UPTOWN, NORTH PARK AND GOLDEN HILL CPU

Traffic Impact Study



JUNE 2015 | DRAFT VERSION 3

Prepared By:



EXECUTIVE SUMMARY

This study, prepared by Kimley-Horn and Associates, Inc., evaluates the potential traffic-related impacts associated with the Uptown, North Park and Golden Hill Community Plan Updates (CPU). One preferred land use alternative was presented and analyzed as part of this study. The preferred land use alternative will be used to regulate and guide the strategic growth within the three communities. In addition to the land use alternative, a Mobility Element was prepared based on the existing roadway conditions, potential future transportation deficiencies and improvement recommendations based on an extensive input from the community stakeholders.

The analysis concluded that the land use for the **Uptown** community would have cumulative traffic related impact at the following locations:

Intersections

- Washington Street & Fourth Avenue
- Washington Street & Eighth Avenue/ SR-163 Off-Ramp
- Washington Street/ Normal Street & Campus Avenue/ Polk Avenue
- University Avenue & Sixth Avenue
- Elm Street & Sixth Avenue
- Cedar Street & Second Avenue

Segments

- First Avenue: Washington Street to University Avenue
- First Avenue: University Avenue to Robinson Avenue
- First Avenue: Robinson Avenue to Grape Street
- Fourth Avenue: Arbor Drive to Washington Street
- Fourth Avenue: Walnut Avenue to Laurel Street
- Fifth Avenue: Robinson Avenue to Walnut Avenue
- Sixth Avenue: Washington Street to University Avenue
- Sixth Avenue: University Avenue to Laurel Street
- Sixth Avenue: Laurel Street to Elm Street
- Ninth Avenue: Washington Street to University Avenue
- Campus Avenue/ Polk Avenue: Washington Street to Park Boulevard
- Cleveland Avenue: Tyler Street to Richmond Street
- Fort Stockton Drive: Sunset Boulevard to Goldfinch Street
- Grape Street: First Avenue to Third Avenue
- Grape Street: Third Avenue to Sixth Avenue
- Hawthorn Street: First Avenue to Third Avenue
- Hawthorn Street: Third Avenue to Sixth Avenue
- India Street: Washington Street to Winder Street
- India Street: Glenwood Drive to Sassafrass Street
- India Street: Sassafrass Street to Redwood Street
- Laurel Street: Columbia Street to Sixth Avenue
- Lincoln Avenue: Washington Street to Park Boulevard
- Park Boulevard: Mission Avenue to El Cajon Boulevard
- Park Boulevard: Robinson Avenue to Upas Street

- Richmond Street: Cleveland Avenue to Upas Street
- Robinson Avenue: First Avenue to Third Avenue
- Robinson Avenue: Third Avenue to Eighth Avenue
- San Diego Avenue: Hortensia Street to Pringle Street
- State Street: Laurel Street to Juniper Street
- University Avenue: Ibis Street to Fifth Avenue
- University Avenue: Sixth Avenue to Eighth Avenue
- University Avenue: Normal Street to Park Boulevard
- Washington Street: Fourth Avenue to Sixth Avenue
- Washington Street: Richmond Street to Normal Street

Freeway Mainline Segments

- I-5 NB: Old Town Avenue to Imperial Avenue
- I-5 SB: Old Town Avenue to Imperial Avenue
- I-8 WB: Hotel Circle (W) to SR-15
- I-8 EB: Hotel Circle (W) to SR-15
- SR-163 NB: I-8 to Robinson Avenue
- SR-163: SB: I-8 to I-5

Freeway Interchange Ramps

- Hancock St to I-5 SB
- Kettner Boulevard to I-5 SB
- Fifth Avenue to I-5 SB

Mitigation proposals for the impacted intersections and segments are provided in Chapter 5. In addition, it is noted that the following corridors would benefit from ITS technology:

- Sixth Avenue
- University Avenue
- Washington Street

The analysis concluded that the land use for the **North Park** community would have cumulative traffic related impact at the following locations:

Intersections

- Madison Avenue & Texas Street
- El Cajon Boulevard & 30th Street
- El Cajon Boulevard & I-805 SB Ramps
- University Avenue & 30th Street
- University Avenue & I-805 NB Ramps
- North Park Way/ I-805 SB Ramps & Boundary Street/33rd Street
- Upas Street & 30th Street (W)

Segments

- 30th Street: Meade Avenue to El Cajon Boulevard
- 30th Street: Howard Avenue to University Avenue
- 30th Street: North Park Way to Upas Street
- 30th Street: Upas Street to Juniper Street
- 32nd Street: University Avenue to Upas Street
- Adams Avenue: Texas Street to 30th Street
- Boundary Street: University Avenue to North Park Way
- El Cajon Boulevard: 30th Street to I-805 Ramps

- Florida Street: El Cajon Boulevard to Upas Street
- Howard Avenue: Texas Street to 32nd Street
- Madison Avenue: Texas Street to Ohio Street
- Meade Avenue: Park Boulevard to Iowa Street
- Redwood Street: 28th Street to 30th Street
- Texas Street: Adams Avenue to El Cajon Boulevard
- Texas Street: Howard Avenue to University Avenue
- University Avenue: Park Boulevard to Florida Street
- University Avenue: Texas Street to 32nd Street
- University Avenue: 32nd Street to Boundary Street
- Upas Street: Alabama Street to Pershing Road
- Upas Street: Pershing Road to 30th Street
- Utah Street: Howard Avenue to Lincoln Avenue
- Utah Street: North Park Way to Upas Street

Freeway Mainline Segments

- SR15 NB: I-805 to SR-94
- SR-15 SB: I-805 to SR-94
- I-805 NB: I-8 to SR-15
- I-805 SB: I-8 to SR-15
- SR-163 NB: I-8 to Robinson Avenue
- SR-163: SB: I-8 to I-5

Mitigation proposals for the impacted intersections and segments are provided in Chapter 5. In addition, it is noted that the following corridors would benefit from ITS technology:

- University Avenue
- El Cajon Boulevard

The analysis concluded that the land use for the **Golden Hill** community would have cumulative traffic related impact at the following locations:

Intersections

- B Street & 17th Street/ I-5 SB Off-Ramp
- SR-94 WB Ramps & Broadway
- SR-94 WB Ramp & 28th Street
- SR-94 EB Ramp & 28th Street
- F Street & 25th Street
- G Street & 25th Street

Seaments

- 25th Street: Broadway to F Street
- 28th Street: Russ Boulevard to SR-94
- 30th Street: Grape Street to SR-94
- B Street: 25th Street to 28th Street
- C Street: 30th Street to 34th Street
- Fern Street: Juniper Street to A Street
- Grape Street: 30th Street to 31st Street

Freeway Mainline Segments

SR-94 WB: 25th Street to SR-15
 SR-94 EB: 25th Street to SR-15

Mitigation proposals for the impacted intersections and segments are provided in Chapter 5.

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Appendix B Existing Intersection Geometrics

Appendix C Traffic Count Sheets

Appendix D Synchro Peak-Hour Intersection Analysis Sheets

Appendix E Ramp Meter Rates

Appendix F Post-Model Volume Adjustments

Appendix G Peak-Hour Volumes Forecast Worksheets

1 INTRODUCTION

The following traffic study has been prepared to determine and evaluate the traffic impacts associated with the Uptown, North Park and Golden Hill Community Plans Updates. This evaluation assesses the impacts of the proposed Land Use and Mobility Elements.

1.1 PROJECT DESCRIPTION

One preferred land use alternative was presented and analyzed as part of this study. The preferred land use alternative will be used to regulate and guide the strategic growth within the three communities. In addition to the land use alternative, a Mobility Element was prepared based on the existing roadway conditions, potential future transportation deficiencies and improvement recommendations based on an extensive input from the community stakeholders. **Figure 1-1** depicts the location of the Uptown, North Park, and Golden Hill Communities within the regional context. **Figure 1-2** shows the overall project boundary study area for the Community Plan Update and each individual community boundary. **Tables 1-1 through 1-7** show the trip generation comparison for base year 2008, adopted community plan, and proposed Land Use plan for each of the communities. **Figures 1-3, 1-4 and 1-5** illustrate the proposed Land Use for each community.

1.2 ANALYSIS SCENARIOS

A total of two scenarios were analyzed as part of the project, which are listed below:

Existing Conditions

1) Existing Conditions: Represents the traffic conditions of the existing street network.

Future Year Conditions

2) Future Year Conditions: Represents the traffic conditions of the street network assumed to be in place under Buildout conditions with the implementation of the land use changes per the Land Use Element of each plan.

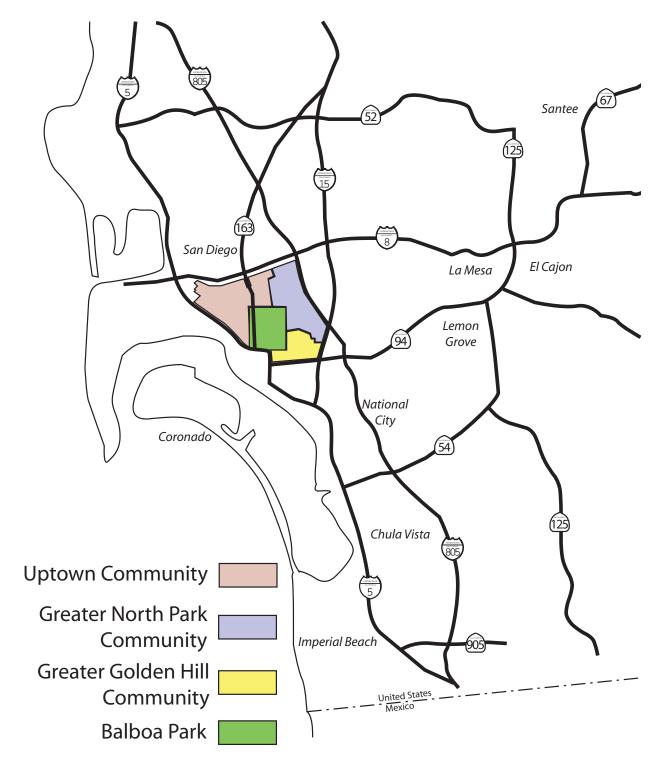


FIGURE 1-2

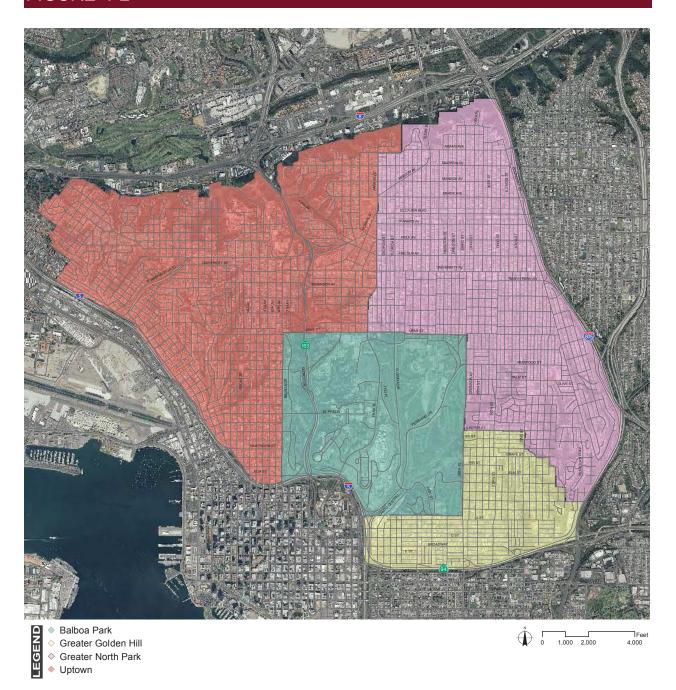


Table 1-1 Trip Generation Comparison: Uptown

Lond Hoo	2008 A				Adopte	d	Proposed		
Land Use	Amou	nt	Vehicle	Amo	unt	Vehicle	Amou	nt	Vehicle
ACTIVE PARK (AC)	27.7	acre	1382	27.7	acre	1381	47.7	acre	2378
ARTERIAL COMMERCIAL	869.6	ksf	34620	791.2	ksf	31499	752.5	ksf	29954
AUTO DEALERSHIP (KSF)	6.9	ksf	346	0	ksf	0	0	ksf	0
AUTO RENTAL SERV (LS-KSF)	4.5	ls-ksf	57	0	ls-ksf	0	0	ls-ksf	0
AUTO REPAIR (KSF)	48.7	ksf	1007	12.5	ksf	257	12.5	ksf	257
Carwash (F service-site)	1.0	site	922	0	site	0	0	site	0
CHURCH (NO DAY-CARE KSF)	345.4	ksf	1724	343.1	ksf	1712	343.1	ksf	1712
CHURCH (W/DAY-CARE KSF)	114.3	ksf	1713	80.5	ksf	1207	80.5	ksf	1207
CHURCH (W/O DAYCARE-AC)	1.0	acre	32	1	acre	30	1	acre	30
COMMUNICATION OR UTILITY	3.0	ksf	8	2.9	ksf	7	2.9	ksf	7
COMMUNITY COMMERCIAL (KSF)	107.6	ksf	7513	1828.6	ksf	127713	1833.9	ksf	128093
CONVALESCENT/NURSING (BED)	23.0	bed	67	23	bed	67	23	bed	67
CONVALESCENT/NURSING(BED)	105.0	bed	304	104	bed	301	104	bed	301
CORPORATE HEADQTRS/SING(KSF)	19.9	ksf	199	0	ksf	0	0	ksf	0
DAY CARE/PRE-SCHOOL (STU)	70.0	stu	352	0	stu	0	0	stu	0
DMV (KSF)	15.5	ksf	2678	15.5	ksf	2678	15.5	ksf	2678
DRINKING PLACE (KSF)	20.3	ksf	2646	5.8	ksf	758	5.8	ksf	758
DRUG STORE (KSF)	58.7	ksf	5288	58.7	ksf	5288	58.7	ksf	5288
ELEMENTARY SCHOOL (STU)	2519.0	stu	7319	3062	stu	8897	3062	stu	8897
FINAN INST(W/O-DR/THR-KSF)	24.0	ksf	3392	24	ksf	3392	24	ksf	3392
FINANCIAL INST(W DR/THR-KSF)	49.0	ksf	9252	49	ksf	9252	49	ksf	9252
FIRE OR POLICE STATION	3.0	site	684	3	site	684	3	site	684
FURNITURE STORE (KSF)	56.5	ksf	340	8.1	ksf	49	8.1	ksf	49
GAS STA W MART/CARWASH(PUMP)	12.0	pump	1856	12	pump	1856	12	pump	1856

Table 1-2 Trip Generation Comparison: Uptown (cont.)

Landillan		2008			Adopte	d	Proposed			
Land Use	Amount		Vehicle	Amo	unt	Vehicle	Amou	nt	Vehicle	
GAS STATION W FMART (PUMP)	52.0	pump	7782	52	pump	7782	52	pump	7782	
GOV'T OFFICE/CENTER(KSF)	11.1	ksf	341	0	ksf	0	0	ksf	0	
HIGH RISE OFFICE (KSF)	140.8	ksf	2255	140.8	ksf	2255	140.8	ksf	2255	
HIGH-RISE HOTEL (ROOM)	74.0	room	739	74	room	739	74	room	739	
HOSPITAL-GENERAL (KSF)	499.5	ksf	10308	499.5	ksf	10308	499.5	ksf	10308	
INACTIVE USE	438.9	0	0	413.5	0	0	408.5	0	0	
LIBRARY (KSF)	4.5	ksf	226	4.5	ksf	226	4.5	ksf	226	
LIGHT INDUSTRY (KSF)	1.2	ksf	18	0	ksf	0	0	ksf	0	
LOW-RISE HOTEL/MOTEL-ROOM	795.0	room	7145	146	room	1313	146	room	1313	
LR OFFICE (10.1k-20k-KSF)	439.6	ksf	11741	398.1	ksf	11535	398.1	ksf	10633	
LR OFFICE (20.1k-35k-KSF)	321.7	ksf	7431	321.7	ksf	7431	321.7	ksf	7431	
LR OFFICE (35.1K-75K KSF)	158.3	ksf	3291	158.3	ksf	3291	158.3	ksf	3291	
LR OFFICE (50.1k-75k-KSF)	163.8	ksf	3102	111.8	ksf	2117	111.8	ksf	2117	
LR OFFICE (5K-10K KSF)	383.9	ksf	12142	123.1	ksf	3715	93.1	ksf	2944	
LR OFFICE (U 5K KSF)	474.3	ksf	18513	96.4	ksf	3715	90.1	ksf	3517	
MARKET OPEN 16HR/DAY (KSF)	5.6	ksf	2811	5.6	ksf	2811	5.6	ksf	2811	
MARKET OPEN 24HR/DAY (KSF)	4.8	ksf	3360	4.8	ksf	3360	4.8	ksf	3360	
MEDICAL OFFICE (KSF)	206.8	ksf	10661	236.1	ksf	12178	294.1	ksf	14911	
MONASTERY (ksf)	3.6	ksf	5	0	ksf	0	0	ksf	0	
MOVIE THEATER (KSF)	15.6	ksf	1218	15.6	ksf	1218	15.6	ksf	1218	
MULTI-FAMILY (O 20DU/AC)	14329.0	du	86510	28504	du	172097	26379	du	159265	
MULTI-FAMILY (U 20DU/AC)	549.0	du	4392	466	du	3728	473	du	3784	
NEIGHBORHOOD COMM (KSF)	65.4	ksf	7838	39.4	ksf	4718	39.4	ksf	4718	
NURSERY (KSF)	5.3	ksf	211	4.5	ksf	178	4.5	ksf	178	
OTHER CHILD SCHOOL(KSF)	13.4	ksf	519	13.4	ksf	519	13.4	ksf	519	

Table 1-3 Trip Generation Comparison: Uptown (cont.)

Loud Hee		2008			Adopte	ed	P	ropose	t
Land Use	Amou	nt	Vehicle	Amo	unt	Vehicle	Amount		Vehicle
OTHER GROUP QUARTERS	4.3	acre	13	1	acre	3	1	acre	3
OTHER GROUP QUARTERS (DU)	1.0	du	4	0	du	0	0	du	0
OTHER HEALTH CARE (KSF)	603.3	ksf	30192	541.7	ksf	27109	541.7	ksf	27109
OTHER PUBLIC SERVICE	0.7	ksf	208	0	ksf	0	0	ksf	0
OTHER RECREATION-LOW	2.9	ksf	13	2.4	ksf	11	0	ksf	0
OTHER RETAIL COMM. (KSF)	52.5	ksf	2090	8.2	ksf	326	8.2	ksf	326
OTHER SCHOOL (STU)	125.0	stu	361	125	stu	361	125	stu	361
OTHER UNIV./COLLEGE (KSF)	850.0	ksf	1382	0	ksf	0	0	ksf	0
PARKING	28.5	acre	0	9.3	acre	0	3.4	acre	0
POST OFFICE W/MAIL DROP(KSF)	15.9	ksf	4783	15.9	ksf	4783	15.9	ksf	4783
RBALL/TENNIS/HEALTH(KSF)	18.0	ksf	703	18	ksf	703	18	ksf	703
RESTAURANT (FAST-FOOD KSF)	22.2	ksf	15627	22.2	ksf	15627	22.2	ksf	15627
RESTAURANT (SIT-DOWN KSF)	127.8	ksf	16644	103.7	ksf	13506	103.7	ksf	13506
RESTUARANT (QUALITY-KSF)	195.7	ksf	19593	183.1	ksf	18337	168.1	ksf	16837
RETIREMENT/SENIOR HOME (DU)	0.0	du	0	84	du	336	84	du	336
RETIREMENT/SENIOR HOME(DU)	140.0	du	560	154	du	616	154	du	616
RIGHT-OF-WAY	756.9	ksf	0	732.1	ksf	0	740	ksf	0
SCHOOL DISTRICT OFF (ksf)	139.9	ksf	4387	139.9	ksf	4387	139.9	ksf	4387
SINGLE FAMILY (DETACHED)	4762.0	du	42536	4252	du	37981	4284	du	38264
SINGLE-MULTI UNIT	2770.0	du	22039	1286	du	10234	1155	du	9193
SPECIALTY COMMERCIAL(KSF)	46.5	ksf	1822	2.5	ksf	100	19	ksf	1656
SPORT FACILITY-IN (AC)	0.2	acre	7	0	acre	0	0	acre	0
SUPERMARKET (KSF)	63.8	ksf	9597	19.3	ksf	2905	19.3	ksf	2905
UCSD Hospital (ksf)	183.9	ksf	3659	183.9	ksf	3659	368	ksf	7320
UNDER CONTRUCTION	2.4	acre	11	0	acre	0	0	acre	0
WAREHOUSING (KSF)	18.5	ksf	93	0	ksf	0	0	ksf	0
Grand Total			462584			593246			584112

