTBOUND	1	0	2	1	0	0	4
EASTBOUND	1	0	2	1	0	0	4
NORTHBOUND	0	0	0	0	0	1	1
SOUTHBOUND	0	1	0	0	1	0	2

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED
WESTBOUND	10	N/A	1098	1098	N/A	N/A
EASTBOUND	253	N/A	632	632	N/A	N/A
NORTHBOUND	N/A	N/A	N/A	N/A	N/A	187
SOUTHBOUND	N/A	202	N/A	N/A	236	N/A

EAST-WEST CRITICAL VOLUMES 1351
 NORTH-SOUTH CRITICAL VOLUMES 352

 THE SUM OF CRITICAL VOLUMES 1703

 NUMBER OF CRITICAL CLEARANCE INTERVALS 2

 CMA VALUE 1.135

 LEVEL OF SERVICE F

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 25, OLYMPIC BOULEVARD & SPALDING DRIVE
DATE: 6/13/2002 INITIALS: CT PERIOD: PM PEAK HOUR
CASE: EXISTING (2001)

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	26	2345	70	0
EASTBOUND	185	2131	13	0
NORTHBOUND	20	19	26	0
SOUTHBOUND	213	75	207	92

** NUMBER OF LANES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R	TOTAL
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED	LANES
WESTBOUND	1	0	2	1	0	0	4
EASTBOUND	1	0	2	1	0	0	4
NORTHBOUND	0	0	0	0	0	1	1
SOUTHBOUND	0	1	0	0	1	0	2

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED
WESTBOUND	26	N/A	805	805	N/A	N/A
EASTBOUND	185	N/A	715	715	N/A	N/A
NORTHBOUND	N/A	N/A	N/A	N/A	N/A	65
SOUTHBOUND	N/A	288	N/A	N/A	207	N/A

EAST-WEST CRITICAL VOLUMES	990
NORTH-SOUTH CRITICAL VOLUMES	308

THE SUM OF CRITICAL VOLUMES	1298
NUMBER OF CRITICAL CLEARANCE INTERVALS	2
CMA VALUE	0.865
LEVEL OF SERVICE	D

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 25, OLYMPIC BOULEVARD & SPALDING DRIVE
 DATE: 6/13/2002 INITIALS: CT PERIOD: PM PEAK HOUR
 CASE: FUTURE (2005) WITHOUT PROJECT

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	28	2643	106	0
EASTBOUND	215	2541	14	0
NORTHBOUND	21	20	28	0
SOUTHBOUND	257	80	244	108

** NUMBER OF LANES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R	TOTAL
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED	LANES
WESTBOUND	1	0	2	1	0	0	4
EASTBOUND	1	0	2	1	0	0	4
NORTHBOUND	0	0	0	0	0	1	1
SOUTHBOUND	0	1	0	0	1	0	2

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED
WESTBOUND	28	N/A	916	916	N/A	N/A
EASTBOUND	215	N/A	852	852	N/A	N/A
NORTHBOUND	N/A	N/A	N/A	N/A	N/A	69
SOUTHBOUND	N/A	337	N/A	N/A	244	N/A

EAST-WEST CRITICAL VOLUMES 1131
 NORTH-SOUTH CRITICAL VOLUMES 358

 THE SUM OF CRITICAL VOLUMES 1489

 NUMBER OF CRITICAL CLEARANCE INTERVALS 2

 CMA VALUE 0.993

 LEVEL OF SERVICE E

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 25, OLYMPIC BOULEVARD & SPALDING DRIVE
DATE: 6/13/2002 INITIALS: CT PERIOD: PM PEAK HOUR
CASE: FUTURE (2005) WITH PROJECT

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	28	2547	106	0
EASTBOUND	215	2519	14	0
NORTHBOUND	21	20	28	0
SOUTHBOUND	257	80	244	108

** NUMBER OF LANES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R	TOTAL
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED	LANES
WESTBOUND	1	0	2	1	0	0	4
EASTBOUND	1	0	2	1	0	0	4
NORTHBOUND	0	0	0	0	0	1	1
SOUTHBOUND	0	1	0	0	1	0	2

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED
WESTBOUND	28	N/A	884	884	N/A	N/A
EASTBOUND	215	N/A	844	844	N/A	N/A
NORTHBOUND	N/A	N/A	N/A	N/A	N/A	69
SOUTHBOUND	N/A	337	N/A	N/A	244	N/A

EAST-WEST CRITICAL VOLUMES 1099
 NORTH-SOUTH CRITICAL VOLUMES 358

 THE SUM OF CRITICAL VOLUMES 1457
 NUMBER OF CRITICAL CLEARANCE INTERVALS 2
 CMA VALUE 0.971
 LEVEL OF SERVICE E

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 25, OLYMPIC BOULEVARD & SPALDING DRIVE
 DATE: 6/21/2002 INITIALS: CT PERIOD: PM PEAK HOUR
 CASE: FUTURE (2005) WITH PROJECT PLUS MITIGATION

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	28	2546	106	0
EASTBOUND	215	2516	14	0
NORTHBOUND	21	20	28	0
SOUTHBOUND	257	80	244	108

** NUMBER OF LANES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R	TOTAL
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED	LANES
WESTBOUND	1	0	2	1	0	0	4
EASTBOUND	1	0	2	1	0	0	4
NORTHBOUND	0	0	0	0	0	1	1
SOUTHBOUND	0	1	0	0	1	0	2

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED
WESTBOUND	28	N/A	884	884	N/A	N/A
EASTBOUND	215	N/A	843	843	N/A	N/A
NORTHBOUND	N/A	N/A	N/A	N/A	N/A	69
SOUTHBOUND	N/A	337	N/A	N/A	244	N/A

EAST-WEST CRITICAL VOLUMES 1099
 NORTH-SOUTH CRITICAL VOLUMES 358

 THE SUM OF CRITICAL VOLUMES 1457

 NUMBER OF CRITICAL CLEARANCE INTERVALS 2

 CMA VALUE 0.971

 LEVEL OF SERVICE E

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 26, GALAXY WAY & AVENUE OF THE STARS
DATE: 6/13/2002 INITIALS: CT PERIOD: AM PEAK HOUR
CASE: EXISTING (2001)

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	22	31	37	22
EASTBOUND	18	3	15	0
NORTHBOUND	298	1216	25	0
SOUTHBOUND	45	402	289	9

** NUMBER OF LANES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R	TOTAL LANES
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED	
WESTBOUND	1	0	0	1	0	0	2
EASTBOUND	1	0	1	1	0	0	3
NORTHBOUND	1	0	2	1	0	0	4
SOUTHBOUND	1	0	2	1	0	0	4

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED
WESTBOUND	22	N/A	N/A	68	N/A	N/A
EASTBOUND	18	N/A	3	N/A	15	N/A
NORTHBOUND	298	N/A	414	414	N/A	N/A
SOUTHBOUND	45	N/A	201	N/A	289	N/A

EAST-WEST CRITICAL VOLUMES 86
 NORTH-SOUTH CRITICAL VOLUMES 587

 THE SUM OF CRITICAL VOLUMES 673

 NUMBER OF CRITICAL CLEARANCE INTERVALS 2

 CMA VALUE 0.381

 LEVEL OF SERVICE A

 * Includes CMA value decreased due to ATSAC Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 26, GALAXY WAY & AVENUE OF THE STARS
 DATE: 6/13/2002 INITIALS: CT PERIOD: AM PEAK HOUR
 CASE: FUTURE (2005) WITHOUT PROJECT

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	23	0	41	32
EASTBOUND	32	0	0	24
NORTHBOUND	417	1587	27	0
SOUTHBOUND	49	585	374	9

** NUMBER OF LANES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R		TOTAL LANES
	ONLY	SHARED		ONLY	SHARED	ONLY	SHARED	
WESTBOUND	1	0	0	0	1	0	2	
EASTBOUND	2	0	0	0	1	0	3	
NORTHBOUND	2	0	2	1	0	0	5	
SOUTHBOUND	1	0	2	1	0	0	4	

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R	
	ONLY	SHARED		ONLY	SHARED	ONLY	SHARED
WESTBOUND	23	N/A	N/A	N/A	41	N/A	
EASTBOUND	18	N/A	N/A	N/A	0	N/A	
NORTHBOUND	229	N/A	538	538	N/A	N/A	
SOUTHBOUND	49	N/A	292	N/A	374	N/A	

EAST-WEST CRITICAL VOLUMES 59
 NORTH-SOUTH CRITICAL VOLUMES 603

 THE SUM OF CRITICAL VOLUMES 662

 NUMBER OF CRITICAL CLEARANCE INTERVALS 3*

 CMA VALUE 0.372

 LEVEL OF SERVICE A

 * Includes CMA value decreased due to ATCS Implementation.

Eastbound and Westbound approaches have opposed signal phases.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 26, GALAXY WAY & AVENUE OF THE STARS
DATE: 6/13/2002 INITIALS: CT PERIOD: AM PEAK HOUR
CASE: FUTURE (2005) WITH PROJECT

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	23	0	43	30
EASTBOUND	32	0	0	24
NORTHBOUND	417	1606	27	0
SOUTHBOUND	49	583	374	9

** NUMBER OF LANES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R	TOTAL
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED	LANES
WESTBOUND	1	0	0	0	1	0	2
EASTBOUND	2	0	0	0	1	0	3
NORTHBOUND	2	0	2	1	0	0	5
SOUTHBOUND	1	0	2	1	0	0	4

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED
WESTBOUND	23	N/A	N/A	N/A	43	N/A
EASTBOUND	18	N/A	N/A	N/A	0	N/A
NORTHBOUND	229	N/A	544	544	N/A	N/A
SOUTHBOUND	49	N/A	292	N/A	374	N/A

EAST-WEST CRITICAL VOLUMES 61
 NORTH-SOUTH CRITICAL VOLUMES 603

 THE SUM OF CRITICAL VOLUMES 664

 NUMBER OF CRITICAL CLEARANCE INTERVALS 3*

 CMA VALUE 0.373

 LEVEL OF SERVICE A

 * Includes CMA value decreased due to ATCS Implementation.

Eastbound and Westbound approaches have opposed signal phases.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 26, GALAXY WAY & AVENUE OF THE STARS
 DATE: 6/21/2002 INITIALS: CT PERIOD: AM PEAK HOUR
 CASE: FUTURE (2005) WITH PROJECT PLUS MITIGATION

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	23	0	43	30
EASTBOUND	32	0	0	24
NORTHBOUND	417	1598	27	0
SOUTHBOUND	49	583	374	9

** NUMBER OF LANES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R	TOTAL
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED	LANES
WESTBOUND	1	0	0	0	1	0	2
EASTBOUND	2	0	0	0	1	0	3
NORTHBOUND	2	0	2	1	0	0	5
SOUTHBOUND	1	0	2	1	0	0	4

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED
WESTBOUND	23	N/A	N/A	N/A	43	N/A
EASTBOUND	18	N/A	N/A	N/A	0	N/A
NORTHBOUND	229	N/A	542	542	N/A	N/A
SOUTHBOUND	49	N/A	292	N/A	374	N/A

EAST-WEST CRITICAL VOLUMES 61
 NORTH-SOUTH CRITICAL VOLUMES 603

 THE SUM OF CRITICAL VOLUMES 664
 NUMBER OF CRITICAL CLEARANCE INTERVALS 3*
 CMA VALUE 0.373
 LEVEL OF SERVICE A

 * Includes CMA value decreased due to ATCS Implementation.

Eastbound and Westbound approaches have opposed signal phases.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 26, GALAXY WAY & AVENUE OF THE STARS
DATE: 6/13/2002 INITIALS: CT PERIOD: PM PEAK HOUR
CASE: EXISTING (2001)

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	46	3	45	0
EASTBOUND	156	25	231	6
NORTHBOUND	13	539	48	0
SOUTHBOUND	116	1345	24	0

** NUMBER OF LANES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R	TOTAL
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED	LANES
WESTBOUND	1	0	0	1	0	0	2
EASTBOUND	1	0	1	1	0	0	3
NORTHBOUND	1	0	2	1	0	0	4
SOUTHBOUND	1	0	2	1	0	0	4

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED
WESTBOUND	46	N/A	N/A	48	N/A	N/A
EASTBOUND	156	N/A	25	N/A	231	N/A
NORTHBOUND	13	N/A	196	196	N/A	N/A
SOUTHBOUND	116	N/A	456	456	N/A	N/A

EAST-WEST CRITICAL VOLUMES 277
 NORTH-SOUTH CRITICAL VOLUMES 469

 THE SUM OF CRITICAL VOLUMES 746

 NUMBER OF CRITICAL CLEARANCE INTERVALS 2

 CMA VALUE 0.427

 LEVEL OF SERVICE A

 * Includes CMA value decreased due to ATSAC Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 26, GALAXY WAY & AVENUE OF THE STARS
 DATE: 6/13/2002 INITIALS: CT PERIOD: PM PEAK HOUR
 CASE: FUTURE (2005) WITHOUT PROJECT

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	49	0	0	50
EASTBOUND	258	0	306	7
NORTHBOUND	25	790	51	0
SOUTHBOUND	131	1742	34	0

** NUMBER OF LANES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R	TOTAL
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED	LANES
WESTBOUND	1	0	0	0	1	0	2
EASTBOUND	2	0	0	0	1	0	3
NORTHBOUND	2	0	2	1	0	0	5
SOUTHBOUND	1	0	2	1	0	0	4

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED
WESTBOUND	49	N/A	N/A	N/A	0	N/A
EASTBOUND	142	N/A	N/A	N/A	306	N/A
NORTHBOUND	14	N/A	280	280	N/A	N/A
SOUTHBOUND	131	N/A	592	592	N/A	N/A

EAST-WEST CRITICAL VOLUMES 355
 NORTH-SOUTH CRITICAL VOLUMES 606

 THE SUM OF CRITICAL VOLUMES 961

 NUMBER OF CRITICAL CLEARANCE INTERVALS 3*

 CMA VALUE 0.574

 LEVEL OF SERVICE A

 * Includes CMA value decreased due to ATCS Implementation.

Eastbound and Westbound approaches have opposed signal phases.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 26, GALAXY WAY & AVENUE OF THE STARS
DATE: 6/13/2002 INITIALS: CT PERIOD: PM PEAK HOUR
CASE: FUTURE (2005) WITH PROJECT

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	49	0	0	50
EASTBOUND	258	0	306	7
NORTHBOUND	25	660	51	0
SOUTHBOUND	131	1740	34	0

** NUMBER OF LANES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R	TOTAL
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED	LANES
WESTBOUND	1	0	0	0	1	0	2
EASTBOUND	2	0	0	0	1	0	3
NORTHBOUND	2	0	2	1	0	0	5
SOUTHBOUND	1	0	2	1	0	0	4

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED
WESTBOUND	49	N/A	N/A	N/A	0	N/A
EASTBOUND	142	N/A	N/A	N/A	306	N/A
NORTHBOUND	14	N/A	237	237	N/A	N/A
SOUTHBOUND	131	N/A	591	591	N/A	N/A

EAST-WEST CRITICAL VOLUMES 355
 NORTH-SOUTH CRITICAL VOLUMES 605

 THE SUM OF CRITICAL VOLUMES 960

 NUMBER OF CRITICAL CLEARANCE INTERVALS 3*

 CMA VALUE 0.574

 LEVEL OF SERVICE A

 * Includes CMA value decreased due to ATCS Implementation.

Eastbound and Westbound approaches have opposed signal phases.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 26, GALAXY WAY & AVENUE OF THE STARS
DATE: 6/21/2002 INITIALS: CT PERIOD: PM PEAK HOUR
CASE: FUTURE (2005) WITH PROJECT PLUS MITIGATION

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	49	0	0	50
EASTBOUND	258	0	306	7
NORTHBOUND	25	659	51	0
SOUTHBOUND	131	1739	34	0

** NUMBER OF LANES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R	TOTAL
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED	LANES
WESTBOUND	1	0	0	0	1	0	2
EASTBOUND	2	0	0	0	1	0	3
NORTHBOUND	2	0	2	1	0	0	5
SOUTHBOUND	1	0	2	1	0	0	4

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED
WESTBOUND	49	N/A	N/A	N/A	0	N/A
EASTBOUND	142	N/A	N/A	N/A	306	N/A
NORTHBOUND	14	N/A	237	237	N/A	N/A
SOUTHBOUND	131	N/A	591	591	N/A	N/A

EAST-WEST CRITICAL VOLUMES 355
 NORTH-SOUTH CRITICAL VOLUMES 605

 THE SUM OF CRITICAL VOLUMES 960

 NUMBER OF CRITICAL CLEARANCE INTERVALS 3*

 CMA VALUE 0.574

 LEVEL OF SERVICE A

 * Includes CMA value decreased due to ATCS Implementation.
 Eastbound and Westbound approaches have opposed signal phases.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 27, EMPYREAN WAY & AVENUE OF THE STARS
DATE: 6/13/2002 INITIALS: CT PERIOD: AM PEAK HOUR
CASE: EXISTING (2001)

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	15	0	41	0
EASTBOUND	0	0	0	0
NORTHBOUND	0	1498	2	0
SOUTHBOUND	17	409	0	0

** NUMBER OF LANES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R	TOTAL
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED	LANES
WESTBOUND	0	0	0	0	0	1	1
EASTBOUND	0	0	0	0	0	0	0
NORTHBOUND	1	0	2	1	0	0	4
SOUTHBOUND	1	0	2	1	0	0	4

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED
WESTBOUND	N/A	N/A	N/A	N/A	N/A	56
EASTBOUND	N/A	N/A	N/A	N/A	N/A	N/A
NORTHBOUND	0	N/A	500	500	N/A	N/A
SOUTHBOUND	17	N/A	136	136	N/A	N/A

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EAST-WEST CRITICAL VOLUMES ..... 56
NORTH-SOUTH CRITICAL VOLUMES ..... 517
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THE SUM OF CRITICAL VOLUMES ..... 573

NUMBER OF CRITICAL CLEARANCE INTERVALS .... 2

CMA VALUE ..... 0.477

LEVEL OF SERVICE ..... A

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Capacity assumed = 1200.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 27, EMPYREAN WAY & AVENUE OF THE STARS
DATE: 6/13/2002 INITIALS: CT PERIOD: AM PEAK HOUR
CASE: FUTURE (2005) WITHOUT PROJECT

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	16	8	63	0
EASTBOUND	0	0	0	0
NORTHBOUND	25	1967	2	0
SOUTHBOUND	20	568	29	0

** NUMBER OF LANES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R SHARED	TOTAL LANES
	ONLY	SHARED		SHARED	ONLY		
WESTBOUND	0	0	0	0	0	1	1
EASTBOUND	0	0	0	0	0	0	0
NORTHBOUND	1	0	2	1	0	0	4
SOUTHBOUND	1	0	2	1	0	0	4

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R	
	ONLY	SHARED		SHARED	ONLY	SHARED	SHARED
WESTBOUND	N/A	N/A	N/A	N/A	N/A		87
EASTBOUND	N/A	N/A	N/A	N/A	N/A		N/A
NORTHBOUND	25	N/A	656	656	N/A		N/A
SOUTHBOUND	20	N/A	199	199	N/A		N/A

EAST-WEST CRITICAL VOLUMES 87
 NORTH-SOUTH CRITICAL VOLUMES 676

 THE SUM OF CRITICAL VOLUMES 763

 NUMBER OF CRITICAL CLEARANCE INTERVALS 2

 CMA VALUE 0.636

 LEVEL OF SERVICE B

Capacity assumed = 1200.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 27, EMPYREAN WAY & AVENUE OF THE STARS
DATE: 6/13/2002 INITIALS: CT PERIOD: AM PEAK HOUR
CASE: FUTURE (2005) WITH PROJECT

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	16	10	63	0
EASTBOUND	0	0	0	0
NORTHBOUND	25	1986	10	0
SOUTHBOUND	20	566	29	0

** NUMBER OF LANES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R	TOTAL
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED	LANES
WESTBOUND	0	0	0	0	0	1	1
EASTBOUND	0	0	0	0	0	0	0
NORTHBOUND	1	0	2	1	0	0	4
SOUTHBOUND	1	0	2	1	0	0	4

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED
WESTBOUND	N/A	N/A	N/A	N/A	N/A	89
EASTBOUND	N/A	N/A	N/A	N/A	N/A	N/A
NORTHBOUND	25	N/A	665	665	N/A	N/A
SOUTHBOUND	20	N/A	198	198	N/A	N/A

EAST-WEST CRITICAL VOLUMES	89
NORTH-SOUTH CRITICAL VOLUMES	685

THE SUM OF CRITICAL VOLUMES	774
NUMBER OF CRITICAL CLEARANCE INTERVALS	2
CMA VALUE	0.645
LEVEL OF SERVICE	B

Capacity assumed = 1200.

