

CRAIN & ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 6, DEVONSHIRE ST. & DE SOTO AV.
DATE: 4/6/2005 INITIALS: LC PERIOD: AM PEAK HOUR
CASE: FUTURE (2007) W/PROJECT W/ TDM + MIT

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	340	919	0	125
EASTBOUND	382	870	122	0
NORTHBOUND	198	1238	124	0
SOUTHBOUND	136	1783	109	0

** NUMBER OF LANES **

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

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT ONLY	LEFT SHARED	THROUGH ONLY	RIGHT SHARED	RIGHT ONLY	L/T/R SHARED
	WESTBOUND	187	N/A	460	N/A	0
EASTBOUND	210	N/A	496	496	N/A	N/A
NORTHBOUND	109	N/A	454	454	N/A	N/A
SOUTHBOUND	75	N/A	631	631	N/A	N/A

EAST-WEST CRITICAL VOLUMES	683
NORTH-SOUTH CRITICAL VOLUMES	740

THE SUM OF CRITICAL VOLUMES	1423
NUMBER OF CRITICAL CLEARANCE INTERVALS	4*
CMA VALUE	0.935
LEVEL OF SERVICE	E

* Includes CMA value decreased due to ATCS Implementation.

CRAIN & ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 7, CHATSWORTH ST. & MASON AV.
DATE: 4/6/2005 INITIALS: LC PERIOD: AM PEAK HOUR
CASE: FUTURE (2007) W/PROJECT W/ TDM + MIT

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	52	39	0	15
EASTBOUND	100	32	411	96
NORTHBOUND	191	443	12	0
SOUTHBOUND	2	1167	27	119

** NUMBER OF LANES **

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

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT ONLY	LEFT SHARED	THROUGH ONLY	RIGHT SHARED	RIGHT ONLY	L/T/R SHARED
EASTBOUND	100	N/A	32	N/A	206	N/A
NORTHBOUND	191	N/A	228	228	N/A	N/A
SOUTHBOUND	2	N/A	584	N/A	27	N/A

EAST-WEST CRITICAL VOLUMES 258
 NORTH-SOUTH CRITICAL VOLUMES 775

 THE SUM OF CRITICAL VOLUMES 1033
 NUMBER OF CRITICAL CLEARANCE INTERVALS 2
 CMA VALUE 0.689
 LEVEL OF SERVICE B

CRAIN & ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 8, DEVONSHIRE ST. & MASON AV.
DATE: 4/6/2005 INITIALS: LC PERIOD: AM PEAK HOUR
CASE: FUTURE (2007) WITH PROJECT WITH TDM

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	69	854	88	0
EASTBOUND	83	559	165	0
NORTHBOUND	74	489	93	0
SOUTHBOUND	184	1310	147	0

** NUMBER OF LANES **

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

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT ONLY	LEFT SHARED	THROUGH ONLY	RIGHT SHARED	RIGHT ONLY	L/T/R SHARED
EASTBOUND	83	N/A	241	241	N/A	N/A
NORTHBOUND	74	N/A	291	291	N/A	N/A
SOUTHBOUND	184	N/A	728	728	N/A	N/A

EAST-WEST CRITICAL VOLUMES 397
 NORTH-SOUTH CRITICAL VOLUMES 802

 THE SUM OF CRITICAL VOLUMES 1199
 NUMBER OF CRITICAL CLEARANCE INTERVALS 2
 CMA VALUE 0.841
 LEVEL OF SERVICE D

CRAIN & ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 1, RONALD REAGAN FWY. W/B RAMPS & DE SOTO AV.
DATE: 4/6/2005 INITIALS: LC PERIOD: PM PEAK HOUR
CASE: FUTURE (2007) WITH PROJECT WITH TDM

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	1140	0	6	2
EASTBOUND	0	0	0	0
NORTHBOUND	0	56	0	854
SOUTHBOUND	3	38	0	0

** NUMBER OF LANES **

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

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT ONLY	LEFT SHARED	THROUGH ONLY	RIGHT SHARED	RIGHT ONLY	L/T/R SHARED
WESTBOUND	627	N/A	N/A	N/A	6	N/A
EASTBOUND	N/A	N/A	N/A	N/A	N/A	N/A
NORTHBOUND	N/A	N/A	56	N/A	0	N/A
SOUTHBOUND	N/A	20	20	N/A	N/A	N/A