Table 1-4 Trip Generation Comparison: North Park

Name		2008			•	Adopted		Proposed			
ACTIVE PARK (AC) ARTERIAL COMMERCIAL (KSF) 1163.9 Ksf 46126 608.3 Ksf 24213 608.3 Ksf 24213 AUTO DEALERSHIP (KSF) 32.3 Ksf 1621 0.6 Ksf 30 0.6 Ksf 30 0.6 Ksf 30 AUTO PART SALE (KSF) 118.7 Ksf 1198 0 Ksf 0 0 Ksf 0 0 Ksf 0 0 Ksf 0 AUTO REATLA SERV (LS-KSF) 2.8 Is-ksf 36 0 Is-ksf 0 0 Is-ksf 0 AUTO REATLA SERV (LS-KSF) 2.8 Is-ksf 36 0 Is-ksf 0 0 Is-ksf 0 AUTO REATLA SERV (LS-KSF) 2.8 Ksf 1703 14.4 Ksf 296 14.4 Ksf 296 CAR-WASH (SELF-WASH STALL) 8 Stalls 797 0 Stalls 0 0 Ksf 0 CHURCH (NO DAY-CARE KSF) 358.2 Ksf 1791 358	Land Use	Δm		Vehicle	Δm	•	Vehicle		•	Vehicle	
ARTERIAL COMMERCIAL 1163.9 ksf 46126 608.3 ksf 24213 608.3 ksf 24213 AUTO DEALERSHIP (KSF) 32.3 ksf 1621 0.6 ksf 30 0.6 ksf 30 0.6 ksf 30 AUTO PART SALE (KSF) 18.7 ksf 1198 0 ksf 0 0 ksf 0 0 ksf 0 0 ksf 0 0 AUTO RENTALE (KSF) 2.8 ls-ksf 36 0 ls-ksf 0 0 ksf 0 0 ksf 0 0 AUTO REPAIR (KSF) 82.6 ksf 1703 14.4 ksf 296 14.4 ksf	VCTIVE DVBK (VC)										
KSF 1163.9 ksf 46126 608.3 ksf 24213 608.3 ksf 24213 AUTO DEALERSHIP (KSF) 32.3 ksf 1621 0.6 ksf 30 0.6 ksf 30 AUTO PART SALE (KSF) 18.7 ksf 1198 0 ksf 0 0 ksf 0 0 ksf 0 AUTO PART SALE (KSF) 2.8 ls.ksf 36 0 ls.ksf 0 0 ls.ksf 0 0 ksf 0 AUTO REPAIR (KSF) 2.8 ls.ksf 36 0 ls.ksf 0 0 ls.ksf 0 0 ksf 296 AUTO REPAIR (KSF) 82.6 ksf 1703 14.4 ksf 296 14.4 ksf 296 CAR-WASH (SELF-WASH 8 stalls 797 0 stalls 0 0 stalls 0 0 ksf 0 0 0 ksf 0 0 0 ksf	` '	15.5	acre	7/3	15.5	acre	7/3	10	acre	798	
AUTO PART SALE (KSF)		1163.9	ksf	46126	608.3	ksf	24213	608.3	ksf	24213	
AUTO RENTAL SERV (LS-KSF)	AUTO DEALERSHIP (KSF)	32.3	ksf	1621	0.6	ksf	30	0.6	ksf	30	
AUTO REPAIR (KSF)	AUTO PART SALE (KSF)	18.7	ksf	1198	0	ksf	0	0	ksf	0	
CAR-WASH (SELF-WASH STALL) 8 stalls 797 0 stalls 0 0 stalls 0 CASINO (ksf) 0.3 ksf 3 0 ksf 0 0 ksf 0 CHURCH (NO DAY-CARE KSF) 358.2 ksf 1791 358.2 ksf 1891 33 1 ksf 33 1 ksf 48276 20.3 ksf 2870 20.3 ksf 482876 20.7 20.7	AUTO RENTAL SERV (LS-KSF)	2.8	ls-ksf	36	0	ls-ksf	0	0	ls-ksf	0	
STALLL) 8 stalls 797 0 stalls 0 0 stalls 0 CASINO (ksf) 0.3 ksf 3 0 ksf 0 0 ksf 0 CHURCH (NO DAY-CARE KSF) 358.2 ksf 1791 358.2 ksf 183 12 20 20.3 ksf 2870 20.3 ksf 2870 20.3 ksf 2870 20.3 ksf 2870 250 stu	AUTO REPAIR (KSF)	82.6	ksf	1703	14.4	ksf	296	14.4	ksf	296	
CASINO (ksf) 0.3 ksf 3 0 ksf 0 0 0 ksf 0 CHURCH (NO DAY-CARE KSF) 358.2 ksf 1791	CAR-WASH (SELF-WASH										
CHURCH (NO DAY-CARE KSF) 358.2 ksf 1791 358.2 ksf 1791 358.2 ksf 1791 CLINIC (KSF) 0 0 ksf 0 1 ksf 33 1 ksf 33 COMMUNICATION OR UTILITY 1 acre 3 1 acre 2 1 acre 2 COMMUNITY COMMERCIAL (KSF) 12.6 ksf 879 637.5 ksf 44531 613.8 ksf 42876 CONVALESCENT/NURSING (BED) 12 bed 35 12 bed 35 DAY CARE/PRE-SCHOOL (STU) 250 stu 1259 250 stu 1259 DRINKING PLACE (KSF) 29.6 ksf 3838 10.7 ksf 1384 10.7 ksf 1384 DRUG STORE (KSF) 37.7 ksf 3397 37.7 ksf 3397 37.7 ksf 3397 ELEMENTARY SCHOOL (STU) 1282 stu 3725 1897 stu 5512 1897 stu 5512 FINAN INST(W/O-DR/THR-KSF) 20.3 ksf 2870 20.3 ksf 2870 20.3 ksf 2870 FINENCIAL INST(W DR/THR-KSF) 11.7 ksf 2207 11.7 ksf 2207 FIRE OR POLICE STATION 0 site 0 1 site 228 1 site 228 FURNITURE STORE (KSF) 47.1 ksf 283 2 ksf 12 2 ksf 12 GAS STATION W FMART (PUMP) 56 pump 8379 56 pump 8379 56 pump 8379 GOV'T OFFICE/CENTER(KSF) 15.5 ksf 475 0 ksf 0 0 ksf 0 HOSPITAL-GENERAL (KSF) 75.7 ksf 1562 75.7 ksf 1562 INACTIVE USE 175.3 acre 0 167.6 acre 0 165.4 acre 0 LIBRARY (KSF) 17.4 ksf 263 0 ksf 939 18.8 ksf 939 LIGHT INDUSTRY (KSF) 17.4 ksf 263 0 ksf 0 0 ksf 0 1 LOW-RISE HOTEL-(MOTEL-ROOM 217 room 1950 205 room 1842 205 room 1842 LR OFFICE (20.1k-35k-KSF) 97.2 ksf 2598 97.2 ksf 2598 83.6 ksf 2234 LR OFFICE (20.1k-35k-KSF) 97.2 ksf 2598 97.2 ksf 2598 83.6 ksf 2234 LR OFFICE (20.1k-35k-KSF) 97.2 ksf 2598 97.2 ksf 2598 83.6 ksf 2234	STALL)	8	stalls	797	0	stalls	0	0	stalls	0	
CLINIC (RSF) 0 ksf 0 1 ksf 33 1 ksf 33 COMMUNICATION OR UTILITY 1 acre 3 1 acre 2 1 acre 2 COMMUNITY COMMERCIAL (KSF) 12.6 ksf 879 637.5 ksf 44531 613.8 ksf 42876 CONVALESCENT/NURSING (BED) 12 bed 35 12 bed 35 12 bed 35 DAY CARE/PRE-SCHOOL (STU) 250 stu 1259 250 stu 1259 250 stu 1259 DRINKING PLACE (KSF) 29.6 ksf 3838 10.7 ksf 1384 10.7 ksf 1384 DRUG STORE (KSF) 37.7 ksf 3397 37.7 ksf 3397 37.7 ksf 1384 10.7 ksf 1384 DRUG STORE (KSF) 37.7 ksf 3397 37.7 ksf 3397 37.7 ksf 3397 <td< td=""><td>CASINO (ksf)</td><td>0.3</td><td>ksf</td><td>3</td><td>0</td><td>ksf</td><td>0</td><td>0</td><td>ksf</td><td>0</td></td<>	CASINO (ksf)	0.3	ksf	3	0	ksf	0	0	ksf	0	
COMMUNICATION OR UTILITY	CHURCH (NO DAY-CARE KSF)	358.2	ksf	1791	358.2	ksf	1791	358.2	ksf	1791	
UTILITY 1 acre 3 1 acre 2 1 acre 2 COMMUNITY COMMERCIAL (KSF) 12.6 ksf 879 637.5 ksf 44531 613.8 ksf 42876 CONVALESCENT/NURSING (BED) 12 bed 35 12 bed 35 12 bed 35 DAY CARE/PRE-SCHOOL (STU) 1250 stu 1259 250 stu 1259 250 stu 1259 DRINKING PLACE (KSF) 29.6 ksf 3838 10.7 ksf 1384 10.7 ksf 1384 DRUG STORE (KSF) 37.7 ksf 3397 37.7 ksf 3397 37.7 ksf 3397 37.7 ksf 3397 ELEMENTARY SCHOOL (STU) 1282 stu 3725 1897 stu 5512 1897 stu 5512 FINAN INST(W/O-DR/THR-KSF) KSF) 11.7 ksf 2207 11.7 ksf 2207 11.7 ksf 2207 11.7 ksf 2207 FIRE OR POLICE STATION 0 site 0 1 site 228 1 site 228 FURNITURE STORE (KSF) 47.1 ksf 283 2 ksf 12 2 ksf 12 GAS STATION W FMART (PUMP) 56 pump 8379 56 pump 8379 56 pump 8379 GOV'T OFFICE/CENTER(KSF) 15.5 ksf 475 0 ksf 0 0 ksf 0 HIGH RISE OFFICE (KSF) 15.5 ksf 475 0 ksf 0 0 ksf 0 HOSPITAL-GENERAL (KSF) 17.3 acre 2 0 167.6 acre 0 165.4 acre 0 LIBRARY (KSF) 18.8 ksf 939 18.8 ksf 939 18.8 ksf 939 LIGHT INDUSTRY (KSF) 17.4 ksf 2598 97.2 ksf 2598 83.6 ksf 2234 LR OFFICE (20.1k-35k-KSF) 97.2 ksf 2598 97.2 ksf 582 25.2 ksf 582	CLINIC (KSF)	0	ksf	0	1	ksf	33	1	ksf	33	
COMMUNITY COMMERCIAL (KSF)											
(KSF) 12.6 ksf 879 637.5 ksf 44531 613.8 ksf 42876 CONVALESCENT/NURSING (BED) 12 bed 35 12 bed 35 DAY CARE/PRE-SCHOOL (STU) 250 stu 1259 250 <t< td=""><td>-</td><td>1</td><td>acre</td><td>3</td><td>1</td><td>acre</td><td>2</td><td>1</td><td>acre</td><td>2</td></t<>	-	1	acre	3	1	acre	2	1	acre	2	
CONVALESCENT/NURSING (BED) 12 bed 35 12 bed 35 12 bed 35 DAY CARE/PRE-SCHOOL (STU) 250 stu 1259 250 stu 1259 250 stu 1259 250 stu 1259 DRINKING PLACE (KSF) 29.6 ksf 3838 10.7 ksf 1384 10.7 ksf 1384 DRUG STORE (KSF) 37.7 ksf 3397 Stu 5512 1897 stu 5512 18		12.6	ksf	879	637 5	ksf	44531	613 R	ksf	42876	
(BED) 12 bed 35 12 bed 35 12 bed 35 DAY CARE/PRE-SCHOOL (STU) 250 stu 1259 250 stu 1259 250 stu 1259 DRINKING PLACE (KSF) 29.6 ksf 3838 10.7 ksf 1384 10.7 ksf 1384 DRUG STORE (KSF) 37.7 ksf 3397 37.7 ksf 3397 37.7 ksf 3397 ELEMENTARY SCHOOL (STU) 1282 stu 3725 1897 stu 5512 1897 stu 5512 FINAN INST(W/O-DR/THR-KSF) 20.3 ksf 2870 20.3 ksf 2870 20.3 ksf 2870 FINANCIAL INST(W DR/THR-KSF) 11.7 ksf 2207 11.7 ksf	1 - 7	12.0	KSI	873	037.3	KSI	44331	013.8	KSI	42870	
STU 250 Stu 1259 DRINKING PLACE (KSF) 29.6 ksf 3838 10.7 ksf 1384 10.7 ksf 1384 DRUG STORE (KSF) 37.7 ksf 3397 Stu 5512 Stu Stu 5512 Stu Stu 5512	•	12	bed	35	12	bed	35	12	bed	35	
DRINKING PLACE (KSF) 29.6 ksf 3838 10.7 ksf 1384 10.7 ksf 1384 DRUG STORE (KSF) 37.7 ksf 3397 37.7 ksf 3397 37.7 ksf 3397 ELEMENTARY SCHOOL (STU) 1282 stu 3725 1897 stu 5512 1897 stu 5512 FINAN INST(W/O-DR/THR-KSF) 20.3 ksf 2870 20.3 ksf 2870 20.3 ksf 2870 FINANCIAL INST(W DR/THR-KSF) 11.7 ksf 2207 11.7 ksf 2207 11.7 ksf 2207 FIRE OR POLICE STATION 0 site 0 1 site 228 1 site 228 FURNITURE STORE (KSF) 47.1 ksf 283 2 ksf 12 2 ksf 12 GAS STATION W FMART (PUMP) 56 pump 8379 56 pump 8379 56 pump 8379 56 pump	DAY CARE/PRE-SCHOOL										
DRUG STORE (KSF) 37.7 ksf 3397 37.7 ksf 3397 ELEMENTARY SCHOOL (STU) 1282 stu 3725 1897 stu 5512 1897 stu 5512 FINAN INST(W/O-DR/THR-KSF) 20.3 ksf 2870 20.3 ksf 2870 20.3 ksf 2870 FINANCIAL INST(W DR/THR-KSF) 11.7 ksf 2207 11.7 ksf 2207 11.7 ksf 2207 FIRE OR POLICE STATION 0 site 0 1 site 228 1 site 228 FURNITURE STORE (KSF) 47.1 ksf 283 2 ksf 12 2 ksf 12 GAS STATION W FMART (PUMP) 56 pump 8379 56 pump </td <td>(STU)</td> <td>250</td> <td>stu</td> <td>1259</td> <td>250</td> <td>stu</td> <td>1259</td> <td>250</td> <td>stu</td> <td>1259</td>	(STU)	250	stu	1259	250	stu	1259	250	stu	1259	
ELEMENTARY SCHOOL (STU) 1282 stu 3725 1897 stu 5512 1897 stu 5512 FINAN INST(W/O-DR/THR-KSF) 20.3 ksf 2870 20.3 ksf 2870 20.3 ksf 2870 20.3 ksf 2870 FINANCIAL INST(W DR/THR-KSF) 11.7 ksf 2207 11.7 ksf 2207 11.7 ksf 2207 FIRE OR POLICE STATION 0 site 0 1 site 228 1 site 228 FURNITURE STORE (KSF) 47.1 ksf 283 2 ksf 12 2 ksf 12 GAS STATION W FMART (PUMP) 56 pump 8379 56	DRINKING PLACE (KSF)	29.6	ksf	3838	10.7	ksf	1384	10.7	ksf	1384	
FINAN INST(W/O-DR/THR-KSF) 20.3 ksf 2870 20.3 ksf 2870 20.3 ksf 2870 20.3 ksf 2870 FINANCIAL INST(W DR/THR-KSF) 11.7 ksf 2207 11.7 ksf 2207 11.7 ksf 2207 11.7 ksf 2207 FIRE OR POLICE STATION 0 site 0 1 site 228 1 site 228 FURNITURE STORE (KSF) 47.1 ksf 283 2 ksf 12 2 ksf 12 GAS STATION W FMART (PUMP) 56 pump 8379 56	DRUG STORE (KSF)	37.7	ksf	3397	37.7	ksf	3397	37.7	ksf	3397	
KSF) 20.3 ksf 2870 20.3 ksf 2870 20.3 ksf 2870 FINANCIAL INST(W DR/THR-KSF) 11.7 ksf 2207 11.7 ksf 2207 FIRE OR POLICE STATION 0 site 0 1 site 228 1 site 228 FURNITURE STORE (KSF) 47.1 ksf 283 2 ksf 12 2 ksf 12 GAS STATION W FMART (PUMP) 56 pump 8379 56 pump 8379 56 pump 8379 GOV'T OFFICE/CENTER(KSF) 15.5 ksf 475 0 ksf 0 0 ksf 0 HIGH RISE OFFICE (KSF) 2.8 ksf 45 0 ksf 0 0 ksf 0 HOSPITAL-GENERAL (KSF) 75.7 ksf 1562 75.7 ksf 1562 75.7 ksf 1562 INACTIVE USE 175.3 acre 0 167.6 <td< td=""><td>ELEMENTARY SCHOOL (STU)</td><td>1282</td><td>stu</td><td>3725</td><td>1897</td><td>stu</td><td>5512</td><td>1897</td><td>stu</td><td>5512</td></td<>	ELEMENTARY SCHOOL (STU)	1282	stu	3725	1897	stu	5512	1897	stu	5512	
FINANCIAL INST(W DR/THR-KSF)	, , , ,										
KSF 11.7	,	20.3	ksf	2870	20.3	ksf	2870	20.3	ksf	2870	
FIRE OR POLICE STATION 0 site 0 1 site 228 1 site 228 FURNITURE STORE (KSF) 47.1 ksf 283 2 ksf 12 2 ksf 12 GAS STATION W FMART (PUMP) 56 pump 8379 56 pump 8379 56 pump 8379 GOV'T OFFICE/CENTER(KSF) 15.5 ksf 475 0 ksf 0 0 ksf 0 HIGH RISE OFFICE (KSF) 2.8 ksf 45 0 ksf 0 0 ksf 0 HOSPITAL-GENERAL (KSF) 75.7 ksf 1562 75.7 ksf 1562 75.7 ksf 1562 INACTIVE USE 175.3 acre 0 167.6 acre 0 165.4 acre 0 LIBRARY (KSF) 18.8 ksf 939 18.8 ksf 939 18.8 ksf 939 LIGHT INDUSTRY (KSF) 17.4 ksf 263 0 ksf 0 0 ksf 0 LOW-RISE HOTEL/MOTEL-ROOM 217 room 1950 205 room 1842 205 room 1842 LR OFFICE (10.1k-20k-KSF) 97.2 ksf 2598 97.2 ksf 2598 83.6 ksf 2234 LR OFFICE (20.1k-35k-KSF) 25.2 ksf 582 25.2 ksf 582		11 7	link	2207	11 7	l.af	2207	11 7	last	2207	
FURNITURE STORE (KSF)	· ·										
GAS STATION W FMART (PUMP) 56 pump 8379 56 pump 8379 56 pump 8379 GOV'T OFFICE/CENTER(KSF) 15.5 ksf 475 0 ksf 0 0 ksf 0 HIGH RISE OFFICE (KSF) 2.8 ksf 45 0 ksf 0 0 ksf 0 HOSPITAL-GENERAL (KSF) 75.7 ksf 1562 75.7 ksf 1562 INACTIVE USE 175.3 acre 0 167.6 acre 0 165.4 acre 0 LIBRARY (KSF) 18.8 ksf 939 18.8 ksf 939 18.8 ksf 939 LIGHT INDUSTRY (KSF) 17.4 ksf 263 0 ksf 0 0 ksf 0 LOW-RISE HOTEL/MOTEL-ROOM 217 room 1950 205 room 1842 205 room 1842 LR OFFICE (10.1k-20k-KSF) 97.2 ksf 2598 97.2 ksf 2598 83.6 ksf 2234 LR OFFICE (20.1k-35k-KSF) 25.2 ksf 582 25.2 ksf 582											
(PUMP) 56 pump 8379 56 pump 8379 56 pump 8379 56 pump 8379 GOV'T OFFICE/CENTER(KSF) 15.5 ksf 475 0 ksf 0 0 ksf 0 HIGH RISE OFFICE (KSF) 2.8 ksf 45 0 ksf 0 0 ksf 0 HOSPITAL-GENERAL (KSF) 75.7 ksf 1562 75.7 ksf 1562 75.7 ksf 1562 INACTIVE USE 175.3 acre 0 167.6 acre 0 165.4 acre 0 LIBRARY (KSF) 18.8 ksf 939 18.8 ksf 939 18.8 ksf 939 LIGHT INDUSTRY (KSF) 17.4 ksf 263 0 ksf 0 0 ksf 0 LOW-RISE HOTEL/MOTEL-ROOM 217 room 1950 205 room 1842 205 room 1842 LR OFFICE	. ,	47.1	ksf	283	2	ksf	12	2	ksf	12	
GOV'T OFFICE/CENTER(KSF) 15.5 ksf 475 0 ksf 0 0 ksf 0 HIGH RISE OFFICE (KSF) 2.8 ksf 45 0 ksf 0 0 ksf 0 HOSPITAL-GENERAL (KSF) 75.7 ksf 1562 75.7 ksf 1562 INACTIVE USE 175.3 acre 0 167.6 acre 0 165.4 acre 0 LIBRARY (KSF) 18.8 ksf 939 18.8 ksf 939 18.8 ksf 939 LIGHT INDUSTRY (KSF) 17.4 ksf 263 0 ksf 0 0 ksf 0 LOW-RISE HOTEL/MOTEL-ROOM 217 room 1950 205 room 1842 205 room 1842 LR OFFICE (10.1k-20k-KSF) 97.2 ksf 2598 97.2 ksf 2598 83.6 ksf 2234 LR OFFICE (20.1k-35k-KSF) 25.2 ksf 582 25.2 ksf 582		56	pump	8379	56	pump	8379	56	pump	8379	
HIGH RISE OFFICE (KSF) 2.8 ksf 45 0 ksf 0 0 ksf 0 HOSPITAL-GENERAL (KSF) 75.7 ksf 1562 75.7 ksf 1562 75.7 ksf 1562 INACTIVE USE 175.3 acre 0 167.6 acre 0 165.4 acre 0 LIBRARY (KSF) 18.8 ksf 939 18.8 ksf 939 18.8 ksf 939 LIGHT INDUSTRY (KSF) 17.4 ksf 263 0 ksf 0 0 ksf 0 LOW-RISE HOTEL/MOTEL-ROOM 217 room 1950 205 room 1842 205 room 1842 LR OFFICE (10.1k-20k-KSF) 97.2 ksf 2598 97.2 ksf 2598 83.6 ksf 2234 LR OFFICE (20.1k-35k-KSF) 25.2 ksf 582 25.2 ksf 582 25.2 ksf 582											
HOSPITAL-GENERAL (KSF) 75.7 ksf 1562 75.7 ksf 1562 75.7 ksf 1562 INACTIVE USE 175.3 acre 0 167.6 acre 0 165.4 acre 0 LIBRARY (KSF) 18.8 ksf 939 18.8 ksf 939 18.8 ksf 939 LIGHT INDUSTRY (KSF) 17.4 ksf 263 0 ksf 0 0 ksf 0 LOW-RISE HOTEL/MOTEL-ROOM 217 room 1950 205 room 1842 205 room 1842 LR OFFICE (10.1k-20k-KSF) 97.2 ksf 2598 97.2 ksf 2598 83.6 ksf 2234 LR OFFICE (20.1k-35k-KSF) 25.2 ksf 582 25.2 ksf 582	GOV'T OFFICE/CENTER(KSF)	15.5	ksf	475	0	ksf	0	0	ksf	0	
INACTIVE USE	HIGH RISE OFFICE (KSF)	2.8	ksf	45	0	ksf	0	0	ksf	0	
LIBRARY (KSF) 18.8 ksf 939 18.8 ksf 939 18.8 ksf 939 LIGHT INDUSTRY (KSF) 17.4 ksf 263 0 ksf 0 0 ksf 0 LOW-RISE HOTEL/MOTEL-ROOM 217 room 1950 205 room 1842 205 room 1842 LR OFFICE (10.1k-20k-KSF) 97.2 ksf 2598 97.2 ksf 2598 83.6 ksf 2234 LR OFFICE (20.1k-35k-KSF) 25.2 ksf 582 25.2 ksf 582 25.2 ksf 582	HOSPITAL-GENERAL (KSF)	75.7	ksf	1562	75.7	ksf	1562	75.7	ksf	1562	
LIGHT INDUSTRY (KSF) 17.4 ksf 263 0 ksf 0 0 ksf 0 LOW-RISE HOTEL/MOTEL-ROOM 217 room 1950 205 room 1842 205 room 1842 LR OFFICE (10.1k-20k-KSF) 97.2 ksf 2598 97.2 ksf 2598 83.6 ksf 2234 LR OFFICE (20.1k-35k-KSF) 25.2 ksf 582 25.2 ksf 582 25.2 ksf 582	INACTIVE USE	175.3	acre	0	167.6	acre	0	165.4	acre	0	
LOW-RISE HOTEL/MOTEL- ROOM 217 room 1950 205 room 1842 205 room 1842 LR OFFICE (10.1k-20k-KSF) 97.2 ksf 2598 97.2 ksf 2598 83.6 ksf 2234 LR OFFICE (20.1k-35k-KSF) 25.2 ksf 582 25.2 ksf 582 25.2 ksf 582	LIBRARY (KSF)	18.8	ksf	939	18.8	ksf	939	18.8	ksf	939	
ROOM 217 room 1950 205 room 1842 205 room 1842 LR OFFICE (10.1k-20k-KSF) 97.2 ksf 2598 97.2 ksf 2598 83.6 ksf 2234 LR OFFICE (20.1k-35k-KSF) 25.2 ksf 582 25.2 ksf 582 25.2 ksf 582	LIGHT INDUSTRY (KSF)	17.4	ksf	263	0	ksf	0	0	ksf	0	
LR OFFICE (10.1k-20k-KSF) 97.2 ksf 2598 97.2 ksf 2598 83.6 ksf 2234 LR OFFICE (20.1k-35k-KSF) 25.2 ksf 582 25.2 ksf 582 25.2 ksf 582	•										
LR OFFICE (20.1k-35k-KSF) 25.2 ksf 582 25.2 ksf 582 25.2 ksf 582	ROOM	217	room	1950	205	room	1842	205	room	1842	
	LR OFFICE (10.1k-20k-KSF)	97.2	ksf	2598	97.2	ksf	2598	83.6	ksf	2234	
IR OFFICE (35 1K-75K KSF) 44.6 kef 927 44.6 kef 927	LR OFFICE (20.1k-35k-KSF)	25.2	ksf	582	25.2	ksf	582	25.2	ksf	582	
1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	LR OFFICE (35.1K-75K KSF)	44.6	ksf	927	44.6	ksf	927	44.6	ksf	927	
LR OFFICE (5K-10K KSF) 81 ksf 2568 81 ksf 2568 81 ksf 2568	LR OFFICE (5K-10K KSF)										

Table 1-5 Trip Generation Comparison: North Park (cont.)