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CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 27, EMPYREAN WAY & AVENUE OF THE STARS
 DATE: 6/21/2002 INITIALS: CT PERIOD: AM PEAK HOUR
 CASE: FUTURE (2005) WITH PROJECT PLUS MITIGATION

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	16	10	63	0
EASTBOUND	0	0	0	0
NORTHBOUND	25	1978	10	0
SOUTHBOUND	20	566	29	0

** NUMBER OF LANES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R SHARED	TOTAL LANES
	ONLY	SHARED		SHARED	ONLY		
WESTBOUND	0	0	0	0	0	1	1
EASTBOUND	0	0	0	0	0	0	0
NORTHBOUND	1	0	2	1	0	0	4
SOUTHBOUND	1	0	2	1	0	0	4

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R SHARED
	ONLY	SHARED		SHARED	ONLY	
WESTBOUND	N/A	N/A	N/A	N/A	N/A	89
EASTBOUND	N/A	N/A	N/A	N/A	N/A	N/A
NORTHBOUND	25	N/A	663	663	N/A	N/A
SOUTHBOUND	20	N/A	198	198	N/A	N/A

EAST-WEST CRITICAL VOLUMES 89
 NORTH-SOUTH CRITICAL VOLUMES 683

 THE SUM OF CRITICAL VOLUMES 772

 NUMBER OF CRITICAL CLEARANCE INTERVALS 2

 CMA VALUE 0.643

 LEVEL OF SERVICE B

Capacity assumed = 1200.

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CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 27, EMPYREAN WAY & AVENUE OF THE STARS
DATE: 6/13/2002 INITIALS: CT PERIOD: PM PEAK HOUR
CASE: EXISTING (2001)

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	15	0	23	0
EASTBOUND	0	0	0	0
NORTHBOUND	0	557	18	0
SOUTHBOUND	16	1394	0	0

** NUMBER OF LANES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R SHARED	TOTAL LANES
	ONLY	SHARED		SHARED	ONLY		
WESTBOUND	0	0	0	0	0	1	1
EASTBOUND	0	0	0	0	0	0	0
NORTHBOUND	1	0	2	1	0	0	4
SOUTHBOUND	1	0	2	1	0	0	4

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R SHARED
	ONLY	SHARED		SHARED	ONLY	
WESTBOUND	N/A	N/A	N/A	N/A	N/A	38
EASTBOUND	N/A	N/A	N/A	N/A	N/A	N/A
NORTHBOUND	0	N/A	192	192	N/A	N/A
SOUTHBOUND	16	N/A	465	465	N/A	N/A

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EAST-WEST CRITICAL VOLUMES ..... 38
NORTH-SOUTH CRITICAL VOLUMES ..... 465
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THE SUM OF CRITICAL VOLUMES ..... 503

NUMBER OF CRITICAL CLEARANCE INTERVALS .... 2

CMA VALUE ..... 0.419

LEVEL OF SERVICE ..... A

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Capacity assumed = 1200.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 27, EMPYREAN WAY & AVENUE OF THE STARS
DATE: 6/13/2002 INITIALS: CT PERIOD: PM PEAK HOUR
CASE: FUTURE (2005) WITHOUT PROJECT

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	16	1	27	0
EASTBOUND	0	0	0	0
NORTHBOUND	3	801	19	0
SOUTHBOUND	31	1801	4	0

** NUMBER OF LANES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R SHARED	TOTAL LANES
	ONLY	SHARED		SHARED	ONLY		
WESTBOUND	0	0	0	0	0	1	1
EASTBOUND	0	0	0	0	0	0	0
NORTHBOUND	1	0	2	1	0	0	4
SOUTHBOUND	1	0	2	1	0	0	4

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R SHARED
	ONLY	SHARED		SHARED	ONLY	
WESTBOUND	N/A	N/A	N/A	N/A	N/A	44
EASTBOUND	N/A	N/A	N/A	N/A	N/A	N/A
NORTHBOUND	3	N/A	273	273	N/A	N/A
SOUTHBOUND	31	N/A	602	602	N/A	N/A

EAST-WEST CRITICAL VOLUMES 44
 NORTH-SOUTH CRITICAL VOLUMES 605

 THE SUM OF CRITICAL VOLUMES 649

 NUMBER OF CRITICAL CLEARANCE INTERVALS 2

 CMA VALUE 0.541

 LEVEL OF SERVICE A

Capacity assumed = 1200.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 27, EMPYREAN WAY & AVENUE OF THE STARS
DATE: 6/13/2002 INITIALS: CT PERIOD: PM PEAK HOUR
CASE: FUTURE (2005) WITH PROJECT

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	16	10	27	0
EASTBOUND	0	0	0	0
NORTHBOUND	10	671	19	0
SOUTHBOUND	31	1799	10	0

** NUMBER OF LANES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R	TOTAL
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED	LANES
WESTBOUND	0	0	0	0	0	1	1
EASTBOUND	0	0	0	0	0	0	0
NORTHBOUND	1	0	2	1	0	0	4
SOUTHBOUND	1	0	2	1	0	0	4

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED
WESTBOUND	N/A	N/A	N/A	N/A	N/A	53
EASTBOUND	N/A	N/A	N/A	N/A	N/A	N/A
NORTHBOUND	10	N/A	230	230	N/A	N/A
SOUTHBOUND	31	N/A	603	603	N/A	N/A

EAST-WEST CRITICAL VOLUMES 53
 NORTH-SOUTH CRITICAL VOLUMES 613

 THE SUM OF CRITICAL VOLUMES 666

 NUMBER OF CRITICAL CLEARANCE INTERVALS 2

 CMA VALUE 0.555

 LEVEL OF SERVICE A

Capacity assumed = 1200.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 27, EMPYREAN WAY & AVENUE OF THE STARS
DATE: 6/21/2002 INITIALS: CT PERIOD: PM PEAK HOUR
CASE: FUTURE (2005) WITH PROJECT PLUS MITIGATION

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	16	10	27	0
EASTBOUND	0	0	0	0
NORTHBOUND	10	670	19	0
SOUTHBOUND	31	1798	10	0

** NUMBER OF LANES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R	TOTAL
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED	LANES
WESTBOUND	0	0	0	0	0	1	1
EASTBOUND	0	0	0	0	0	0	0
NORTHBOUND	1	0	2	1	0	0	4
SOUTHBOUND	1	0	2	1	0	0	4

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED
WESTBOUND	N/A	N/A	N/A	N/A	N/A	53
EASTBOUND	N/A	N/A	N/A	N/A	N/A	N/A
NORTHBOUND	10	N/A	230	230	N/A	N/A
SOUTHBOUND	31	N/A	603	603	N/A	N/A

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EAST-WEST CRITICAL VOLUMES ..... 53
NORTH-SOUTH CRITICAL VOLUMES ..... 613
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THE SUM OF CRITICAL VOLUMES ..... 666

NUMBER OF CRITICAL CLEARANCE INTERVALS .... 2

CMA VALUE ..... 0.555

LEVEL OF SERVICE ..... A

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Capacity assumed = 1200.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 28, PICO BOULEVARD & OVERLAND AVENUE
DATE: 6/13/2002 INITIALS: CT PERIOD: AM PEAK HOUR
CASE: EXISTING (2001)

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	574	1130	37	15
EASTBOUND	77	1318	138	0
NORTHBOUND	227	818	664	158
SOUTHBOUND	30	596	0	17

** NUMBER OF LANES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R	TOTAL LANES
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED	
WESTBOUND	2	0	2	0	1	0	5
EASTBOUND	1	0	2	1	0	0	4
NORTHBOUND	2	0	1	1	1	0	5
SOUTHBOUND	1	0	2	0	1	0	4

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED
WESTBOUND	316	N/A	565	N/A	37	N/A
EASTBOUND	77	N/A	485	485	N/A	N/A
NORTHBOUND	125	N/A	494	494	494	N/A
SOUTHBOUND	30	N/A	298	N/A	0	N/A

EAST-WEST CRITICAL VOLUMES 801
 NORTH-SOUTH CRITICAL VOLUMES 524

 THE SUM OF CRITICAL VOLUMES 1325

 NUMBER OF CRITICAL CLEARANCE INTERVALS 4

 CMA VALUE 0.894

 LEVEL OF SERVICE D

 * Includes CMA value decreased due to ATSAC Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 28, PICO BOULEVARD & OVERLAND AVENUE
 DATE: 6/13/2002 INITIALS: CT PERIOD: AM PEAK HOUR
 CASE: FUTURE (2005) WITHOUT PROJECT

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	573	1217	39	16
EASTBOUND	82	1497	146	0
NORTHBOUND	241	1080	778	158
SOUTHBOUND	32	715	0	18

** NUMBER OF LANES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R	TOTAL LANES
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED	
WESTBOUND	2	0	2	0	1	0	5
EASTBOUND	1	0	2	1	0	0	4
NORTHBOUND	2	0	2	0	2	0	6
SOUTHBOUND	1	0	2	0	1	0	4

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED
WESTBOUND	315	N/A	608	N/A	39	N/A
EASTBOUND	82	N/A	548	548	N/A	N/A
NORTHBOUND	133	N/A	540	N/A	389	N/A
SOUTHBOUND	32	N/A	358	N/A	0	N/A

EAST-WEST CRITICAL VOLUMES 863
 NORTH-SOUTH CRITICAL VOLUMES 572

 THE SUM OF CRITICAL VOLUMES 1435

 NUMBER OF CRITICAL CLEARANCE INTERVALS 4

 CMA VALUE 0.944

 LEVEL OF SERVICE E

 * Includes CMA value decreased due to ATCS Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 28, PICO BOULEVARD & OVERLAND AVENUE
DATE: 6/13/2002 INITIALS: CT PERIOD: AM PEAK HOUR
CASE: FUTURE (2005) WITH PROJECT

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	562	1204	39	16
EASTBOUND	82	1503	146	0
NORTHBOUND	241	1085	788	154
SOUTHBOUND	32	706	0	18

** NUMBER OF LANES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R		TOTAL LANES
	ONLY	SHARED		SHARED	ONLY	SHARED	SHARED	
WESTBOUND	2	0	2	0	1	0	5	
EASTBOUND	1	0	2	1	0	0	4	
NORTHBOUND	2	0	2	0	2	0	6	
SOUTHBOUND	1	0	2	0	1	0	4	

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R	
	ONLY	SHARED		SHARED	ONLY	SHARED	SHARED
WESTBOUND	309	N/A	602	N/A	39	N/A	N/A
EASTBOUND	82	N/A	550	550	N/A	N/A	N/A
NORTHBOUND	133	N/A	542	N/A	394	N/A	N/A
SOUTHBOUND	32	N/A	353	N/A	0	N/A	N/A

EAST-WEST CRITICAL VOLUMES 859
 NORTH-SOUTH CRITICAL VOLUMES 574

 THE SUM OF CRITICAL VOLUMES 1433

 NUMBER OF CRITICAL CLEARANCE INTERVALS 4

 CMA VALUE 0.942

 LEVEL OF SERVICE E

 * Includes CMA value decreased due to ATCS Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 28, PICO BOULEVARD & OVERLAND AVENUE
 DATE: 6/21/2002 INITIALS: CT PERIOD: AM PEAK HOUR
 CASE: FUTURE (2005) WITH PROJECT PLUS MITIGATION

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	562	1204	39	16
EASTBOUND	82	1501	146	0
NORTHBOUND	241	1083	786	154
SOUTHBOUND	32	706	0	18

** NUMBER OF LANES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R	TOTAL
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED	LANES
WESTBOUND	2	0	2	0	1	0	5
EASTBOUND	1	0	2	1	0	0	4
NORTHBOUND	2	0	2	0	2	0	6
SOUTHBOUND	1	0	2	0	1	0	4

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED
WESTBOUND	309	N/A	602	N/A	39	N/A
EASTBOUND	82	N/A	549	549	N/A	N/A
NORTHBOUND	133	N/A	542	N/A	393	N/A
SOUTHBOUND	32	N/A	353	N/A	0	N/A

EAST-WEST CRITICAL VOLUMES 858
 NORTH-SOUTH CRITICAL VOLUMES 574

 THE SUM OF CRITICAL VOLUMES 1432

 NUMBER OF CRITICAL CLEARANCE INTERVALS 4

 CMA VALUE 0.941

 LEVEL OF SERVICE E

 * Includes CMA value decreased due to ATCS Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 28, PICO BOULEVARD & OVERLAND AVENUE
DATE: 6/13/2002 INITIALS: CT PERIOD: PM PEAK HOUR
CASE: EXISTING (2001)

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	960	1495	35	0
EASTBOUND	77	1058	271	78
NORTHBOUND	284	720	190	264
SOUTHBOUND	66	1159	0	54

** NUMBER OF LANES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R	TOTAL LANES
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED	
WESTBOUND	2	0	2	1	0	0	5
EASTBOUND	1	0	2	0	1	0	4
NORTHBOUND	2	0	1	1	1	0	5
SOUTHBOUND	1	0	2	0	1	0	4

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED
WESTBOUND	528	N/A	510	510	N/A	N/A
EASTBOUND	77	N/A	529	N/A	271	N/A
NORTHBOUND	156	N/A	360	N/A	190	N/A
SOUTHBOUND	66	N/A	580	N/A	0	N/A

EAST-WEST CRITICAL VOLUMES 1057
 NORTH-SOUTH CRITICAL VOLUMES 736

 THE SUM OF CRITICAL VOLUMES 1793

 NUMBER OF CRITICAL CLEARANCE INTERVALS 4

 CMA VALUE 1.234

 LEVEL OF SERVICE F

 * Includes CMA value decreased due to ATSAC Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 28, PICO BOULEVARD & OVERLAND AVENUE
 DATE: 6/13/2002 INITIALS: CT PERIOD: PM PEAK HOUR
 CASE: FUTURE (2005) WITHOUT PROJECT

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	1000	1625	37	0
EASTBOUND	82	1109	287	83
NORTHBOUND	301	890	174	275
SOUTHBOUND	70	1504	0	57

** NUMBER OF LANES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R	TOTAL LANES
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED	
WESTBOUND	2	0	2	1	0	0	5
EASTBOUND	1	0	2	0	1	0	4
NORTHBOUND	2	0	2	0	2	0	6
SOUTHBOUND	1	0	2	0	1	0	4

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED
WESTBOUND	550	N/A	554	554	N/A	N/A
EASTBOUND	82	N/A	554	N/A	287	N/A
NORTHBOUND	166	N/A	445	N/A	87	N/A
SOUTHBOUND	70	N/A	752	N/A	0	N/A

EAST-WEST CRITICAL VOLUMES 1104
 NORTH-SOUTH CRITICAL VOLUMES 918

 THE SUM OF CRITICAL VOLUMES 2022

 NUMBER OF CRITICAL CLEARANCE INTERVALS 4

 CMA VALUE 1.371

 LEVEL OF SERVICE F

 * Includes CMA value decreased due to ATCS Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 28, PICO BOULEVARD & OVERLAND AVENUE
 DATE: 6/13/2002 INITIALS: CT PERIOD: PM PEAK HOUR
 CASE: FUTURE (2005) WITH PROJECT

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	987	1610	37	0
EASTBOUND	82	1068	287	83
NORTHBOUND	301	856	136	272
SOUTHBOUND	70	1493	0	57

** NUMBER OF LANES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R	TOTAL
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED	LANES
WESTBOUND	2	0	2	1	0	0	5
EASTBOUND	1	0	2	0	1	0	4
NORTHBOUND	2	0	2	0	2	0	6
SOUTHBOUND	1	0	2	0	1	0	4

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED
WESTBOUND	543	N/A	549	549	N/A	N/A
EASTBOUND	82	N/A	534	N/A	287	N/A
NORTHBOUND	166	N/A	428	N/A	68	N/A
SOUTHBOUND	70	N/A	746	N/A	0	N/A

EAST-WEST CRITICAL VOLUMES 1077
 NORTH-SOUTH CRITICAL VOLUMES 912

 THE SUM OF CRITICAL VOLUMES 1989

 NUMBER OF CRITICAL CLEARANCE INTERVALS 4

 CMA VALUE 1.347

 LEVEL OF SERVICE F

 * Includes CMA value decreased due to ATCS Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 28, PICO BOULEVARD & OVERLAND AVENUE
 DATE: 6/21/2002 INITIALS: CT PERIOD: PM PEAK HOUR
 CASE: FUTURE (2005) WITH PROJECT PLUS MITIGATION

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	985	1607	37	0
EASTBOUND	82	1068	287	83
NORTHBOUND	301	855	137	271
SOUTHBOUND	70	1491	0	57

** NUMBER OF LANES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R	TOTAL LANES
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED	
WESTBOUND	2	0	2	1	0	0	5
EASTBOUND	1	0	2	0	1	0	4
NORTHBOUND	2	0	2	0	2	0	6
SOUTHBOUND	1	0	2	0	1	0	4

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED
WESTBOUND	542	N/A	548	548	N/A	N/A
EASTBOUND	82	N/A	534	N/A	287	N/A
NORTHBOUND	166	N/A	428	N/A	68	N/A
SOUTHBOUND	70	N/A	746	N/A	0	N/A

EAST-WEST CRITICAL VOLUMES 1076
 NORTH-SOUTH CRITICAL VOLUMES 912

 THE SUM OF CRITICAL VOLUMES 1988

 NUMBER OF CRITICAL CLEARANCE INTERVALS 4

 CMA VALUE 1.346

 LEVEL OF SERVICE F

 * Includes CMA value decreased due to ATCS Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 29, PICO BOULEVARD & PATRICIA AVENUE
DATE: 6/13/2002 INITIALS: CT PERIOD: AM PEAK HOUR
CASE: EXISTING (2001)

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	79	1530	42	5
EASTBOUND	43	1727	69	0
NORTHBOUND	28	107	186	0
SOUTHBOUND	10	63	34	0

** NUMBER OF LANES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R SHARED	TOTAL LANES
	ONLY	SHARED		ONLY	SHARED		
WESTBOUND	1	0	2	0	1	0	4
EASTBOUND	1	0	2	1	0	0	4
NORTHBOUND	0	0	0	0	0	1	1
SOUTHBOUND	0	0	0	0	0	1	1

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R SHARED
	ONLY	SHARED		ONLY	SHARED	
WESTBOUND	79	N/A	765	N/A	42	N/A
EASTBOUND	43	N/A	599	599	N/A	N/A
NORTHBOUND	N/A	N/A	N/A	N/A	N/A	321
SOUTHBOUND	N/A	N/A	N/A	N/A	N/A	107