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EAST-WEST CRITICAL VOLUMES ..... 627
NORTH-SOUTH CRITICAL VOLUMES ..... 59
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THE SUM OF CRITICAL VOLUMES ..... 686

NUMBER OF CRITICAL CLEARANCE INTERVALS .... 0

CMA VALUE ..... 0.481

LEVEL OF SERVICE ..... A

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CRAIN & ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 2, RONALD REAGAN FWY. E/B RAMPS & DE SOTO AV.
DATE: 4/6/2005 INITIALS: LC PERIOD: PM PEAK HOUR
CASE: FUTURE (2007) WITH PROJECT WITH TDM

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	0	0	0	0
EASTBOUND	5	0	0	521
NORTHBOUND	0	876	0	2120
SOUTHBOUND	1	70	0	0

** NUMBER OF LANES **

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

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT ONLY	LEFT SHARED	THROUGH ONLY	RIGHT SHARED	RIGHT ONLY	L/T/R SHARED
EASTBOUND	N/A	5	N/A	N/A	0	N/A
NORTHBOUND	N/A	N/A	438	N/A	0	N/A
SOUTHBOUND	1	N/A	35	N/A	N/A	N/A

EAST-WEST CRITICAL VOLUMES 5
 NORTH-SOUTH CRITICAL VOLUMES 439

 THE SUM OF CRITICAL VOLUMES 444
 NUMBER OF CRITICAL CLEARANCE INTERVALS 0
 CMA VALUE 0.370
 LEVEL OF SERVICE A

CRAIN & ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 3, RINALDI ST. & DE SOTO AV.
DATE: 4/6/2005 INITIALS: LC PERIOD: PM PEAK HOUR
CASE: FUTURE (2007) W/PROJECT W/ TDM + MIT

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	875	0	0	101
EASTBOUND	0	0	0	0
NORTHBOUND	0	2168	537	240
SOUTHBOUND	282	1011	0	0

** NUMBER OF LANES **

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

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT ONLY	LEFT SHARED	THROUGH ONLY	RIGHT SHARED	RIGHT ONLY	L/T/R SHARED
EASTBOUND	N/A	N/A	N/A	N/A	N/A	N/A
NORTHBOUND	N/A	N/A	1084	N/A	537	N/A
SOUTHBOUND	282	N/A	506	N/A	N/A	N/A

EAST-WEST CRITICAL VOLUMES 481
 NORTH-SOUTH CRITICAL VOLUMES 1366

 THE SUM OF CRITICAL VOLUMES 1847

 NUMBER OF CRITICAL CLEARANCE INTERVALS 3*

 CMA VALUE 1.196

 LEVEL OF SERVICE F

 * Includes CMA value decreased due to ATCS Implementation.

CRAIN & ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 4, TULSA ST. & DE SOTO AV.
DATE: 4/6/2005 INITIALS: LC PERIOD: PM PEAK HOUR
CASE: FUTURE (2007) W/PROJECT W/ TDM + MIT

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	0	0	20	0
EASTBOUND	0	0	0	0
NORTHBOUND	0	3370	19	10
SOUTHBOUND	0	1947	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	0	0	0	0
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	0	N/A	N/A	N/A	20	N/A
EASTBOUND	N/A	N/A	N/A	N/A	N/A	N/A
NORTHBOUND	0	N/A	1685	N/A	19	N/A
SOUTHBOUND	0	N/A	974	N/A	0	N/A

EAST-WEST CRITICAL VOLUMES 20
 NORTH-SOUTH CRITICAL VOLUMES 1685

 THE SUM OF CRITICAL VOLUMES 1705
 NUMBER OF CRITICAL CLEARANCE INTERVALS 0
 CMA VALUE 1.037
 LEVEL OF SERVICE F

CRAIN & ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 5, CHATSWORTH ST. & DE SOTO AV.
DATE: 4/6/2005 INITIALS: LC PERIOD: PM PEAK HOUR
CASE: FUTURE (2007) W/PROJECT W/ TDM + MIT

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	25	158	139	123
EASTBOUND	260	208	49	0
NORTHBOUND	58	2878	58	0
SOUTHBOUND	123	1634	120	72