		2008			Adopted		Proposed			
Land Use	Δm	ount	Vehicle	Δm	ount	Vehicle	Δm	ount	Vehicle	
LR OFFICE (U 5K KSF)	73.4	ksf	2869	73.4	ksf	2869	73.4	ksf	2869	
MARKET OPEN 16HR/DAY	73.4	KSI	2003	73.4	KSI	2003	73.4	KJI	2003	
(KSF)	78.5	ksf	39395	78.5	ksf	39395	78.5	ksf	39395	
MARKET OPEN 24HR/DAY										
(KSF)	9.8	ksf	6843	9.8	ksf	6843	9.8	ksf	6843	
MEDICAL OFFICE (KSF)	33	ksf	1707	32	ksf	1653	32	ksf	1653	
MOVIE THEATER (KSF)	23	ksf	1796	23	ksf	1796	23	ksf	1796	
MULTI-FAMILY (O 20DU/AC)	17330	du/acre	104633	26946	du/acre	162689	27947	du/acre	168735	
MULTI-FAMILY (U 20DU/AC)	1908	du/acre	15264	2276	du/acre	18209	2451	du/acre	19609	
NEIGHBORHOOD COMM	1300	duyacre	13204	2270	uu/ acre	10203	2431	uu/acre	13003	
(KSF)	45.2	ksf	5411	45.2	ksf	5411	45.2	ksf	5411	
NURSERY (KSF)	0.2	ksf	8	0	ksf	0	0	ksf	0	
OTHER GROUP QUARTERS										
(DU)	13	du	48	13	du	48	12	du	44	
OTHER HEALTH CARE (KSF)	66.5	ksf	3339	66.5	ksf	3339	66.5	ksf	3339	
OTHER PUBLIC SERVICE	0.9	acre	213	0.3	acre	86	0.3	acre	86	
OTHER RECREATION-HIGH	2.8	acre	109	2.6	acre	104	2.6	acre	104	
OTHER RETAIL COMM. (KSF)	1.5	ksf	59	0	ksf	0	0	ksf	0	
PARKING	12.3	acre	0	4.9	acre	0	4.8	acre	0	
POST OFFICE W/MAIL										
DROP(KSF)	6.2	ksf	1865	0	ksf	0	0	ksf	0	
PUBLIC STORAGE(KSF)	20.3	ksf	41	0	ksf	0	0	ksf	0	
RBALL/TENNIS/HEALTH(KSF)	12.7	ksf	495	12.7	ksf	495	12.7	ksf	495	
RESTAURANT (FAST-FOOD	12.7	KJI	433	12.7	K31	433	12.7	KSI	433	
KSF)	29.4	ksf	20652	29.4	ksf	20652	29.4	ksf	20652	
RESTAURANT (SIT-DOWN										
KSF)	104.2	ksf	13569	104.2	ksf	13569	104.2	ksf	13569	
RESTUARANT (QUALITY-KSF)	76.7	ksf	7709	76.7	ksf	7709	76.7	ksf	7709	
RIGHT-OF-WAY	760.4	acre	0	760.4	acre	0	760.4	acre	0	
MGM OF WAT	700.4	acre	U	700.4	acre	U	700.4	acre	-	
SENIOR HIGH SCHOOL(STU)	1441	stu	2594	1441	stu	2594	1441	stu	2594	
SINGLE FAMILY (DETACHED)	5007	du	44721	4633	du	41384	4640	du	41447	
SINGLE-MULTI UNIT	961	du	7646	614	du	4885	614	du	4885	
SPECIALTY										
COMMERCIAL(KSF)	3.7	ksf	143	0	ksf	0	0	ksf	0	
SPORT FACILITY-IN (AC)	0.3	ksf	10	0.3	ksf	9	0.3	ksf	9	
SUPERMARKET (KSF)	86.5	ksf	13011	86.5	ksf	13011	86.5	ksf	13011	
TIRE STORE (KSF)	4.8	ksf	124	0	ksf	0	0	ksf	0	
UNDER CONTRUCTION	0.7	ksf	3	0	ksf	0	0	ksf	0	
WAREHOUSING (KSF)	5	ksf	25	0	ksf	0	0	ksf	0	

Table 1-6 Trip Generation Comparison: Golden Hill

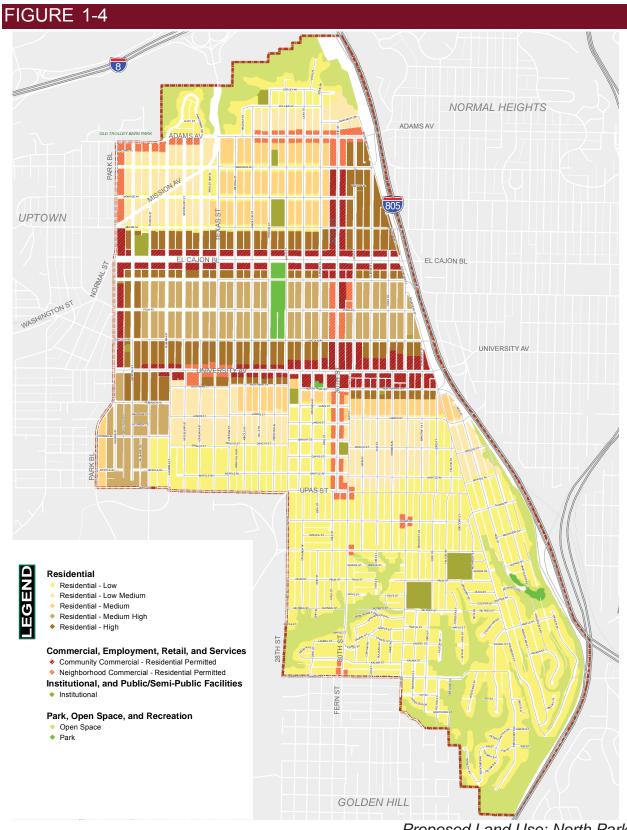
2008 Adopt				Adopted	pted Proposed					
Land Use	Am	ount	Vehicle	Am	ount	Vehicle	Amount		Vehicle	
ARTERIAL COMMERCIAL	7 1111	oune	veinere	7	Ount	Vernoic	7	Journe	v cinicic	
(KSF)	124.3	ksf	4942	33.9	ksf	1355	35.9	ksf	1437	
AUTO REPAIR (KSF)	6.2	ksf	128	2	ksf	41	2	ksf	41	
CHURCH (NO DAY-CARE										
KSF)	44.5	ksf	222	44.5	ksf	222	44.5	ksf	222	
CHURCH (W/DAY-CARE										
KSF)	21.4	ksf	321	21.4	ksf	321	21.4	ksf	321	
COMMUNITY COMMERCIAL (KSF)	0	16	0	264	1£	10420	214.6	l.af	14000	
CONVALESCENT/NURSING	0	ksf	0	264	ksf	18439	214.6	ksf	14999	
(KSF)	32	ksf	235	28	ksf	205	28	ksf	205	
DRINKING PLACE (KSF)	4.6	ksf	604	4.6	ksf	604	4.6	ksf	604	
ELEMENTARY SCHOOL	4.0	KJI	004	4.0	KSI	004	4.0	KSI	004	
(STU)	949	stu	2758	1226	stu	3563	1226	stu	3563	
ESTATE HOUSING (DU)	1	du	12	1	du	12	1	du	12	
,										
FIRE OR POLICE STATION	1	site	228	1	site	228	1	site	228	
FURNITURE STORE (KSF)	2.1	ksf	13	0	ksf	0	0	ksf	0	
GAS STATION W FMART			.=			.=0.0			.=0.5	
(PUMP)	12	pump	1796	12	pump	1796	12	pump	1796	
INACTIVE USE	109.2	acre	0	96.3	acre	0	54.3	acre	0	
LIGHT INDUSTRY (KSF)	112.8	ksf	1696	102.6	ksf	1543	102.6	ksf	1543	
LR OFFICE (10.1k-20k-KSF)	14	ksf	374	14	ksf	374	14	ksf	374	
LR OFFICE (U 5K KSF)	18.7	ksf	729	18.7	ksf	729	18.7	ksf	729	
MARKET OPEN 16HR/DAY	10.7	KOI	723	10.7	KOI	723	10.7	NOT	723	
(KSF)	20.1	ksf	10036	20.1	ksf	10036	20.1	ksf	10036	
MEDICAL OFFICE (KSF)	4.5	ksf	231	4.5	ksf	231	4.5	ksf	231	
MULTI-FAMILY (O										
20DU/AC)	3903	du/acre	23565	6389	du/acre	38574	6365	du/acre	38430	
MULTI-FAMILY (U										
20DU/AC)	237	du/acre	1896	305	du/acre	2441	305	du/acre	2441	
NEIGHBORHOOD COMM										
(KSF)	12.4	ksf	1489	7.2	ksf	864	17.2	ksf	2062	
OTHER CHILD SCHOOL(KSF)	6	ksf	232	0	ksf	0	0	ksf	0	
,										
OTHER GROUP QUARTERS	0.8	acre	3	0	acre	0	0	acre	0	
OTHER GROUP QUARTERS										
(DU)	7	du	26	7	du	26	7	du	26	
OTHER HEALTH CARE (KSF)	10.7	ksf	534	10.7	ksf	534	10.7	ksf	534	
OTHER PUBLIC SERVICE	0.7	ksf		0			0		0	
OTHER PUBLIC SERVICE OTHER RETAIL COMM.	0.7	KSI	196	U	ksf	0	U	ksf	U	
(KSF)	2.1	ksf	83	2.1	ksf	83	2.1	ksf	83	
POST OFFICE W/MAIL									- 55	
DROP(KSF)	3.8	ksf	1126	0	ksf	0	0	ksf	0	
RESTAURANT (FAST-FOOD										
KSF)	2.8	ksf	1930	2.8	ksf	1930	2.8	ksf	1930	

Table 1-7 Trip Generation Comparison: Golden Hill (cont.)

Land Use	2008				Adopted		Proposed			
Land OSE	Amount		Vehicle	Amount		Vehicle	Amount		Vehicle	
RESTAURANT (SIT-DOWN										
KSF)	10.3	ksf	1349	10.3	ksf	1349	10.3	ksf	1349	
RESTUARANT (QUALITY-										
KSF)	6.4	ksf	638	6.4	ksf	638	6.4	ksf	638	
RETIREMENT/SENIOR HOME(DU)	0	du	0	4	du	16	4	du	16	
RIGHT-OF-WAY	227.6	acre	0	228	acre	0	228.2	acre	0	
SINGLE FAMILY (DETACHED)	1356	du	12110	1087	du	9709	1114	du	9950	
SINGLE-MULTI UNIT	1564	du	12441	844	du	6713	844	du	6713	
SPORT FACILITY-IN (AC)	0.1	acre	3	0.1	acre	3	0.1	acre	3	
SUPERMARKET (KSF)	36.1	ksf	5433	36.1	ksf	5433	36.1	ksf	5433	
Grand Total			87900			108535			106389	

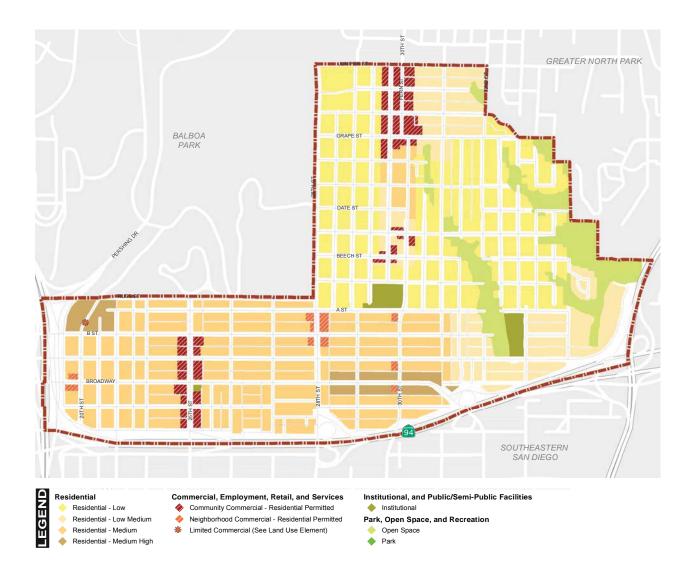
FIGURE 1-3 BALBOA PARK SAN DIEGO INTERNATIONAL AIRPORT Residential Residential - High Office Commercial - Residential Permitted Residential - Low Institutional, and Public/Semi-Public Facilities Residential - Very High Residential - Low Medium Commercial, Employment, Retail, and Services Institutional Park, Open Space, and Recreation Residential - Medium Community Commercial - Residential Permitted Residential - Medium High Neighborhood Commercial - Residential Permitted Open Space Park

Proposed Land Use: Uptown



Proposed Land Use: North Park

FIGURE 1-5



2 METHODOLOGY

The following section describes the methodology used to determine study intersections, perform capacity analysis, and determine significant impacts.

2.1 STUDY INTERSECTIONS

Intersections within the project boundary were selected to be studied based on several factors, which included the following:

- Existing circulation element roadways intersecting with other existing circulation element roadways where both roadways function or are classified as a collector or higher
- Intersections that provide access to/from freeways
- Anticipated circulation element roadways intersecting with other existing and/or anticipated circulation element roadway where both roadways function or are classified as a collector or higher
- Key intersections where both intersecting streets meet one of the following conditions:
- 4-lanes (or greater)
- 3-lanes and carries over 15,000 ADT
- 2-lanes and carries over 10,000 ADT
- Additional intersections which the community has expressed concerns

Based on the criteria listed above, a total of 53 intersections have been selected for analyses (30 intersections are located within Uptown; 11 within North Park; and 12 within Golden Hill) and are shown in **Table 2-1**. **Figure 2-1** displays the location of each of the study intersections

Table 2-1 Study Intersections: Uptown

	Intersection	Traffic Control
1	Washington St & Hancock St	Traffic Signal
2	Washington St & San Diego Ave	Traffic Signal
3	Washington St & India St	Traffic Signal
4	Washington St & Fourth Ave	Traffic Signal
5	Washington St & Fifth Ave	Traffic Signal
6	Washington St & Eighth Ave/SR-163 Off-Ramp (Caltrans)	Traffic Signal
7	Washington St & Richmond St/SR-163 On-Ramp (Caltrans)	Traffic Signal
8	Washington St/Normal St & Campus Ave/Polk Ave	Traffic Signal
9	Normal St/El Cajon Blvd & Park Blvd	Traffic Signal
10	University Ave & Fourth Ave	Traffic Signal
11	University Ave & Fifth Ave	Traffic Signal
12	University Ave & Sixth Ave	Traffic Signal
13	University Ave & Tenth St	Traffic Signal
14	University Ave & Normal St	Traffic Signal

15	University Ave & Park Blvd	Traffic Signal			
16	Robinson Ave & Fourth Ave Traffic Signal				
17	Robinson Ave & Fifth Ave Traffic Sign				
18	Robinson Ave & Sixth Ave Traffic Signal				
19	Vine St & India St	Traffic Signal			
20	O Sassafras St & Kettner Blvd Traffic Signal				
21	Sassafras St & India St	Traffic Signal			
22	2 Laurel St & India St/ I-5 NB On-Ramp Traffic Signa				
23	Laurel St & Fourth Ave Traffic Signa				
24	Laurel St & Fifth Ave	Traffic Signal			
25	Laurel St & Sixth Ave	Traffic Signal			
26	Hawthorn St & Brant St	Two-way stop controlled			
27	Grape St & State St	Traffic Signal			
28	Elm St & First Ave Traffic Signal				
29	Elm St & Sixth Ave	Traffic Signal			
30	Cedar St & Second Ave	Two-way stop controlled			

As shown in the table, 28 of the 30 intersections evaluated in the Uptown community are signalized while 2 intersections are unsignalized with vehicles required to stop on two legs of the intersection. The majority of the intersections include at least one of the major roadways within the community, which are Washington Street, University Avenue, Robinson Avenue, Upas Street, and Laurel Street.

Table 2-1.2 Study Intersections: North Park

	Intersection	Traffic Control			
31	Madison Ave & Texas St	Traffic Signal			
32	El Cajon Blvd & Texas St Traffic Signal				
33	El Cajon Blvd & 30th St Traffic Signal				
34	El Cajon Blvd & I-805 SB Ramps	Traffic Signal			
35	El Cajon Blvd & I-805 NB Ramps	Traffic Signal			
36	University Ave & Texas St Traffic Signal				
37	University Ave & 30th St Traffic Signal				
38	University Ave & Boundary St	Traffic Signal			
39	University Ave & I-805 NB Ramps	Traffic Signal			
40	North Park Way/I-805 SB Ramps & Boundary St/33rd St	All-way stop controlled			
41	Upas St & 30th St (W)	All-way stop controlled			

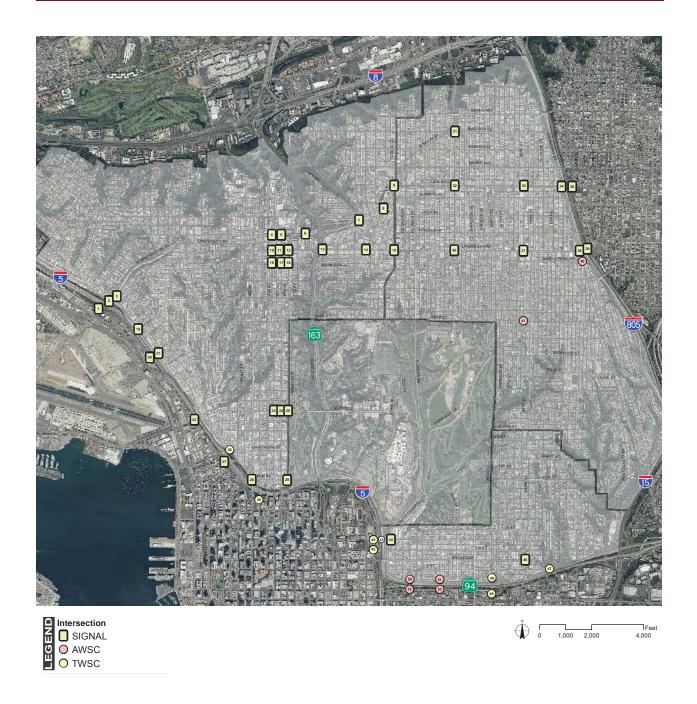
As shown in the table, 9 of the 11 intersections evaluated in the North Park community are signalized while 2 intersections are all-way stop controlled unsignalized. The majority of the intersections include at least one of the major roadways within the community, which are El Cajon Boulevard, University Avenue, and Upas Street.

Table 2-1.3 Study Intersections: Golden Hill

	Intersection	Traffic Control			
42	B St & 17th St/I-5 SB Off-Ramp One-way stop cont				
43	B St & I-5 NB Off-Ramp None				
44	B St & 19th St/I-5 NB On-Ramp	Traffic Signal			
45	C St & 17 St	One-way stop controlled			
46	Broadway & 30th St	Traffic Signal			
47	SR-94 WB Ramps & Broadway	One-way stop controlled			
48	SR-94 WB Ramps & 28th St	Two-way stop controlled			
49	SR-94 EB Ramps & 28th St	One-way stop controlled			
50	F St & 22nd St	All-way stop controlled			
51	F St & 25th St	All-way stop controlled			
52	G St & 22nd St	All-way stop controlled			
53	G St & 25th St	All-way stop controlled			

As shown in the table, only 2 of the 12 intersections evaluated in the Golden Hill community are signalized while the other 10 intersections are unsignalized. The intersection of B Street and I-5 Northbound Off-Ramp has no conflicting movements and therefore does not require any traffic control.

FIGURE 2-1



2.2 ANALYSIS PROCESS

The analysis process includes determining the a.m. and p.m. peak-hour operations at the study intersections, freeway segments and freeway ramps, and operations daily along the roadway segments. Intersections were measured and quantified using the Synchro traffic analysis software package. Results will be compared to the City's thresholds to determine if the project has any significant traffic impacts.

2.2.1 ANALYSIS SOFTWARE

To analyze the operations of both signalized and unsignalized intersections, Synchro 8.0 (Trafficware) was used for the analysis. Synchro 8.0 uses the methodologies outlined in the 2000 Highway Capacity Manual (HCM). The existing intersection peak-hour factor (PHF) was used for Existing and Near Term scenarios. A PHF of 0.92 was used for Future Year conditions to account for the unknown change in traffic patterns.

Existing traffic signal timing parameters were provided by the City of San Diego and Caltrans and are included in **Appendix A**.

2.2.2 SIGNALIZED AND UNSIGNALIZED INTERSECTIONS

The 2010 Highway Capacity Manual (HCM) published by the Transportation Research Board establishes a system whereby highway facilities are rated for their ability to process traffic volumes. The terminology "level of service" is used to provide a "qualitative" evaluation based on certain "quantitative" calculations, which are related to empirical values.

Level of service (LOS) for signalized intersections is defined in terms of delay, which is a measure of driver discomfort, frustration, fuel consumption, and loss of travel time. Specifically, LOS criteria are stated in terms of the average control delay per vehicle for the peak 15-minute period within the hour analyzed. The average control delay includes initial deceleration delay, queue move-up time, and final acceleration time in additional to the stop delay. The level of service for unsignalized intersections is determined by the computed or measured control delay and is defined for each minor movement. The criteria for the various levels of service designations for signalized and unsignalized intersections are given in **Table 2-2**.

Within the City of San Diego, all signalized and unsignalized intersections are considered deficient if they operate at LOS E or F.

Table 2-2 Level of Service (LOS) Criteria for Intersections

LOS	Signalized (Control Delay) (sec/veh) ^(a)	Unsignalized (Control Delay) (sec/veh) ^(b)	Description
А	≤10.0	≤10.0	Operations with very low delay and most vehicles do not stop.
В	>10.0 and ≤20.0	>10.0 and ≤15.0	Operations with good progression but with some restricted movement.
С	>20.0 and ≤35.0	>15.0 and ≤25.0	Operations where a significant number of vehicles are stopping with some backup and light congestion.
D	>35.0 and ≤55.0	>25.0 and ≤35.0	Operations where congestion is noticeable, longer delays occur, and many vehicles stop. The proportion of vehicles not stopping declines.
E	>55.0 and ≤80.0	>35.0 and ≤50.0	Operations where there is significant delay, extensive queuing, and poor progression.
F	>80.0	>50.0	Operations that are unacceptable to most drivers, when the arrival rates exceed the capacity of the intersection.
Source:			

(a) 2000 Highway Capacity Manual, Chapter 16, Page 2, Exhibit 16-2

(b) 2000 Highway Capacity Manual, Chapter 17, Page 2, Exhibit 17-2

2.2.3 ROADWAY SEGMENTS

In order to determine the impacts on the study area roadway segments, **Table 2-3** has been developed by the City of San Diego and is used as a reference. The segment traffic volumes under LOS E as shown in this table are considered at capacity because at LOS E the v/c Ratio is equal to 1.0.

Table 2-3 City of San Diego Roadway Segment Capacity and Level of Service

Road Class	Lanes	А	В	С	D	Е
Freeway	8	60,000	84,000	120,000	140,000	150,000
Freeway	6	45,000	63,000	90,000	110,000	120,000
Freeway	4	30,000	42,000	60,000	70,000	80,000
Expressway	6	30,000	42,000	60,000	70,000	80,000
Prime Arterial (two-way)	6	25,000	35,000	50,000	55,000	60,000
Major Arterial (two-way)	6	20,000	28,000	40,000	45,000	50,000
Major Arterial (two-way)	4	15,000	21,000	30,000	35,000	40,000
Major Arterial (two-way)	3	11,250	15,750	22,500	26,250	30,000
Major Arterial (one-way)	3	12,500	16,500	22,500	25,000	27,500
Major Arterial (one-way)	2	10,000	13,000	17,500	20,000	22,500
Collector (two-way)	4	10,000	14,000	20,000	25,000	30,000
Collector (No center lane)	4	F 000	7,000	10.000	12.000	15.000
(Continuous left-turn lane)	2	5,000	7,000	10,000	13,000	15,000
Collector (No fronting property)	2	4,000	5,500	7,500	9,000	10,000
Collector (two-way)	3	7,500	10,500	15,000	17,500	20,000
Collector (no center turn lane)	3	4,000	5,500	7,500	10,000	11,500
Collector (Commercial/Industrial fronting)	2	2,500	3,500	5,000	6,500	8,000
Collector (Multi-family)	2	2,500	3,500	5,000	6,500	8,000
Collector (one-way)	3	11,000	14,000	19,000	22,500	26,000
Collector (one-way with one lane dedicated for bike facility)	3	7,500	9,500	12,500	15,000	17,500
Collector (one-way)	2	7,500	9,500	12,500	15,000	17,500
Collector (one-way)	1	2,500	3,500	5,000	6,250	7,500
Sub-Collector (Single family)	2	-	-	2,200	-	-

Notes:

The volumes and the average daily level of service listed above are only intended as a general planning guideline. Levels of service are not applied to residential streets since their primary purpose is to serve abutting lots, not carry through traffic. Levels of service normally apply to roads carrying through traffic between major trip generators and attractors. Capacities for any classification not identified in the sources noted below were developed based on interpolation from similar classifications.

Sources: City of San Diego Traffic Impact Study Manual, Table 2, Page 8, July 1998. City of San Diego Planning Department Mobility Section

2.2.4 FREEWAY SEGMENTS

In order to determine the impacts on the study area freeway segments, Table 2-4 has been developed by Caltrans District 11 and is used as a reference. The procedure involves comparing the peak-hour volume of the mainline freeway segment to the theoretical capacity of the segment, which results in a v/c ratio. The calculated v/c ratio is then compared to the accepted ranges of v/c ratio values corresponding to the respective LOS.

Table 2-4 LOS Criteria For Freeway Segment Analysis

LOS	v/c Ratio	Congestion/Delay	Traffic Description
Α	<0.41	None	Free Flow
В	0.41 - 0.62	None	Free to stable flow, light to moderate volumes
С	0.63 – 0.80	None to minimal	Stable flow, moderate volumes, freedom to maneuver noticeably restricted
D	0.81 – 0.92	Minimal to substantial	Approaches unstable flow, heavy volumes, and very limited freedom to maneuver
E	0.93 – 1.00	Significant	Extremely unstable flow, maneuverability and psychological comfort extremely poor
F ₀	1.01 – 1.25	Considerable 0-1 hour delay	Operations that are unacceptable to most drivers, when the arrival rates exceed the capacity of the intersection
F ₁	1.26 – 1.35	Severe 1-2 hour delay	Forced flow, heavy congestion, long queues form behind breakdown points, stop and go
F ₃	1.36 – 1.45	Very severe 2-3 hour delay	Extremely heavy congestion, very long queues
F ₄	>1.46	Extremely severe 3+ hour delay	Gridlock
Notes:		3+ hour delay	

Based on the 1992 Caltrans guidelines.

2.2.5 FREEWAY RAMP METERING

Ramp metering is a means of controlling the volume of traffic entering the freeway with the goal of improving the traffic operations and flow on the freeway main lanes. Freeway ramp meter analysis estimates the peak hour queues and delays at freeway ramps by comparing existing volumes to the meter rate at the given location. The excess demand, if any, forms the basis for calculating the maximum queues and maximum delays anticipated at each location. Substantial queues and delays can form where demand significantly exceeds the meter rate. This approach assumes a static meter rate throughout the course of the peak hour. However, Caltrans has indicated that the meter rates are continually adjusted based on the level of traffic using the on-ramp. To the extent possible, the meter rate is set such that the queue length does not exceed the available storage, smooth flows on the freeway mainline is maintained, and there is no interference to arterial traffic.

2.3 SIGNIFICANCE DETERMINATION

The City of San Diego and Caltrans have developed acceptable threshold standards to determine the significance of project impacts to intersections, roadway segments, freeway segments, and freeway ramp metering. At intersections, the measurement of effectiveness (MOE) is based on allowable increases in delay. Along roadway segments and freeway segments, the MOE is based on allowable increases in the volume-to-capacity (v/c) ratio. At a freeway ramp meter, the MOE is based on allowable increases in delay, measured in minutes.

LOS F is not acceptable for any approach leg except for side streets on an interconnected arterial system. If vehicle trips from a project cause an intersection approach leg to operate at LOS F, except in the cases of side streets on an interconnected arterial system, this would be considered a significant project traffic impact that requires mitigation. At intersections that are expected to operate at LOS E or F without the project, the allowable increase in delay is two seconds at LOS E and one second at LOS F with the addition of the project. If vehicle trips from a project cause the delay at an intersection to increase by more than the allowable threshold, this would be considered a significant project impact that requires mitigation. Also, if the project causes an intersection that was operating at an acceptable LOS to operate at LOS E or F, this would be considered a significant project impact that requires mitigation.

For roadway segments that are forecasted to operate at LOS E or F with the project, the allowable increase in v/c ratio is 0.02 at LOS E and 0.01 at LOS F. If vehicle trips from a project cause the v/c ratio to increase by more than the allowable threshold, this would be considered a significant project traffic impact that requires mitigation. Also, if the project causes a street segment that was operating at an acceptable LOS to operate at LOS E or F, this would be considered a significant impact that requires mitigation.

Where the roadway segment operates at LOS E or F, if the intersections at the ends of the segment are calculated to operate at an acceptable LOS with the project; and a peak hour HCM arterial analysis for the same segment shows that the segment operates at an acceptable LOS with the project; then the project impacts are determined to be less than significant and no mitigation is required. If analysis shows either the intersections or segment under the peak hour HCM analysis do not operate acceptably, the project impacts are considered significant and unmitigated, requiring the adoption of findings of infeasibility and a statement of over-riding considerations before the project may be approved.