EAST-WEST CRITICAL VOLUMES 808
 NORTH-SOUTH CRITICAL VOLUMES 331

 THE SUM OF CRITICAL VOLUMES 1139

 NUMBER OF CRITICAL CLEARANCE INTERVALS 3

 CMA VALUE 0.729

 LEVEL OF SERVICE C

 * Includes CMA value decreased due to ATSAC Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 29, PICO BOULEVARD & PATRICIA AVENUE
DATE: 6/13/2002 INITIALS: CT PERIOD: AM PEAK HOUR
CASE: FUTURE (2005) WITHOUT PROJECT

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	84	1583	44	5
EASTBOUND	45	1959	72	0
NORTHBOUND	29	112	204	0
SOUTHBOUND	10	66	36	0

** NUMBER OF LANES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R	TOTAL
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED	LANES
WESTBOUND	1	0	2	0	1	0	4
EASTBOUND	1	0	2	1	0	0	4
NORTHBOUND	0	0	0	0	0	1	1
SOUTHBOUND	0	0	0	0	0	1	1

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED
WESTBOUND	84	N/A	792	N/A	44	N/A
EASTBOUND	45	N/A	677	677	N/A	N/A
NORTHBOUND	N/A	N/A	N/A	N/A	N/A	345
SOUTHBOUND	N/A	N/A	N/A	N/A	N/A	112

EAST-WEST CRITICAL VOLUMES 837
 NORTH-SOUTH CRITICAL VOLUMES 355

 THE SUM OF CRITICAL VOLUMES 1192

 NUMBER OF CRITICAL CLEARANCE INTERVALS 3

 CMA VALUE 0.736

 LEVEL OF SERVICE C

 * Includes CMA value decreased due to ATCS Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 29, PICO BOULEVARD & PATRICIA AVENUE
DATE: 6/13/2002 INITIALS: CT PERIOD: AM PEAK HOUR
CASE: FUTURE (2005) WITH PROJECT

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	82	1559	44	5
EASTBOUND	45	1971	72	0
NORTHBOUND	29	112	205	0
SOUTHBOUND	10	66	36	0

** NUMBER OF LANES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R	TOTAL
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED	LANES
WESTBOUND	1	0	2	0	1	0	4
EASTBOUND	1	0	2	1	0	0	4
NORTHBOUND	0	0	0	0	0	1	1
SOUTHBOUND	0	0	0	0	0	1	1

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED
WESTBOUND	82	N/A	780	N/A	44	N/A
EASTBOUND	45	N/A	681	681	N/A	N/A
NORTHBOUND	N/A	N/A	N/A	N/A	N/A	346
SOUTHBOUND	N/A	N/A	N/A	N/A	N/A	112

EAST-WEST CRITICAL VOLUMES 825
 NORTH-SOUTH CRITICAL VOLUMES 356

 THE SUM OF CRITICAL VOLUMES 1181

 NUMBER OF CRITICAL CLEARANCE INTERVALS 3

 CMA VALUE 0.729

 LEVEL OF SERVICE C

 * Includes CMA value decreased due to ATCS Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 29, PICO BOULEVARD & PATRICIA AVENUE
DATE: 6/21/2002 INITIALS: CT PERIOD: AM PEAK HOUR
CASE: FUTURE (2005) WITH PROJECT PLUS MITIGATION

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	82	1559	44	5
EASTBOUND	45	1966	72	0
NORTHBOUND	29	112	205	0
SOUTHBOUND	10	66	36	0

** NUMBER OF LANES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R	TOTAL
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED	LANES
WESTBOUND	1	0	2	0	1	0	4
EASTBOUND	1	0	2	1	0	0	4
NORTHBOUND	0	0	0	0	0	1	1
SOUTHBOUND	0	0	0	0	0	1	1

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED
WESTBOUND	82	N/A	780	N/A	44	N/A
EASTBOUND	45	N/A	679	679	N/A	N/A
NORTHBOUND	N/A	N/A	N/A	N/A	N/A	346
SOUTHBOUND	N/A	N/A	N/A	N/A	N/A	112

EAST-WEST CRITICAL VOLUMES 825
 NORTH-SOUTH CRITICAL VOLUMES 356

 THE SUM OF CRITICAL VOLUMES 1181

 NUMBER OF CRITICAL CLEARANCE INTERVALS 3

 CMA VALUE 0.729

 LEVEL OF SERVICE C

 * Includes CMA value decreased due to ATCS Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 29, PICO BOULEVARD & PATRICIA AVENUE
DATE: 6/13/2002 INITIALS: CT PERIOD: PM PEAK HOUR
CASE: EXISTING (2001)

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	138	1904	28	0
EASTBOUND	44	1241	39	0
NORTHBOUND	81	56	115	0
SOUTHBOUND	10	202	43	0

** NUMBER OF LANES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R	TOTAL
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED	LANES
WESTBOUND	1	0	2	1	0	0	4
EASTBOUND	1	0	2	1	0	0	4
NORTHBOUND	0	0	0	0	0	1	1
SOUTHBOUND	0	0	0	0	0	1	1

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED
WESTBOUND	138	N/A	644	644	N/A	N/A
EASTBOUND	44	N/A	427	427	N/A	N/A
NORTHBOUND	N/A	N/A	N/A	N/A	N/A	252
SOUTHBOUND	N/A	N/A	N/A	N/A	N/A	255

EAST-WEST CRITICAL VOLUMES 688
 NORTH-SOUTH CRITICAL VOLUMES 336

 THE SUM OF CRITICAL VOLUMES 1024

 NUMBER OF CRITICAL CLEARANCE INTERVALS 3

 CMA VALUE 0.649

 LEVEL OF SERVICE B

 * Includes CMA value decreased due to ATSAC Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 29, PICO BOULEVARD & PATRICIA AVENUE
 DATE: 6/13/2002 INITIALS: CT PERIOD: PM PEAK HOUR
 CASE: FUTURE (2005) WITHOUT PROJECT

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	157	2012	29	0
EASTBOUND	46	1238	41	0
NORTHBOUND	85	59	123	0
SOUTHBOUND	10	211	45	0

** NUMBER OF LANES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R	TOTAL
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED	LANES
WESTBOUND	1	0	2	1	0	0	4
EASTBOUND	1	0	2	1	0	0	4
NORTHBOUND	0	0	0	0	0	1	1
SOUTHBOUND	0	0	0	0	0	1	1

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED
WESTBOUND	157	N/A	680	680	N/A	N/A
EASTBOUND	46	N/A	426	426	N/A	N/A
NORTHBOUND	N/A	N/A	N/A	N/A	N/A	267
SOUTHBOUND	N/A	N/A	N/A	N/A	N/A	266

EAST-WEST CRITICAL VOLUMES 726
 NORTH-SOUTH CRITICAL VOLUMES 351

 THE SUM OF CRITICAL VOLUMES 1077

 NUMBER OF CRITICAL CLEARANCE INTERVALS 3

 CMA VALUE 0.656

 LEVEL OF SERVICE B

 * Includes CMA value decreased due to ATCS Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 29, PICO BOULEVARD & PATRICIA AVENUE
DATE: 6/13/2002 INITIALS: CT PERIOD: PM PEAK HOUR
CASE: FUTURE (2005) WITH PROJECT

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	155	1984	29	0
EASTBOUND	46	1156	41	0
NORTHBOUND	85	59	116	0
SOUTHBOUND	10	211	45	0

** NUMBER OF LANES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R	TOTAL
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED	LANES
WESTBOUND	1	0	2	1	0	0	4
EASTBOUND	1	0	2	1	0	0	4
NORTHBOUND	0	0	0	0	0	1	1
SOUTHBOUND	0	0	0	0	0	1	1

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED
WESTBOUND	155	N/A	671	671	N/A	N/A
EASTBOUND	46	N/A	399	399	N/A	N/A
NORTHBOUND	N/A	N/A	N/A	N/A	N/A	260
SOUTHBOUND	N/A	N/A	N/A	N/A	N/A	266

EAST-WEST CRITICAL VOLUMES 717
 NORTH-SOUTH CRITICAL VOLUMES 351

 THE SUM OF CRITICAL VOLUMES 1068

 NUMBER OF CRITICAL CLEARANCE INTERVALS 3

 CMA VALUE 0.649

 LEVEL OF SERVICE B

 * Includes CMA value decreased due to ATCS Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 29, PICO BOULEVARD & PATRICIA AVENUE
DATE: 6/21/2002 INITIALS: CT PERIOD: PM PEAK HOUR
CASE: FUTURE (2005) WITH PROJECT PLUS MITIGATION

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	154	1979	29	0
EASTBOUND	46	1155	41	0
NORTHBOUND	85	59	116	0
SOUTHBOUND	10	211	45	0

** NUMBER OF LANES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R	TOTAL LANES
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED	
WESTBOUND	1	0	2	1	0	0	4
EASTBOUND	1	0	2	1	0	0	4
NORTHBOUND	0	0	0	0	0	1	1
SOUTHBOUND	0	0	0	0	0	1	1

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED
WESTBOUND	154	N/A	669	669	N/A	N/A
EASTBOUND	46	N/A	399	399	N/A	N/A
NORTHBOUND	N/A	N/A	N/A	N/A	N/A	260
SOUTHBOUND	N/A	N/A	N/A	N/A	N/A	266

EAST-WEST CRITICAL VOLUMES 715
 NORTH-SOUTH CRITICAL VOLUMES 351

 THE SUM OF CRITICAL VOLUMES 1066

 NUMBER OF CRITICAL CLEARANCE INTERVALS 3

 CMA VALUE 0.648

 LEVEL OF SERVICE B

 * Includes CMA value decreased due to ATCS Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 30, PICO BOULEVARD & BEVERLY GLEN BOULEVARD
 DATE: 6/13/2002 INITIALS: CT PERIOD: AM PEAK HOUR
 CASE: EXISTING (2001)

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	0	1352	234	0
EASTBOUND	352	1674	0	0
NORTHBOUND	0	0	0	0
SOUTHBOUND	258	0	71	176

** NUMBER OF LANES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R		TOTAL LANES
	ONLY	SHARED		SHARED	ONLY	SHARED	SHARED	
WESTBOUND	0	0	2	1	0	0	0	3
EASTBOUND	1	0	3	0	0	0	0	4
NORTHBOUND	0	0	0	0	0	0	0	0
SOUTHBOUND	1	0	0	0	1	1	1	3

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R	
	ONLY	SHARED		SHARED	ONLY	SHARED	SHARED
WESTBOUND	N/A	N/A	529	529	N/A	N/A	N/A
EASTBOUND	352	N/A	558	N/A	N/A	N/A	N/A
NORTHBOUND	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SOUTHBOUND	129	129	N/A	N/A	71	N/A	N/A

EAST-WEST CRITICAL VOLUMES 881
 NORTH-SOUTH CRITICAL VOLUMES 129

 THE SUM OF CRITICAL VOLUMES 1010

 NUMBER OF CRITICAL CLEARANCE INTERVALS 2

 CMA VALUE 0.603

 LEVEL OF SERVICE B

 * Includes CMA value decreased due to ATSAC Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 30, PICO BOULEVARD & BEVERLY GLEN BOULEVARD
 DATE: 6/13/2002 INITIALS: CT PERIOD: AM PEAK HOUR
 CASE: FUTURE (2005) WITHOUT PROJECT

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	0	1399	228	0
EASTBOUND	470	1844	0	0
NORTHBOUND	0	0	0	0
SOUTHBOUND	254	0	47	235

** NUMBER OF LANES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R		TOTAL LANES
	ONLY	SHARED		SHARED	ONLY	SHARED	SHARED	
WESTBOUND	0	0	2	1	0	0	0	3
EASTBOUND	1	0	3	0	0	0	0	4
NORTHBOUND	0	0	0	0	0	0	0	0
SOUTHBOUND	1	0	0	0	1	1	1	3

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R	
	ONLY	SHARED		SHARED	ONLY	SHARED	SHARED
WESTBOUND	N/A	N/A	542	542	N/A	N/A	N/A
EASTBOUND	470	N/A	615	N/A	N/A	N/A	N/A
NORTHBOUND	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SOUTHBOUND	127	127	N/A	N/A	47	N/A	N/A

EAST-WEST CRITICAL VOLUMES 1012
 NORTH-SOUTH CRITICAL VOLUMES 127

 THE SUM OF CRITICAL VOLUMES 1139

 NUMBER OF CRITICAL CLEARANCE INTERVALS 2

 CMA VALUE 0.659

 LEVEL OF SERVICE B

 * Includes CMA value decreased due to ATCS Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 30, PICO BOULEVARD & BEVERLY GLEN BOULEVARD
DATE: 6/13/2002 INITIALS: CT PERIOD: AM PEAK HOUR
CASE: FUTURE (2005) WITH PROJECT

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	0	1375	228	0
EASTBOUND	474	1853	0	0
NORTHBOUND	0	0	0	0
SOUTHBOUND	254	0	43	237

** NUMBER OF LANES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R		TOTAL LANES
	ONLY	SHARED		SHARED	ONLY	SHARED	SHARED	
WESTBOUND	0	0	2	1	0	0	0	3
EASTBOUND	1	0	3	0	0	0	0	4
NORTHBOUND	0	0	0	0	0	0	0	0
SOUTHBOUND	1	0	0	0	1	1	1	3

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R	
	ONLY	SHARED		SHARED	ONLY	SHARED	SHARED
WESTBOUND	N/A	N/A	534	534	N/A	N/A	N/A
EASTBOUND	474	N/A	618	N/A	N/A	N/A	N/A
NORTHBOUND	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SOUTHBOUND	127	127	N/A	N/A	43	N/A	N/A

EAST-WEST CRITICAL VOLUMES 1008
 NORTH-SOUTH CRITICAL VOLUMES 127

 THE SUM OF CRITICAL VOLUMES 1135

 NUMBER OF CRITICAL CLEARANCE INTERVALS 2

 CMA VALUE 0.657

 LEVEL OF SERVICE B

 * Includes CMA value decreased due to ATCS Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 30, PICO BOULEVARD & BEVERLY GLEN BOULEVARD
 DATE: 6/21/2002 INITIALS: CT PERIOD: AM PEAK HOUR
 CASE: FUTURE (2005) WITH PROJECT PLUS MITIGATION

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	0	1375	228	0
EASTBOUND	472	1849	0	0
NORTHBOUND	0	0	0	0
SOUTHBOUND	254	0	44	236

** NUMBER OF LANES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R		TOTAL LANES
	ONLY	SHARED		SHARED	ONLY	SHARED	SHARED	
WESTBOUND	0	0	2	1	0	0	0	3
EASTBOUND	1	0	3	0	0	0	0	4
NORTHBOUND	0	0	0	0	0	0	0	0
SOUTHBOUND	1	0	0	0	1	1	1	3

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R	
	ONLY	SHARED		SHARED	ONLY	SHARED	SHARED
WESTBOUND	N/A	N/A	534	534	N/A	N/A	N/A
EASTBOUND	472	N/A	616	N/A	N/A	N/A	N/A
NORTHBOUND	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SOUTHBOUND	127	127	N/A	N/A	44	N/A	N/A

EAST-WEST CRITICAL VOLUMES 1006
 NORTH-SOUTH CRITICAL VOLUMES 127

 THE SUM OF CRITICAL VOLUMES 1133

 NUMBER OF CRITICAL CLEARANCE INTERVALS 2

 CMA VALUE 0.655

 LEVEL OF SERVICE B

 * Includes CMA value decreased due to ATCS Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 30, PICO BOULEVARD & BEVERLY GLEN BOULEVARD
DATE: 6/13/2002 INITIALS: CT PERIOD: PM PEAK HOUR
CASE: EXISTING (2001)

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	0	1702	288	0
EASTBOUND	198	1244	0	0
NORTHBOUND	0	0	0	0
SOUTHBOUND	343	0	246	99

** NUMBER OF LANES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R		TOTAL LANES
	ONLY	SHARED		ONLY	SHARED	ONLY	SHARED	
WESTBOUND	0	0	2	1	0	0	0	3
EASTBOUND	1	0	3	0	0	0	0	4
NORTHBOUND	0	0	0	0	0	0	0	0
SOUTHBOUND	1	0	0	0	1	1	1	3

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R	
	ONLY	SHARED		ONLY	SHARED	ONLY	SHARED
WESTBOUND	N/A	N/A	663	663	N/A	N/A	N/A
EASTBOUND	198	N/A	415	N/A	N/A	N/A	N/A
NORTHBOUND	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SOUTHBOUND	196	N/A	N/A	N/A	196	196	196

EAST-WEST CRITICAL VOLUMES 861
 NORTH-SOUTH CRITICAL VOLUMES 196

 THE SUM OF CRITICAL VOLUMES 1057

 NUMBER OF CRITICAL CLEARANCE INTERVALS 2

 CMA VALUE 0.635

 LEVEL OF SERVICE B

 * Includes CMA value decreased due to ATSAC Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 30, PICO BOULEVARD & BEVERLY GLEN BOULEVARD
 DATE: 6/13/2002 INITIALS: CT PERIOD: PM PEAK HOUR
 CASE: FUTURE (2005) WITHOUT PROJECT

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	0	1756	264	0
EASTBOUND	252	1223	0	0
NORTHBOUND	0	0	0	0
SOUTHBOUND	329	0	322	126

** NUMBER OF LANES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R		TOTAL LANES
	ONLY	SHARED		SHARED	ONLY	SHARED	SHARED	
WESTBOUND	0	0	2	1	0	0	0	3
EASTBOUND	1	0	3	0	0	0	0	4
NORTHBOUND	0	0	0	0	0	0	0	0
SOUTHBOUND	1	0	0	0	1	1	1	3

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R	
	ONLY	SHARED		SHARED	ONLY	SHARED	SHARED
WESTBOUND	N/A	N/A	673	673	N/A	N/A	N/A
EASTBOUND	252	N/A	408	N/A	N/A	N/A	N/A
NORTHBOUND	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SOUTHBOUND	217	N/A	N/A	N/A	217	217	217

EAST-WEST CRITICAL VOLUMES 925
 NORTH-SOUTH CRITICAL VOLUMES 217

 THE SUM OF CRITICAL VOLUMES 1142

 NUMBER OF CRITICAL CLEARANCE INTERVALS 2

 CMA VALUE 0.661

 LEVEL OF SERVICE B

 * Includes CMA value decreased due to ATCS Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 30, PICO BOULEVARD & BEVERLY GLEN BOULEVARD
 DATE: 6/13/2002 INITIALS: CT PERIOD: PM PEAK HOUR
 CASE: FUTURE (2005) WITH PROJECT

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	0	1728	264	0
EASTBOUND	225	1162	0	0
NORTHBOUND	0	0	0	0
SOUTHBOUND	329	0	334	112

** NUMBER OF LANES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R		TOTAL LANES
	ONLY	SHARED		SHARED	ONLY	SHARED	SHARED	
WESTBOUND	0	0	2	1	0	0	0	3
EASTBOUND	1	0	3	0	0	0	0	4
NORTHBOUND	0	0	0	0	0	0	0	0
SOUTHBOUND	1	0	0	0	1	1	1	3

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R	
	ONLY	SHARED		SHARED	ONLY	SHARED	SHARED
WESTBOUND	N/A	N/A	664	664	N/A	N/A	N/A
EASTBOUND	225	N/A	387	N/A	N/A	N/A	N/A
NORTHBOUND	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SOUTHBOUND	221	N/A	N/A	N/A	221	221	221

EAST-WEST CRITICAL VOLUMES 889
 NORTH-SOUTH CRITICAL VOLUMES 221

 THE SUM OF CRITICAL VOLUMES 1110

 NUMBER OF CRITICAL CLEARANCE INTERVALS 2

 CMA VALUE 0.640

 LEVEL OF SERVICE B

 * Includes CMA value decreased due to ATCS Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 30, PICO BOULEVARD & BEVERLY GLEN BOULEVARD
 DATE: 6/21/2002 INITIALS: CT PERIOD: PM PEAK HOUR
 CASE: FUTURE (2005) WITH PROJECT PLUS MITIGATION

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	0	1723	264	0
EASTBOUND	224	1161	0	0
NORTHBOUND	0	0	0	0
SOUTHBOUND	329	0	333	112

** NUMBER OF LANES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R		TOTAL LANES
	ONLY	SHARED		SHARED	ONLY	SHARED	SHARED	
WESTBOUND	0	0	2	1	0	0	0	3
EASTBOUND	1	0	3	0	0	0	0	4
NORTHBOUND	0	0	0	0	0	0	0	0
SOUTHBOUND	1	0	0	0	1	1	1	3

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R	
	ONLY	SHARED		SHARED	ONLY	SHARED	SHARED
WESTBOUND	N/A	N/A	662	662	N/A	N/A	N/A
EASTBOUND	224	N/A	387	N/A	N/A	N/A	N/A
NORTHBOUND	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SOUTHBOUND	221	N/A	N/A	N/A	221	221	221

EAST-WEST CRITICAL VOLUMES 886
 NORTH-SOUTH CRITICAL VOLUMES 221

 THE SUM OF CRITICAL VOLUMES 1107

 NUMBER OF CRITICAL CLEARANCE INTERVALS 2

 CMA VALUE 0.638

 LEVEL OF SERVICE B

 * Includes CMA value decreased due to ATCS Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 31, PICO BOULEVARD & MOTOR AVENUE
DATE: 6/13/2002 INITIALS: CT PERIOD: AM PEAK HOUR
CASE: EXISTING (2001)

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	225	1213	173	0
EASTBOUND	214	1655	236	0
NORTHBOUND	272	0	910	138
SOUTHBOUND	19	0	0	28

** NUMBER OF LANES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R		TOTAL LANES
	ONLY	SHARED		SHARED	ONLY	SHARED	SHARED	
WESTBOUND	2	0	1	1	0	0	0	4
EASTBOUND	1	0	2	1	0	0	0	4
NORTHBOUND	1	0	0	0	2	0	0	3
SOUTHBOUND	1	0	0	0	1	0	0	2

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R	
	ONLY	SHARED		SHARED	ONLY	SHARED	SHARED
WESTBOUND	124	N/A	693	693	N/A	N/A	N/A
EASTBOUND	214	N/A	630	630	N/A	N/A	N/A
NORTHBOUND	272	N/A	N/A	N/A	455	N/A	N/A
SOUTHBOUND	19	N/A	N/A	N/A	0	N/A	N/A

EAST-WEST CRITICAL VOLUMES 906
 NORTH-SOUTH CRITICAL VOLUMES 474

 THE SUM OF CRITICAL VOLUMES 1380

 NUMBER OF CRITICAL CLEARANCE INTERVALS 4*

 CMA VALUE 0.934

 LEVEL OF SERVICE E

 * Includes CMA value decreased due to ATSAC Implementation.