** NUMBER OF LANES **

APPROACH	LEFT	LEFT	THROUGH	RIGHT	RIGHT	L/T/R	TOTAL
	ONLY	SHARED	ONLY	SHARED	ONLY	SHARED	LANES
WESTBOUND	1	0	1	0	1	0	3
EASTBOUND	2	0	0	1	0	0	3
NORTHBOUND	1	0	2	1	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	25	N/A	158	N/A	139	N/A
EASTBOUND	143	N/A	N/A	257	N/A	N/A
NORTHBOUND	58	N/A	979	979	N/A	N/A
SOUTHBOUND	123	N/A	817	N/A	120	N/A

EAST-WEST CRITICAL VOLUMES 301
 NORTH-SOUTH CRITICAL VOLUMES 1102

 THE SUM OF CRITICAL VOLUMES 1403

 NUMBER OF CRITICAL CLEARANCE INTERVALS 3

 CMA VALUE 0.885

 LEVEL OF SERVICE D

CRAIN & ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 6, DEVONSHIRE ST. & DE SOTO AV.
DATE: 4/6/2005 INITIALS: LC PERIOD: PM PEAK HOUR
CASE: FUTURE (2007) W/PROJECT W/ TDM + MIT

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	153	875	124	74
EASTBOUND	369	917	137	0
NORTHBOUND	186	2403	226	0
SOUTHBOUND	268	1282	202	0

** NUMBER OF LANES **

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

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT ONLY	LEFT SHARED	THROUGH ONLY	RIGHT SHARED	RIGHT ONLY	L/T/R SHARED
EASTBOUND	203	N/A	527	527	N/A	N/A
NORTHBOUND	102	N/A	876	876	N/A	N/A
SOUTHBOUND	147	N/A	495	495	N/A	N/A

EAST-WEST CRITICAL VOLUMES 641
 NORTH-SOUTH CRITICAL VOLUMES 1023

 THE SUM OF CRITICAL VOLUMES 1664
 NUMBER OF CRITICAL CLEARANCE INTERVALS 4*
 CMA VALUE 1.110
 LEVEL OF SERVICE F

 * Includes CMA value decreased due to ATCS Implementation.

File: I:\Crain Projects\Active Projects\Sierra Canyon High School\Data\Icap6\2007 Future Year Scenario\TotalwithRinald4-05rev.xls,
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CRAIN & ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 7, CHATSWORTH ST. & MASON AV.
DATE: 4/6/2005 INITIALS: LC PERIOD: PM PEAK HOUR
CASE: FUTURE (2007) W/PROJECT W/ TDM + MIT

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	10	36	0	21
EASTBOUND	126	38	15	154
NORTHBOUND	308	1047	17	0
SOUTHBOUND	12	601	9	63

** 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	1	0	2	0	4
NORTHBOUND	1	0	1	1	0	0	3
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	10	N/A	18	N/A	0	N/A
EASTBOUND	126	N/A	38	N/A	8	N/A
NORTHBOUND	308	N/A	532	532	N/A	N/A
SOUTHBOUND	12	N/A	300	N/A	9	N/A

EAST-WEST CRITICAL VOLUMES	144
NORTH-SOUTH CRITICAL VOLUMES	608

THE SUM OF CRITICAL VOLUMES	752
NUMBER OF CRITICAL CLEARANCE INTERVALS	2
CMA VALUE	0.501
LEVEL OF SERVICE	A

CRAIN & ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 8, DEVONSHIRE ST. & MASON AV.
DATE: 4/6/2005 INITIALS: LC PERIOD: PM PEAK HOUR
CASE: FUTURE (2007) WITH PROJECT WITH TDM

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS **	
			MIN ON GREEN	MAX ON RED
WESTBOUND	109	800	165	0
EASTBOUND	151	955	146	0
NORTHBOUND	150	1067	231	0
SOUTHBOUND	96	602	63	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	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	109	N/A	322	322	N/A	N/A
EASTBOUND	151	N/A	367	367	N/A	N/A
NORTHBOUND	150	N/A	649	649	N/A	N/A
SOUTHBOUND	96	N/A	332	332	N/A	N/A

EAST-WEST CRITICAL VOLUMES 476
 NORTH-SOUTH CRITICAL VOLUMES 745

 THE SUM OF CRITICAL VOLUMES 1221
 NUMBER OF CRITICAL CLEARANCE INTERVALS 2
 CMA VALUE 0.857
 LEVEL OF SERVICE D