In certain instances mitigation may not be required even if a roadway segment operates at LOS E or LOS F. In such cases the following three conditions must all be met:

- 1. The roadway is built to its ultimate classification per the community plan;
- 2. The intersections on both ends of the failing segment operate at an acceptable LOS; and
- An HCM arterial analysis indicates an acceptable LOS on the segment.

For freeway segments that are forecasted to operate at LOS E or F with the project, the allowable increase in v/c ratio is 0.01 at LOS E and 0.005 at LOS F. If vehicle trips from a project cause the v/c ratio to increase by more than the allowable threshold, this would be considered a significant project traffic impact that requires mitigation. Also, if the project causes a freeway segment that was operating at an acceptable LOS to operate at LOS E or F, this would be considered a significant impact that requires mitigation.

If vehicle trips from a project cause a metered ramp with a delay of 15 minutes per vehicle or higher to increase its delay by more than 2 minutes per vehicle, this would be considered a significant project traffic impact that requires mitigation if the freeway segment operates at LOS E or F.

Two classes of impacts are measured for significance: Direct Impacts and Cumulative Impacts. Direct traffic impacts are those projected to occur at the time the proposed study development becomes operational. During this time, other developments not presently operational but which are anticipated to be operational during the Near Term scenario are included. Cumulative traffic impacts are those projected to occur at some point after the proposed study development becomes operational, such as during subsequent phases

of the project, and when additional proposed developments in the area become operational (short-term cumulative) or when the affected community plan area reaches full planned build out (long-term cumulative). The project applicant would be responsible for mitigating direct impacts by improving operation to better than pre-project conditions. The project applicant would provide their fair share contribution toward installing improvements to mitigate cumulative impacts. A fair share contribution is based on the project's proportionate traffic contribution to future increased traffic volumes on a facility.

Table 2-5 shows the criteria for determining levels of significance for the different facilities in the study area.

Table 2-5 Significance Criteria For Facilities in Study Area

Facility	Measures of Effectiveness (MOE)	Significance Threshold ^(a)
Intersection	Seconds of Delay	>2.0 seconds at LOS E or >1.0 second at LOS F
Roadway Segment	ADT, v/c Ratio	>0.02 at LOS E, or >0.01 at LOS F
Freeway Segment	v/c Ratio	>0.01 at LOS E, or >0.005 at LOS F
Freeway Ramp Meter	Minutes of delay per vehicle	>2.0 minutes for freeway segments operating at LOS E, and > 1.0 minutes for freeway segments operating at LOS F. The criteria only apply for ramp meters where the delay without project is 15 minutes or higher.

Notes: If a project adds any increment of delay to cause the operations of an intersection to go from LOS D to either LOS E or LOS F, then the project is considered to cause a significant impact.

Source: City of San Diego Significance Determination Thresholds, page 72, January 2011.

(a) Significance threshold applies only when the type of facility operates at LOS E or F.

3 EXISTING CONDITIONS

This section summarizes the existing roadway circulation network, daily and peak-hour traffic volumes, and operations at the study intersections and roadway and freeway segments.

3.1 ROAD NETWORK

The following section provides a description of the existing study streets within the communities. Ultimate roadway classifications are taken from the Uptown Community Plan, last updated February 1988, the North Park Community Plan, last updated November 1986, and the Golden Hill Community Plan, last updated June 1990. The portions of the roadways described are intended to reflect the areas within the given community, and may not reflect the entirety of the roadway. Functional classifications are based on field observations performed during preparation of this report. **Figures 3-1, 3-2, and 3-3** illustrate the existing roadway classifications for each of the three communities. **Appendix B** provides the existing intersection geometrics used in this study. The City of San Diego Bicycle Master Plan (City BMP) proposes several bicycle facilities in these communities as noted in the roadway descriptions below.

UPTOWN

First Avenue functions as a north-south, 2-lane collector with a curb to curb width of 50 feet between I-5 and Arbor Avenue. It is two-way for the majority of its length between Grape Street and Washington Street, and one-way northbound otherwise. First Avenue is lined with sidewalks and curbs with parallel parking available on both sides of the street for the entire length of the street. The posted speed limit is 30 mph. Access to I-5 northbound is provided at the intersection of First Avenue and Elm Street. The ultimate adopted community plan street classification for First Avenue is a 3-lane collector. The City BMP proposes First Avenue as a Class III (Bike Route) facility between downtown and Lewis Street, with the option of a Class II (Bike Lanes) between Upas Street and Washington Street.

Fourth Avenue functions as a north-south roadway varying between a 2-lane collector and a 3-lane collector. It is a one-way southbound 3-lane collector with a curb to curb width of 50 feet between I-5 and Walnut Avenue, a one-way southbound 2-lane collector with a curb to curb width of 45 feet between Walnut Avenue and Washington Street, and a two-way, 2-lane collector with a curb to curb width of 50 feet north of Washington Street. It is currently functioning at its adopted plan ultimate classification. Fourth Avenue is lined with sidewalks and curbs with parallel parking available on both sides of the street. The posted speed limit is 30 mph. It is currently classified as a Class III bicycle route south of Juniper Street and has a striped enhanced Class II (buffered bicycle lane) between Elm Street and Laurel Street. The City BMP identifies Fourth Avenue as a Class III (Bike Route) facility between downtown and Upas Street, as a Class II (Bike Lanes) facility between Upas Street and Washington Street, and a Class III facility between Washington Street and Lewis Street.

Fifth Avenue functions as a one-way northbound 3-lane collector with a curb to curb width of 50 feet between I-5 and Washington Street. It is currently functioning at its adopted plan ultimate classification. Fifth Avenue is lined with sidewalks and curbs with parallel parking available on both sides of the street. The posted speed limit is 30 mph. It is classified as a Class III bicycle route south of Laurel Street and has a striped enhanced Class II (buffered bicycle lane) between Elm Street and Laurel Street. The City BMP identifies Fifth Avenue as a Class II (Bike Lanes) facility between downtown and Washington Street, with the option of a Class III (Bike Route) between University Avenue and Washington Street.

Sixth Avenue functions as a north-south 4-lane collector with no center lane and a curb to curb width of 60 feet between I-5 and University Avenue, and provides access to SR-163 north of University Avenue. From Washington Street to University Avenue, it functions as a 3-lane collector with a curb to curb width of 65 feet. It is currently functioning at its adopted plan ultimate classification. Sixth Avenue is lined with sidewalks and curbs with parallel parking available on both sides of the street. Balboa Park runs along the east side of Sixth Avenue. The posted speed limit is 30 mph, and it is classified as a Class III bicycle route south of Upas Street. The City BMP proposes Sixth Avenue as a Class II (Bike Lanes) facility between downtown and Upas Street.

Ninth Avenue is a short two-way, north-south roadway with a curb to curb width of 50 feet between University Avenue and Washington Street with a SR-163 southbound off-ramp connection. Ninth Avenue is lined with sidewalks and curbs with parallel parking available on both sides of the street. The posted speed limit is 25 mph.

Campus Avenue functions as a north-south 2-lane collector with a curb to curb width of 50 feet between Washington Street and Madison Avenue. It is currently functioning at its adopted plan ultimate classification. Campus Avenue is lined with sidewalks and curbs with parking available on both sides of the street. Angle parking is available on the west side of the street between Madison Avenue and Monroe Avenue and between Van Buren Avenue and Tyler Avenue. Parallel parking is available along the other sections. The posted speed limit is 25 mph.

Cleveland Avenue functions as a 2-lane collector with bike lanes, parallel parking, and sidewalks on both sides of the street with a curb to curb width of 50 feet between Washington Street and Madison Avenue. South of Washington Street, no bike lanes are provided but parallel parking and sidewalks continue to line the street on both sides. It is currently functioning at its adopted plan ultimate classification. The posted speed limit is 25 mph. The City BMP proposes Cleveland Avenue as a Class II (Bike Lanes) facility between Madison Avenue and Richmond Street.

Curlew Street functions as a 2-lane collector with a curb to curb width of 40 feet between Reynard Way and Robinson Avenue. It is currently functioning at its adopted plan ultimate classification. Curlew Street is lined with sidewalks and curbs with parallel parking available on both sides of the street. The posted speed limit is 25 mph. The City BMP proposes the entirety of Curlew Street as a Class III (Bike Route) facility.

Elm Street functions as a two-way 3-lane collector with a curb to curb width of 50 feet from First Avenue to Second Avenue, a one-way westbound 2-lane collector with a curb to curb width of 50 feet from Second Avenue to Third Avenue, and a 3-lane collector with a curb to curb width of 50 feet between Third Avenue and Sixth Avenue. It is bounded by an I-5 northbound off-ramp on the east and a northbound I-5 on-ramp on the west. It is currently functioning at its adopted plan ultimate classification. Elm Street is lined with sidewalks and curbs with parallel parking available on both sides of the street. The posted speed limit is 25 mph.

Fort Stockton Drive functions as a 2-lane collector with a curb to curb width of 40 feet between Ampudia Street and Eagle Street. It is currently functioning at its adopted plan ultimate classification. Fort Stockton Drive is lined with sidewalks and curbs with parallel parking available on both sides of the street. Bike lanes are provided on Fort Stockton Drive between Witherby Street and Hermosa Way. The posted speed limit is 25 mph.

Front Street is not continuous through the Uptown community with breaks between Washington Street and University Avenue, Robinson Avenue and Brookes Avenue, Spruce Street and Maple Street, and Fir Street and Date Street. For areas south of Washington Street, Front Street is a two-lane roadway with parking allowed that serves residential areas and is not studied in this report. However, the portion of Front Street

north of Washington Street provides access to UCSD Medical Center and is a key circulation roadway that is included in the study. This portion of Front Street functions as a north-south two-way 2-lane collector with a curb to curb width of 40 feet between Dickinson Street and Arbor Drive, a one-way southbound 2-lane collector with a curb to curb width of 40 feet between Arbor Drive and Lewis Street, and a one-way southbound 3-lane collector with a curb to curb width of 50 feet between Lewis Street and Washington Street. Its adopted plan ultimate classification is a 3-lane collector between Arbor Drive and Washington Street. The posted speed limit is 25 mph. Front Street is lined with sidewalks and curbs with parallel parking available on both sides of the street.

Grape Street functions as a one-way eastbound, 3-lane collector with a curb to curb width of 50 feet between I-5 and First Avenue, and as a two-way, 2-lane collector with a curb to curb width of 50 feet between First Avenue and Sixth Avenue. Its adopted plan ultimate classification is a 3-lane collector between First Avenue and Sixth Avenue. Grape Street is lined with sidewalks and curbs. Angle parking is available on the north side of the street between First Avenue and Fourth Avenue, on both sides of the street between Fourth Avenue and Fifth Avenue, and on the south side between Fifth Avenue and Sixth Avenue. The posted speed limit is 25 mph. The City BMP proposes Grape Street as a Class III (Bike Route) facility between First Avenue and Sixth Avenue.

Hawthorn Street functions as a one-way westbound 3-lane collector with a curb to curb width of 50 feet from Brant Street to First Avenue and a two-way, 2-lane collector with a curb to curb width of 50 feet from First Avenue to Sixth Avenue. Its adopted plan ultimate classification is a 3-lane collector for its entirety. Hawthorn Street is lined with sidewalks and curbs with parking available on both sides of the street. Angle parking is available on the north side of the street between Third Avenue and Sixth Avenue. Parallel Parking is available along the other sections. Access is provided to I-5 northbound from Hawthorn Street. The posted speed limit is 30 mph. The City BMP proposes Hawthorn Street as a Class III (Bike Route) facility between First Avenue and Sixth Avenue.

India Street functions as a one-way northbound collector with a varying classification between 2 lanes and 3 lanes and between two-way and one-way between I-5 to San Diego Avenue. North of San Diego Avenue, India Street is a two-way, 2-lane collector until it terminates at Washington Street. India Street is lined with sidewalks and curbs with parallel parking available on the east side of the street only. It runs parallel to I-5, providing access to I-5 northbound at San Diego Avenue. The posted speed limit is 35 mph. The City BMP proposes India Street as a Class II (Bike Lanes) facility between Laurel Street and Washington Street.

Juan Street functions as a 2-lane collector with a curb to curb width of 35 feet between Witherby Street and the community boundary, providing access into the Old Town community. Juan Street was not included in the adopted community plan future classifications. Juan Street is lined with sidewalks and curbs with parallel parking available on both sides of the street. The posted speed limit is 30 mph. The City BMP proposes Juan Street as a Class III (Bike Route) facility between Sunset Boulevard and Taylor Street in the Old Town community.

Laurel Street functions as an east-west 4-lane collector with a curb to curb width of 50 feet between I-5 and Union Street, as a 2-lane collector with a two-way left-turn lane with a curb to curb width of 50 feet between Union Street and Sixth Avenue. East of Sixth Avenue, Laurel Street enters Balboa Park and changes name to El Prado. Its adopted plan ultimate classification is a 2-lane collector. Laurel Street is lined with sidewalks and curbs with parallel parking available on both sides of the street. The posted speed limit is 25 mph. The City BMP proposes Laurel Street as a Class III (Bike Route) facility between Reynard Way and Sixth Avenue, joining with the existing bike route in Balboa Park to the east.

Lewis Street functions as an east-west 2-lane collector with a curb to curb width of 50 feet between Fort Stockton Drive and Hawk Street, and a one-way, 2-lane eastbound collector with a curb to curb width of 35 feet between Front Street and Fourth Avenue. Natural terrain severs Lewis Street between Goldfinch Street and Albatross Street. It is currently functioning at its adopted plan ultimate classification. Bike lanes are provided between Fort Stockton Drive and Ibis Street. Lewis Street is lined with sidewalks and curbs with parallel parking available on both sides of the street between Fort Stockton Drive and Ibis Street. Angle parking is available on the south side of the street between Ibis Street and Hawk Street. The posted speed limit is 25 mph.

Normal Street functions as a 4-lane major arterial with a curb to curb width of 110 feet between University Avenue and Washington Street, and as a 6-lane major arterial with a curb to curb width of 110 feet between Washington Street and Park Boulevard/El Cajon Boulevard. It is currently functioning at its adopted plan ultimate classification. Normal Street is lined with sidewalks and curbs on both sides of the street, with angled parking available on both sides of the street between University Avenue and Washington Street. The posted speed limit is 30 mph. The City BMP proposes Normal Street as a Class II (Bike Lanes) facility between Washington Street and El Cajon Boulevard.

Park Boulevard changes cross-sections multiple times throughout the study area. It functions as a northsouth 2-lane collector with a two-way left-turn lane and a curb to curb width of 65 feet between Upas Street and Cypress Avenue, a 3-lane collector (2 northbound, 1 southbound) with a curb to curb width of 65 feet between Cypress Avenue and Essex Street, a 4-lane major with a curb to curb width of 110 feet between Essex Street and Normal Street/El Cajon Boulevard, a 3-lane collector with a curb to curb width of 50 feet between Normal Street/El Cajon Boulevard and Meade Avenue, and a 2-lane collector with a continuous twoway left-turn lane and a curb to curb width of 50 feet between Meade Avenue and Adams Avenue. Its adopted plan ultimate classification is to be a 4-lane major between Upas Street and Washington Street. Park Boulevard is lined with sidewalks and curbs with parking available on both sides of the street. Angle parking is available on both sides of the street between Normal Street and University Avenue. Parallel parking is along the other sections. The posted speed limit is 35 mph between Upas Street and Washington Street, and 30 mph north of Washington Street. Park Boulevard serves as the community boundary between Uptown and North Park. Beyond these communities, it continues into Balboa Park providing access to the attractions within the park including the San Diego Zoo. Park Boulevard is classified as a Class III bicycle facility. The City BMP proposes Park Boulevard as a Class II (Bike Lanes) facility between Adams Avenue and Upas Street, and throughout Balboa Park, with the option of keeping Class III (Bike Route) facilities between Upas Street and El Cajon Boulevard/Normal Street and north of Madison Avenue.

Reynard Way functions as a 2-lane collector with a continuous left-turn lane and a curb to curb width of 55 feet between Torrance Street and Maple Street. Reynard Way becomes Goldfinch Street north of Torrance Street and becomes State Street south of Maple Street. The posted speed limit is 30 mph. It is currently functioning at its adopted plan ultimate classification. Reynard Way is lined with sidewalks and curbs on both sides of the street. The City BMP proposes the entirety of Reynard Way as a Class III (Bike Route) facility.

Richmond Street functions as a north-south 2-lane collector with a curb to curb width of 50 feet between Upas Street and Washington Street. Its adopted plan ultimate classification is to be a 3-lane collector between Cleveland Avenue and Robinson Avenue, and a 2-lane collector between Robinson Avenue and Upas Street. Richmond Street is lined with sidewalks and curbs with parallel parking allowed on both sides of the street. The posted speed limit is 25 mph. The City BMP proposes Richmond Street as a Class II (Bike Lanes) facility between Upas Street and Cleveland Avenue.

Robinson Avenue functions as an east-west 2-lane collector with a curb to curb width of 35 feet between Curlew Street and Park Boulevard. Between Vermont Street and Park Boulevard, Robinson Avenue functions as a 2-lane collector with a two-way left-turn lane and a curb to curb width of 50 feet. It is currently functioning at its adopted plan ultimate classification. Robinson Avenue is lined with sidewalks and curbs with parallel parking available on both sides of the street. Parking is not available between 5th Avenue and 7th Avenue. It provides access to and from SR-163 between Eighth Avenue and Tenth Avenue. The posted speed limit is 25 mph between Curlew Street and Tenth Avenue and 30 mph between Tenth Avenue and Park Boulevard. The City BMP proposes Robinson Avenue as Class III (Bike Route) facility between First Avenue and Park Boulevard, and continuing east of Park Boulevard as a Bicycle Boulevard facility providing connection to Alabama Street.

San Diego Avenue functions as a 2-lane collector with a curb to curb width of 50 feet between India Street and the community boundary, with one segment between McKee Street and Washington Street that functions as a 3-lane collector with a curb to curb width of 50 feet. The roadway is one-way northbound between California Street and India Street. This roadway provides a connection to the Old Town community. It is currently functioning at its adopted plan ultimate classification. San Diego Avenue is lined with sidewalks and curbs with parking available on both sides of the street. Angle parking is available on the east side of the street between Washington Street and India Street. Parallel parking is along the other sections. The posted speed limit is 35 mph. The City BMP proposes San Diego Avenue as a Class II (Bike Lanes) facility between India Street and Congress Street.

State Street functions as a 2-lane collector with a curb to curb width of 50 feet between Juniper Street and Laurel Street. It was not included in the future classifications. State Street is lined with sidewalks and curbs with parallel parking available on both sides of the street. The posted speed limit is 25 mph. The City BMP proposes State Street as a Class III (Bike Route) facility between Laurel Street and downtown.

Sunset Boulevard functions as an east-west 2-lane collector with bike lanes and a curb to curb width of 50 feet between Witherby Street and Fort Stockton Drive. It is lined with sidewalks and curbs with parallel parking available on both sides of the street. It is currently functioning at its adopted plan ultimate classification. The posted speed limit is 25 mph.

University Avenue functions as an east-west 2-lane collector with a curb to curb width of 45 feet between Washington Street and Fifth Avenue, as a 4-lane collector between Fifth Avenue and Eighth Avenue (varying between with and without a center lane), as a 4-lane major between Vermont Street and Normal Street, and a 4-lane collector between Normal Street and Park Boulevard. University Avenue has a curb to curb width of 60 feet between Fifth Avenue and Tenth Avenue, 110 feet between Tenth Avenue and Normal Street, and 50 feet between Normal Street and Park Boulevard. It is currently functioning at its adopted plan ultimate classification. University Avenue is lined with sidewalks and curbs on both sides of the street Angle parking is available on both sides of the street between Vermont Street and Normal Street. Parallel parking is available along the other sections between Fifth Avenue and Park Boulevard. The posted speed limit is 25 mph between Washington Street and Park Boulevard. It is classified as a Class III bicycle facility between Goldfinch Street and Third Avenue. The City BMP proposes University Avenue as a Class III (Bike Lanes) facility east of First Avenue beyond the community boundaries, with the option of a Class III (Bike Route) facility between Fifth Avenue and Florida Street.

Upas Street functions as an east-west 2-lane collector with a curb to curb width of 50 feet between Front Street and Sixth Avenue, and provides access to Balboa Park. Upas Street is lined with sidewalks and curbs with parallel parking available on both sides of the street. The posted speed limit is 25 mph. It is classified as

a Class III bicycle facility east of Third Avenue. The City BMP proposes Upas Street as a Class III (Bike Route) facility between First Avenue and Third Avenue as well.

Washington Street functions as an east-west 4-lane major with a curb to curb width of 80 feet between I-5 and Richmond Street, and as a 6-lane major between Richmond Street and Normal Street. It is currently functioning at its adopted plan ultimate classification. Washington Street does not have sidewalks or curbs between I-5 and Hawk Street, and between SR-163 and Lincoln Avenue. It is lined with sidewalks and curbs on both sides of the street throughout the rest of the segment. Parallel parking is available on select segments between Hawk Street and Park Boulevard. The posted speed limit is 45 mph between I-5 and Hawk Street, and 35 mph from Hawk Street to Park Boulevard. It is classified as a Class II (Bike Lanes) facility between University Avenue and India Street. The City BMP proposes the entirety of Washington Street as a Class II (Bike Lanes) facility.

NORTH PARK

30th **Street** functions as a north-south 2-lane collector with a curb to curb width of 50 feet between Juniper Street and Upas Street and a 2-lane collector with a two-way left-turn lane and a curb to curb width of 50 feet between Upas Street and Adams Avenue. It is currently functioning at its adopted plan ultimate classification. 30th Street is lined with sidewalks and curbs with parallel parking available on both sides of the street. The posted speed limit is 25 mph. The City BMP proposes the entirety of 30th Street as either a Class II (Bike Lanes) or Class III (Bike Route) facility. 30th Street is the main roadway connecting the North Park community with the Golden Hill community.

32nd **Street** functions as a north-south 2-lane collector with a curb to curb width of 45 feet between Juniper Street and Howard Avenue. Its adopted plan ultimate classification is a 3-lane collector between Landis Street and Lincoln Avenue and a 2-lane collector for the remaining portions. 32nd Street is lined with sidewalks and curbs with parallel parking available on both sides of the street. The posted speed limit is 25 mph.

Adams Avenue functions as an east-west 2-lane collector with a two-way left-turn lane and a curb to curb width of 50 feet between Park Boulevard and I-805. It is currently functioning at its adopted plan ultimate classification. 32nd Street is lined with sidewalks and curbs with parking available on both sides of the street. Angle parking is available on the north side of the street from Mission Cliff Drive to Park Boulevard. Parallel parking is available along the other sections, The posted speed limit is 25 mph. The City BMP proposes Adams Avenue as either a Class II (Bike Lanes) or Class III (Bike Route) facility between Park Boulevard and communities east of North Park.

Boundary Street functions as a 2-lane collector with a curb to curb width of 40 feet between Maple Street and Myrtle Avenue and a one-way southbound 1-lane collector with a curb to curb width of 25 feet between Myrtle Avenue and North Park Way, with I-805 off-ramps at North Park Way. Boundary Street is lined with sidewalks and curbs with parallel parking available on both sides of the street for this portion. North of North Park Way, Boundary Street parallels I-805 as a 2-lane collector and provides sidewalk and curb on the west side of the street only. The posted speed limit is 25 mph. It is currently functioning at its adopted plan ultimate classification. The City BMP proposes Boundary Street as either a Class II (Bike Lanes) or Class III (Bike Route) facility between Lincoln Avenue and Landis Street and as a Class III facility from Landis Street to its southern terminus where a Class I (Bike Path) is proposed to provide connections with C Street and Ash Street.

Commonwealth Avenue is a short segment functioning as a 2-lane collector with a curb to curb width of 35 feet between Boundary Street and Juniper Street. It is currently functioning at its adopted plan ultimate

classification. Commonwealth Avenue is lined with sidewalks and curbs with parallel parking available on both sides of the street. The posted speed limit is 25 mph. The City BMP proposes Commonwealth Avenue as a Class III (Bike Route) facility between Boundary Street and Juniper Street.

El Cajon Boulevard functions as an east-west 6-lane major between Park Boulevard and I-805. It is currently functioning at its adopted plan ultimate classification. El Cajon Boulevard provides access to I-805 northbound and southbound. It is lined with sidewalks and curbs with parallel parking available on both sides of the street. The posted speed limit is 35 mph. The City BMP proposes El Cajon Boulevard as a Class II (Bike Lanes) facility between Park Boulevard and east to adjacent communities, with the option of a Class III (Bike Route) between Park Boulevard and Utah Street.

Florida Street functions as a north-south 2-lane collector with a curb to curb width of 40 feet between Upas Street and El Cajon Boulevard. It is currently functioning at its adopted plan ultimate classification. Florida Street is lined with sidewalks and curbs with parallel parking available on both sides of the street. It continues south into Balboa Park and changes name to Florida Drive. The posted speed limit is 25 mph. The City BMP proposes Florida Street as a Class II (Bike Lanes) facility between Upas Street and University Avenue, and as a Class III (Bike Route) facility between University Avenue and Adams Avenue.

Howard Avenue functions as an east-west 2-lane collector with a two-way left-turn lane and a curb to curb width of 50 feet between Park Boulevard and 32nd Street. It is currently functioning at its adopted plan ultimate classification. Howard Avenue is lined with sidewalks and curbs with parallel parking available on both sides of the street. It continues east over I-805 and changes name to Orange Avenue. The posted speed limit is 25 mph and it is currently a designated Class III (Bike Route) facility. The City BMP proposes Howard Avenue as a dedicated Bicycle Boulevard between Georgia Street and east beyond the community boundary.