Northbound and Southbound approaches have opposed signal phases.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 31, PICO BOULEVARD & MOTOR AVENUE
DATE: 6/13/2002 INITIALS: CT PERIOD: AM PEAK HOUR
CASE: FUTURE (2005) WITHOUT PROJECT

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	260	1238	184	0
EASTBOUND	227	1745	264	0
NORTHBOUND	306	0	1204	71
SOUTHBOUND	20	0	0	30

** NUMBER OF LANES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R	TOTAL LANES
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED	
WESTBOUND	2	0	2	1	0	0	5
EASTBOUND	1	0	2	1	0	0	4
NORTHBOUND	1	0	0	0	2	0	3
SOUTHBOUND	1	0	0	0	1	0	2

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED
WESTBOUND	143	N/A	474	474	N/A	N/A
EASTBOUND	227	N/A	670	670	N/A	N/A
NORTHBOUND	306	N/A	N/A	N/A	602	N/A
SOUTHBOUND	20	N/A	N/A	N/A	0	N/A

EAST-WEST CRITICAL VOLUMES 812
 NORTH-SOUTH CRITICAL VOLUMES 622

 THE SUM OF CRITICAL VOLUMES 1434

 NUMBER OF CRITICAL CLEARANCE INTERVALS 4*

 CMA VALUE 0.943

 LEVEL OF SERVICE E

 * Includes CMA value decreased due to ATCS Implementation.

Northbound and Southbound approaches have opposed signal phases.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 31, PICO BOULEVARD & MOTOR AVENUE
DATE: 6/13/2002 INITIALS: CT PERIOD: AM PEAK HOUR
CASE: FUTURE (2005) WITH PROJECT

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	244	1214	184	0
EASTBOUND	227	1754	264	0
NORTHBOUND	306	0	1218	66
SOUTHBOUND	20	0	0	30

** NUMBER OF LANES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R	TOTAL
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED	LANES
WESTBOUND	2	0	2	1	0	0	5
EASTBOUND	1	0	2	1	0	0	4
NORTHBOUND	1	0	0	0	2	0	3
SOUTHBOUND	1	0	0	0	1	0	2

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED
WESTBOUND	134	N/A	466	466	N/A	N/A
EASTBOUND	227	N/A	673	673	N/A	N/A
NORTHBOUND	306	N/A	N/A	N/A	609	N/A
SOUTHBOUND	20	N/A	N/A	N/A	0	N/A

EAST-WEST CRITICAL VOLUMES 806
 NORTH-SOUTH CRITICAL VOLUMES 629

 THE SUM OF CRITICAL VOLUMES 1435

 NUMBER OF CRITICAL CLEARANCE INTERVALS 4*

 CMA VALUE 0.944

 LEVEL OF SERVICE E

 * Includes CMA value decreased due to ATCS Implementation.
 Northbound and Southbound approaches have opposed signal phases.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 31, PICO BOULEVARD & MOTOR AVENUE
 DATE: 6/21/2002 INITIALS: CT PERIOD: AM PEAK HOUR
 CASE: FUTURE (2005) WITH PROJECT PLUS MITIGATION

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	243	1214	184	0
EASTBOUND	227	1750	264	0
NORTHBOUND	306	0	1214	66
SOUTHBOUND	20	0	0	30

** NUMBER OF LANES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R	TOTAL
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED	LANES
WESTBOUND	2	0	2	1	0	0	5
EASTBOUND	1	0	2	1	0	0	4
NORTHBOUND	1	0	0	0	2	0	3
SOUTHBOUND	1	0	0	0	1	0	2

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED
WESTBOUND	134	N/A	466	466	N/A	N/A
EASTBOUND	227	N/A	671	671	N/A	N/A
NORTHBOUND	306	N/A	N/A	N/A	607	N/A
SOUTHBOUND	20	N/A	N/A	N/A	0	N/A

EAST-WEST CRITICAL VOLUMES 804
 NORTH-SOUTH CRITICAL VOLUMES 627

 THE SUM OF CRITICAL VOLUMES 1431

 NUMBER OF CRITICAL CLEARANCE INTERVALS 4*

 CMA VALUE 0.941

 LEVEL OF SERVICE E

 * Includes CMA value decreased due to ATCS Implementation.

Northbound and Southbound approaches have opposed signal phases.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 31, PICO BOULEVARD & MOTOR AVENUE
DATE: 6/13/2002 INITIALS: CT PERIOD: PM PEAK HOUR
CASE: EXISTING (2001)

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	878	1415	64	0
EASTBOUND	69	1349	415	0
NORTHBOUND	275	0	338	241
SOUTHBOUND	103	0	61	165

** NUMBER OF LANES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R	TOTAL
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED	LANES
WESTBOUND	2	0	1	1	0	0	4
EASTBOUND	1	0	2	1	0	0	4
NORTHBOUND	1	0	0	0	2	0	3
SOUTHBOUND	1	0	0	0	1	0	2

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED
WESTBOUND	483	N/A	740	740	N/A	N/A
EASTBOUND	69	N/A	588	588	N/A	N/A
NORTHBOUND	275	N/A	N/A	N/A	169	N/A
SOUTHBOUND	103	N/A	N/A	N/A	61	N/A

EAST-WEST CRITICAL VOLUMES 1070
 NORTH-SOUTH CRITICAL VOLUMES 378

 THE SUM OF CRITICAL VOLUMES 1448
 NUMBER OF CRITICAL CLEARANCE INTERVALS 4*
 CMA VALUE 0.983
 LEVEL OF SERVICE E

 * Includes CMA value decreased due to ATSC Implementation.

Northbound and Southbound approaches have opposed signal phases.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 31, PICO BOULEVARD & MOTOR AVENUE
DATE: 6/13/2002 INITIALS: CT PERIOD: PM PEAK HOUR
CASE: FUTURE (2005) WITHOUT PROJECT

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	1076	1364	68	0
EASTBOUND	73	1300	451	0
NORTHBOUND	294	0	368	296
SOUTHBOUND	109	0	0	240

** NUMBER OF LANES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R	TOTAL LANES
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED	
WESTBOUND	2	0	2	1	0	0	5
EASTBOUND	1	0	2	1	0	0	4
NORTHBOUND	1	0	0	0	2	0	3
SOUTHBOUND	1	0	0	0	1	0	2

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED
WESTBOUND	592	N/A	477	477	N/A	N/A
EASTBOUND	73	N/A	584	584	N/A	N/A
NORTHBOUND	294	N/A	N/A	N/A	184	N/A
SOUTHBOUND	109	N/A	N/A	N/A	0	N/A

EAST-WEST CRITICAL VOLUMES 1176
 NORTH-SOUTH CRITICAL VOLUMES 403

 THE SUM OF CRITICAL VOLUMES 1579

 NUMBER OF CRITICAL CLEARANCE INTERVALS 4*

 CMA VALUE 1.048

 LEVEL OF SERVICE F

 * Includes CMA value decreased due to ATCS Implementation.

Northbound and Southbound approaches have opposed signal phases.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 31, PICO BOULEVARD & MOTOR AVENUE
DATE: 6/13/2002 INITIALS: CT PERIOD: PM PEAK HOUR
CASE: FUTURE (2005) WITH PROJECT

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	1057	1336	68	0
EASTBOUND	73	1239	451	0
NORTHBOUND	294	0	313	290
SOUTHBOUND	109	0	0	240

** NUMBER OF LANES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R		TOTAL LANES
	ONLY	SHARED		ONLY	SHARED	ONLY	SHARED	
WESTBOUND	2	0	2	1	0	0	0	5
EASTBOUND	1	0	2	1	0	0	0	4
NORTHBOUND	1	0	0	0	2	0	0	3
SOUTHBOUND	1	0	0	0	1	0	0	2

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R	
	ONLY	SHARED		ONLY	SHARED	ONLY	SHARED
WESTBOUND	581	N/A	468	468	N/A	N/A	N/A
EASTBOUND	73	N/A	563	563	N/A	N/A	N/A
NORTHBOUND	294	N/A	N/A	N/A	156	N/A	N/A
SOUTHBOUND	109	N/A	N/A	N/A	0	N/A	N/A

EAST-WEST CRITICAL VOLUMES 1144
 NORTH-SOUTH CRITICAL VOLUMES 403

 THE SUM OF CRITICAL VOLUMES 1547

 NUMBER OF CRITICAL CLEARANCE INTERVALS 4*

 CMA VALUE 1.025

 LEVEL OF SERVICE F

 * Includes CMA value decreased due to ATCS Implementation.

Northbound and Southbound approaches have opposed signal phases.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 31, PICO BOULEVARD & MOTOR AVENUE
DATE: 6/21/2002 INITIALS: CT PERIOD: PM PEAK HOUR
CASE: FUTURE (2005) WITH PROJECT PLUS MITIGATION

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	1053	1331	68	0
EASTBOUND	73	1238	451	0
NORTHBOUND	294	0	312	290
SOUTHBOUND	109	0	0	240

** NUMBER OF LANES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R		TOTAL LANES
	ONLY	SHARED		SHARED	ONLY	SHARED	SHARED	
WESTBOUND	2	0	2	1	0	0	0	5
EASTBOUND	1	0	2	1	0	0	0	4
NORTHBOUND	1	0	0	0	2	0	0	3
SOUTHBOUND	1	0	0	0	1	0	0	2

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R	
	ONLY	SHARED		SHARED	ONLY	SHARED	SHARED
WESTBOUND	579	N/A	466	466	N/A	N/A	N/A
EASTBOUND	73	N/A	563	563	N/A	N/A	N/A
NORTHBOUND	294	N/A	N/A	N/A	156	N/A	N/A
SOUTHBOUND	109	N/A	N/A	N/A	0	N/A	N/A

EAST-WEST CRITICAL VOLUMES 1142
 NORTH-SOUTH CRITICAL VOLUMES 403

 THE SUM OF CRITICAL VOLUMES 1545

 NUMBER OF CRITICAL CLEARANCE INTERVALS 4*

 CMA VALUE 1.024

 LEVEL OF SERVICE F

 * Includes CMA value decreased due to ATCS Implementation.

Northbound and Southbound approaches have opposed signal phases.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 32, PICO BOULEVARD & AVENUE OF THE STARS
DATE: 6/13/2002 INITIALS: CT PERIOD: AM PEAK HOUR
CASE: EXISTING (2001)

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	0	1274	406	25
EASTBOUND	1101	1609	0	0
NORTHBOUND	0	0	0	0
SOUTHBOUND	91	0	8	303

** NUMBER OF LANES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R		TOTAL LANES
	ONLY	SHARED		ONLY	SHARED	ONLY	SHARED	
WESTBOUND	0	0	2	0	1	0	0	3
EASTBOUND	2	0	3	0	0	0	0	5
NORTHBOUND	0	0	0	0	0	0	0	0
SOUTHBOUND	2	0	0	0	2	0	0	4

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R	
	ONLY	SHARED		ONLY	SHARED	ONLY	SHARED
WESTBOUND	N/A	N/A	637	N/A	406	N/A	N/A
EASTBOUND	606	N/A	536	N/A	N/A	N/A	N/A
NORTHBOUND	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SOUTHBOUND	50	N/A	N/A	N/A	4	N/A	N/A

EAST-WEST CRITICAL VOLUMES 1243
 NORTH-SOUTH CRITICAL VOLUMES 50

 THE SUM OF CRITICAL VOLUMES 1293

 NUMBER OF CRITICAL CLEARANCE INTERVALS 3

 CMA VALUE 0.837

 LEVEL OF SERVICE D

 * Includes CMA value decreased due to ATSAC Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 32, PICO BOULEVARD & AVENUE OF THE STARS
DATE: 6/13/2002 INITIALS: CT PERIOD: AM PEAK HOUR
CASE: FUTURE (2005) WITHOUT PROJECT

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	0	1409	544	0
EASTBOUND	1416	1624	0	0
NORTHBOUND	0	0	0	0
SOUTHBOUND	211	0	92	260

** NUMBER OF LANES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R		TOTAL LANES
	ONLY	SHARED		SHARED	ONLY	SHARED	SHARED	
WESTBOUND	0	0	2	1	0	0	0	3
EASTBOUND	3	0	3	0	0	0	0	6
NORTHBOUND	0	0	0	0	0	0	0	0
SOUTHBOUND	2	0	0	0	2	0	0	4

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R	
	ONLY	SHARED		SHARED	ONLY	SHARED	SHARED
WESTBOUND	N/A	N/A	651	651	N/A	N/A	N/A
EASTBOUND	519	N/A	541	N/A	N/A	N/A	N/A
NORTHBOUND	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SOUTHBOUND	116	N/A	N/A	N/A	46	N/A	N/A

EAST-WEST CRITICAL VOLUMES 1170
 NORTH-SOUTH CRITICAL VOLUMES 116

 THE SUM OF CRITICAL VOLUMES 1286

 NUMBER OF CRITICAL CLEARANCE INTERVALS 3

 CMA VALUE 0.802

 LEVEL OF SERVICE D

 * Includes CMA value decreased due to ATCS Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 32, PICO BOULEVARD & AVENUE OF THE STARS
DATE: 6/13/2002 INITIALS: CT PERIOD: AM PEAK HOUR
CASE: FUTURE (2005) WITH PROJECT

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	0	1371	545	0
EASTBOUND	1434	1624	0	0
NORTHBOUND	0	0	0	0
SOUTHBOUND	211	0	87	263

** NUMBER OF LANES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R SHARED	TOTAL LANES
	ONLY	SHARED		SHARED	ONLY		
WESTBOUND	0	0	2	1	0	0	3
EASTBOUND	3	0	3	0	0	0	6
NORTHBOUND	0	0	0	0	0	0	0
SOUTHBOUND	2	0	0	0	2	0	4

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R SHARED
	ONLY	SHARED		SHARED	ONLY	
WESTBOUND	N/A	N/A	639	639	N/A	N/A
EASTBOUND	526	N/A	541	N/A	N/A	N/A
NORTHBOUND	N/A	N/A	N/A	N/A	N/A	N/A
SOUTHBOUND	116	N/A	N/A	N/A	44	N/A

EAST-WEST CRITICAL VOLUMES 1165
 NORTH-SOUTH CRITICAL VOLUMES 116

 THE SUM OF CRITICAL VOLUMES 1281

 NUMBER OF CRITICAL CLEARANCE INTERVALS 3

 CMA VALUE 0.799

 LEVEL OF SERVICE C

 * Includes CMA value decreased due to ATCS Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 32, PICO BOULEVARD & AVENUE OF THE STARS
DATE: 6/21/2002 INITIALS: CT PERIOD: AM PEAK HOUR
CASE: FUTURE (2005) WITH PROJECT PLUS MITIGATION

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	0	1370	545	0
EASTBOUND	1427	1624	0	0
NORTHBOUND	0	0	0	0
SOUTHBOUND	211	0	88	262

** NUMBER OF LANES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R		TOTAL LANES
	ONLY	SHARED		SHARED	ONLY	SHARED	SHARED	
WESTBOUND	0	0	2	1	0	0	0	3
EASTBOUND	3	0	3	0	0	0	0	6
NORTHBOUND	0	0	0	0	0	0	0	0
SOUTHBOUND	2	0	0	0	2	0	0	4

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R	
	ONLY	SHARED		SHARED	ONLY	SHARED	SHARED
WESTBOUND	N/A	N/A	638	638	N/A	N/A	N/A
EASTBOUND	523	N/A	541	N/A	N/A	N/A	N/A
NORTHBOUND	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SOUTHBOUND	116	N/A	N/A	N/A	44	N/A	N/A

EAST-WEST CRITICAL VOLUMES 1161
NORTH-SOUTH CRITICAL VOLUMES 116

THE SUM OF CRITICAL VOLUMES 1277

NUMBER OF CRITICAL CLEARANCE INTERVALS 3

CMA VALUE 0.796

LEVEL OF SERVICE C

* Includes CMA value decreased due to ATCS Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 32, PICO BOULEVARD & AVENUE OF THE STARS
DATE: 6/13/2002 INITIALS: CT PERIOD: PM PEAK HOUR
CASE: EXISTING (2001)

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	0	1585	0	141
EASTBOUND	459	1635	0	0
NORTHBOUND	0	0	0	0
SOUTHBOUND	423	0	869	126

** NUMBER OF LANES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R	TOTAL
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED	LANES
WESTBOUND	0	0	2	0	1	0	3
EASTBOUND	2	0	3	0	0	0	5
NORTHBOUND	0	0	0	0	0	0	0
SOUTHBOUND	2	0	0	0	2	0	4

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED
WESTBOUND	N/A	N/A	792	N/A	0	N/A
EASTBOUND	252	N/A	545	N/A	N/A	N/A
NORTHBOUND	N/A	N/A	N/A	N/A	N/A	N/A
SOUTHBOUND	233	N/A	N/A	N/A	434	N/A