Juniper Street functions as an east-west 2-lane collector with a curb to curb width of 50 feet between 29th Street and Pentuckett Avenue. It is currently functioning at its adopted plan ultimate classification. Juniper Street is lined with sidewalks and curbs with parking available on both sides of the street. Angle parking is available on the north side of the street west of 30th Street. Parallel parking is available along the other sections. The posted speed limit is 25 mph. The City BMP proposes Juniper Street as a Class III (Bike Route) between 30th Street and Commonwealth Avenue.

Landis Street functions as a 2-lane collector with a curb to curb width of 50 feet between Boundary Street and Nile Street and provides access across I-805. Its adopted plan ultimate classification is a 3-lane collector for this section. Landis Street is lined with sidewalks and curbs with parallel parking available on both sides of the street. The posted speed limit is 25 mph. The City BMP proposes Landis Street as a Bicycle Boulevard between Alabama Street and Utah Street, as a Class III (Bike Route) facility between Utah Street and Boundary Street, joining the existing bike lanes east of Boundary Street.

Lincoln Avenue functions as an east-west 2-lane collector with a curb to curb width of 50 feet between Washington Street and Utah Street, and a 2-lane collector with a continuous two-way left-turn lane and a curb to curb width of 50 feet between Utah Street and I-805. Its adopted plan ultimate classification would be changing the section between Utah Street and I-805 into a two-way couplet system with University Avenue. Lincoln Avenue is lined with sidewalks and curbs with parking available on both sides of the street. Angle parking is available on the north side of the street between Hamilton Street and Idaho Street. Parallel parking is available along the other sections. The posted speed limit is 25 mph west of 30th Street and 30 mph east of 30th Street. The City BMP proposes Lincoln Avenue as a Class II (Bike Lanes) facility between Park Boulevard and University Avenue with an option of a Class II (Bike Lanes) facility between 30th Street and Boundary Street.

Madison Avenue functions as an east-west 2-lane collector with a two-way left-turn lane and a curb to curb width of 50 feet between Park Boulevard and Texas Street and as a 2-lane collector with a curb to curb width of 50 feet between Texas Street and Boundary Street. Its adopted plan ultimate classification is a 2-lane collector for the entirety of the roadway. Madison Avenue is lined with sidewalks and curbs with parallel parking available on both sides of the street. The posted speed limit is 25 mph.

Meade Avenue functions as an east-west 2-lane collector with a two-way left-turn lane and a curb to curb width of 50 feet between Cleveland Avenue and I-805, except between Campus Avenue and Park Boulevard where it is a 2-lane collector with a curb to curb width of 50 feet. Its adopted plan ultimate classification would be changing the section between Utah Street and I-805 into a two-way couplet system with University Avenue. Meade Avenue is lined with sidewalks and curbs with parking available on both sides of the street. Angle parking is available on the south side of the street between North Avenue and Park Boulevard. Parallel parking is available along the other sections. The posted speed limit is 25 mph west of 30th Street and 30 mph east of 30th Street. The City BMP proposes Meade Avenue as a dedicated Bicycle Boulevard between Maryland Street and the community boundary to the east.

Mission Avenue runs diagonally through the grid network and functions as a one-way 2-lane collector with a curb to curb width of 50 feet between Park Boulevard and Texas Street. It is currently functioning at its adopted plan ultimate classification. Mission Avenue is lined with sidewalks and curbs with parking available on both sides of the street. Angle parking is available on the north side of the street between Mississippi Avenue and Louisiana Street. Parallel parking is available along the other sections. The posted speed limit is 25 mph.

Monroe Avenue functions as an east-west 2-lane collector with a curb to curb width of 50 feet between Maryland Street and Ohio Street. Its adopted plan ultimate classification would be a 3-lane collector with a two-way left-turn lane. Monroe Avenue is lined with sidewalks and curbs with parallel parking available on both sides of the street. The posted speed limit is 25 mph.

Nile Street functions as a 2-lane collector with a curb to curb width of 50 feet between Thorn Street and Landis Street. It is currently functioning at its adopted plan ultimate classification. Nile Street is lined with sidewalks and curbs with parallel parking available on both sides of the street. The posted speed limit is 25 mph.

North Park Way functions as an east-west 2-lane collector between Utah Street and Boundary Street. North Park Way has a curb to curb width of 50 feet between Utah Street and Ray Street and 40 feet between Ray Street and Boundary Street. It is currently functioning at its adopted plan ultimate classification. North Park Way is lined with sidewalks and curbs with parking available on both sides of the street. Angle parking is available on both sides of the street west of 30th Street. Parallel parking is available along the other sections. The posted speed limit is 25 mph.

Pentuckett Avenue functions as a north-south 2-lane collector with a curb to curb width of 40 feet between Juniper Street and the south end of the road near SR-15. It is currently functioning at its adopted plan ultimate classification. Pentuckett Avenue is lined with sidewalks and curbs with parallel parking available on both sides of the street. The posted speed limit is 25 mph.

Redwood Street functions as an east-west 2-lane collector with a curb to curb width of 40 feet between Pershing Drive and Boundary Street. It is currently functioning at its adopted plan ultimate classification. Redwood Street is lined with sidewalks and curbs with parallel parking available on both sides of the street. The posted speed limit is 25 mph.

Texas Street functions as a north-south 2-lane collector with a curb to curb width of 40 feet between Upas Street and University Avenue, a 2-lane collector with a two-way left-turn lane and a curb to curb width of 50 feet between University Avenue and Mission Avenue, and transitioning to a 3-lane major with a curb to curb width of 60 feet between Mission Avenue and I-8. Its adopted plan ultimate classification would change it to a 4-lane major from El Cajon Boulevard to I-8. Texas Street is lined with sidewalks and curbs with parallel parking available on both sides of the street between Upas Street and Madison Street. From Madison Street to I-8, Texas Street runs through a canyon area; bike lanes are provided on both sides and sidewalk is provided on the west side. The posted speed limit is 25 mph between Upas Street and Madison Avenue, and 40 mph between Madison Avenue and I-8. The City BMP proposes the entirety of Texas Street as a Class II (Bike Lanes).

University Avenue functions as an east-west 4-lane collector with no center lane and a curb to curb width of 50 feet between Park Boulevard and Boundary Street, expect between 30th Street and 32nd Street where it is a 3-lane collector (2 eastbound, 1 westbound) with a curb to curb width of 50 feet. Its adopted plan ultimate classification would be changing the section between Utah Street and I-805 into a two-way couplet system with Lincoln Avenue. University Avenue is lined with sidewalks and curbs with parallel parking available on both sides of the street. The posted speed limit is 30 mph between Park Boulevard and Utah Street and 25 mph between Utah Street and Boundary Street. The City BMP proposes University Avenue as a Class II (Bike Lanes) facility for all segments within the community boundaries with the option of a Class III (Bike Route) between Park Boulevard and Florida Street.

Upas Street functions as an east-west 2-lane collector with a curb to curb width of 40 feet between Alabama Street and Pershing Drive and between 30th Street and Boundary Street, and as a 2-lane collector with a two-way left-turn lane and a curb to curb width of 50 feet between Pershing Drive and 30th Street. It is currently functioning at its adopted plan ultimate classification. No sidewalks or curb are provided on the south side. East of Pershing Drive, Upas Street is lined with sidewalks and curbs with parallel parking available on both sides of the street. The posted speed limit is 25 mph. Between Alabama Street and Pershing Drive, Upas Street borders Balboa Park to the north. Upas Street is classified as a Class III bicycle facility. The City BMP proposes Upas Street as a Class II (Bike Lanes) facility between Alabama Street and 30th Street with the option of a Class III (Bike Route) facility between Alabama Street and Pershing Avenue. Upas Street west of Morley Field Drive and 30th Street, and as a Class III facility between 30th Street and Boundary Street.

Utah Street functions as a north-south 2-lane collector with bike lanes and a curb to curb width of 50 feet between Upas Street and Copley Avenue, with a 3-lane section between Lincoln Avenue and University Avenue. Its adopted plan ultimate classification is a 3-lane collector. Utah Street is lined with sidewalks and curbs with parking available on both sides of the street. Angle parking is available on the west side of the street between North Park Way and Gunn Street. Parallel parking is available along the other sections. The posted speed limit is 25 mph along Utah Street, except between University Avenue and El Cajon Boulevard where it increased to 30 mph.

GOLDEN HILL

25th **Street** functions as a north-south 4-lane collector with a curb to curb width of 60 feet between SR-94 and B Street, and a 2-lane collector with a center turn lane and a curb to curb width of 60 feet between B Street and Russ Boulevard. It is currently functioning at its adopted plan ultimate classification. 25th Street is lined with sidewalks and curbs with parallel parking available on both sides of the street. The posted speed limit is 25 mph. 25th Street provides access to SR-94 eastbound and also connects with Balboa Park to the north. The City BMP proposes 25th Street as a Class III (Bike Route) facility between Balboa Park and downtown with the option of a Class II (Bike Lanes) facility between Broadway and Market Street.

26th **Street** functions as a north-south 2-lane collector with a curb to curb width of 40 feet between F Street and Russ Boulevard. It is currently functioning at its adopted plan ultimate classification. 26th Street is lined with sidewalks and curbs with parallel parking available on both sides of the street. The posted speed limit is 25 mph.

28th Street functions as a north-south 2-lane collector with a curb to curb width of 50 feet between SR-94 and Russ Boulevard. Its adopted plan ultimate classification is a 3-lane collector between SR-94 and B Street. 28th Street is lined with sidewalks and curbs with parking available on both sides of the street. Angle parking is available on the east side of the street between A Street and B Street and on the west side of the street between C Street and Broadway. Parallel parking is available along other sections. The posted speed limit is 30 mph. 28th Street provides access to SR-94 eastbound and westbound. North of A Street, 28th Street serves as the eastern boundary of Balboa Park. 28th Street is classified as a Class III (Bike Route) facility south of Broadway. The City BMP proposes Class II (Bike Lane) between Broadway and SR-94, extending the 28th Street Class III (Bike Route) facility from Broadway north to Beech Street, and Class I (Bike Path) north of Beech Street.

30th **Street** functions as a north-south 2-lane collector with a curb to curb width of 40 feet between SR-94 and A Street where it changes name to Fern Street. 30th street picks up again offset one block to the west as a 2-lane collector with a curb to curb width of 50 feet. Its adopted plan ultimate classification has 30th Street as a 3-lane collector between SR-94 and C Street. It is lined with sidewalks and curbs with parking available on both sides of the street. Angle parking is available on the west side of the street between Newton Avenue and National Avenue, between Greely Avenue and Ocean View Boulevard, and between Grape Street and Hawthorn Street. Parallel parking is available along other sections. The posted speed limit is 30 mph. 30th Street is classified as a Class III bicycle facility. The City BMP proposes 30th Street as either a Class II (Bike Lanes) or Class III (Bike Route) facility north of Upas Street and a Class lii (Bike Route) south of Upass Street. 30th Street and Fern Street is the main roadway connecting the Golden Hill community with the North Park community.

31st **Street** functions as a north-south 2-lane collector with a curb to curb width of 40 feet between B Street and Cedar Street and between Grape Street and Juniper Street, and as a one-way southbound 1-lane collector with a curb to curb width of 25 feet between Grape Street and Cedar Street. It is currently functioning at its adopted plan ultimate classification. 31st Street is lined with sidewalks and curbs with parallel parking available on both sides of the street. The posted speed limit is 25 mph.

B Street functions as an east-west 4-lane collector with no center lane and a curb to curb width of 50 feet between I-5 and 20th Street, and as a 2-lane collector with a curb to curb width of 50 feet between 20th Street and 32nd Street. It is currently functioning at its adopted plan ultimate classification. B Street is lined with sidewalks and curbs with parallel parking available on both sides of the street. The posted speed limit is 30 mph. The City BMP proposes B Street as a Class III (Bike Route) facility between 19th Street and Fern Street and as a Class II (Bike Lanes) facility west of 19th Street. B Street provides access to I-5 and downtown San Diego.

Beech Street functions as an east-west 2-lane collector with a curb to curb width of 50 feet between 28th Street and Fern Street. It is currently functioning at its adopted plan ultimate classification. Beech Street is lined with sidewalks and curbs with parking available on both sides of the street. Angle parking is available on the south side of the street between Dale Street and 30th Street. Parallel parking is available along other sections. The posted speed limit is 30 mph. The City BMP proposes Beech Street as a Class III (Bike Route) facility between 28th Street and Edgemont Street.

Broadway functions as an east-west 2-lane collector with a two-way left-turn lane and a curb to curb width of 50 feet between 19th Street and 29th Street, and as a 2-lane collector with a curb to curb width of 50 feet east of 29th Street with widening by the SR-94 ramps. Its adopted plan ultimate classification would be a 4-lane major for the portion east of 30th Street. Broadway is lined with sidewalks and curbs with parallel parking available on both sides of the street. The posted speed limit is 25 mph. Broadway provides access to SR-94 and downtown San Diego. Broadway is classified as a Class III bicycle facility. The City BMP proposes Broadway Street as potentially being a Class II (Bike Lanes) facility between 19th Street and 22nd Street and between 28th Street and SR-94.

C Street functions as an east-west 2-lane collector with a two-way left-turn lane and a curb to curb width of 50 feet between I-5 and 29th Street, and as a 2-lane collector with a curb to curb width of 50 feet between 29th Street and Delevan Drive. Its adopted plan ultimate classification is a 2-lane collector. C Street is lined with sidewalks and curbs with parallel parking available on both sides of the street. The posted speed limit is 30 mph. The City BMP proposes C Street as a Class III (Bike Route) facility between 19th Street and Delevan Drive.

Cedar Street functions as an east-west 2-lane collector between Fern Street and Gregory Street. Cedar Street has a curb to curb width of 40 feet between Fern Street and Edgemont Street and 40 feet between Edgemont Street and Gregory Street. It is currently functioning at its adopted plan ultimate classification. The segment between 32nd Street and Gregory Street is not identified in the future classifications. Cedar Street is lined with sidewalks and curbs with parallel parking available on both sides of the street. The posted speed limit is 30 mph.

Fern Street functions as a north-south 2-lane collector with a curb to curb width of 40 feet between C Street and Juniper Street. Its adopted plan ultimate classification has Fern Street as a 3-lane collector between C Street and A Street. It is lined with sidewalks and curbs with parallel parking available on both sides of the street. The posted speed limit is 25 mph. The City BMP proposes Fern Street as a Class III (Bike Route) north of B Street, a Class II (Bike Lanes) between B Street and SR-94 with the option of a Class III (Bike Route) facility between Broadway and SR-94.

Grape Street functions as an east-west 2-lane collector between 28th Street and Marlton Drive. Grape Street has a curb to curb width of 50 feet between 28th Street and 31st Street and 40 feet between 31st Street and Marlton Drive. It is currently functioning at its adopted plan ultimate classification. Grape Street is lined with sidewalks and curbs with parking available on both sides of the street. The posted speed limit is 25 mph.

FREEWAYS

Interstate 5 is a significant north-south interstate that traverses the United States from the Mexico border to the Canadian border through the states of California, Oregon, and Washington. Within California, I-5 connects the following major metropolitan areas: San Diego, Los Angeles, Sacramento, and the eastern portion of the San Francisco Bay Area. I-5 can be directly accessed from the Uptown and Golden Hill communities and provides access to I-8, SR-163, and SR-94 within the vicinity of the study area.

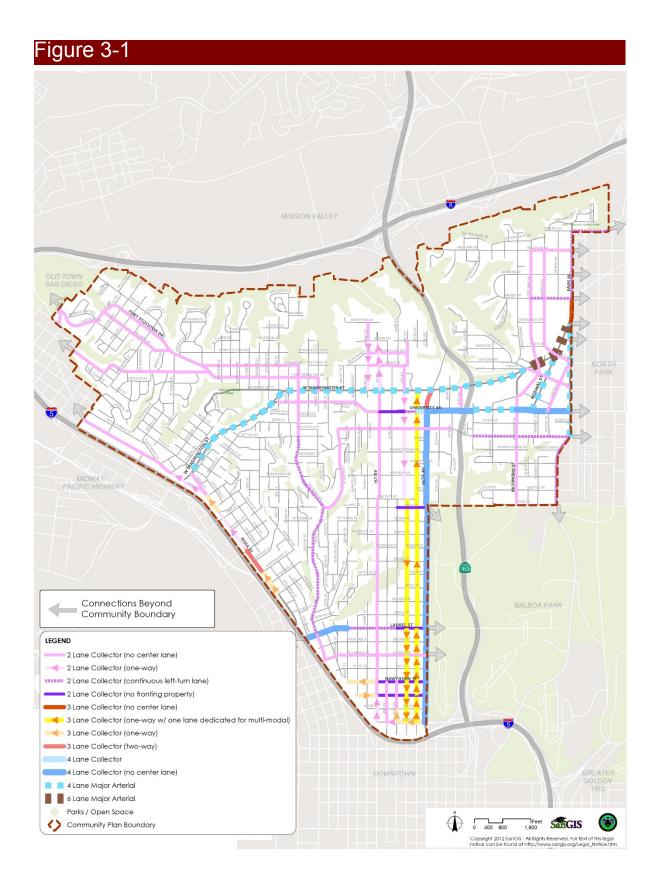
Interstate 8 is a significant east-west interstate that traverses from the western coast of San Diego to central Arizona. I-8 runs just north of the study communities, with direct access from Texas Street. I-8 provides connections with I-5, SR-163, and I-805 within the vicinity of the study area.

State Route 15 / **Interstate 15** is a significant north-south interstate that traverses from San Diego to Salt Lake City through the states of California, Nevada, and Utah. SR-15 can be accessed by SR-94 and I-805, but direct access is not provided from within the vicinity of the study area.

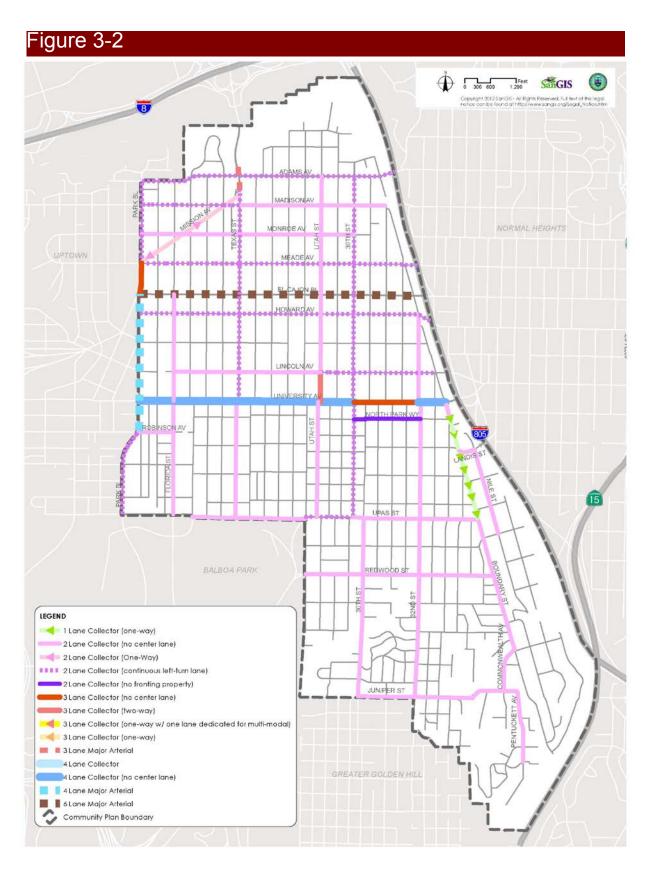
Interstate 805 is largely contained within the San Diego metropolitan area. Termini are both located along Interstate 5, one near the Mexico border and the other near the Torrey Pines State Reserve and the University of California at San Diego. I-805 can be directly accessed from the North Park community and provides connections with I-8, SR-94 and SR-15 within the vicinity of the study area.

State Route 94 connects San Diego with the rural areas east of San Diego. Termini are located at downtown San Diego and at I-8 near the community of Boulevard in southeastern San Diego County. SR-94 can be directly accessed from the Golden Hill community and provides connections with I-5, SR-15 and I-805 within the vicinity of the study area.

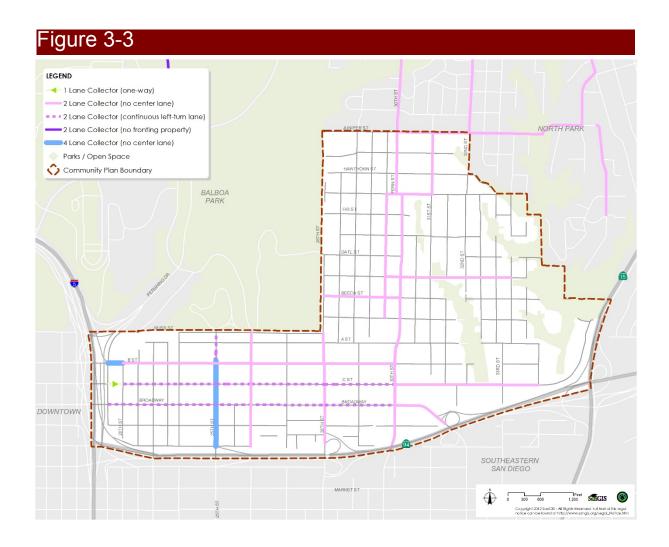
State Route 163 is contained within the San Diego metropolitan area. Termini are located along Interstate 5 near Balboa Park, and along I-15 near Miramar. SR-163 can be directly accessed from the Uptown and North Park communities and provides connections with I-8 and I-5 within the vicinity of the study area.



Existing Functional Street Classifications: Uptown



Existing Functional Street Classifications: North Park



Existing Functional Street Classifications: Golden Hill

3.2 TRAFFIC VOLUMES

The peak-hour intersection turning movements and roadway segment traffic data were obtained from several sources. Prior to data collection and in coordination with the City, the count data was compared against adjacent segments with more recent count data, if applicable, and volumes in the City's traffic model. At locations where volumes were determined to not be reasonable, whether new development has occurred or older count data was not similar enough to more recent count information in the area, new counts were obtained as part of the data collection process for this project. Where appropriate, traffic counts from previous studies were utilized, including the Hillcrest Mobility Study and University Avenue Mobility Plan. The City of San Diego also provided counts that they had performed in 2007 to calibrate their traffic planning model. The rest of the locations were counted by True Count in 2010 or were obtained through the latest City of San Diego traffic count database (2010).

In accordance with the City of San Diego *Traffic Impact Study Manual* (1998), traffic counts should be no greater than two years old. Therefore, since the counts were gathered between 2006 and 2010, validation was required to determine if the counts still represent current traffic conditions for this report. Consequently, the roadway segment ADT counts were compared to current (i.e., Year 2012 and 2013) City of San Diego and Caltrans machine counts available for the Cluster communities and adjacent freeway ramp facilities to determine if the counts included were still valid. It was concluded that traffic volumes for all three communities stayed within a 10-percent fluctuation and the volume counts originally collected were still valid for use. Thus, although count dates may not be consistent, the volumes provide a good representation of volumes for existing conditions for a planning level study.

The existing traffic volume data is contained in **Appendix C**. Since the count data was obtained more than two years ago, justification that the count data is still applicable is also provided in the appendix.

Figures 3-4, 3-5, 3-6, and **3-7** display the existing peak-hour traffic volumes at the study intersections for each community. **Figures 3-8, 3-9** and **3-10** illustrate the existing ADT volumes along the roadway segments in the study area for each community.