EAST-WEST CRITICAL VOLUMES 1044
 NORTH-SOUTH CRITICAL VOLUMES 434

 THE SUM OF CRITICAL VOLUMES 1478

 NUMBER OF CRITICAL CLEARANCE INTERVALS 3

 CMA VALUE 0.967

 LEVEL OF SERVICE E

 * Includes CMA value decreased due to ATSAC Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 32, PICO BOULEVARD & AVENUE OF THE STARS
DATE: 6/13/2002 INITIALS: CT PERIOD: PM PEAK HOUR
CASE: FUTURE (2005) WITHOUT PROJECT

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	0	1551	347	0
EASTBOUND	504	1636	0	0
NORTHBOUND	0	0	0	0
SOUTHBOUND	684	0	1100	92

** NUMBER OF LANES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R		TOTAL LANES
	ONLY	SHARED		ONLY	SHARED	ONLY	SHARED	
WESTBOUND	0	0	2	1	0	0	0	3
EASTBOUND	3	0	3	0	0	0	0	6
NORTHBOUND	0	0	0	0	0	0	0	0
SOUTHBOUND	2	0	0	0	2	0	0	4

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R	
	ONLY	SHARED		ONLY	SHARED	ONLY	SHARED
WESTBOUND	N/A	N/A	633	633	N/A	N/A	N/A
EASTBOUND	185	N/A	545	N/A	N/A	N/A	N/A
NORTHBOUND	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SOUTHBOUND	376	N/A	N/A	N/A	550	N/A	N/A

EAST-WEST CRITICAL VOLUMES 818
 NORTH-SOUTH CRITICAL VOLUMES 550

 THE SUM OF CRITICAL VOLUMES 1368

 NUMBER OF CRITICAL CLEARANCE INTERVALS 3

 CMA VALUE 0.860

 LEVEL OF SERVICE D

 * Includes CMA value decreased due to ATCS Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 32, PICO BOULEVARD & AVENUE OF THE STARS
DATE: 6/13/2002 INITIALS: CT PERIOD: PM PEAK HOUR
CASE: FUTURE (2005) WITH PROJECT

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	0	1506	340	0
EASTBOUND	381	1636	0	0
NORTHBOUND	0	0	0	0
SOUTHBOUND	684	0	1120	70

** NUMBER OF LANES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R		TOTAL LANES
	ONLY	SHARED		SHARED	ONLY	SHARED	SHARED	
WESTBOUND	0	0	2	1	0	0	0	3
EASTBOUND	3	0	3	0	0	0	0	6
NORTHBOUND	0	0	0	0	0	0	0	0
SOUTHBOUND	2	0	0	0	2	0	0	4

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R	
	ONLY	SHARED		SHARED	ONLY	SHARED	SHARED
WESTBOUND	N/A	N/A	615	615	N/A	N/A	N/A
EASTBOUND	140	N/A	545	N/A	N/A	N/A	N/A
NORTHBOUND	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SOUTHBOUND	376	N/A	N/A	N/A	560	N/A	N/A

EAST-WEST CRITICAL VOLUMES 755
 NORTH-SOUTH CRITICAL VOLUMES 560

 THE SUM OF CRITICAL VOLUMES 1315

 NUMBER OF CRITICAL CLEARANCE INTERVALS 3

 CMA VALUE 0.823

 LEVEL OF SERVICE D

 * Includes CMA value decreased due to ATCS Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 32, PICO BOULEVARD & AVENUE OF THE STARS
DATE: 6/21/2002 INITIALS: CT PERIOD: PM PEAK HOUR
CASE: FUTURE (2005) WITH PROJECT PLUS MITIGATION

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	0	1498	340	0
EASTBOUND	380	1636	0	0
NORTHBOUND	0	0	0	0
SOUTHBOUND	684	0	1119	70

** NUMBER OF LANES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R SHARED	TOTAL LANES
	ONLY	SHARED		ONLY	SHARED		
WESTBOUND	0	0	2	1	0	0	3
EASTBOUND	3	0	3	0	0	0	6
NORTHBOUND	0	0	0	0	0	0	0
SOUTHBOUND	2	0	0	0	2	0	4

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R	
	ONLY	SHARED		ONLY	SHARED	ONLY	SHARED
WESTBOUND	N/A	N/A	613	613	N/A	N/A	N/A
EASTBOUND	139	N/A	545	N/A	N/A	N/A	N/A
NORTHBOUND	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SOUTHBOUND	376	N/A	N/A	N/A	560	N/A	N/A

EAST-WEST CRITICAL VOLUMES 752
 NORTH-SOUTH CRITICAL VOLUMES 560

 THE SUM OF CRITICAL VOLUMES 1312

 NUMBER OF CRITICAL CLEARANCE INTERVALS 3

 CMA VALUE 0.821

 LEVEL OF SERVICE D

 * Includes CMA value decreased due to ATCS Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 33, PICO BOULEVARD & CENTURY PARK EAST
DATE: 6/13/2002 INITIALS: CT PERIOD: AM PEAK HOUR
CASE: EXISTING (2001)

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	22	1607	600	0
EASTBOUND	619	1037	0	0
NORTHBOUND	6	5	3	0
SOUTHBOUND	108	13	0	75

** NUMBER OF LANES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R	TOTAL
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED	LANES
WESTBOUND	1	0	2	1	0	0	4
EASTBOUND	2	0	2	0	0	0	4
NORTHBOUND	0	1	0	1	0	0	2
SOUTHBOUND	1	0	0	0	1	1	3

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED
WESTBOUND	22	N/A	736	736	N/A	N/A
EASTBOUND	340	N/A	518	N/A	N/A	N/A
NORTHBOUND	N/A	7	N/A	7	N/A	N/A
SOUTHBOUND	60	60	N/A	N/A	0	N/A

EAST-WEST CRITICAL VOLUMES 1076
 NORTH-SOUTH CRITICAL VOLUMES 67

 THE SUM OF CRITICAL VOLUMES 1143

 NUMBER OF CRITICAL CLEARANCE INTERVALS 3

 CMA VALUE 0.732

 LEVEL OF SERVICE C

 * Includes CMA value decreased due to ATSAC Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 33, PICO BOULEVARD & CENTURY PARK EAST
DATE: 6/13/2002 INITIALS: CT PERIOD: AM PEAK HOUR
CASE: FUTURE (2005) WITHOUT PROJECT

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	23	1820	707	45
EASTBOUND	651	1137	0	0
NORTHBOUND	6	5	3	0
SOUTHBOUND	166	14	0	75

** NUMBER OF LANES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R		TOTAL LANES
	ONLY	SHARED		SHARED	ONLY	SHARED	SHARED	
WESTBOUND	1	0	3	0	1	0	5	
EASTBOUND	2	0	2	0	0	0	4	
NORTHBOUND	0	1	0	1	0	0	2	
SOUTHBOUND	1	0	0	0	1	1	3	

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R	
	ONLY	SHARED		SHARED	ONLY	SHARED	
WESTBOUND	23	N/A	607	N/A	707	N/A	
EASTBOUND	358	N/A	568	N/A	N/A	N/A	
NORTHBOUND	N/A	7	N/A	7	N/A	N/A	
SOUTHBOUND	90	90	N/A	N/A	0	N/A	

EAST-WEST CRITICAL VOLUMES 1065
 NORTH-SOUTH CRITICAL VOLUMES 97

 THE SUM OF CRITICAL VOLUMES 1162

 NUMBER OF CRITICAL CLEARANCE INTERVALS 3

 CMA VALUE 0.715

 LEVEL OF SERVICE C

 * Includes CMA value decreased due to ATCS Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 33, PICO BOULEVARD & CENTURY PARK EAST
DATE: 6/13/2002 INITIALS: CT PERIOD: AM PEAK HOUR
CASE: FUTURE (2005) WITH PROJECT

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	23	1821	717	40
EASTBOUND	651	1137	0	0
NORTHBOUND	10	10	10	0
SOUTHBOUND	148	14	0	37

** NUMBER OF LANES **

APPROACH	LEFT		THROUGH	RIGHT		L/T/R	TOTAL LANES
	ONLY	SHARED	ONLY	SHARED	ONLY		
WESTBOUND	1	0	3	0	1	0	5
EASTBOUND	2	0	2	0	0	0	4
NORTHBOUND	0	1	0	1	0	0	2
SOUTHBOUND	1	0	0	0	1	1	3

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED
WESTBOUND	23	N/A	607	N/A	717	N/A
EASTBOUND	358	N/A	568	N/A	N/A	N/A
NORTHBOUND	N/A	15	N/A	15	N/A	N/A
SOUTHBOUND	81	81	N/A	N/A	0	N/A

EAST-WEST CRITICAL VOLUMES 1075
 NORTH-SOUTH CRITICAL VOLUMES 96

 THE SUM OF CRITICAL VOLUMES 1171
 NUMBER OF CRITICAL CLEARANCE INTERVALS 3
 CMA VALUE 0.722
 LEVEL OF SERVICE C

 * Includes CMA value decreased due to ATCS Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 33, PICO BOULEVARD & CENTURY PARK EAST
 DATE: 6/21/2002 INITIALS: CT PERIOD: AM PEAK HOUR
 CASE: FUTURE (2005) WITH PROJECT PLUS MITIGATION

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	23	1821	715	40
EASTBOUND	651	1137	0	0
NORTHBOUND	10	10	10	0
SOUTHBOUND	147	14	0	36

** NUMBER OF LANES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R	TOTAL
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED	LANES
WESTBOUND	1	0	3	0	1	0	5
EASTBOUND	2	0	2	0	0	0	4
NORTHBOUND	0	1	0	1	0	0	2
SOUTHBOUND	1	0	0	0	1	1	3

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED
WESTBOUND	23	N/A	607	N/A	715	N/A
EASTBOUND	358	N/A	568	N/A	N/A	N/A
NORTHBOUND	N/A	15	N/A	15	N/A	N/A
SOUTHBOUND	80	80	N/A	N/A	0	N/A

EAST-WEST CRITICAL VOLUMES 1073
 NORTH-SOUTH CRITICAL VOLUMES 95

 THE SUM OF CRITICAL VOLUMES 1168

 NUMBER OF CRITICAL CLEARANCE INTERVALS 3

 CMA VALUE 0.720

 LEVEL OF SERVICE C

 * Includes CMA value decreased due to ATCS Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 33, PICO BOULEVARD & CENTURY PARK EAST
DATE: 6/13/2002 INITIALS: CT PERIOD: PM PEAK HOUR
CASE: EXISTING (2001)

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	7	1226	178	0
EASTBOUND	172	1891	0	0
NORTHBOUND	7	19	12	0
SOUTHBOUND	548	3	249	242

** NUMBER OF LANES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R		TOTAL LANES
	ONLY	SHARED		SHARED	ONLY	SHARED	SHARED	
WESTBOUND	1	0	2	1	0	0	0	4
EASTBOUND	2	0	2	0	0	0	0	4
NORTHBOUND	0	1	0	1	0	0	0	2
SOUTHBOUND	1	0	0	0	1	1	1	3

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R	
	ONLY	SHARED		SHARED	ONLY	SHARED	SHARED
WESTBOUND	7	N/A	468	468	N/A	N/A	N/A
EASTBOUND	95	N/A	946	N/A	N/A	N/A	N/A
NORTHBOUND	N/A	18	N/A	20	N/A	N/A	N/A
SOUTHBOUND	276	276	N/A	N/A	249	N/A	N/A

EAST-WEST CRITICAL VOLUMES 953
 NORTH-SOUTH CRITICAL VOLUMES 296

 THE SUM OF CRITICAL VOLUMES 1249

 NUMBER OF CRITICAL CLEARANCE INTERVALS 3

 CMA VALUE 0.806

 LEVEL OF SERVICE D

 * Includes CMA value decreased due to ATSAC Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 33, PICO BOULEVARD & CENTURY PARK EAST
DATE: 6/13/2002 INITIALS: CT PERIOD: PM PEAK HOUR
CASE: FUTURE (2005) WITHOUT PROJECT

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	7	1373	73	165
EASTBOUND	175	2151	0	0
NORTHBOUND	7	20	13	0
SOUTHBOUND	657	3	203	312

** NUMBER OF LANES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R		TOTAL LANES
	ONLY	SHARED		SHARED	ONLY	SHARED	SHARED	
WESTBOUND	1	0	3	0	1	0	5	
EASTBOUND	2	0	2	0	0	0	4	
NORTHBOUND	0	1	0	1	0	0	2	
SOUTHBOUND	1	0	0	0	1	1	3	

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R	
	ONLY	SHARED		SHARED	ONLY	SHARED	SHARED
WESTBOUND	7	N/A	458	N/A	73	N/A	
EASTBOUND	96	N/A	1076	N/A	N/A	N/A	
NORTHBOUND	N/A	20	N/A	20	N/A	N/A	
SOUTHBOUND	330	330	N/A	N/A	203	N/A	

EAST-WEST CRITICAL VOLUMES 1083
 NORTH-SOUTH CRITICAL VOLUMES 350

 THE SUM OF CRITICAL VOLUMES 1433

 NUMBER OF CRITICAL CLEARANCE INTERVALS 3

 CMA VALUE 0.906

 LEVEL OF SERVICE E

 * Includes CMA value decreased due to ATCS Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 33, PICO BOULEVARD & CENTURY PARK EAST
DATE: 6/13/2002 INITIALS: CT PERIOD: PM PEAK HOUR
CASE: FUTURE (2005) WITH PROJECT

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	10	1366	43	161
EASTBOUND	175	2151	0	0
NORTHBOUND	10	20	13	0
SOUTHBOUND	635	10	154	316

** NUMBER OF LANES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R	TOTAL LANES
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED	
WESTBOUND	1	0	3	0	1	0	5
EASTBOUND	2	0	2	0	0	0	4
NORTHBOUND	0	1	0	1	0	0	2
SOUTHBOUND	1	0	0	0	1	1	3

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED
WESTBOUND	10	N/A	455	N/A	43	N/A
EASTBOUND	96	N/A	1076	N/A	N/A	N/A
NORTHBOUND	N/A	22	N/A	22	N/A	N/A
SOUTHBOUND	322	322	N/A	N/A	154	N/A

EAST-WEST CRITICAL VOLUMES 1086
 NORTH-SOUTH CRITICAL VOLUMES 344

 THE SUM OF CRITICAL VOLUMES 1430

 NUMBER OF CRITICAL CLEARANCE INTERVALS 3

 CMA VALUE 0.904

 LEVEL OF SERVICE E

 * Includes CMA value decreased due to ATCS Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 33, PICO BOULEVARD & CENTURY PARK EAST
DATE: 6/21/2002 INITIALS: CT PERIOD: PM PEAK HOUR
CASE: FUTURE (2005) WITH PROJECT PLUS MITIGATION

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	10	1366	43	160
EASTBOUND	175	2151	0	0
NORTHBOUND	10	20	13	0
SOUTHBOUND	632	10	146	316

** NUMBER OF LANES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R	TOTAL
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED	LANES
WESTBOUND	1	0	3	0	1	0	5
EASTBOUND	2	0	2	0	0	0	4
NORTHBOUND	0	1	0	1	0	0	2
SOUTHBOUND	1	0	0	0	1	1	3

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED
WESTBOUND	10	N/A	455	N/A	43	N/A
EASTBOUND	96	N/A	1076	N/A	N/A	N/A
NORTHBOUND	N/A	22	N/A	22	N/A	N/A
SOUTHBOUND	321	321	N/A	N/A	146	N/A

EAST-WEST CRITICAL VOLUMES 1086
 NORTH-SOUTH CRITICAL VOLUMES 343

 THE SUM OF CRITICAL VOLUMES 1429

 NUMBER OF CRITICAL CLEARANCE INTERVALS 3

 CMA VALUE 0.903

 LEVEL OF SERVICE E

 * Includes CMA value decreased due to ATCS Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 34, MANNING AVENUE & MOTOR AVENUE
DATE: 6/13/2002 INITIALS: CT PERIOD: AM PEAK HOUR
CASE: EXISTING (2001)

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	75	319	220	0
EASTBOUND	21	178	68	0
NORTHBOUND	253	653	0	66
SOUTHBOUND	132	254	7	0

** NUMBER OF LANES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R SHARED	TOTAL LANES
	ONLY	SHARED		ONLY	SHARED		
WESTBOUND	0	0	0	0	0	1	1
EASTBOUND	1	0	0	1	0	0	2
NORTHBOUND	1	0	1	0	1	0	3
SOUTHBOUND	1	0	0	1	0	0	2

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R SHARED
	ONLY	SHARED		ONLY	SHARED	
WESTBOUND	N/A	N/A	N/A	N/A	N/A	614
EASTBOUND	21	N/A	N/A	246	N/A	N/A
NORTHBOUND	253	N/A	653	N/A	0	N/A
SOUTHBOUND	132	N/A	N/A	261	N/A	N/A

EAST-WEST CRITICAL VOLUMES 635
 NORTH-SOUTH CRITICAL VOLUMES 785

 THE SUM OF CRITICAL VOLUMES 1420

 NUMBER OF CRITICAL CLEARANCE INTERVALS 2

 CMA VALUE 0.877

 LEVEL OF SERVICE D

 * Includes CMA value decreased due to ATSAC Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 34, MANNING AVENUE & MOTOR AVENUE
DATE: 6/13/2002 INITIALS: CT PERIOD: AM PEAK HOUR
CASE: FUTURE (2005) WITHOUT PROJECT

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	80	355	297	0
EASTBOUND	22	191	72	0
NORTHBOUND	269	784	0	70
SOUTHBOUND	151	283	7	0

** NUMBER OF LANES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R	TOTAL
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED	LANES
WESTBOUND	0	0	0	0	0	1	1
EASTBOUND	1	0	0	1	0	0	2
NORTHBOUND	1	0	1	0	1	0	3
SOUTHBOUND	1	0	0	1	0	0	2

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED
WESTBOUND	N/A	N/A	N/A	N/A	N/A	732
EASTBOUND	22	N/A	N/A	263	N/A	N/A
NORTHBOUND	269	N/A	784	N/A	0	N/A
SOUTHBOUND	151	N/A	N/A	290	N/A	N/A

EAST-WEST CRITICAL VOLUMES 754
 NORTH-SOUTH CRITICAL VOLUMES 935

 THE SUM OF CRITICAL VOLUMES 1689

 NUMBER OF CRITICAL CLEARANCE INTERVALS 2

 CMA VALUE 1.056

 LEVEL OF SERVICE F

 * Includes CMA value decreased due to ATSAC Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 34, MANNING AVENUE & MOTOR AVENUE
 DATE: 6/13/2002 INITIALS: CT PERIOD: AM PEAK HOUR
 CASE: FUTURE (2005) WITH PROJECT

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	80	356	304	0
EASTBOUND	22	189	72	0
NORTHBOUND	269	786	0	70
SOUTHBOUND	138	279	10	0

** NUMBER OF LANES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R		TOTAL LANES
	ONLY	SHARED		ONLY	SHARED	ONLY	SHARED	
WESTBOUND	0	0	0	0	0	1		1
EASTBOUND	1	0	0	1	0	0		2
NORTHBOUND	1	0	1	0	1	0		3
SOUTHBOUND	1	0	0	1	0	0		2

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R	
	ONLY	SHARED		ONLY	SHARED	ONLY	SHARED
WESTBOUND	N/A	N/A	N/A	N/A	N/A		740
EASTBOUND	22	N/A	N/A	261	N/A		N/A
NORTHBOUND	269	N/A	786	N/A	0		N/A
SOUTHBOUND	138	N/A	N/A	289	N/A		N/A

EAST-WEST CRITICAL VOLUMES 762
 NORTH-SOUTH CRITICAL VOLUMES 924

 THE SUM OF CRITICAL VOLUMES 1686

 NUMBER OF CRITICAL CLEARANCE INTERVALS 2

 CMA VALUE 1.054

 LEVEL OF SERVICE F

 * Includes CMA value decreased due to ATSAC Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 34, MANNING AVENUE & MOTOR AVENUE
DATE: 6/21/2002 INITIALS: CT PERIOD: AM PEAK HOUR
CASE: FUTURE (2005) WITH PROJECT PLUS MITIGATION