FIGURE 3-4							
1	372 / 363 399 / 394 Washington St	9 A A O Seign us 8	732 / 545 \$\tilde{0} \tag{732 / 545} \\ \$\tilde{0} \tag{651 / 573} \\ \text{Washington St} \\ \$\tilde{0} \tag{221 / 6} \\ \$\tilde{0} 221	4/27 Ø 4 10/85 %	0 / 9	4 4 605 607 102 149 607 111 113 116 607	S 120 / 61 ⇔ 1147 / 951 ⊵ 271 / 304 Washington St
l	0 / 116 1379 / 979 Washington St 0 / 988 0 / 0 88	## 6 77 2102 ⇔ 67 / 2102 ⇔ 67 / 216 ⇔	55/54 % % % % % % % % % % % % % % % % % % %	7 887 2073 A Surple ond 58 20 20 20 20 20 20 20 20 20 20 20 20 20	© 1409 / 761	8 8 10 10 10 10 10 10 10	\$ 11/11 \$ 25/23 \$ 285/116 \$ 1/2 Polk Ave
161 / 415	74 / 55 511 / 391 129 / 143 El Cajon Blvd	50 / 310 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	⇔ 42 / 416 ঐ 66 / 195 University Ave	11 9 8 4 4 4 4 4 4 4 4 7 9 5 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	258 / 248 641 / 630 University Ave 208 / 78 480 641 / 630	12 12 14 15 15 15 15 15 15 15 15 15 15 15 15 15	© 203 / 187 © 373 / 427 © 134 / 140 University Ave 4 / 7 4 / 7 4 / 8 6 / 8 / 8 6 / 9 / 8 6 / 9 / 8 6 / 9 / 8 6 / 9 / 9 / 8 6 / 9 / 9 / 9 / 9 / 9 / 9 / 9 / 9 / 9 /
49 / 145 Ø S 385 / 895 ⋈	16 / 23 604 / 585 179 / 108 University Ave	92 66 17 98 99 90 90 90 90 90 90 90 90 90 90 90 90	S 56 / 40 ⇔ 544 / 594 University Ave	15 7 15 15 15 15 15 15 1	97 / 81 480 / 420 110 / 79 University Ave	200 / 214	⇔ 151 / 265 № 76 / 73 Robinson Ave
17 Ave	66 / 106 228 / 231 Robinson Ave	8 86 /119 9 868 /823 7 1 /7 Sixth Ave	S 9 / 34 ⇔ 197 / 188 № 87 / 128 Robinson Ave	19 St India St	5 54 / 33 ⇔ 26 / 21 Vine St	\$ 332 / 271 \$ 1033 / 1459 \$ 117 / 223 Kettner Bivd	⇔ 118 / 60 № 144 / 89 Sassafras St
250 / 205	393 /707 🚓 79 /195 😘	150 / 145	2 / 1 % 506 / 738 \$\infty\$ 52 / 114 \$\infty\$		19 / 29 & 1192 / 1933 & 10 / 20 &	62 / 218	

UPTOWN

Legend

X/Y = AM/PM PEAK HOUR

TURNING VOLUMES



Existing Peak-Hour Intersection Volumes: Uptown

FIGURE 3	3-5						
84 / 285 Ø 14 / 43 ⇔ 81 / 114 %	Sassafras St Sassafras St 251, 1380 Sassafras St Sassafras St Sassafras St	22	28 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	23 86 / 88 86 / 88 86 / 88 86 / 88 86 / 88 86 / 88 86 / 88 86 / 88 86 / 88 86 / 88 86 86 86 86 86 86 86 86 86 86 86 86	⇔ 233 / 279 ঔ 58 / 41 Laurel St	137 / 214	\$ 54 / 78 \$ 195 / 335 Laurel St \$ 0 \$ 99 / 92 / 93 / 94 / 94 / 94 / 94 / 94 / 94 / 94
© 140 / 136 © 477 / 522 © 69 / 103 Sixth Ave	S 19 / 120 ⇔ 42 / 84 № 14 / 67 Laurel St	26 Rrant St 12 / 13	S 379 / 786 ⇔ 55 / 129 Hawthorn St	27 Samps	Grape St	Elist Ave	□ 76 / 18
128 / 236 Ø 97 / 306 ⇔ 55 / 117 ∖s	64 /81 2 326 /395 ÷ 26 /62 %		3 /2 & 0 /1 48 /108 &	44 / 23	49 /84 ↔		584 / 1368 % 140 / 219 % 33 / 45 %
\$ 84 / 38 \$ 620 \$ 88 / 620 \$ 88 / 620	□ 1082 / 356 □ 1200 / 398 □ 1166 / 468 Elm St	30	Cedar St				

UPTOWN

Legend

X/Y = AM / PM PEAK HOUR
TURNING VOLUMES



Existing Peak-Hour Intersection Volumes: Uptown (Cont.)

FIGURE 3	3-6						
8 40 /123 4 282 /857 6 59 /215 Texas St	S 386 / 195 ⇔ 39 / 54 ঐ 22 / 19 Madison Ave	35 73 /123 ÷ 151 /481 Ø 74 /272 Texas St	S 88 / 100 ⇔ 585 / 579 ≥ 44 / 66 El Cajon Blvd	33 45 /61 0 146 /302 0 107 /164 30th St	5 73 / 85 ⇔ 860 / 1083 ⊵ 71 / 192 El Cajon Blvd	2 357 / 793	⇔ 946 / 943
307 / 226	9 / 24 & 614 / 563 & 13 / 12 &	75 / 165	59 /41 & 265 /253 ÷ 20 /60 %	29 / 64 Ø 551 / 1151 ⇒ 41 / 94 ⊆	76 /101 & 146 /232 & 68 /136 &	716 / 1123 ⇔ 502 / 601 ∿	
35 Ramps	S 346 / 275 ⇔ 613 / 866 El Cajon Blvd	39 73 / 66 ÷ 55 / 136 ° 71 / 171 Texas St	S 48 / 62 ⇔ 434 / 490 № 9 / 12 University Ave	24 49 / 81 49 / 81 40 / 95 30th St	S 38 / 59 ⇔ 384 / 399 ≥ 109 / 141 University Ave	8 1/2 0 62/101 2 26/31 Boundary St	S 0 / 2 ⇔ 437 / 557 № 180 / 233 University Ave
513 / 265 Ø 341 / 1480 ⇔	519 / 333 & 1/1 & 1/1 & 102 / 260 &	58 / 87	67 /49 & 71 /135 \$\infty\$ 13 /32 \$\infty\$	67 / 98 Ø 365 / 538 ⇔ 39 / 69 ∿	65 /84 & 168 /306 & 101 /126 &	1 / 2	86 / 118 & 10 / 17 + 95 / 228 &
6 13 / 30 6 52 / 30 7 20 / 54 1-805 NB Ramps	S 8 / 17 ⇔ 290 / 372 № 265 / 159 University Ave	40 A 45 / 43 A 45 A	S 187 / 413 ⇔ 107 / 229 ⊵ 88 / 309 I-805 SB Ramps	s 157 / 159 2 127 / 307 30th St (W)	S 244 / 236 \$ 287 / 207 Upas St		
5 / 8 Ø 252 / 527 ⇔ 681 / 511 ∿	331 /382 & 85 /149 \$\to \tag{132 /223 \$\text{\$\}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}	107/238 \$ 50 56 6/17 \$ 50 56 56 56 56 56 56 56 56 56 56 56 56 56	76 /80 3	91 / 176	1/1 &		

NORTH PARK

Legend

X/Y = AM/PM PEAK HOUR
TURNING VOLUMES



Existing Peak-Hour Intersection Volumes: North Park

FIGURE 3-7			
42 88 88 89 45 89 40 89 45 89 40 89 45 89 40 80 80 80 80 80 80 80 80 80 80 80 80 80	43	44 75 No Orthorno 55	45 8 42 7 2 8 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
17th St	H5 NB Off- Ramp 813 / 426 Ø 21 / 38 Ø	2 / 0 Ø 8 9 Pt 7 8 8 7 / 17 / 17 \$ 7 / 19 8 9 Pt 7 8 8 9 Pt 7 8 8 9 Pt 7 8	326 / 754 ⇔ 129 / 289 %
46 08 498 498 498 498 498 498 498 498 498 49	47	48	49 88 81 / 153 8 81 / 153 8 8 6 / 73 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8
14/40 Ø S t Ø Ø 08/10/11/10/11/10/19/19/19/19/19/19/19/19/19/19/19/19/19/	83 / 90 🕁	2/2 \$\phi\$ \qquad \qquad \qquad \qquad \qquad \qquad \qquad \qquad \qquad \qqquad \qqqqq \qqqqqqqqqqqqqqqqqqqqqqqqqqqqq	161/168 ÷ 210/286 %
50	51	52 ts 52 H 64 H 75 H 7	25 / 265 / 388 2 217 / 369 2 25h St
142 /75 & 80 /76 +	130 /70 & 220 /196 ~	45 / 62 Ø ① ② ② ② ② ② ② ② ② ② ② ③ ② ③ ② ③ ③ ② ③ ②	41/63 & 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

GOLDEN HILL

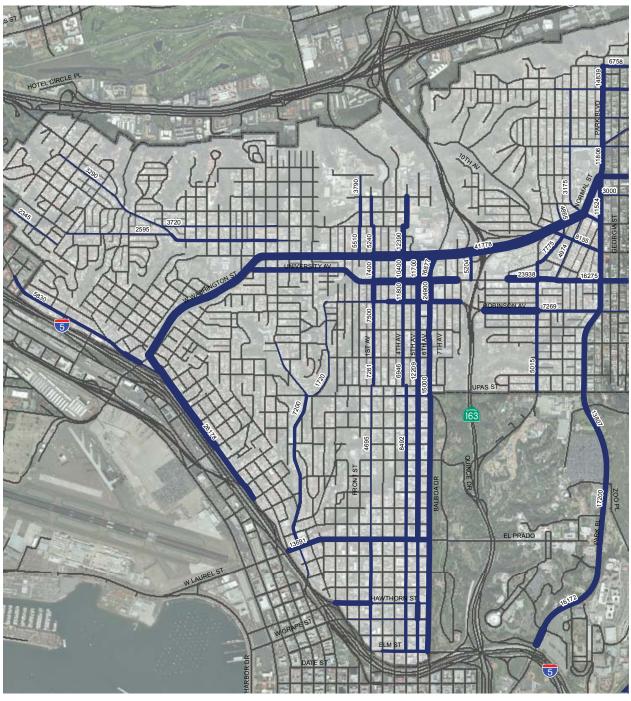
<u>Legend</u>

X/Y = AM/PM PEAK HOUR
TURNING VOLUMES



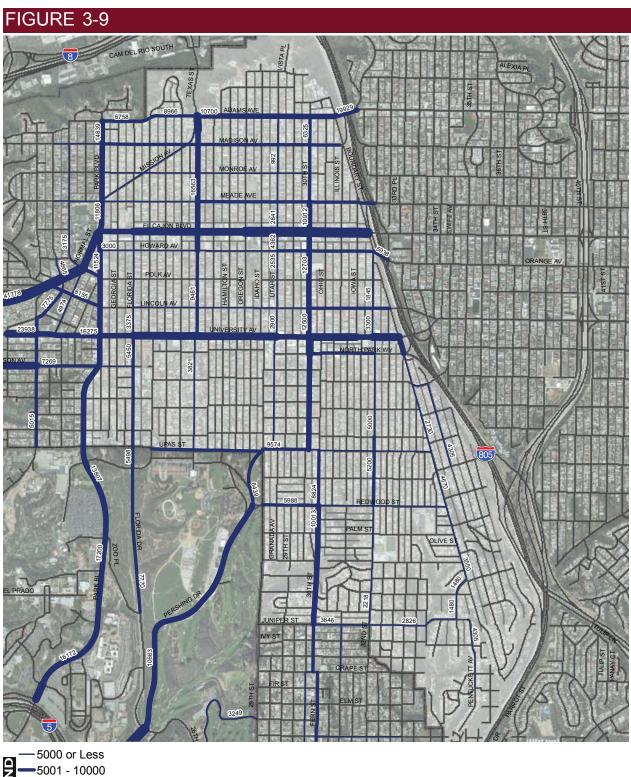
Existing Peak-Hour Intersection Volumes: Golden Hill

FIGURE 3-8



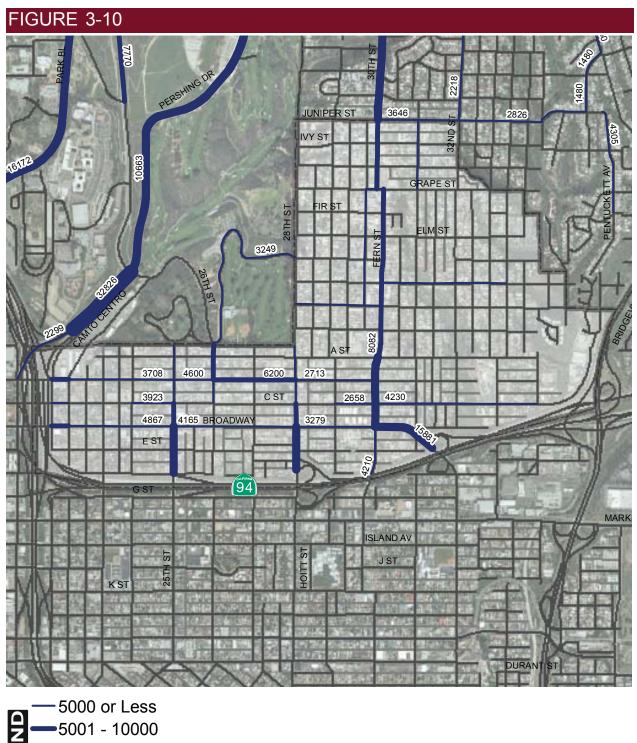
5000 or Less 5001 - 10000 10001 - 20000 20001 - 30000 Greater than 30000

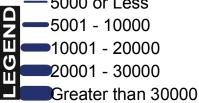
Existing Roadway Segment ADT Volumes: Uptown



5001 - 10000 10001 - 20000 20001 - 30000 Greater than 30000

Existing Roadway Segment ADT Volumes: North Park





Existing Roadway Segment ADT Volumes: Golden Hill

3.3 INTERSECTION ANALYSIS

Tables 3-1, 3-2 and 3-3 display the LOS analysis results for the study intersections under Existing Conditions. As shown in the table and figures, all intersections currently operate at LOS D or better during both peak periods, except for the following intersections:

UPTOWN

Washington Street & Eighth Ave/SR-163 Off-Ramp (LOS F – p.m. peak)

At the intersection of Washington Street and SR-163, the eastbound through volumes are over 2,100 during the p.m. peak period. The existing two eastbound lanes do not have the capacity to adequately handle this demand.

NORTH PARK

- Madison Avenue & Texas Street (LOS E a.m. peak)
- El Cajon Boulevard & Texas Street (LOS F p.m. peak)
- El Cajon Boulevard & I-805 SB Ramps (LOS F p.m. peak)
- University Avenue & Texas Street (LOS E p.m. peak)

At the intersection of Madison Avenue and Texas Street, there are 307 vehicles making the eastbound left turn movement from Madison Avenue to Texas Street in the a.m. peak, which is above the capacity of the single left turn lane that is provided.

At the intersection of El Cajon Boulevard and Texas Street, the southbound movement does not have adequate time to pass all the vehicles through the intersection given the existing timing plan. The southbound movement is split phased.

At the intersection of El Cajon Boulevard and I-805 SB Ramps, the poor LOS is primarily caused by the southbound right turn movement having to merge with traffic on El Cajon Boulevard. The southbound right turn movement has 793 vehicles during the p.m. peak trying to merge into the closest of three lanes that are carrying 943 westbound through vehicles. Delays at the merge point can affect the speeds on the ramp and the overall intersection operations.

At the intersection of University Avenue and Texas Street there is a pedestrian-only phase and split phasing for the northbound and southbound movements. There is a good amount of vehicles coming from all directions at this intersection and the timing cannot keep the delays down for every movement, especially when pedestrians are using the intersection frequently as well.

GOLDEN HILL

- B Street & 17th St/I-5 SB Off-Ramp (LOS F a.m. peak)
- SR-94 WB Ramps & Broadway (LOS F both peaks)
- SR-94 WB Ramps & 28th Street (LOS E a.m. peak, LOS F p.m. peak)
- SR-94 EB Ramps & 28th Street (LOS F p.m. peak)

At the intersection of B Street and I-5 Southbound Off-Ramp, vehicles looking to go through the intersection in the southbound direction have trouble finding gaps in traffic. During the a.m. peak, there are 1,159 vehicles in the westbound direction that the southbound through movement has to cross. Gaps are created briefly when the upstream traffic signal changes phases, but it does not provide enough gaps for all the vehicles to cross.

At the intersection of SR-94 Westbound Ramps and Broadway, the westbound left-turn movement from the off-ramp is stop-controlled while Broadway has free movements. These left turning vehicles have to wait for gaps in traffic along Broadway. Due to the volumes on Broadway, gaps are not provided often enough to operate at an adequate LOS during either peak-hour.

At the intersections of SR-94 Westbound Ramps and 28th Street and SR-94 Eastbound Ramps and 28th Street, the westbound left-turn movements from the off-ramps are stop-controlled while 28th Street has free movements. These left turning vehicles have to wait for gaps in traffic along 28th Street. Due to the volume on 28th Street, gaps are not provided often enough to operate at an adequate LOS during either peak-hour.

Appendix D contains the LOS calculation worksheets.

Table 3-1 Existing Conditions Summary of Intersection Analysis

				EXIS	ΓING
	INTERSECTION	TRAFFIC CONTROL	PEAK HOUR	DELAY (a)	LOS (b)
		UPT	OWN		
1	Washington St & Hancock St	Signal	AM	24.9	С
1	washington St & Hancock St	Sigilai	PM	28.2	С
2	Washington St & San Diego Ave	Signal	AM	19.7	В
	Washington St & San Diego Ave	Signai	PM	17.6	В
3	Washington St & India St	Signal	AM	11.7	В
	washington St & maia St	Signai	PM	14.2	В
4	Washington St & Fourth Ave	Signal	AM	25.2	С
	Washington St & Fourth 71VC	Signai	PM	37.3	D
5	Washington St & Fifth Ave	Signal	AM	15.2	В
	washington St & Thur Ave	Signai	PM	16.3	В
6	Washington St & Eighth Ave/SR-163 Off-	Signal	AM	42.6	D
	Ramp	Signai	PM	ECL	F
7	Washington St & Richmond St/SR-163	Signal	AM	18.6	В
′	On-Ramp	Signai	PM	13.2	В
8	Washington St/Normal St & Campus	Signal	AM	43.0	D
0	Ave/Polk Ave	Signai	PM	50.0	D
9	Normal St/El Cajon Blvd & Park Blvd	Signal	AM	25.2	С
,	INOTHIAI SVET CAJOH BIVU & FAIR BIVU	Signai	PM	34.3	C
10	University Ave & Fourth Ave	Signal	AM	29.1	C
10	Oliversity Ave & Pourtil Ave	Signai	PM	28.2	С
11	University Ave & Fifth Ave	Signal	AM	12.9	В
11	Oliversity Ave & Pitti Ave	Signai	PM	25.3	C
12	University Ave & Sixth Ave	Signal	AM	32.9	C
12	Olliversity Ave & Sixili Ave	Signai	PM	54.8	D
13	University Ave & Tenth St	Signal	AM	18.6	В
13	University Ave & Tenth St	Signai	PM	20.6	C
14	University Ave & Normal St	Signal	AM	5.6	A
14	Offiversity Ave & Normal St	Signai	PM	10.6	В
1.5	H	G: 1	AM	24.5	С
15	University Ave & Park Blvd	Signal	PM	39.4	D
		a: 1	AM	21.4	С
16	Robinson Ave & Fourth Ave	Signal	PM	18.4	В
			AM	10.8	В
17	Robinson Ave & Fifth Ave	Signal	PM	15.0	В
			AM	21.6	C
18	Robinson Ave & Sixth Ave	Signal	PM	27.6	C
			AM	5.6	A
19	Vine St & India St	Signal	PM	7.3	A
			AM	10.4	B
20	Sassafras St & Kettner Blvd	Signal			
			PM	12.5	В
21	Sassafras St & India St	Signal	AM	6.3	A
			PM	20.9	С

Bold values indicate intersections operating at LOS E or F.

K:\SND_TPTO\095240042\Excel\[240042IN01.xlsm]Existing

ECL = Exceeds Calculable Limit. Reported when delay exceeds 180 seconds.

(a) Delay refers to the average control delay for the entire intersection, measured in seconds per vehicle. At a one-way or two-way stop-controlled intersection, delay refers to the worst

⁽b) LOS calculations are based on the methodology outlined in the 2000 Highway Capacity Manual and performed using Synchro 7.0

Table 3-2 Existing Conditions Summary of Intersection Analysis (Cont.)

				EXIST	ΓING	
	INTERSECTION	TRAFFIC CONTROL	PEAK HOUR	DELAY (a)	LOS (b)	
		UPTOW	VN (cont.)			
22	Laurel St & India St/I-5 NB On-Ramp	Signal	AM	17.0	В	
22	Laurer St & Ilidia St/1-3 NB Oli-Rainp	Signai	PM	21.4	C	
23	Laurel St & Fourth Ave	Signal	AM	12.2	В	
	Laurer St & Fourth Ave	Signai	PM	14.9	В	
24	Laurel St & Fifth Ave	Signal	AM	12.3	В	
	Zamier St & Thursty	5.5	PM	12.7	В	
25	Laurel St & Sixth Ave	Signal	AM	13.7	В	
		8	PM	20.5	С	
26	Hawthorn St & Brant St	Two-Way Stop	AM	9.9	A	(SB R)
		, ,	PM	12.9	В	(SB R)
27	Grape St & State St	Signal	AM	15.7	В	
		-	PM	18.7	В	
28	Elm St & First Ave	Signal	AM	13.3	В	
			PM	21.6	С	
29	Elm St & Sixth Ave	Signal	AM	54.4	D	
			PM	14.8	В	
30	Cedar St & Second Ave	Two-Way Stop	AM	31.8	D	(SB R)
		Nonm	PM	18.0	С	(SB R)
		NORT	H PARK	77.4		
31	Madison Ave & Texas St	Signal	AM	77.4	<u>E</u>	
	1		PM	34.7	C	
32	El Cajon Blvd & Texas St	Signal	AM	35.9	D	
			PM	106.8	F	
33	El Cajon Blvd & 30th St	Signal	AM	26.0	C	
			PM	50.2	D	
34	El Cajon Blvd & I-805 SB Ramps	Signal	AM	18.4	В	
	<u> </u>		PM	80.9	F	
35	El Cajon Blvd & I-805 NB Ramps	Signal	AM	27.9	С	
			PM	19.2	В	
36	University Ave & Texas St	Signal	AM	19.5	В	
			PM	72.7	E	
37	University Ave & 30th St	Signal	AM	25.0	С	
			PM	49.2	D	
38	University Ave & Boundary St	Signal	AM	23.0	С	
			PM	42.1	D	
39	University Ave & I-805 NB Ramps	Signal	AM	29.0	C	
		~-8	PM	35.6	D	
40	North Park Way/I-805 SB Ramps &	All-Way Stop	AM	18.1	C	
	Boundary St/33rd St	· · y p	PM	10.6	В	

Bold values indicate intersections operating at LOS E or F.

K:\SND_TPTO\095240042_Future\[240042IN02_Future_Without Reduction.xlsm]Existing

ECL = Exceeds Calculable Limit. Reported when delay exceeds 180 seconds.

(a) Delay refers to the average control delay for the entire intersection, measured in seconds per vehicle. At a one-way or two-way stop-controlled intersection, delay refers to the worst movement.

⁽b) LOS calculations are based on the methodology outlined in the 2000 Highway Capacity Manual and performed using Synchro 7.0

Table 3-3 Existing Conditions Summary of Intersection Analysis (Cont.)

				EXIS	TING	
	INTERSECTION	TRAFFIC CONTROL	PEAK HOUR	DELAY (a)	LOS (b)	
		NORTH PA	ARK (cont.)			
41	Upas St & 30th St (W)	All-Way Stop	AM	24.4	С	
71	opas St & John St (W)	All-Way Stop	PM	25.9	D	
		GOLDE	N HILL			
42	B St & 17th St/I-5 SB Off-Ramp	One-Way Stop	AM	130.7	F	(SB TR
	B St & 17th St 13 SB Off Ramp	One way stop	PM	29.3	D	(SB TR
43	B St & I-5 NB Off-Ramp	No Conflicting	AM	N/A	N/A	
-13	B St & 13 11B OH Talling	Movements	PM	N/A	N/A	
44	B St & 19th St/I-5 NB On-Ramp	Signal	AM	9.4	A	
	B St & 17th St 1-5 11B Sh-Ramp	Signai	PM	6.8	A	
45	C St & 17 St	One-Way Stop	AM	13.7	В	(SB TR
43	C St & 17 St	One-way Stop	PM	23.3	C	(SB TR
46	Broadway & 30th St	Signal -	AM	14.2	В	
40	Bloadway & Soul St	Signai	PM	11.9	В	
47	SR-94 WB Ramps & Broadway	One-Way Stop	AM	63.0	F	(WB L
47	SK-94 WB Ramps & Bloadway	Olie-way Stop	PM	55.3	F	(WB L
48	SR-94 WB Ramps & 28th St	Two-Way Stop	AM	46.6	E ((WB LT
40	SK-94 WB Ramps & Zour St	Two-way Stop	PM	370.9	F ((WB LT
49	SR-94 EB Ramps & 28th St	One-Way Stop	AM	26.7	D	(WB L
47	SK-94 EB Ramps & 28m St	Olie-way Stop	PM	507.0	F	(WB L
50	F St & 22nd St	All-Way Stop	AM	13.6	В	
30	r St & 22lld St	All-way Stop	PM	8.6	A	
51	F. G. 9. 25.1 G.	A 11 XX C.	AM	20.8	С	
31	F St & 25th St	All-Way Stop	PM	16.2	С	
52	G St & 22nd St	A 11 XV C4	AM	9.6	A	_
32	G St & 22fld St	All-Way Stop	PM	9.4	A	
52	C C4 8- 2541 C4	A 11 XV C4	AM	12.4	В	
53	G St & 25th St	All-Way Stop	PM	16.0	С	

Bold values indicate intersections operating at LOS E or F.

K:\SND_TPTO\095240042_Future\[240042IN02_Future_Without Reduction.xlsm]Existing

ECL = Exceeds Calculable Limit. Reported when delay exceeds 180 seconds.

(a) Delay refers to the average control delay for the entire intersection, measured in seconds per vehicle. At a one-way or two-way stop-controlled intersection, delay refers to the worst movement.

⁽b) LOS calculations are based on the methodology outlined in the 2000 Highway Capacity Manual and performed using Synchro 7.0

3.4 ROADWAY SEGMENT ANALYSIS

Tables 3-4 through 3-10 display the roadway segments analysis under Existing Conditions for a typical weekday. As shown in the table, based on planning-level analysis using ADT volumes, it is estimated that all roadway segments function at an acceptable LOS D or better in the study area, except for the following segments. The segments listed below have volumes near or above their existing capacity, resulting in periods of congestion.

UPTOWN

- First Avenue between Washington Avenue and University Avenue (LOS E)
- First Avenue between University Avenue and Robinson Avenue (LOS F)
- First Avenue between Robinson Avenue and Pennsylvania Avenue (LOS E)
- First Avenue between Pennsylvania Avenue and Walnut Avenue (LOS E)
- First Avenue between Laurel Street and Hawthorn Street (LOS E)
- Fourth Avenue between Arbor Drive and Washington Avenue (LOS F)
- Sixth Avenue between University Avenue and Robinson Avenue (LOS F)
- Sixth Avenue between Robinson Avenue and Upas Street (LOS F)
- Sixth Avenue between Upas Street and Laurel Street (LOS F)
- Cleveland Avenue between Lincoln Street and Richmond Street (LOS E)
- Fort Stockton Drive between Hawk Street and Goldfinch Street (LOS F)
- India Street between Glenwood Drive and Sassafras Street (LOS F)
- India Street between Sassafras Street and Redwood Street (LOS E)
- Laurel Street between Columbia Street and Union Street (LOS E)
- Lincoln Avenue between Washington Street and Park Boulevard (LOS F)
- Park Boulevard between Adams Avenue and Mission Avenue (LOS E)
- Park Boulevard between Mission Avenue and El Cajon Boulevard (LOS F)
- Richmond Street between Cleveland Avenue and University Avenue (LOS E)
- Robinson Avenue between Third Avenue and Eighth Avenue (LOS F)
- University Avenue between Ibis Street and Albatross Street (LOS F)
- University Avenue between Albatross Street and First Avenue (LOS F)
- University Avenue between First Avenue and Fourth Avenue (LOS F)
- University Avenue between Fourth Avenue and Fifth Avenue (LOS F)
- University Avenue between Sixth Avenue and Eighth Avenue (LOS F)
- University Avenue between Normal Street and Park Boulevard (LOS F)
- Washington Street between Fifth Avenue and Sixth Avenue (LOS E)
- Washington Street between Sixth Avenue and Richmond Street (LOS F)

NORTH PARK

- 30th Street between Upas Street and Redwood Street (LOS F)
- 30th Street between Redwood Street and Juniper Street (LOS F)
- 32nd Street between Myrtle Avenue and Upas Street (LOS E)
- Adams Avenue between 30th Street and West Mountain View Drive (LOS F)
- Boundary Street between University Avenue and North Park Way (LOS F)
- El Cajon Boulevard between Illinois Street and I-805 Ramps (LOS E)
- Texas Street between Adams Avenue and Mission Avenue (LOS E)
- Texas Street between Mission Avenue and El Cajon Boulevard (LOS F)
- University Avenue between Park Boulevard and Florida Street (LOS F)
- University Avenue between Florida Street and Texas Street (LOS F)

- University Avenue between Texas Street and Oregon Street (LOS F)
- University Avenue between Oregon Street and Utah Street (LOS F)
- University Avenue between Utah Street and 30th Street (LOS F)
- University Avenue between 30th Street and Illinois Street (LOS F)
- University Avenue between Illinois Street and Iowa Street (LOS F)
- University Avenue between Iowa Street and 32nd Street (LOS F)
- University Avenue between 32nd Street and Boundary Street (LOS F)
- Upas Street between Alabama Street and Texas Street (LOS E)
- Upas Street between Texas Street and Pershing Road (LOS E)

GOLDEN HILL

- 26th Street between Russ Boulevard and B Street (LOS F)
- 28th Street between C Street and Broadway (LOS F)
- 28th Street between Broadway and SR-94 (LOS F)
- 30th Street between A Street and Broadway (LOS F)
- Broadway between 30th Street and SR-94 (LOS F)
- Fern Street between Juniper Street and Grape Street (LOS F)
- Fern Street between Grape Street and A Street (LOS F)

Table 3-4 Existing Conditions Roadway Segment LOS Summary

ROADWAY SEGMENT	ROADWAY FUNCTIONAL CLASSIFICATION	LOS E CAPACITY	ADT	V/C RATIO (a)	LOS
	UPTOWN				
First Ave					
Arbor Dr to Washington St	2 Lane Collector (one-way)	17,500	5,240	0.299	A
Washington St to University Ave	2 Lane Collector (no center lane)	8,000	7,400	0.925	Е
University Ave to Robinson Ave	2 Lane Collector (no center lane)	8,000	10,100	1.263	F
Robinson Ave to Pennsylvania Ave	2 Lane Collector (no center lane)	8,000	7,500	0.938	Е
Pennsylvania Ave to Walnut Ave	2 Lane Collector (no center lane)	8,000	7,261	0.908	Е
Walnut Ave to Laurel St	2 Lane Collector (no center lane)	8,000	4,695	0.587	С
Laurel St to Hawthorn St	2 Lane Collector (no center lane)	8,000	7,290	0.911	E
Hawthorn St to Grape St	2 Lane Collector (no center lane)	8,000	3,810	0.476	C
Grape St to Elm St	2 Lane Collector (one-way)	17,500	3,285	0.188	A
Fourth Ave	2 Dane Contestor (one way)	17,500	3,200	0.100	
Arbor Dr to Washington St	2 Lane Collector (no center lane)	8,000	12,390	1.549	F
Washington St to University Ave	2 Lane Collector (no center rane) 2 Lane Collector (one-way)	17,500	10,400	0.594	C
University Ave to Robinson Ave	2 Lane Collector (one-way) 2 Lane Collector (one-way)	17,500	11,800	0.594	C
•		· · ·		0.674	A
Robinson Ave to Walnut Ave	2 Lane Collector (one-way)	17,500	6,946	0.397	B B
Walnut Ave to Laurel St	3 Lane Collector (one-way w/ one lane dedicated for multi-modal)	17,500	8,492		
Laurel St to Grape St	3 Lane Collector (one-way w/ one lane dedicated for multi-modal)	17,500	7,790	0.445	В
Grape St to Elm St	3 Lane Collector (one-way w/ one lane dedicated for multi-modal)	17,500	7,570	0.433	В
Fifth Ave				0.00	
Washington St to University Ave	3 Lane Collector (one-way w/ one lane dedicated for multi-modal)	17,500	11,700	0.669	C
University Ave to Robinson Ave	3 Lane Collector (one-way w/ one lane dedicated for multi-modal)	17,500	10,300	0.589	С
Robinson Ave to Walnut Ave	3 Lane Collector (one-way w/ one lane dedicated for multi-modal)	17,500	12,209	0.698	C
Walnut Ave to Laurel St	3 Lane Collector (one-way w/ one lane dedicated for multi-modal)	17,500	11,400	0.651	C
Laurel St to Hawthorn St	3 Lane Collector (one-way w/ one lane dedicated for multi-modal)	17,500	9,260	0.529	В
Hawthorn St to Grape St	3 Lane Collector (one-way w/ one lane dedicated for multi-modal)	17,500	10,045	0.574	C
Grape St to Elm St	3 Lane Collector (one-way w/ one lane dedicated for multi-modal)	17,500	9,220	0.527	В
Sixth Ave		T			
Washington St to University Ave	4 Lane Collector (no center lane)	15,000	16,877	0.844	D
University Ave to Robinson Ave	4 Lane Collector (no center lane)	15,000	24,900	1.660	F
Robinson Ave to Upas St	4 Lane Collector (no center lane)	15,000	15,000	1.000	F
Upas St to Laurel St	4 Lane Collector (no center lane)	15,000	15,128	1.009	F
Laurel St to Juniper St	3 Lane Collector (no center lane)	15,000	10,140	0.676	D
Juniper St to Grape St	3 Lane Collector (no center lane)	15,000	10,915	0.728	D
Grape St to Elm St	3 Lane Collector (no center lane)	15,000	10,650	0.710	D
Ninth Ave					
Washington St to University Ave	2 Lane Collector (no center lane)	8,000	5,204	0.651	D
Campus Ave/Polk Ave	, ,		,	,	
Madison Ave to Washington St	2 Lane Collector (no center lane)	8,000	3,175	0.397	В
Washington St to Park Blvd	2 Lane Collector (no center lane)	8,000	5,610	0.701	D
Cleveland Ave		5,000	-,	******	
Tyler St to Lincoln Ave	2 Lane Collector (no center lane)	8,000	4,865	0.608	С
Lincoln Ave to Richmond St	2 Lane Collector (no center lane)	8,000	7,775	0.972	E
Curlew St	2 Lane concerts (no center rane)	0,000	1,113	0.712	
Robinson Ave to Reynard Wy	2 Lane Collector (no center lane)	8,000	1,720	0.215	A
	2 Lane Concetor (no tenter rane)	5,000	1,720	0.213	А
Elm St	2 Long Collector (con cons)	17 500	7 000	0.451	ъ
Second Ave to Third Ave	2 Lane Collector (one-way)	17,500	7,889	0.451	B
Third Ave to Fifth Ave Fifth Ave to Sixth Ave	3 Lane Collector (one-way) 3 Lane Collector (one-way)	26,000	8,179	0.315 0.258	A
		26,000	6,720		A

Capacity for non-standard roadway classifications were provided by City of San Diego staff.

(a) The v/c Ratio is calculated by dividing the ADT volume by each respective roadway segment's capacity.

 Table 3-5
 Existing Conditions Roadway Segment LOS Summary (cont.)

ROADWAY SEGMENT	ROADWAY FUNCTIONAL CLASSIFICATION	LOS E CAPACITY	ADT	V/C RATIO (a)	LOS
	UPTOWN				
Fort Stockton Dr					
Arista St to Sunset Blvd	2 Lane Collector (no center lane)	8,000	3,290	0.411	В
Sunset Blvd to Hawk St	2 Lane Collector (no center lane)	8,000	6,100	0.763	D
Hawk St to Goldfinch St	2 Lane Collector (no center lane)	8,000	8,450	1.056	F
Goldfinch St to Falcon St	2 Lane Collector (no center lane)	8,000	2,910	0.364	В
Front St					
Dickinson St to Arbor Dr	2 Lane Collector (no center lane)	8,000	3,790	0.474	С
Arbor Dr to Washington St	2 Lane Collector (one-way)	17,500	5,510	0.315	A
Grape St					
Albatross St to First Ave	3 Lane Collector (one-way)	26,000	2,082	0.080	A
First Ave to Third Ave	2 Lane Collector (no center lane)	8,000	4,289	0.536	С
Third Ave to Sixth Ave	2 Lane Collector (no center lane)	8,000	2,097	0.262	A
Hawthorn St					
Brant St to First Ave	3 Lane Collector (one-way)	26,000	11,558	0.445	В
First Ave to Third Ave	2 Lane Collector (no center lane)	8,000	3,634	0.454	С
Third Ave to Sixth Ave	2 Lane Collector (no center lane)	8,000	3,577	0.447	С
India St					
Winder St to Glenwood Dr	3 Lane Collector (one-way)	26,000	8,345	0.321	A
Glenwood Dr to Sassafrass St	2 Lane Collector (one-way)	17,500	26,178	1.496	F
Sassafras St to Redwood St	3 Lane Collector (two-way)	20,000	18,676	0.934	E
Redwood St to Palm St	3 Lane Collector (one-way)	26,000	16,705	0.643	С
Juan St					
Harney St to Witherby St	2 Lane Collector (no center lane)	8,000	2,345	0.293	A
Laurel St					
Columbia St to Union St	4 Lane Collector (no center lane)	15,000	13,691	0.913	E
Union St to First Ave	2 Lane Collector (continuous left-turn lane)	15,000	11,128	0.742	D
First Ave to Third Ave	2 Lane Collector (continuous left-turn lane)	15,000	11,326	0.755	D
Third Ave to Sixth Ave	2 Lane Collector (continuous left-turn lane)	15,000	11,516	0.768	D
Lewis St					
Fort Stockton Dr to Goldfinch St	2 Lane Collector (no center lane)	8,000	3,720	0.465	C
Lincoln Ave					
Washington St to Park Blvd	2 Lane Collector (no center lane)	8,000	8,155	1.019	F
Madison Ave					
Cleveland Ave to Park Blvd	2 Lane Collector (no center lane)	8,000	3,750	0.469	C
Meade Ave					
Cleveland Ave to Park Blvd	2 Lane Collector (continuous left-turn lane)	15,000	3,290	0.219	A
Normal St					
Park Blvd to Washington St	6 Lane Major Arterial	50,000	22,296	0.446	В
Washington St to University Ave	4 Lane Major Arterial	40,000	4,974	0.124	A
Notes: Bold values indicate roadway segments or	<u> </u>	,			

Bold values indicate roadway segments operating at LOS E or F. Capacity for non-standard roadway classifications were provided by City of San Diego staff.

 Table 3-6
 Existing Conditions Roadway Segment LOS Summary (cont.)

ROADWAY SEGMENT	ROADWAY FUNCTIONAL CLASSIFICATION	LOS E CAPACITY	ADT	V/C RATIO (a)	LOS
	UPTOWN				
Park Blvd					
Adams Ave to Mission Ave	2 Lane Collector (continuous left-turn lane)	15,000	14,839	0.989	E
Mission Ave to El Cajon Blvd	3 Lane Collector (no center lane)	11,500	11,806	1.027	F
El Cajon Blvd to Polk Ave	4 Lane Major Arterial	40,000	11,524	0.288	A
Polk Ave to University Ave	4 Lane Major Arterial	40,000	13,936	0.348	A
University Ave to Robinson Ave	4 Lane Major Arterial	40,000	14,400	0.360	A
Robinson Ave to Upas St	2 Lane Collector (continuous left-turn lane)	15,000	12,501	0.833	D
Upas St to Zoo Pl	4 Lane Major Arterial	40,000	13,807	0.345	A
Reynard Wy	2				
Torrance St to Curlew St	2 Lane Collector (continuous left-turn lane)	15,000	1,955	0.130	A
Curlew St to Laurel St	2 Lane Collector (continuous left-turn lane)	15,000	7,200	0.480	С
Richmond St	, , , , , , , , , , , , , , , , , , ,				
Cleveland Ave to University Ave	2 Lane Collector (no center lane)	8,000	7,085	0.886	E
University Ave to Robinson Ave	2 Lane Collector (no center lane)	8,000	5,345	0.668	D
Robinson Ave to Upas St	2 Lane Collector (no center lane)	8,000	5,015	0.627	D
Robinson Ave	2 Earle Concetor (no conter tane)	0,000	3,013	0.027	ь
Brant St to First Ave	2 Lane Collector (no center lane)	8,000	1,995	0.249	A
First Ave to Third Ave	2 Lane Collector (no center lane)	8,000	5,800	0.725	D
Third Ave to Eighth Ave	2 Lane Collector (no center lane)	8,000	11,022	1.378	F
Tenth Ave to Richmond St	2 Lane Collector (continuous left-turn lane)	15,000	10,120	0.675	D
	· · · · · · · · · · · · · · · · · · ·				C
Richmond St to Park Blvd	2 Lane Collector (continuous left-turn lane)	15,000	7,269	0.485	<u> </u>
San Diego Ave	2 Lane Collector (no center lane)	9,000	5.020	0.720	D.
Hortensia St to Pringle St		8,000	5,830	0.729	D
McKee St to Washington St	3 Lane Collector (one-way)	26,000	13,920	0.535	В
Washington St to India St	2 Lane Collector (one-way)	17,500	4,920	0.281	A
State St	21 and Calleston (no control land)	8,000	4.140	0.510	С.
Laurel St to Juniper St	2 Lane Collector (no center lane)	8,000	4,140	0.518	С
Sunset Blvd	21 (21)	0.000	2.505	0.224	
Witherby St to Fort Stockton Dr	2 Lane Collector (no center lane)	8,000	2,595	0.324	В
University Ave	AY (1 .)	0.000	10.525	1016	
Ibis St to Albatross St	2 Lane Collector (no center lane)	8,000	10,527	1.316	F
Albatross St to First Ave	2 Lane Collector (no center lane)	8,000	16,851	2.106	F
First Ave to Fourth Ave	2 Lane Collector (no fronting property)	10,000	11,750	1.175	F
Fourth Ave to Fifth Ave	2 Lane Collector (continuous left-turn lane)	15,000	20,250	1.350	<u>F</u>
Fifth Ave to Sixth Ave	4 Lane Collector	30,000	21,184	0.706	D
Sixth Ave to Eighth Ave	4 Lane Collector (no center lane)	15,000	24,400	1.627	F
Vermont St to Normal St	4 Lane Major Arterial	40,000	23,938	0.598	C
Normal St to Park Blvd	4 Lane Collector (no center lane)	15,000	16,275	1.085	F
Upas St					
Third Ave to Sixth Ave	2 Lane Collector (no fronting property)	10,000	4,475	0.448	В
Washington St		1	1	ı	
India St to University Ave	4 Lane Major Arterial	40,000	27,929	0.698	С
University Ave to First Ave	4 Lane Major Arterial	40,000	20,477	0.512	В
First Ave to Fourth Ave	4 Lane Major Arterial	40,000	25,745	0.644	С
Fourth Ave to Fifth Ave	4 Lane Major Arterial	40,000	30,900	0.773	D
Fifth Ave to Sixth Ave	4 Lane Major Arterial	40,000	38,428	0.961	E
Sixth Ave to Richmond St	4 Lane Major Arterial	40,000	41,778	1.044	F
Richmond St to Normal St	6 Lane Major Arterial	50,000	38,725	0.775	C
Notes:					

Bold values indicate roadway segments operating at LOS E or F.

 $Capacity\ for\ non-standard\ roadway\ classifications\ were\ provided\ by\ City\ of\ San\ Diego\ staff.$

Table 3-7 Existing Conditions Roadway Segment LOS Summary (cont.)

NORTH PARK STATE STATE	1 45.0 0 1	LXISTING CONDITIONS INDAGWAY SEGMENT L	- Carrina	y (0011t.	<u>/</u>	-
Adam Ave to Meade Ave	ROADWAY SEGMENT	ROADWAY FUNCTIONAL CLASSIFICATION		ADT		LOS
Adam Ave to Metale Ave		NORTH PARK				
Mende Ave to El Cajon Blvd	30th St					
El Cajon Blvd to Howard Ave	Adams Ave to Meade Ave	2 Lane Collector (continuous left-turn lane)	15,000	6,325	0.422	В
Howard Ave to Lincoln Ave 2 Lanc Collector (continuous left-turn lane) 15,000 12,200 0,347 D	Meade Ave to El Cajon Blvd	2 Lane Collector (continuous left-turn lane)	15,000	10,912	0.727	D
Howard Ave to Lincoln Ave 2 Lanc Collector (continuous left-turn lane) 15,000 12,200 0,347 D	El Cajon Blvd to Howard Ave	2 Lane Collector (continuous left-turn lane)	15,000	12,684	0.846	D
Lincoln Ave to University Ave 2 Lane Collector (continuous left-turn lane) 15,000 12,200 0.833 D		· · · · · · · · · · · · · · · · · · ·	1		0.847	D
University Ave to North Park Way 2 Lane Collector (continuous left-turn lane) 15,000 12,150 0.810 D North Park Way Ave to Upas St 2 Lane Collector (no center lane) 8,000 12,241 0.816 D Dups St to Redwood St 2 Lane Collector (no center lane) 8,000 10,013 1.252 F Redwood St to Juniper St 2 Lane Collector (no center lane) 8,000 10,013 1.252 F Redwood St to Juniper St 2 Lane Collector (no center lane) 8,000 1,845 0.231 A Lincoln Ave to University Ave 2 Lane Collector (no center lane) 8,000 3,300 0.625 D University Ave to Myrtle Ave 2 Lane Collector (no center lane) 8,000 3,300 0.625 D Myrtle Ave to Upas St 2 Lane Collector (no center lane) 8,000 6,985 0.873 E Redwood St to Juniper St 2 Lane Collector (no center lane) 8,000 6,985 0.873 E Redwood St to Juniper St 2 Lane Collector (no center lane) 8,000 6,985 0.873 E Redwood St to Juniper St 2 Lane Collector (no center lane) 8,000 6,985 0.873 E Park Blvd o Alabama St 2 Lane Collector (no center lane) 8,000 2,218 0.277 A Adams Ave			1		1	
North Park Way Ave to Upas St			1		1	
Upas St to Redwood St 2 Lane Collector (no center lane)	·	, , , , , , , , , , , , , , , , , , , ,				
Redwood St to Juniper St 2 Lane Collector (no center lane)		· · · · · · · · · · · · · · · · · · ·			1	
Howard Ave to Lincoln Ave 2 Lane Collector (no center lane)	1	· · · · · · · · · · · · · · · · · · ·				
Howard Ave to Lincoln Ave 2 Lane Collector (no center lane)		2 Danie Contesto: (13)	V,	10,000		
Lincoln Ave to University Ave 2 Lane Collector (no center lane)		2 Lane Collector (no center lane)	8.000	1 845	0.231	A
University Ave to Myrtle Ave 2 Lane Collector (no center lane)		· · ·			1	
Myrtle Ave to Upas St						
Upas St St to Redwood St		· · · · · · · · · · · · · · · · · · ·			1	
Redwood St to Juniper St		· · · · · · · · · · · · · · · · · · ·			1	
Adams Ave	•				1	
Park Blvd to Alabama St		2 Lane Collector (no center lane)	8,000	2,210	0.277	A
Alabama St to Texas St 2 Lane Collector (continuous left-turn lane) 15,000 8,966 0.598 C Texas St to 30th St 2 Lane Collector (continuous left-turn lane) 15,000 10,700 0.713 D 30th St to W Mountain View Dr 2 Lane Collector (continuous left-turn lane) 15,000 19,929 1.329 F	1	2 I C-II (15,000	C 750	0.451	D
Texas St to 30th St 2 Lane Collector (continuous left-turn lane) 15,000 10,700 0.713 D 30th St to W Mountain View Dr 2 Lane Collector (continuous left-turn lane) 15,000 19,929 1.329 F F F F F F F F F		· · · · · · · · · · · · · · · · · · ·	1		1	
30th St to W Mountain View Dr 2 Lane Collector (continuous left-turn lane) 15,000 19,929 1.329 F			1		1	
Boundary St			1		1	
University Ave to North Park Way		2 Lane Collector (continuous left-turn lane)	15,000	19,929	1.329	F
North Park Way to Myrtle Ave 1 Lane Collector (one-way) 7,500 2,730 0.364 B					1	
Myrtle Ave to Redwood St 2 Lane Collector (no center lane) 8,000 4,670 0.584 C		· · · · · · · · · · · · · · · · · · ·			1	
Redwood St to Commonwealth Ave 2 Lane Collector (no center lane) 8,000 3,550 0.444 C Commonwealth Ave		• • • • • • • • • • • • • • • • • • • •	- '			
Boundary St to Juniper St 2 Lane Collector (no center lane) 8,000 1,480 0.185 A	· ·	· · · · · · · · · · · · · · · · · · ·		4,670	1	
Boundary St to Juniper St 2 Lane Collector (no center lane) 8,000 1,480 0.185 A		2 Lane Collector (no center lane)	8,000	3,550	0.444	C
Park Blvd to Florida St 6 Lane Major Arterial 50,000 19,407 0.388 A	Commonwealth Ave				т	
Park Blvd to Florida St 6 Lane Major Arterial 50,000 19,407 0.388 A Florida St to Texas St 6 Lane Major Arterial 50,000 23,366 0.467 B Texas St to Oregon St 6 Lane Major Arterial 50,000 24,479 0.490 B Oregon St to Utah St 6 Lane Major Arterial 50,000 32,468 0.649 C Utah St to 30th St 6 Lane Major Arterial 50,000 32,191 0.644 C 30th St to Illinois St 6 Lane Major Arterial 50,000 39,116 0.782 C Illinois St to I-805 Ramps 6 Lane Major Arterial 50,000 39,116 0.782 C Illinois St to I-805 Ramps 6 Lane Major Arterial 50,000 39,116 0.782 C Illinois St to I-805 Ramps 6 Lane Major Arterial 50,000 39,116 0.782 C Illinois St to I-805 Ramps 6 Lane Collector (no center lane) 8,000 3,375 0.422 B El Cajon Blvd to University Ave 2 Lane Collector (no center lane) 8,000	Boundary St to Juniper St	2 Lane Collector (no center lane)	8,000	1,480	0.185	A
Florida St to Texas St	El Cajon Blvd				, 	
Texas St to Oregon St 6 Lane Major Arterial 50,000 24,479 0.490 B Oregon St to Utah St 6 Lane Major Arterial 50,000 32,468 0.649 C Utah St to 30th St 6 Lane Major Arterial 50,000 32,191 0.644 C 30th St to Illinois St 6 Lane Major Arterial 50,000 39,116 0.782 C Illinois St to I-805 Ramps 6 Lane Major Arterial 50,000 46,062 0.921 E Florida St El Cajon Blvd to University Ave 2 Lane Collector (no center lane) 8,000 3,375 0.422 B University Ave to Robinson Ave 2 Lane Collector (no center lane) 8,000 5,450 0.681 D Robinson Ave to Upas St 2 Lane Collector (no center lane) 8,000 5,600 0.700 D Florida Dr Upas St to Morley Field Dr 2 Lane Collector (no fronting property) 10,000 5,498 0.550 B Howard Ave Park Blvd to Florida St 2 Lane Collector (continuous left-turn lane) <td>Park Blvd to Florida St</td> <td>6 Lane Major Arterial</td> <td>50,000</td> <td>19,407</td> <td>0.388</td> <td>A</td>	Park Blvd to Florida St	6 Lane Major Arterial	50,000	19,407	0.388	A
Oregon St to Utah St 6 Lane Major Arterial 50,000 32,468 0.649 C Utah St to 30th St 6 Lane Major Arterial 50,000 32,191 0.644 C 30th St to Illinois St 6 Lane Major Arterial 50,000 39,116 0.782 C Illinois St to I-805 Ramps 6 Lane Major Arterial 50,000 46,062 0.921 E Florida St El Cajon Blvd to University Ave 2 Lane Collector (no center lane) 8,000 3,375 0.422 B University Ave to Robinson Ave 2 Lane Collector (no center lane) 8,000 5,450 0.681 D Robinson Ave to Upas St 2 Lane Collector (no center lane) 8,000 5,600 0.700 D Florida Dr Upas St to Morley Field Dr 2 Lane Collector (no fronting property) 10,000 5,498 0.550 B Howard Ave Park Blvd to Florida St 2 Lane Collector (continuous left-turn lane) 15,000 3,000 0.200 A Florida St to Texas St 2 Lane Collector (contin	Florida St to Texas St	6 Lane Major Arterial	50,000	23,366	0.467	В
Utah St to 30th St 6 Lane Major Arterial 50,000 32,191 0.644 C 30th St to Illinois St 6 Lane Major Arterial 50,000 39,116 0.782 C Illinois St to I-805 Ramps 6 Lane Major Arterial 50,000 46,062 0.921 E Florida St El Cajon Blvd to University Ave 2 Lane Collector (no center lane) 8,000 3,375 0.422 B University Ave to Robinson Ave 2 Lane Collector (no center lane) 8,000 5,450 0.681 D Robinson Ave to Upas St 2 Lane Collector (no center lane) 8,000 5,600 0.700 D Florida Dr Upas St to Morley Field Dr 2 Lane Collector (no fronting property) 10,000 5,498 0.550 B Howard Ave Park Blvd to Florida St 2 Lane Collector (continuous left-turn lane) 15,000 3,566 0.238 A Florida St to Texas St 2 Lane Collector (continuous left-turn lane) 15,000 3,566 0.238 A Texas St to Utah St 2 L	Texas St to Oregon St	6 Lane Major Arterial	50,000	24,479	0.490	В
30th St to Illinois St 6 Lane Major Arterial 50,000 39,116 0.782 C Illinois St to I-805 Ramps 6 Lane Major Arterial 50,000 46,062 0.921 E Florida St El Cajon Blvd to University Ave 2 Lane Collector (no center lane) 8,000 3,375 0.422 B University Ave to Robinson Ave 2 Lane Collector (no center lane) 8,000 5,450 0.681 D Robinson Ave to Upas St 2 Lane Collector (no center lane) 8,000 5,600 0.700 D Florida Dr Upas St to Morley Field Dr 2 Lane Collector (no fronting property) 10,000 5,498 0.550 B Howard Ave Park Blvd to Florida St 2 Lane Collector (continuous left-turn lane) 15,000 3,000 0.200 A Florida St to Texas St 2 Lane Collector (continuous left-turn lane) 15,000 3,566 0.238 A Texas St to Utah St 2 Lane Collector (continuous left-turn lane) 15,000 4,815 0.321 A Utah St to 30th S	Oregon St to Utah St	6 Lane Major Arterial	50,000	32,468	0.649	C
Illinois St to I-805 Ramps	Utah St to 30th St	6 Lane Major Arterial	50,000	32,191	0.644	C
Florida St	30th St to Illinois St	6 Lane Major Arterial	50,000	39,116	0.782	C
El Cajon Blvd to University Ave 2 Lane Collector (no center lane) 8,000 3,375 0.422 B	Illinois St to I-805 Ramps	6 Lane Major Arterial	50,000	46,062	0.921	E
University Ave to Robinson Ave 2 Lane Collector (no center lane) 8,000 5,450 0.681 D Robinson Ave to Upas St 2 Lane Collector (no center lane) 8,000 5,600 0.700 D Florida Dr Upas St to Morley Field Dr 2 Lane Collector (no fronting property) 10,000 5,498 0.550 B Howard Ave Park Blvd to Florida St 2 Lane Collector (continuous left-turn lane) 15,000 3,000 0.200 A Florida St to Texas St 2 Lane Collector (continuous left-turn lane) 15,000 3,566 0.238 A Texas St to Utah St 2 Lane Collector (continuous left-turn lane) 15,000 4,815 0.321 A Utah St to 30th St 2 Lane Collector (continuous left-turn lane) 15,000 6,137 0.409 B 30th St to 32nd St 2 Lane Collector (continuous left-turn lane) 15,000 7,187 0.479 C	Florida St					<u> </u>
Robinson Ave to Upas St 2 Lane Collector (no center lane) 8,000 5,600 0.700 D Florida Dr Upas St to Morley Field Dr 2 Lane Collector (no fronting property) 10,000 5,498 0.550 B Howard Ave Park Blvd to Florida St 2 Lane Collector (continuous left-turn lane) 15,000 3,000 0.200 A Florida St to Texas St 2 Lane Collector (continuous left-turn lane) 15,000 3,566 0.238 A Texas St to Utah St 2 Lane Collector (continuous left-turn lane) 15,000 4,815 0.321 A Utah St to 30th St 2 Lane Collector (continuous left-turn lane) 15,000 6,137 0.409 B 30th St to 32nd St 2 Lane Collector (continuous left-turn lane) 15,000 7,187 0.479 C	El Cajon Blvd to University Ave	2 Lane Collector (no center lane)	8,000	3,375	0.422	В
Upas St to Morley Field Dr 2 Lane Collector (no fronting property) 10,000 5,498 0.550 B	University Ave to Robinson Ave	2 Lane Collector (no center lane)	8,000	5,450	0.681	D
Upas St to Morley Field Dr 2 Lane Collector (no fronting property) 10,000 5,498 0.550 B	Robinson Ave to Upas St	2 Lane Collector (no center lane)	8,000	5,600	0.700	D
Howard Ave Park Blvd to Florida St 2 Lane Collector (continuous left-turn lane) 15,000 3,000 0.200 A Florida St to Texas St 2 Lane Collector (continuous left-turn lane) 15,000 3,566 0.238 A Texas St to Utah St 2 Lane Collector (continuous left-turn lane) 15,000 4,815 0.321 A Utah St to 30th St 2 Lane Collector (continuous left-turn lane) 15,000 6,137 0.409 B 30th St to 32nd St 2 Lane Collector (continuous left-turn lane) 15,000 7,187 0.479 C						
Howard Ave Park Blvd to Florida St 2 Lane Collector (continuous left-turn lane) 15,000 3,000 0.200 A Florida St to Texas St 2 Lane Collector (continuous left-turn lane) 15,000 3,566 0.238 A Texas St to Utah St 2 Lane Collector (continuous left-turn lane) 15,000 4,815 0.321 A Utah St to 30th St 2 Lane Collector (continuous left-turn lane) 15,000 6,137 0.409 B 30th St to 32nd St 2 Lane Collector (continuous left-turn lane) 15,000 7,187 0.479 C	Upas St to Morley Field Dr	2 Lane Collector (no fronting property)	10,000	5,498	0.550	В
Park Blvd to Florida St 2 Lane Collector (continuous left-turn lane) 15,000 3,000 0.200 A Florida St to Texas St 2 Lane Collector (continuous left-turn lane) 15,000 3,566 0.238 A Texas St to Utah St 2 Lane Collector (continuous left-turn lane) 15,000 4,815 0.321 A Utah St to 30th St 2 Lane Collector (continuous left-turn lane) 15,000 6,137 0.409 B 30th St to 32nd St 2 Lane Collector (continuous left-turn lane) 15,000 7,187 0.479 C	Howard Ave					
Florida St to Texas St 2 Lane Collector (continuous left-turn lane) 15,000 3,566 0.238 A		2 Lane Collector (continuous left-turn lane)	15,000	3.000	0.200	A
Texas St to Utah St 2 Lane Collector (continuous left-turn lane) 15,000 4,815 0.321 A Utah St to 30th St 2 Lane Collector (continuous left-turn lane) 15,000 6,137 0.409 B 30th St to 32nd St 2 Lane Collector (continuous left-turn lane) 15,000 7,187 0.479 C	Florida St to Texas St	· · · · · · · · · · · · · · · · · · ·	1		1	
Utah St to 30th St 2 Lane Collector (continuous left-turn lane) 15,000 6,137 0.409 B 30th St to 32nd St 2 Lane Collector (continuous left-turn lane) 15,000 7,187 0.479 C		· · · · · · · · · · · · · · · · · · ·			1	
30th St to 32nd St 2 Lane Collector (continuous left-turn lane) 15,000 7,187 0.479 C		· · · · · · · · · · · · · · · · · · ·	1		1	
1		· · · · · · · · · · · · · · · · · · ·				
	Notes:	2 Lane Concetor (continuous ser ann lane)	10,000	7,107	0.7.2	