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	80	356	301	0
EASTBOUND	22	189	72	0
NORTHBOUND	269	785	0	70
SOUTHBOUND	138	279	10	0

** NUMBER OF LANES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R	TOTAL
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED	LANES
WESTBOUND	0	0	0	0	0	1	1
EASTBOUND	1	0	0	1	0	0	2
NORTHBOUND	1	0	1	0	1	0	3
SOUTHBOUND	1	0	0	1	0	0	2

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED
WESTBOUND	N/A	N/A	N/A	N/A	N/A	737
EASTBOUND	22	N/A	N/A	261	N/A	N/A
NORTHBOUND	269	N/A	785	N/A	0	N/A
SOUTHBOUND	138	N/A	N/A	289	N/A	N/A

EAST-WEST CRITICAL VOLUMES 759
 NORTH-SOUTH CRITICAL VOLUMES 923

 THE SUM OF CRITICAL VOLUMES 1682

 NUMBER OF CRITICAL CLEARANCE INTERVALS 2

 CMA VALUE 1.051

 LEVEL OF SERVICE F

 * Includes CMA value decreased due to ATSAC Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 34, MANNING AVENUE & MOTOR AVENUE
DATE: 6/13/2002 INITIALS: CT PERIOD: PM PEAK HOUR
CASE: EXISTING (2001)

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	65	163	216	0
EASTBOUND	27	361	211	0
NORTHBOUND	60	469	68	32
SOUTHBOUND	189	665	7	0

** NUMBER OF LANES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R	TOTAL
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED	LANES
WESTBOUND	0	0	0	0	0	1	1
EASTBOUND	1	0	0	1	0	0	2
NORTHBOUND	1	0	1	0	1	0	3
SOUTHBOUND	1	0	0	1	0	0	2

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED
WESTBOUND	N/A	N/A	N/A	N/A	N/A	444
EASTBOUND	27	N/A	N/A	572	N/A	N/A
NORTHBOUND	60	N/A	469	N/A	68	N/A
SOUTHBOUND	189	N/A	N/A	672	N/A	N/A

EAST-WEST CRITICAL VOLUMES 637
 NORTH-SOUTH CRITICAL VOLUMES 732

 THE SUM OF CRITICAL VOLUMES 1369

 NUMBER OF CRITICAL CLEARANCE INTERVALS 2

 CMA VALUE 0.843

 LEVEL OF SERVICE D

 * Includes CMA value decreased due to ATSAC Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 34, MANNING AVENUE & MOTOR AVENUE
 DATE: 6/13/2002 INITIALS: CT PERIOD: PM PEAK HOUR
 CASE: FUTURE (2005) WITHOUT PROJECT

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	69	178	251	0
EASTBOUND	29	400	224	0
NORTHBOUND	64	525	72	34
SOUTHBOUND	273	784	7	0

** NUMBER OF LANES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R	TOTAL
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED	LANES
WESTBOUND	0	0	0	0	0	1	1
EASTBOUND	1	0	0	1	0	0	2
NORTHBOUND	1	0	1	0	1	0	3
SOUTHBOUND	1	0	0	1	0	0	2

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED
WESTBOUND	N/A	N/A	N/A	N/A	N/A	498
EASTBOUND	29	N/A	N/A	624	N/A	N/A
NORTHBOUND	64	N/A	525	N/A	72	N/A
SOUTHBOUND	273	N/A	N/A	791	N/A	N/A

EAST-WEST CRITICAL VOLUMES 693
 NORTH-SOUTH CRITICAL VOLUMES 855

 THE SUM OF CRITICAL VOLUMES 1548

 NUMBER OF CRITICAL CLEARANCE INTERVALS 2

 CMA VALUE 0.962

 LEVEL OF SERVICE E

 * Includes CMA value decreased due to ATSAC Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 34, MANNING AVENUE & MOTOR AVENUE
DATE: 6/13/2002 INITIALS: CT PERIOD: PM PEAK HOUR
CASE: FUTURE (2005) WITH PROJECT

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	69	171	203	0
EASTBOUND	29	398	224	0
NORTHBOUND	64	511	72	34
SOUTHBOUND	258	780	10	0

** NUMBER OF LANES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R		TOTAL LANES
	ONLY	SHARED		ONLY	SHARED	ONLY	SHARED	
WESTBOUND	0	0	0	0	0	1		1
EASTBOUND	1	0	0	1	0	0		2
NORTHBOUND	1	0	1	0	1	0		3
SOUTHBOUND	1	0	0	1	0	0		2

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R	
	ONLY	SHARED		ONLY	SHARED	ONLY	SHARED
WESTBOUND	N/A	N/A	N/A	N/A	N/A		443
EASTBOUND	29	N/A	N/A	622	N/A		N/A
NORTHBOUND	64	N/A	511	N/A	72		N/A
SOUTHBOUND	258	N/A	N/A	790	N/A		N/A

EAST-WEST CRITICAL VOLUMES 691
 NORTH-SOUTH CRITICAL VOLUMES 854

 THE SUM OF CRITICAL VOLUMES 1545

 NUMBER OF CRITICAL CLEARANCE INTERVALS 2

 CMA VALUE 0.960

 LEVEL OF SERVICE E

 * Includes CMA value decreased due to ATSAC Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 34, MANNING AVENUE & MOTOR AVENUE
 DATE: 6/21/2002 INITIALS: CT PERIOD: PM PEAK HOUR
 CASE: FUTURE (2005) WITH PROJECT PLUS MITIGATION

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	69	171	203	0
EASTBOUND	29	397	224	0
NORTHBOUND	64	511	72	34
SOUTHBOUND	255	779	10	0

** NUMBER OF LANES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R	TOTAL
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED	LANES
WESTBOUND	0	0	0	0	0	1	1
EASTBOUND	1	0	0	1	0	0	2
NORTHBOUND	1	0	1	0	1	0	3
SOUTHBOUND	1	0	0	1	0	0	2

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED
WESTBOUND	N/A	N/A	N/A	N/A	N/A	443
EASTBOUND	29	N/A	N/A	621	N/A	N/A
NORTHBOUND	64	N/A	511	N/A	72	N/A
SOUTHBOUND	255	N/A	N/A	789	N/A	N/A

EAST-WEST CRITICAL VOLUMES 690
 NORTH-SOUTH CRITICAL VOLUMES 853

 THE SUM OF CRITICAL VOLUMES 1543

 NUMBER OF CRITICAL CLEARANCE INTERVALS 2

 CMA VALUE 0.959

 LEVEL OF SERVICE E

 * Includes CMA value decreased due to ATSAC Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 35, SANTA MONICA BOULEVARD & I-405 SB ON/OFF RAMPS-BELOIT AVENUE
DATE: 6/13/2002 INITIALS: CT PERIOD: AM PEAK HOUR
CASE: EXISTING (2001)

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	695	1809	0	0
EASTBOUND	0	1446	501	0
NORTHBOUND	0	0	0	0
SOUTHBOUND	370	252	622	140

** NUMBER OF LANES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R		TOTAL LANES
	ONLY	SHARED		ONLY	SHARED	ONLY	SHARED	
WESTBOUND	2	0	3	0	0	0	0	5
EASTBOUND	0	0	3	1	0	0	0	4
NORTHBOUND	0	0	0	0	0	0	0	0
SOUTHBOUND	1	1	0	1	1	0	0	4

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R	
	ONLY	SHARED		ONLY	SHARED	ONLY	SHARED
WESTBOUND	382	N/A	603	N/A	N/A	N/A	N/A
EASTBOUND	N/A	N/A	482	N/A	501	N/A	N/A
NORTHBOUND	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SOUTHBOUND	311	311	N/A	N/A	311	N/A	N/A

EAST-WEST CRITICAL VOLUMES 883
 NORTH-SOUTH CRITICAL VOLUMES 311

 THE SUM OF CRITICAL VOLUMES 1194

 NUMBER OF CRITICAL CLEARANCE INTERVALS 3

 CMA VALUE 0.768

 LEVEL OF SERVICE C

 * Includes CMA value decreased due to ATSAC Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 35, SANTA MONICA BOULEVARD & I-405 SB ON/OFF RAMPS-BELOIT AVENUE
 DATE: 6/13/2002 INITIALS: CT PERIOD: AM PEAK HOUR
 CASE: FUTURE (2005) WITHOUT PROJECT

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	778	2048	0	0
EASTBOUND	0	1785	524	0
NORTHBOUND	0	0	0	0
SOUTHBOUND	460	264	636	161

** NUMBER OF LANES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R		TOTAL LANES
	ONLY	SHARED		SHARED	ONLY	SHARED	SHARED	
WESTBOUND	2	0	3	0	0	0	0	5
EASTBOUND	0	0	3	1	0	0	0	4
NORTHBOUND	0	0	0	0	0	0	0	0
SOUTHBOUND	1	1	0	1	1	0	0	4

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R	
	ONLY	SHARED		SHARED	ONLY	SHARED	SHARED
WESTBOUND	428	N/A	683	N/A	N/A	N/A	N/A
EASTBOUND	N/A	N/A	577	577	N/A	N/A	N/A
NORTHBOUND	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SOUTHBOUND	340	340	N/A	340	340	N/A	N/A

EAST-WEST CRITICAL VOLUMES 1005
 NORTH-SOUTH CRITICAL VOLUMES 340

 THE SUM OF CRITICAL VOLUMES 1345

 NUMBER OF CRITICAL CLEARANCE INTERVALS 3

 CMA VALUE 0.844

 LEVEL OF SERVICE D

 * Includes CMA value decreased due to ATCS Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 35, SANTA MONICA BOULEVARD & I-405 SB ON/OFF RAMPS-BELOIT AVENUE
DATE: 6/13/2002 INITIALS: CT PERIOD: AM PEAK HOUR
CASE: FUTURE (2005) WITH PROJECT

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	769	2044	0	0
EASTBOUND	0	1787	524	0
NORTHBOUND	0	0	0	0
SOUTHBOUND	467	264	637	160

** NUMBER OF LANES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R		TOTAL LANES
	ONLY	SHARED		SHARED	ONLY	SHARED	SHARED	
WESTBOUND	2	0	3	0	0	0	0	5
EASTBOUND	0	0	3	1	0	0	0	4
NORTHBOUND	0	0	0	0	0	0	0	0
SOUTHBOUND	1	1	0	1	1	0	0	4

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R	
	ONLY	SHARED		SHARED	ONLY	SHARED	SHARED
WESTBOUND	423	N/A	681	N/A	N/A	N/A	N/A
EASTBOUND	N/A	N/A	578	578	N/A	N/A	N/A
NORTHBOUND	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SOUTHBOUND	342	342	N/A	342	342	N/A	N/A

EAST-WEST CRITICAL VOLUMES 1001
 NORTH-SOUTH CRITICAL VOLUMES 342

 THE SUM OF CRITICAL VOLUMES 1343

 NUMBER OF CRITICAL CLEARANCE INTERVALS 3

 CMA VALUE 0.842

 LEVEL OF SERVICE D

 * Includes CMA value decreased due to ATCS Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 35, SANTA MONICA BOULEVARD & I-405 SB ON/OFF RAMPS-BELOIT AVENUE
 DATE: 6/21/2002 INITIALS: CT PERIOD: AM PEAK HOUR
 CASE: FUTURE (2005) WITH PROJECT PLUS MITIGATION

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	769	2044	0	0
EASTBOUND	0	1786	524	0
NORTHBOUND	0	0	0	0
SOUTHBOUND	464	264	637	160

** NUMBER OF LANES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R		TOTAL LANES
	ONLY	SHARED		ONLY	SHARED	ONLY	SHARED	
WESTBOUND	2	0	3	0	0	0	0	5
EASTBOUND	0	0	3	1	0	0	0	4
NORTHBOUND	0	0	0	0	0	0	0	0
SOUTHBOUND	1	1	0	1	1	0	0	4

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R	
	ONLY	SHARED		ONLY	SHARED	ONLY	SHARED
WESTBOUND	423	N/A	681	N/A	N/A	N/A	N/A
EASTBOUND	N/A	N/A	578	578	N/A	N/A	N/A
NORTHBOUND	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SOUTHBOUND	341	341	N/A	341	341	N/A	N/A

EAST-WEST CRITICAL VOLUMES 1001
 NORTH-SOUTH CRITICAL VOLUMES 341

 THE SUM OF CRITICAL VOLUMES 1342

 NUMBER OF CRITICAL CLEARANCE INTERVALS 3

 CMA VALUE 0.842

 LEVEL OF SERVICE D

 * Includes CMA value decreased due to ATCS Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 35, SANTA MONICA BOULEVARD & I-405 SB ON/OFF RAMPS-BELOIT AVENUE
 DATE: 6/13/2002 INITIALS: CT PERIOD: PM PEAK HOUR
 CASE: EXISTING (2001)

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	625	1536	0	0
EASTBOUND	0	1687	382	0
NORTHBOUND	0	0	0	0
SOUTHBOUND	257	230	216	174

** NUMBER OF LANES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R		TOTAL LANES
	ONLY	SHARED		SHARED	ONLY	SHARED	SHARED	
WESTBOUND	2	0	3	0	0	0	0	5
EASTBOUND	0	0	3	1	0	0	0	4
NORTHBOUND	0	0	0	0	0	0	0	0
SOUTHBOUND	1	1	0	1	1	0	0	4

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R	
	ONLY	SHARED		SHARED	ONLY	SHARED	SHARED
WESTBOUND	344	N/A	512	N/A	N/A	N/A	N/A
EASTBOUND	N/A	N/A	517	517	N/A	N/A	N/A
NORTHBOUND	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SOUTHBOUND	176	176	N/A	176	176	N/A	N/A

EAST-WEST CRITICAL VOLUMES 861
 NORTH-SOUTH CRITICAL VOLUMES 176

 THE SUM OF CRITICAL VOLUMES 1037

 NUMBER OF CRITICAL CLEARANCE INTERVALS 3

 CMA VALUE 0.658

 LEVEL OF SERVICE B

 * Includes CMA value decreased due to ATSAC Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 35, SANTA MONICA BOULEVARD & I-405 SB ON/OFF RAMPS-BELOIT AVENUE
 DATE: 6/13/2002 INITIALS: CT PERIOD: PM PEAK HOUR
 CASE: FUTURE (2005) WITHOUT PROJECT

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	872	2000	0	0
EASTBOUND	0	2024	399	0
NORTHBOUND	0	0	0	0
SOUTHBOUND	299	241	198	210

** NUMBER OF LANES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R		TOTAL LANES
	ONLY	SHARED		SHARED	ONLY	SHARED	SHARED	
WESTBOUND	2	0	3	0	0	0	0	5
EASTBOUND	0	0	3	1	0	0	0	4
NORTHBOUND	0	0	0	0	0	0	0	0
SOUTHBOUND	1	1	0	1	1	0	0	4

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R	
	ONLY	SHARED		SHARED	ONLY	SHARED	SHARED
WESTBOUND	480	N/A	667	N/A	N/A	N/A	N/A
EASTBOUND	N/A	N/A	606	606	N/A	N/A	N/A
NORTHBOUND	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SOUTHBOUND	184	184	N/A	184	184	184	N/A

EAST-WEST CRITICAL VOLUMES 1086
 NORTH-SOUTH CRITICAL VOLUMES 184

 THE SUM OF CRITICAL VOLUMES 1270

 NUMBER OF CRITICAL CLEARANCE INTERVALS 3

 CMA VALUE 0.791

 LEVEL OF SERVICE C

 * Includes CMA value decreased due to ATCS Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 35, SANTA MONICA BOULEVARD & I-405 SB ON/OFF RAMPS-BELOIT AVENUE
DATE: 6/13/2002 INITIALS: CT PERIOD: PM PEAK HOUR
CASE: FUTURE (2005) WITH PROJECT

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	861	1996	0	0
EASTBOUND	0	2010	399	0
NORTHBOUND	0	0	0	0
SOUTHBOUND	251	241	202	206

** NUMBER OF LANES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R		TOTAL LANES
	ONLY	SHARED		SHARED	ONLY	SHARED	SHARED	
WESTBOUND	2	0	3	0	0	0	0	5
EASTBOUND	0	0	3	1	0	0	0	4
NORTHBOUND	0	0	0	0	0	0	0	0
SOUTHBOUND	1	1	0	1	1	0	0	4

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R	
	ONLY	SHARED		SHARED	ONLY	SHARED	SHARED
WESTBOUND	474	N/A	665	N/A	N/A	N/A	N/A
EASTBOUND	N/A	N/A	602	602	N/A	N/A	N/A
NORTHBOUND	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SOUTHBOUND	174	174	N/A	174	174	N/A	N/A

EAST-WEST CRITICAL VOLUMES 1076
 NORTH-SOUTH CRITICAL VOLUMES 174

 THE SUM OF CRITICAL VOLUMES 1250

 NUMBER OF CRITICAL CLEARANCE INTERVALS 3

 CMA VALUE 0.777

 LEVEL OF SERVICE C

 * Includes CMA value decreased due to ATCS Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 35, SANTA MONICA BOULEVARD & I-405 SB ON/OFF RAMPS-BELOIT AVENUE
 DATE: 6/21/2002 INITIALS: CT PERIOD: PM PEAK HOUR
 CASE: FUTURE (2005) WITH PROJECT PLUS MITIGATION

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	859	1995	0	0
EASTBOUND	0	2010	399	0
NORTHBOUND	0	0	0	0
SOUTHBOUND	251	241	204	204

** NUMBER OF LANES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R	TOTAL
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED	LANES
WESTBOUND	2	0	3	0	0	0	5
EASTBOUND	0	0	3	1	0	0	4
NORTHBOUND	0	0	0	0	0	0	0
SOUTHBOUND	1	1	0	1	1	0	4

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED
WESTBOUND	472	N/A	665	N/A	N/A	N/A
EASTBOUND	N/A	N/A	602	602	N/A	N/A
NORTHBOUND	N/A	N/A	N/A	N/A	N/A	N/A
SOUTHBOUND	174	174	N/A	174	174	N/A

EAST-WEST CRITICAL VOLUMES 1074
 NORTH-SOUTH CRITICAL VOLUMES 174

 THE SUM OF CRITICAL VOLUMES 1248

 NUMBER OF CRITICAL CLEARANCE INTERVALS 3

 CMA VALUE 0.776

 LEVEL OF SERVICE C

 * Includes CMA value decreased due to ATCS Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 36, SANTA MONICA BOULEVARD & I-405 NB ON/OFF RAMPS-COTNER AVENUE
DATE: 6/13/2002 INITIALS: CT PERIOD: AM PEAK HOUR
CASE: EXISTING (2001)

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	0	1607	417	0
EASTBOUND	356	1339	0	0
NORTHBOUND	1065	706	1131	128
SOUTHBOUND	0	0	0	0

** NUMBER OF LANES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R		TOTAL LANES
	ONLY	SHARED		SHARED	ONLY	SHARED	SHARED	
WESTBOUND	0	0	3	1	0	0	0	4
EASTBOUND	2	0	3	0	0	0	0	5
NORTHBOUND	1	1	1	1	1	0	0	5
SOUTHBOUND	0	0	0	0	0	0	0	0

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R	
	ONLY	SHARED		SHARED	ONLY	SHARED	SHARED
WESTBOUND	N/A	N/A	506	506	N/A	N/A	N/A
EASTBOUND	196	N/A	446	N/A	N/A	N/A	N/A
NORTHBOUND	580	580	580	580	580	N/A	N/A
SOUTHBOUND	N/A	N/A	N/A	N/A	N/A	N/A	N/A

EAST-WEST CRITICAL VOLUMES 702
 NORTH-SOUTH CRITICAL VOLUMES 580

 THE SUM OF CRITICAL VOLUMES 1282

 NUMBER OF CRITICAL CLEARANCE INTERVALS 3

 CMA VALUE 0.830

 LEVEL OF SERVICE D

 * Includes CMA value decreased due to ATSAC Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 36, SANTA MONICA BOULEVARD & I-405 NB ON/OFF RAMPS-COTNER AVENUE
DATE: 6/13/2002 INITIALS: CT PERIOD: AM PEAK HOUR
CASE: FUTURE (2005) WITHOUT PROJECT

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	0	1889	441	0
EASTBOUND	372	1746	0	0
NORTHBOUND	1114	738	1452	48
SOUTHBOUND	0	0	0	0

** NUMBER OF LANES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R		TOTAL LANES
	ONLY	SHARED		SHARED	ONLY	SHARED	SHARED	
WESTBOUND	0	0	4	0	1	0	0	5
EASTBOUND	2	0	3	0	0	0	0	5
NORTHBOUND	1	1	1	1	1	0	0	5
SOUTHBOUND	0	0	0	0	0	0	0	0

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R	
	ONLY	SHARED		SHARED	ONLY	SHARED	SHARED
WESTBOUND	N/A	N/A	472	N/A	441	N/A	N/A
EASTBOUND	205	N/A	582	N/A	N/A	N/A	N/A
NORTHBOUND	617	617	617	N/A	726	N/A	N/A
SOUTHBOUND	N/A	N/A	N/A	N/A	N/A	N/A	N/A

EAST-WEST CRITICAL VOLUMES 677
 NORTH-SOUTH CRITICAL VOLUMES 726

 THE SUM OF CRITICAL VOLUMES 1403

 NUMBER OF CRITICAL CLEARANCE INTERVALS 3

 CMA VALUE 0.885

 LEVEL OF SERVICE D

 * Includes CMA value decreased due to ATCS Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 36, SANTA MONICA BOULEVARD & I-405 NB ON/OFF RAMPS-COTNER AVENUE
 DATE: 6/13/2002 INITIALS: CT PERIOD: AM PEAK HOUR
 CASE: FUTURE (2005) WITH PROJECT

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	0	1876	428	0
EASTBOUND	372	1755	0	0
NORTHBOUND	1114	738	1461	44
SOUTHBOUND	0	0	0	0

** NUMBER OF LANES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R		TOTAL LANES
	ONLY	SHARED		SHARED	ONLY	SHARED	SHARED	
WESTBOUND	0	0	4	0	1	0	5	
EASTBOUND	2	0	3	0	0	0	5	
NORTHBOUND	1	1	1	1	1	0	5	
SOUTHBOUND	0	0	0	0	0	0	0	

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R	
	ONLY	SHARED		SHARED	ONLY	SHARED	SHARED
WESTBOUND	N/A	N/A	469	N/A	428	N/A	N/A
EASTBOUND	205	N/A	585	N/A	N/A	N/A	N/A
NORTHBOUND	617	617	617	N/A	730	N/A	N/A
SOUTHBOUND	N/A	N/A	N/A	N/A	N/A	N/A	N/A

EAST-WEST CRITICAL VOLUMES 674
 NORTH-SOUTH CRITICAL VOLUMES 730

 THE SUM OF CRITICAL VOLUMES 1404

 NUMBER OF CRITICAL CLEARANCE INTERVALS 3

 CMA VALUE 0.885

 LEVEL OF SERVICE D

 * Includes CMA value decreased due to ATCS Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 36, SANTA MONICA BOULEVARD & I-405 NB ON/OFF RAMPS-COTNER AVENUE
 DATE: 6/21/2002 INITIALS: CT PERIOD: AM PEAK HOUR
 CASE: FUTURE (2005) WITH PROJECT PLUS MITIGATION

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	0	1876	428	0
EASTBOUND	372	1751	0	0
NORTHBOUND	1114	738	1458	45
SOUTHBOUND	0	0	0	0

** NUMBER OF LANES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R		TOTAL LANES
	ONLY	SHARED		ONLY	SHARED	ONLY	SHARED	
WESTBOUND	0	0	4	0	1	0	0	5
EASTBOUND	2	0	3	0	0	0	0	5
NORTHBOUND	1	1	1	1	1	0	0	5
SOUTHBOUND	0	0	0	0	0	0	0	0

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R	
	ONLY	SHARED		ONLY	SHARED	ONLY	SHARED
WESTBOUND	N/A	N/A	469	N/A	428	N/A	N/A
EASTBOUND	205	N/A	584	N/A	N/A	N/A	N/A
NORTHBOUND	617	617	617	N/A	729	N/A	N/A
SOUTHBOUND	N/A	N/A	N/A	N/A	N/A	N/A	N/A

EAST-WEST CRITICAL VOLUMES 674
 NORTH-SOUTH CRITICAL VOLUMES 729

 THE SUM OF CRITICAL VOLUMES 1403

 NUMBER OF CRITICAL CLEARANCE INTERVALS 3

 CMA VALUE 0.885

 LEVEL OF SERVICE D

 * Includes CMA value decreased due to ATCS Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 36, SANTA MONICA BOULEVARD & I-405 NB ON/OFF RAMPS-COTNER AVENUE
DATE: 6/13/2002 INITIALS: CT PERIOD: PM PEAK HOUR
CASE: EXISTING (2001)

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	0	1484	535	0
EASTBOUND	522	1449	0	0
NORTHBOUND	760	631	801	170
SOUTHBOUND	0	0	0	0

** NUMBER OF LANES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R		TOTAL LANES
	ONLY	SHARED		ONLY	SHARED	ONLY	SHARED	
WESTBOUND	0	0	3	1	0	0	0	4
EASTBOUND	2	0	3	0	0	0	0	5
NORTHBOUND	1	1	1	1	1	0	0	5
SOUTHBOUND	0	0	0	0	0	0	0	0

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R	
	ONLY	SHARED		ONLY	SHARED	ONLY	SHARED
WESTBOUND	N/A	N/A	495	N/A	535	N/A	N/A
EASTBOUND	287	N/A	483	N/A	N/A	N/A	N/A
NORTHBOUND	438	438	438	438	438	N/A	N/A
SOUTHBOUND	N/A	N/A	N/A	N/A	N/A	N/A	N/A

EAST-WEST CRITICAL VOLUMES 822
 NORTH-SOUTH CRITICAL VOLUMES 438

 THE SUM OF CRITICAL VOLUMES 1260

 NUMBER OF CRITICAL CLEARANCE INTERVALS 3

 CMA VALUE 0.814

 LEVEL OF SERVICE D

 * Includes CMA value decreased due to ATSAC Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 36, SANTA MONICA BOULEVARD & I-405 NB ON/OFF RAMPS-COTNER AVENUE
DATE: 6/13/2002 INITIALS: CT PERIOD: PM PEAK HOUR
CASE: FUTURE (2005) WITHOUT PROJECT

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	0	2162	626	0
EASTBOUND	546	1806	0	0
NORTHBOUND	795	660	959	162
SOUTHBOUND	0	0	0	0

** NUMBER OF LANES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R		TOTAL LANES
	ONLY	SHARED		SHARED	ONLY	SHARED	SHARED	
WESTBOUND	0	0	4	0	1	0	5	
EASTBOUND	2	0	3	0	0	0	5	
NORTHBOUND	1	1	1	1	1	0	5	
SOUTHBOUND	0	0	0	0	0	0	0	

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R	
	ONLY	SHARED		SHARED	ONLY	SHARED	SHARED
WESTBOUND	N/A	N/A	540	N/A	626	N/A	N/A
EASTBOUND	300	N/A	602	N/A	N/A	N/A	N/A
NORTHBOUND	483	483	483	483	483	N/A	N/A
SOUTHBOUND	N/A	N/A	N/A	N/A	N/A	N/A	N/A

EAST-WEST CRITICAL VOLUMES 926
 NORTH-SOUTH CRITICAL VOLUMES 483

 THE SUM OF CRITICAL VOLUMES 1409

 NUMBER OF CRITICAL CLEARANCE INTERVALS 3

 CMA VALUE 0.889

 LEVEL OF SERVICE D

 * Includes CMA value decreased due to ATCS Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 36, SANTA MONICA BOULEVARD & I-405 NB ON/OFF RAMPS-COTNER AVENUE
DATE: 6/13/2002 INITIALS: CT PERIOD: PM PEAK HOUR
CASE: FUTURE (2005) WITH PROJECT

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	0	2147	611	0
EASTBOUND	546	1745	0	0
NORTHBOUND	795	660	923	164
SOUTHBOUND	0	0	0	0

** NUMBER OF LANES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R		TOTAL LANES
	ONLY	SHARED		SHARED	ONLY	SHARED	SHARED	
WESTBOUND	0	0	4	0	1	0	5	
EASTBOUND	2	0	3	0	0	0	5	
NORTHBOUND	1	1	1	1	1	0	5	
SOUTHBOUND	0	0	0	0	0	0	0	

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R	
	ONLY	SHARED		SHARED	ONLY	SHARED	SHARED
WESTBOUND	N/A	N/A	537	N/A	611	N/A	
EASTBOUND	300	N/A	582	N/A	N/A	N/A	
NORTHBOUND	476	476	476	476	476	N/A	
SOUTHBOUND	N/A	N/A	N/A	N/A	N/A	N/A	

EAST-WEST CRITICAL VOLUMES 911
 NORTH-SOUTH CRITICAL VOLUMES 476

 THE SUM OF CRITICAL VOLUMES 1387

 NUMBER OF CRITICAL CLEARANCE INTERVALS 3

 CMA VALUE 0.873

 LEVEL OF SERVICE D

 * Includes CMA value decreased due to ATCS Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 36, SANTA MONICA BOULEVARD & I-405 NB ON/OFF RAMPS-COTNER AVENUE
 DATE: 6/21/2002 INITIALS: CT PERIOD: PM PEAK HOUR
 CASE: FUTURE (2005) WITH PROJECT PLUS MITIGATION

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	0	2144	608	0
EASTBOUND	546	1744	0	0
NORTHBOUND	795	660	922	164
SOUTHBOUND	0	0	0	0

** NUMBER OF LANES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R		TOTAL LANES
	ONLY	SHARED		ONLY	SHARED	ONLY	SHARED	
WESTBOUND	0	0	4	0	1	0	0	5
EASTBOUND	2	0	3	0	0	0	0	5
NORTHBOUND	1	1	1	1	1	0	0	5
SOUTHBOUND	0	0	0	0	0	0	0	0

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R	
	ONLY	SHARED		ONLY	SHARED	ONLY	SHARED
WESTBOUND	N/A	N/A	536	N/A	608	N/A	N/A
EASTBOUND	300	N/A	581	N/A	N/A	N/A	N/A
NORTHBOUND	475	475	475	475	475	N/A	N/A
SOUTHBOUND	N/A	N/A	N/A	N/A	N/A	N/A	N/A

EAST-WEST CRITICAL VOLUMES 908
 NORTH-SOUTH CRITICAL VOLUMES 475

 THE SUM OF CRITICAL VOLUMES 1383

 NUMBER OF CRITICAL CLEARANCE INTERVALS 3

 CMA VALUE 0.871

 LEVEL OF SERVICE D

 * Includes CMA value decreased due to ATCS Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 37, I-405 SB OFF RAMP/TENNESSEE AVENUE & SAWTELLE BOULEVARD
DATE: 6/13/2002 INITIALS: CT PERIOD: AM PEAK HOUR
CASE: EXISTING (2001)

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	281	190	558	28
EASTBOUND	30	0	0	50
NORTHBOUND	199	811	0	0
SOUTHBOUND	0	493	31	0

** NUMBER OF LANES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R	TOTAL LANES
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED	
WESTBOUND	1	0	0	1	1	0	3
EASTBOUND	1	0	0	0	1	0	2
NORTHBOUND	1	0	2	0	0	0	3
SOUTHBOUND	0	0	1	1	0	0	2

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED
WESTBOUND	281	N/A	N/A	374	374	N/A
EASTBOUND	30	N/A	N/A	N/A	0	N/A
NORTHBOUND	199	N/A	406	N/A	N/A	N/A
SOUTHBOUND	N/A	N/A	262	262	N/A	N/A

EAST-WEST CRITICAL VOLUMES 404
 NORTH-SOUTH CRITICAL VOLUMES 461

 THE SUM OF CRITICAL VOLUMES 865

 NUMBER OF CRITICAL CLEARANCE INTERVALS 3

 CMA VALUE 0.537

 LEVEL OF SERVICE A

 * Includes CMA value decreased due to ATSAC Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 37, I-405 SB OFF RAMP/TENNESSEE AVENUE & SAWTELLE BOULEVARD
 DATE: 6/13/2002 INITIALS: CT PERIOD: AM PEAK HOUR
 CASE: FUTURE (2005) WITHOUT PROJECT

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	330	199	708	28
EASTBOUND	31	0	0	52
NORTHBOUND	208	869	0	0
SOUTHBOUND	0	530	32	0

** NUMBER OF LANES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R	TOTAL
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED	LANES
WESTBOUND	1	0	0	1	1	0	3
EASTBOUND	1	0	0	0	1	0	2
NORTHBOUND	1	0	2	0	0	0	3
SOUTHBOUND	0	0	1	1	0	0	2

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED
WESTBOUND	330	N/A	N/A	454	454	N/A
EASTBOUND	31	N/A	N/A	N/A	0	N/A
NORTHBOUND	208	N/A	434	N/A	N/A	N/A
SOUTHBOUND	N/A	N/A	281	281	N/A	N/A

EAST-WEST CRITICAL VOLUMES 485
 NORTH-SOUTH CRITICAL VOLUMES 489

 THE SUM OF CRITICAL VOLUMES 974

 NUMBER OF CRITICAL CLEARANCE INTERVALS 3

 CMA VALUE 0.584

 LEVEL OF SERVICE A

 * Includes CMA value decreased due to ATCS Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 37, I-405 SB OFF RAMP/TENNESSEE AVENUE & SAWTELLE BOULEVARD
 DATE: 6/13/2002 INITIALS: CT PERIOD: AM PEAK HOUR
 CASE: FUTURE (2005) WITH PROJECT

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	330	199	714	28
EASTBOUND	31	0	0	52
NORTHBOUND	208	869	0	0
SOUTHBOUND	0	530	32	0

** NUMBER OF LANES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R	TOTAL
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED	LANES
WESTBOUND	1	0	0	1	1	0	3
EASTBOUND	1	0	0	0	1	0	2
NORTHBOUND	1	0	2	0	0	0	3
SOUTHBOUND	0	0	1	1	0	0	2

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED
WESTBOUND	330	N/A	N/A	456	456	N/A
EASTBOUND	31	N/A	N/A	N/A	0	N/A
NORTHBOUND	208	N/A	434	N/A	N/A	N/A
SOUTHBOUND	N/A	N/A	281	281	N/A	N/A

EAST-WEST CRITICAL VOLUMES 487
 NORTH-SOUTH CRITICAL VOLUMES 489

 THE SUM OF CRITICAL VOLUMES 976

 NUMBER OF CRITICAL CLEARANCE INTERVALS 3

 CMA VALUE 0.585

 LEVEL OF SERVICE A

 * Includes CMA value decreased due to ATCS Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 37, I-405 SB OFF RAMP/TENNESSEE AVENUE & SAWTELLE BOULEVARD
 DATE: 6/21/2002 INITIALS: CT PERIOD: AM PEAK HOUR
 CASE: FUTURE (2005) WITH PROJECT PLUS MITIGATION

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	330	199	712	28
EASTBOUND	31	0	0	52
NORTHBOUND	208	869	0	0
SOUTHBOUND	0	530	32	0

** NUMBER OF LANES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R	TOTAL
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED	LANES
WESTBOUND	1	0	0	1	1	0	3
EASTBOUND	1	0	0	0	1	0	2
NORTHBOUND	1	0	2	0	0	0	3
SOUTHBOUND	0	0	1	1	0	0	2

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED
WESTBOUND	330	N/A	N/A	456	456	N/A
EASTBOUND	31	N/A	N/A	N/A	0	N/A
NORTHBOUND	208	N/A	434	N/A	N/A	N/A
SOUTHBOUND	N/A	N/A	281	281	N/A	N/A

EAST-WEST CRITICAL VOLUMES 487
 NORTH-SOUTH CRITICAL VOLUMES 489

 THE SUM OF CRITICAL VOLUMES 976

 NUMBER OF CRITICAL CLEARANCE INTERVALS 3

 CMA VALUE 0.585

 LEVEL OF SERVICE A

 * Includes CMA value decreased due to ATCS Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 37, I-405 SB OFF RAMP/TENNESSEE AVENUE & SAWTELLE BOULEVARD
DATE: 6/13/2002 INITIALS: CT PERIOD: PM PEAK HOUR
CASE: EXISTING (2001)

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	323	46	2	152
EASTBOUND	172	0	236	60
NORTHBOUND	119	764	0	0
SOUTHBOUND	0	1093	40	0

** NUMBER OF LANES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R		TOTAL LANES
	ONLY	SHARED		ONLY	SHARED	ONLY	SHARED	
WESTBOUND	1	0	0	1	1	0	0	3
EASTBOUND	1	0	0	0	1	0	0	2
NORTHBOUND	1	0	2	0	0	0	0	3
SOUTHBOUND	0	0	1	1	0	0	0	2

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R	
	ONLY	SHARED		ONLY	SHARED	ONLY	SHARED
WESTBOUND	323	N/A	46	N/A	2	N/A	N/A
EASTBOUND	172	N/A	N/A	N/A	236	N/A	N/A
NORTHBOUND	119	N/A	382	N/A	N/A	N/A	N/A
SOUTHBOUND	N/A	N/A	566	566	N/A	N/A	N/A

EAST-WEST CRITICAL VOLUMES 559
 NORTH-SOUTH CRITICAL VOLUMES 685

 THE SUM OF CRITICAL VOLUMES 1244

 NUMBER OF CRITICAL CLEARANCE INTERVALS 3

 CMA VALUE 0.803

 LEVEL OF SERVICE D

 * Includes CMA value decreased due to ATSAC Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 37, I-405 SB OFF RAMP/TENNESSEE AVENUE & SAWTELLE BOULEVARD
 DATE: 6/13/2002 INITIALS: CT PERIOD: PM PEAK HOUR
 CASE: FUTURE (2005) WITHOUT PROJECT

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	347	48	34	160
EASTBOUND	180	0	248	62
NORTHBOUND	124	823	0	0
SOUTHBOUND	0	1172	42	0

** NUMBER OF LANES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R	TOTAL LANES
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED	
WESTBOUND	1	0	0	1	1	0	3
EASTBOUND	1	0	0	0	1	0	2
NORTHBOUND	1	0	2	0	0	0	3
SOUTHBOUND	0	0	1	1	0	0	2

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED
WESTBOUND	347	N/A	48	N/A	34	N/A
EASTBOUND	180	N/A	N/A	N/A	248	N/A
NORTHBOUND	124	N/A	412	N/A	N/A	N/A
SOUTHBOUND	N/A	N/A	607	607	N/A	N/A

EAST-WEST CRITICAL VOLUMES 595
 NORTH-SOUTH CRITICAL VOLUMES 731

 THE SUM OF CRITICAL VOLUMES 1326

 NUMBER OF CRITICAL CLEARANCE INTERVALS 3

 CMA VALUE 0.831

 LEVEL OF SERVICE D

 * Includes CMA value decreased due to ATCS Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 37, I-405 SB OFF RAMP/TENNESSEE AVENUE & SAWTELLE BOULEVARD
DATE: 6/13/2002 INITIALS: CT PERIOD: PM PEAK HOUR
CASE: FUTURE (2005) WITH PROJECT

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	347	48	0	153
EASTBOUND	180	0	248	62
NORTHBOUND	124	823	0	0
SOUTHBOUND	0	1172	42	0

** NUMBER OF LANES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R	TOTAL
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED	LANES
WESTBOUND	1	0	0	1	1	0	3
EASTBOUND	1	0	0	0	1	0	2
NORTHBOUND	1	0	2	0	0	0	3
SOUTHBOUND	0	0	1	1	0	0	2

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED
WESTBOUND	347	N/A	48	N/A	0	N/A
EASTBOUND	180	N/A	N/A	N/A	248	N/A
NORTHBOUND	124	N/A	412	N/A	N/A	N/A
SOUTHBOUND	N/A	N/A	607	607	N/A	N/A

EAST-WEST CRITICAL VOLUMES 595
 NORTH-SOUTH CRITICAL VOLUMES 731

 THE SUM OF CRITICAL VOLUMES 1326

 NUMBER OF CRITICAL CLEARANCE INTERVALS 3

 CMA VALUE 0.831

 LEVEL OF SERVICE D

 * Includes CMA value decreased due to ATCS Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 37, I-405 SB OFF RAMP/TENNESSEE AVENUE & SAWTELLE BOULEVARD
DATE: 6/21/2002 INITIALS: CT PERIOD: PM PEAK HOUR
CASE: FUTURE (2005) WITH PROJECT PLUS MITIGATION

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	347	48	0	153
EASTBOUND	180	0	248	62
NORTHBOUND	124	823	0	0
SOUTHBOUND	0	1172	42	0

** NUMBER OF LANES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R	TOTAL
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED	LANES
WESTBOUND	1	0	0	1	1	0	3
EASTBOUND	1	0	0	0	1	0	2
NORTHBOUND	1	0	2	0	0	0	3
SOUTHBOUND	0	0	1	1	0	0	2

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED
WESTBOUND	347	N/A	48	N/A	0	N/A
EASTBOUND	180	N/A	N/A	N/A	248	N/A
NORTHBOUND	124	N/A	412	N/A	N/A	N/A
SOUTHBOUND	N/A	N/A	607	607	N/A	N/A

EAST-WEST CRITICAL VOLUMES 595
 NORTH-SOUTH CRITICAL VOLUMES 731

 THE SUM OF CRITICAL VOLUMES 1326

 NUMBER OF CRITICAL CLEARANCE INTERVALS 3

 CMA VALUE 0.831

 LEVEL OF SERVICE D

 * Includes CMA value decreased due to ATCS Implementation.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 38, I-405 NB ON RAMP/TENNESSEE AVENUE & COTNER AVENUE
DATE: 6/13/2002 INITIALS: CT PERIOD: AM PEAK HOUR
CASE: EXISTING (2001)

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	7	6	20	0
EASTBOUND	0	0	0	0
NORTHBOUND	747	219	14	0
SOUTHBOUND	23	85	230	0

** NUMBER OF LANES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R SHARED	TOTAL LANES
	ONLY	SHARED		SHARED	ONLY		
WESTBOUND	0	0	0	0	0	1	1
EASTBOUND	0	0	0	0	0	0	0
NORTHBOUND	0	0	0	0	0	1	1
SOUTHBOUND	0	0	0	0	0	1	1

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R SHARED
	ONLY	SHARED		SHARED	ONLY	
WESTBOUND	N/A	N/A	N/A	N/A	N/A	33
EASTBOUND	N/A	N/A	N/A	N/A	N/A	N/A
NORTHBOUND	N/A	N/A	N/A	N/A	N/A	980
SOUTHBOUND	N/A	N/A	N/A	N/A	N/A	338

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EAST-WEST CRITICAL VOLUMES ..... 33
NORTH-SOUTH CRITICAL VOLUMES ..... 1085
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THE SUM OF CRITICAL VOLUMES ..... 1118

NUMBER OF CRITICAL CLEARANCE INTERVALS .... 2

CMA VALUE ..... 0.932

LEVEL OF SERVICE ..... E

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Capacity assumed = 1200.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 38, I-405 NB ON RAMP/TENNESSEE AVENUE & COTNER AVENUE
 DATE: 6/13/2002 INITIALS: CT PERIOD: AM PEAK HOUR
 CASE: FUTURE (2005) WITHOUT PROJECT

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	7	6	21	0
EASTBOUND	0	0	0	0
NORTHBOUND	789	229	15	0
SOUTHBOUND	24	89	256	0

** NUMBER OF LANES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R SHARED	TOTAL LANES
	ONLY	SHARED		SHARED	ONLY		
WESTBOUND	0	0	0	0	0	1	1
EASTBOUND	0	0	0	0	0	0	0
NORTHBOUND	1	0	0	1	0	0	2
SOUTHBOUND	1	0	0	1	1	0	3

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R SHARED
	ONLY	SHARED		SHARED	ONLY	
WESTBOUND	N/A	N/A	N/A	N/A	N/A	34
EASTBOUND	N/A	N/A	N/A	N/A	N/A	N/A
NORTHBOUND	789	N/A	N/A	244	N/A	N/A
SOUTHBOUND	24	N/A	N/A	133	212	N/A

EAST-WEST CRITICAL VOLUMES 34
 NORTH-SOUTH CRITICAL VOLUMES 1001

 THE SUM OF CRITICAL VOLUMES 1035

 NUMBER OF CRITICAL CLEARANCE INTERVALS 2

 CMA VALUE 0.863

 LEVEL OF SERVICE D

Capacity assumed = 1200.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 38, I-405 NB ON RAMP/TENNESSEE AVENUE & COTNER AVENUE
 DATE: 6/13/2002 INITIALS: CT PERIOD: AM PEAK HOUR
 CASE: FUTURE (2005) WITH PROJECT

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	10	10	21	0
EASTBOUND	0	0	0	0
NORTHBOUND	787	229	15	0
SOUTHBOUND	24	89	247	0

** NUMBER OF LANES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R	TOTAL
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED	LANES
WESTBOUND	0	0	0	0	0	1	1
EASTBOUND	0	0	0	0	0	0	0
NORTHBOUND	1	0	0	1	0	0	2
SOUTHBOUND	1	0	0	1	1	0	3

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED
WESTBOUND	N/A	N/A	N/A	N/A	N/A	41
EASTBOUND	N/A	N/A	N/A	N/A	N/A	N/A
NORTHBOUND	787	N/A	N/A	244	N/A	N/A
SOUTHBOUND	24	N/A	N/A	131	205	N/A

EAST-WEST CRITICAL VOLUMES 41
 NORTH-SOUTH CRITICAL VOLUMES 992

 THE SUM OF CRITICAL VOLUMES 1033

 NUMBER OF CRITICAL CLEARANCE INTERVALS 2

 CMA VALUE 0.861

 LEVEL OF SERVICE D

Capacity assumed = 1200.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 38, I-405 NB ON RAMP/TENNESSEE AVENUE & COTNER AVENUE
 DATE: 6/21/2002 INITIALS: CT PERIOD: AM PEAK HOUR
 CASE: FUTURE (2005) WITH PROJECT PLUS MITIGATION

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	10	10	21	0
EASTBOUND	0	0	0	0
NORTHBOUND	787	229	15	0
SOUTHBOUND	24	89	247	0

** NUMBER OF LANES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R	TOTAL
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED	LANES
WESTBOUND	0	0	0	0	0	1	1
EASTBOUND	0	0	0	0	0	0	0
NORTHBOUND	1	0	0	1	0	0	2
SOUTHBOUND	1	0	0	1	1	0	3

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED
WESTBOUND	N/A	N/A	N/A	N/A	N/A	41
EASTBOUND	N/A	N/A	N/A	N/A	N/A	N/A
NORTHBOUND	787	N/A	N/A	244	N/A	N/A
SOUTHBOUND	24	N/A	N/A	131	205	N/A

EAST-WEST CRITICAL VOLUMES 41
 NORTH-SOUTH CRITICAL VOLUMES 992

 THE SUM OF CRITICAL VOLUMES 1033

 NUMBER OF CRITICAL CLEARANCE INTERVALS 2

 CMA VALUE 0.861

 LEVEL OF SERVICE D

Capacity assumed = 1200.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 38, I-405 NB ON RAMP/TENNESSEE AVENUE & COTNER AVENUE
DATE: 6/13/2002 INITIALS: CT PERIOD: PM PEAK HOUR
CASE: EXISTING (2001)

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	2	11	35	0
EASTBOUND	0	0	0	0
NORTHBOUND	438	235	14	0
SOUTHBOUND	14	326	461	0

** NUMBER OF LANES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R SHARED	TOTAL LANES
	ONLY	SHARED		ONLY	SHARED		
WESTBOUND	0	0	0	0	0	1	1
EASTBOUND	0	0	0	0	0	0	0
NORTHBOUND	0	0	0	0	0	1	1
SOUTHBOUND	0	0	0	0	0	1	1

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R SHARED
	ONLY	SHARED		ONLY	SHARED	
WESTBOUND	N/A	N/A	N/A	N/A	N/A	48
EASTBOUND	N/A	N/A	N/A	N/A	N/A	N/A
NORTHBOUND	N/A	N/A	N/A	N/A	N/A	687
SOUTHBOUND	N/A	N/A	N/A	N/A	N/A	801

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EAST-WEST CRITICAL VOLUMES ..... 48
NORTH-SOUTH CRITICAL VOLUMES ..... 1239
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THE SUM OF CRITICAL VOLUMES ..... 1287

NUMBER OF CRITICAL CLEARANCE INTERVALS .... 2

CMA VALUE ..... 1.072

LEVEL OF SERVICE ..... F

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Capacity assumed = 1200.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 38, I-405 NB ON RAMP/TENNESSEE AVENUE & COTNER AVENUE
 DATE: 6/13/2002 INITIALS: CT PERIOD: PM PEAK HOUR
 CASE: FUTURE (2005) WITHOUT PROJECT

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	2	13	37	0
EASTBOUND	0	0	0	0
NORTHBOUND	489	246	15	0
SOUTHBOUND	15	354	569	0

** NUMBER OF LANES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R		TOTAL LANES
	ONLY	SHARED		SHARED	ONLY	SHARED	SHARED	
WESTBOUND	0	0	0	0	0	1	1	1
EASTBOUND	0	0	0	0	0	0	0	0
NORTHBOUND	1	0	0	1	0	0	0	2
SOUTHBOUND	1	0	0	1	1	0	0	3

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT		THROUGH ONLY	RIGHT		L/T/R	
	ONLY	SHARED		SHARED	ONLY	SHARED	SHARED
WESTBOUND	N/A	N/A	N/A	N/A	N/A	N/A	52
EASTBOUND	N/A	N/A	N/A	N/A	N/A	N/A	N/A
NORTHBOUND	489	N/A	N/A	261	N/A	N/A	N/A
SOUTHBOUND	15	N/A	N/A	451	472	N/A	N/A

EAST-WEST CRITICAL VOLUMES 52
 NORTH-SOUTH CRITICAL VOLUMES 961

 THE SUM OF CRITICAL VOLUMES 1013

 NUMBER OF CRITICAL CLEARANCE INTERVALS 2

 CMA VALUE 0.844

 LEVEL OF SERVICE D

Capacity assumed = 1200.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 38, I-405 NB ON RAMP/TENNESSEE AVENUE & COTNER AVENUE
 DATE: 6/13/2002 INITIALS: CT PERIOD: PM PEAK HOUR
 CASE: FUTURE (2005) WITH PROJECT

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	10	13	37	0
EASTBOUND	0	0	0	0
NORTHBOUND	487	246	15	0
SOUTHBOUND	15	354	558	0

** NUMBER OF LANES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R	TOTAL
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED	LANES
WESTBOUND	0	0	0	0	0	1	1
EASTBOUND	0	0	0	0	0	0	0
NORTHBOUND	1	0	0	1	0	0	2
SOUTHBOUND	1	0	0	1	1	0	3

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED
WESTBOUND	N/A	N/A	N/A	N/A	N/A	60
EASTBOUND	N/A	N/A	N/A	N/A	N/A	N/A
NORTHBOUND	487	N/A	N/A	261	N/A	N/A
SOUTHBOUND	15	N/A	N/A	449	463	N/A

EAST-WEST CRITICAL VOLUMES 60
 NORTH-SOUTH CRITICAL VOLUMES 950

 THE SUM OF CRITICAL VOLUMES 1010

 NUMBER OF CRITICAL CLEARANCE INTERVALS 2

 CMA VALUE 0.842

 LEVEL OF SERVICE D

Capacity assumed = 1200.

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 38, I-405 NB ON RAMP/TENNESSEE AVENUE & COTNER AVENUE
 DATE: 6/21/2002 INITIALS: CT PERIOD: PM PEAK HOUR
 CASE: FUTURE (2005) WITH PROJECT PLUS MITIGATION

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	10	13	37	0
EASTBOUND	0	0	0	0
NORTHBOUND	486	246	15	0
SOUTHBOUND	15	354	556	0

** NUMBER OF LANES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R	TOTAL
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED	LANES
WESTBOUND	0	0	0	0	0	1	1
EASTBOUND	0	0	0	0	0	0	0
NORTHBOUND	1	0	0	1	0	0	2
SOUTHBOUND	1	0	0	1	1	0	3

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED
WESTBOUND	N/A	N/A	N/A	N/A	N/A	60
EASTBOUND	N/A	N/A	N/A	N/A	N/A	N/A
NORTHBOUND	486	N/A	N/A	261	N/A	N/A
SOUTHBOUND	15	N/A	N/A	449	461	N/A

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EAST-WEST CRITICAL VOLUMES ..... 60
NORTH-SOUTH CRITICAL VOLUMES ..... 947
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THE SUM OF CRITICAL VOLUMES ..... 1007

NUMBER OF CRITICAL CLEARANCE INTERVALS .... 2

CMA VALUE ..... 0.839

LEVEL OF SERVICE ..... D
  
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Capacity assumed = 1200.

APPENDIX G
PRELIMINARY PROJECT TRANSPORTATION
DEMAND MANAGEMENT (TDM) PROGRAM

2000 Avenue of the Stars
Preliminary Project Transportation Demand Management (TDM) Program

TDM Program Measures

In addition to the TDM and bicycle measures required by City Ordinance Nos. 168700 and 167409, described below are additional measures that the project may implement, as necessary, to achieve the five percent (5%) reduction in peak-hour trips.

I. REQUIRED MEASURES

A. Building & Site Design Amenities

A.1 Preferential Parking for Employee Carpools and Vanpools – Designated area(s) that in total comprise 10 percent of the parking spaces required for the project. Two of these spaces shall be permanently identified with posted signs and/or pavement striping. The remainder would be so identified as dictated by demand. A minimum vertical clearance of 7 feet and 2 inches must be provided for parking and access ways to be used by vanpool vehicles.

A.2 Carpool/Vanpool Passenger Staging Area.

A.3 Direct and Safe Pedestrian Access – Access from each project building to the external pedestrian circulation system and nearby bus stops.

A.4 Bicycle Facilities.

A.4.a Bicycle Parking – Provided at a rate of two percent of the number of automobile parking spaces required of the project. The bicycle parking shall be located so that these spaces are closer to building entrances than the nearest off-street automobile parking spaces.

A.4.b Clothes Lockers – One locker per required bicycle parking space.

A.4.c Direct and Safe Bicycle Access.

A.4.d Showers – As outlined by Section 91.0705 of the City Municipal Code and/or specified by the City.

B. TDM Information & Services

B.1 Centralized Transportation Information Display(s) – The display(s) shall include information such as the availability of preferred carpool/vanpool parking and current routes and schedules for public transit serving the site.

II. ADDITIONAL MEASURES

The additional measures described below and/or other appropriate measures may be implemented by the project to further ensure an effective TDM program.

A. TDM Information & Services

A.1 On-Site Employee Transportation Coordinator (ETC) – This person will be responsible for maintaining the transportation display(s) and providing services such as on-site monthly transit pass sales, assistance with carpool/vanpool matching, oversight of the preferred carpool/vanpool parking program and other services as listed below. The ETC will be a visible resource on-site who employees can seek out for TDM-related assistance, and who can also coordinate resources and ideas with the Transportation Management Organization (TMO) planned as part of the Constellation Place project.

A.2 Carpool /Vanpool Matching -- A ridematching service will be made available to help project employees seek carpool and/or vanpool partners. The ETC will facilitate employee ridematching using an in-house system (e.g., specialized spreadsheet and/or residential pin-point map with accompanying sign-up sheet), or by using an external system such as RideStar that is available through the Southern California Association of Governments (SCAG), or RideLinks that is available for purchase through a private company. The primary emphasis will be to match project employees with one another, given the primary objective to reduce the project's vehicular trip generation. The availability of this service will be advertised through the transportation display(s) in the context of information on preferred carpool/vanpool parking opportunities. Vanpool formation will also be further encouraged through the following actions:

A.2.a Vanpool Start-Up Assistance -- The ETC will provide further assistance, as needed, to employers or employees attempting to initiate vanpool service at the project. Such assistance can include research of van leasing arrangements possible through companies such as VPSI, research of applicable tax credits

available to sponsoring employers or participating employees, and assistance with route development.

A.2.b Reimbursement of Driver Medical Exam Costs -- For each new vanpool started at the project, the project will reimburse the lead driver plus one alternate driver a portion of or total direct cost they each pay for their initial medical exam required to operate the vanpool.

A.3 On-Site Transit Pass Sales -- Monthly bus passes for transit services and agencies serving the project will be made available for purchase on-site, such as at the concierge's desk.

A.4 Personalized Transit Information – The transportation display(s) and on-site ETC will both advertise the availability of free automated transit trip planning that is available through two websites:

- “Metro Trip Planner” accessible through MTA’s website at <http://www.mta.net>;
and
- “TranStar” accessible through the SCAG website at <http://www.scag.ca.gov/transit>.

Additionally, upon request, the on-site ETC will assist employees with these services and in obtaining and/or discussing the appropriate transit schedules needed for their commute.

A.5 New Business/Employee Commuter Benefits Flier/Package – The ETC will prepare fliers and/or packets outlining some of the key TDM amenities and services that are made available by the project in support of alternative transportation. The fliers/packets will be distributed to employers within the project, for employers to post and/or disseminate to their employees.

A.6 Other Marketing – The annual state- and regional-level events of California Rideshare Week and Southern California Bike-to-Work Day will be advertised and potentially used as the setting for a site-specific marketing event and/or transportation fair.

B. Tenant TDM Provision

The building owner will issue a TDM provision with each office lease, which formally introduces tenants to the project TDM Program and requests that tenants participate in the following program(s):

- Enrollment in Free County Incentive Program – SCAG advertises two rideshare incentive programs, Rideshare Rewards and Club Metro, which are available to

employees whose employer is located within Los Angeles County and has fewer than 250 site employees. Rideshare Rewards encourages employees to try alternative commute modes by offering \$2 per day in gift certificates for Ralphs, Unocal or Target during their first three months of trial. Club Metro encourages employees to continue ridesharing beyond the trial period by offering a Club Metro rewards discount book to restaurants and other entertainment venues. Both programs are sponsored by the MTA and are free, but employers must first enroll in the programs.

The Tenant TDM Provision will also encourage tenants to consider alternative work hour schedules, if feasible, such as outlined below.

- Alternative Work Schedules – Examples of alternative work schedules include:
 - 1) compressed work week schedules, such as the 9/80 work schedule that allows employees to compress their work schedules into nine days to receive one specified day off every-other week;
 - 2) adjusting the typical start and end times of specific departments or offices to avoid the AM and PM peak periods; and/or
 - 3) offering employees the flexibility to adjust their designated work schedules by up to half an hour, upon supervisor or management approval, if needed to participate in a carpool, vanpool or public transit arrangement.