Bold values indicate roadway segments operating at LOS E or F.

Capacity for non-standard roadway classifications were provided by City of San Diego staff.

Table 3-8 Existing Conditions Roadway Segment LOS Summary (cont.)

	ROADWAY FUNCTIONAL CLASSIFICATION	LOS E		V/C	1.06
ROADWAY SEGMENT	RUADWAY FUNCTIONAL CLASSIFICATION	CAPACITY	ADT	RATIO (a)	LOS
	NORTH PARK				
Juniper St					
30th St to 32nd St	2 Lane Collector (no center lane)	8,000	3,646	0.456	C
32nd St to Commonwealth Ave	2 Lane Collector (no center lane)	8,000	2,826	0.353	В
Landis St					
Boundary St to Nile St	2 Lane Collector (no center lane)	8,000	3,790	0.474	C
Lincoln Ave					
Florida St to Texas St	2 Lane Collector (no center lane)	8,000	990	0.124	A
Texas St to Utah St	2 Lane Collector (no center lane)	8,000	2,400	0.300	A
Utah St to 30th St	2 Lane Collector (continuous left-turn lane)	15,000	4,550	0.303	A
30th St to 32nd St	2 Lane Collector (continuous left-turn lane)	15,000	5,563	0.371	В
32nd St to Boundary St	2 Lane Collector (continuous left-turn lane)	15,000	5,473	0.365	В
Madison Ave	·	1		,	
Park Blvd to Mission Ave	2 Lane Collector (continuous left-turn lane)	15,000	6,110	0.407	В
Mission Ave to Texas St	2 Lane Collector (continuous left-turn lane)	15,000	8,040	0.536	С
Texas St to Ohio St	2 Lane Collector (no center lane)	8,000	5,295	0.662	D
Meade Ave	a Lamb Contract (112 11111)	V,	U,2	0.0	
Park Blvd to Texas St	2 Lane Collector (continuous left-turn lane)	15,000	4,060	0.271	A
Texas St to 30th St	2 Lane Collector (continuous left-turn lane)	15,000	5,280	0.352	В
30th St to Illinois Ave	2 Lane Collector (continuous left-turn lane)	15,000	8,576	0.572	C
Illinois St to Iowa St	2 Lane Collector (continuous left-turn lane) 2 Lane Collector (continuous left-turn lane)	15,000	8,651	0.577	C
	2 Lane Conector (continuous fore-turn tane)	13,000	0,051	0.511	
Mission Ave Park Blvd to Mississippi St	2 Lane Collector (one-way)	17 500	1,497	0.086	A
	2 Lane Concetor (one-way)	17,500	1,427	0.000	Α
Monroe Ave	O.L. an Collector (no contar long)	0 000	1 200	0.150	4
Park Blvd to Mission Ave	2 Lane Collector (no center lane)	8,000	1,200	0.150	A
Mission Ave to Texas St	2 Lane Collector (no center lane)	8,000	1,500	0.188	A
Texas St to 30th St	2 Lane Collector (no center lane)	8,000	2,158	0.270	A
Nile St	O. C. B. con (on controller)	2,000	1 205	0.520	
Landis St to Thorn St	2 Lane Collector (no center lane)	8,000	4,305	0.538	С
North Park Way	T	1		T	
30th St to 32nd St	2 Lane Collector (no fronting property)	10,000	6,737	0.674	С
Orange Ave/Howard Ave	T	1		T	
Iowa St to I-805	2 Lane Collector (continuous left-turn lane)	15,000	5,938	0.396	В
Pentuckett Ave	T	I	1	1 7	
Juniper St to Fir St	2 Lane Collector (no center lane)	8,000	2,225	0.278	A
Pershing Dr	T	Г	1	1 1	
Upas St to Redwood St	2 Lane Collector (continuous left-turn lane)	15,000	6,439	0.429	В
Redwood St	т	ı	1	, ,	
28th St to 30th St	2 Lane Collector (no center lane)	8,000	5,988	0.749	D
30th St to 32nd St	2 Lane Collector (no center lane)	8,000	4,912	0.614	C
32nd St to Boundary St	2 Lane Collector (no center lane)	8,000	1,650	0.206	A
Robinson Ave	<u> </u>				
Park Blvd to Florida St	2 Lane Collector (no center lane)	8,000	4,160	0.520	C
Texas St					
Adams Ave to Mission Ave	3 Lane Major Arterial	30,000	27,532	0.918	E
Mission Ave to El Cajon Blvd	2 Lane Collector (continuous left-turn lane)	15,000	16,563	1.104	F
El Cajon Blvd to Howard Ave	2 Lane Collector (continuous left-turn lane)	15,000	10,404	0.694	D
Howard Ave to University Ave	2 Lane Collector (continuous left-turn lane)	15,000	9,461	0.631	С
University Ave to Myrtle Ave	2 Lane Collector (no center lane)	8,000	3,821	0.478	С
Myrtle Ave to Upas St	2 Lane Collector (no center lane)	8,000	2,814	0.352	В
Notes:					

Bold values indicate roadway segments operating at LOS E or F.

Capacity for non-standard roadway classifications were provided by City of San Diego staff.

Table 3-9 Existing Conditions Roadway Segment LOS Summary (cont.)

ROADWAY SEGMENT	ROADWAY FUNCTIONAL CLASSIFICATION	LOS E CAPACITY	ADT	V/C RATIO (a)	LOS
	NORTH PARK				
University Ave					
Park Blvd to Florida St	4 Lane Collector (no center lane)	15,000	19,200	1.280	F
Florida St to Texas St	4 Lane Collector (no center lane)	15,000	21,611	1.441	F
Texas St to Oregon St	4 Lane Collector (no center lane)	15,000	20,058	1.337	F
Oregon St to Utah St	4 Lane Collector (no center lane)	15,000	20,361	1.357	F
Utah St to 30th St	4 Lane Collector (no center lane)	15,000	19,173	1.278	F
30th St to Illinois St	3 Lane Collector (no center lane)	11,500	21,100	1.835	F
Illinois St to 32nd St	3 Lane Collector (no center lane)	11,500	19,644	1.708	F
32nd St to Boundary St	4 Lane Collector (no center lane)	15,000	25,568	1.705	F
Upas St					
Alabama St to Texas St	2 Lane Collector (no center lane)	8,000	7,100	0.888	E
Texas St to Pershing Rd	2 Lane Collector (no center lane)	8,000	7,160	0.895	E
Pershing Rd to 30th St	2 Lane Collector (continuous left-turn lane)	15,000	9,574	0.638	C
30th St to 32nd St	2 Lane Collector (no center lane)	8,000	4,347	0.543	C
32nd St to Boundary St	2 Lane Collector (no center lane)	8,000	2,600	0.325	В
Utah St					
Adams Ave to Monroe Ave	2 Lane Collector (no center lane)	8,000	992	0.124	A
Meade Ave to El Cajon Blvd	2 Lane Collector (no center lane)	8,000	2,841	0.355	В
El Cajon Blvd to Howard Ave	2 Lane Collector (no center lane)	8,000	4,362	0.545	C
Howard Ave to Lincoln Ave	2 Lane Collector (no center lane)	8,000	2,535	0.317	В
Lincoln Ave to University Ave	3 Lane Collector (no center lane)	11,500	2,900	0.252	A
University Ave to North Park Way	2 Lane Collector (no center lane)	8,000	4,740	0.593	C
North Park Way to Upas St	2 Lane Collector (no center lane)	8,000	1,919	0.240	A

Bold values indicate roadway segments operating at LOS E or F.

Capacity for non-standard roadway classifications were provided by City of San Diego staff.

Table 3-10 Existing Conditions Roadway Segment LOS Summary (cont.)

ROADWAY SEGMENT	ROADWAY FUNCTIONAL CLASSIFICATION	LOS E CAPACITY	ADT	V/C RATIO (a)	LOS
	GOLDEN HILL				
25th St					
Russ Blvd to B St	2 Lane Collector (continuous left-turn lane)	15,000	7,550	0.503	С
B St to Broadway	4 Lane Collector (no center lane)	15,000	9,409	0.627	С
Broadway to F St	4 Lane Collector (no center lane)	15,000	12,105	0.807	D
26th St					
Russ Blvd to B St	2 Lane Collector (no center lane)	8,000	9,152	1.144	F
B St to C St	2 Lane Collector (no center lane)	8,000	2,146	0.268	A
28th St					
Russ Blvd to C St	2 Lane Collector (no center lane)	8,000	4,888	0.611	С
C St to Broadway	2 Lane Collector (no center lane)	8,000	8,150	1.019	F
Broadway to SR-94	2 Lane Collector (no center lane)	8,000	10,697	1.337	F
30th St	·				
Grape St to Ash St	2 Lane Collector (no center lane)	8,000	3,865	0.483	С
A St to Broadway	2 Lane Collector (no center lane)	8,000	16,610	2.076	F
Broadway to SR-94	2 Lane Collector (no center lane)	8,000	4,210	0.526	С
31st St		•			
Juniper St to Grape St	2 Lane Collector (no center lane)	8,000	2,299	0.287	A
B St					
19th St to 20th St	4 Lane Collector (no center lane)	15,000	5,372	0.358	В
20th St to 25th St	2 Lane Collector (no center lane)	8,000	3,708	0.464	С
25th St to 26th St	2 Lane Collector (no center lane)	8,000	4,600	0.575	С
26th St to 28th St	2 Lane Collector (no center lane)	8,000	6,200	0.775	D
28th St to 30th St	2 Lane Collector (no center lane)	8,000	2,713	0.339	В
Beech St					
28th St to Fern St	2 Lane Collector (no center lane)	8,000	1,770	0.221	A
Broadway					
19th St to 20th St	2 Lane Collector (continuous left-turn lane)	15,000	5,788	0.386	В
20th St to 25th St	2 Lane Collector (continuous left-turn lane)	15,000	4,867	0.324	A
25th St to 28th St	2 Lane Collector (continuous left-turn lane)	15,000	4,165	0.278	A
28th St to 30th St	2 Lane Collector (continuous left-turn lane)	15,000	3,279	0.219	A
30th St to SR-94	2 Lane Collector (no center lane)	8,000	15,881	1.985	F
C St					
19th St to 20th St	1 Lane Collector (one-way)	7,500	3,827	0.510	С
20th St to 25th St	2 Lane Collector (continuous left-turn lane)	15,000	3,923	0.26	A
28th St to 30th St	2 Lane Collector (continuous left-turn lane)	15,000	2,658	0.177	A
30th St to 34th St	2 Lane Collector (no center lane)	8,000	4,230	0.53	С
Cedar St					
Fern St to Felton St	2 Lane Collector (no center lane)	8,000	2,815	0.352	В
Fern St					
Juniper St to Grape St	2 Lane Collector (no center lane)	8,000	8,350	1.044	F
Grape St to A St	2 Lane Collector (no center lane)	8,000	8,082	1.010	F
Grape St					
30th St to 31st St	2 Lane Collector (no center lane)	8,000	2,614	0.327	В
Notes:					

Bold values indicate roadway segments operating at LOS E or F.

Capacity for non-standard roadway classifications were provided by City of San Diego staff.

3.5 FREEWAY SEGMENT ANALYSIS

Freeway volumes were obtained from Caltrans and reflect the latest volumes that had been collected at the time of this report. **Tables 3-11 through 3-14** display the LOS analysis results for the study freeway segments under Existing Conditions. As shown in the table, the freeway segments surrounding the Uptown, North Park, and Golden Hill communities all have volumes that exceed the capacity during peak hours. In general, the failing segments are those that move traffic away from the cluster communities in the morning and towards the cluster communities in the afternoon.

Interstate 5 shows LOS E or F in the northbound direction at each of the segments except between Washington Street and Pacific Highway during the a.m. peak. In the p.m. peak, LOS E or F occurs from First Avenue to Sixth Avenue and from SR-163 to SR-94, both in the southbound direction.

Interstate 8 shows LOS E or F at each of the study segments in both peak periods. The failing LOS shows up in the westbound direction during the a.m. peak and in the eastbound direction during the p.m. peak.

State Route 15 shows LOS E in the southbound direction during both the a.m. and p.m. peaks between I-805 and SR-94.

Interstate 805 shows LOS E or F in one direction each of the segments in the a.m. peak. From I-8 to Adams Avenue, the deficient direction is northbound, and for segments from El Cajon Boulevard to SR-15, the deficient direction is southbound. During the p.m. peak, the deficient segments are southbound from I-8 to Adams Avenue and northbound from El Cajon Boulevard to University Avenue.

State Route 94 shows LOS E or F in the westbound direction during the a.m. peak and in the eastbound direction in the p.m. peak.

State Route 163 shows LOS E or F in the southbound direction from Washington Street to I-5 during the a.m. peak and in the northbound direction from I-5 to Washington Street during the p.m. peak. In addition, the segment of SR-163 from Quince Drive to I-5 in the southbound direction is LOS F in the p.m. peak.

3.6 FREEWAY RAMP METERING ANALYSIS

Ramp volumes were obtained from the intersection turning movements when applicable, or from Caltrans' latest volumes that had been collected at the time of this report. **Table 3-15** displays the queuing analysis results for the ramps in the study area that are currently metered. The table compares the peak hour demand at the on-ramp with the current meter rate. As shown in the table, the meter rate adequately controls the expected demand without excess queuing, except at the following locations:

- Washington Street to I-5 Northbound, a.m. peak (1.4 minute average delay)
- Washington Street to I-5 Northbound, p.m. peak (2.3 minute average delay)
- India Street to I-5 Northbound, p.m. peak (4.2 minute average delay)
- Hancock Street to I-5 Southbound, p.m. peak (7.7 minute average delay)
- Fifth Avenue to I-5 Southbound, p.m. peak (5.5 minute average delay)

Appendix E contains the ramp meter information provided by Caltrans.

Table 3-11 Existing Conditions Freeway Segment Analysis Summary

					PEAK HOUR	D	PEAK-			oie
FREEWAY SEGMENT	DIRECTION	NUMBER OF LANES	CAPACITY (a)	ADT (b)	VOLUME (b)	(DIRECTIONAL SPLIT)	HOUR VOLUME (c)	V/C RATIO	LOS	3-1
			AN	AM PEAK						
I-5										_X
Old Town Ave to Washington St	NB	4 M + 1 A	9,200	196,000	15 600	0.560	8,736	0.95	E	us
Old LOWIL TAYS to Washington St	SB	4 M + 1 A	9,200	170,000	12,000	0.440	6,864	0.75	C	un
Washington St to Davidio Highway	NB	4 M	8,000	148,000	12 000	0.560	6,720	0.84	D	9
Washington St to Facility Inghway	SB	4 M	8,000	1+6,000	12,000	0.440	5,280	0.66	С	C
First Ava to Sixth Ava	NB	4 M + 1 A	9,200	201 000	15 500	0.750	11,625	1.26	F1	ווכ
OVER THAT OF USE AND THE LEADING TO A TH	SB	5 M + 1 A	11,200	201,000	13,500	0.250	3,875	0.35	A	JIL
SD 162 to SD 04	NB	5 M + 1 A	11,200	210,000	16 200	0.750	12,150	1.08	F0	IOI
SN-103 to SN-94	SB	5 M + 1 A	11,200	210,000	10,200	0.250	4,050	0.36	A	15
SD 04 to Immenial Ava	NB	4 M + 1 A	9,200	164 000	12 700	0.750	9,525	1.04	F0	П
SN-74 to imperial Ave	SB	4 M + 1 A	9,200	104,000	12,700	0.250	3,175	0.35	A	е
8-I										3 W
Hotel Circle (W) to Hotel Circle (E)	WB	4 M + 1 A	9,200	208 000	16 500	0.570	9,405	1.02	F0	/ay
	EB	4 M	8,000	203,000	10,200	0.430	7,095	0.89	D	<i>y</i> 3
Mission Center Pd to Ougloomm Wv	WB	4 M + 1 A	9,200	224 000	17 900	0.570	10,203	1.11	F0	se
intestion center for to guardining vr y	EB	4 M + 1 A	9,200	224,000	11,700	0.430	7,697	0.84	D	gn
T-805 to SB-15	WB	4 M + 1 A	9,200	242,000	19 100	0.650	12,415	1.35	F1	ie
1-000 to 3N-10	EB	4 M + 1 A	9,200	2+2,000	12,100	0.350	6,685	0.73	C	ш
SR-15			•			•	•	•		А
1-805 to SP-94	NB	3 M + 1 A	7,200	000 96	0008	0.430	3,827	0.53	В	Па
	SB	2 M + 1 A	5,200	70,000	6,700	0.570	5,073	0.98	E	ıy
Notes: Rold values indicate freeway comments connecting at LOS E or E	70 E C T									515
M=Main Lane: A= Auxiliary Lane.										<u>ی</u>
(a) The capacity is calculated as 2,000 ADT per main lane and 1,200 ADT per auxiliary lane	lane and 1,200 ADT	er auxiliary lane								111
(b) Traffic volumes provided by Caltrans (2008)	V-1									IIII
(c) Feak-nour volume calculated by: (2-way Feak-Hour volume)*(D)	ur volume)"(D)									aı ≕

Table 3-12 Existing Conditions Freeway Segment Analysis Summary (Cont.)

		NUMBER	CAPACITY		PEAK HOUR VOLUME	D (DIRECTIONAL	PEAK- HOUR	V/C		
FREEWAY SEGMENT	DIRECTION	OF LANES	(a)	ADT (b)	(p)	-	VOLUME (c)	RATIO	ros	
			AM	AM PEAK						_
I-805										
I.8 to Adams Ava	NB	4 M + 1 A	9,200	192 000	15 900	0.730	11,607	1.26	F1	_
O to audition and	SB	5 M + 1 A	11,200	172,000	000,01	0.270	4,293	0.38	A	
El Cajon Blyd to University Ave	NB	4 M	8,000	171 000	14 600	0.330	4,818	0.60	В	
El Cajon Biva to Omversity Ave	SB	4 M + 1 A	9,200	1/1,000	14,000	0.670	9,782	1.06	F0	
University Ava to SP 15	NB	4 M + 1 A	9,200	169 000	13 000	0.330	4,290	0.47	В	_
Office of Section of the Company of	SB	4 M + 1 A	9,200	102,000	13,000	0.670	8,710	6.0	E	
SR-94										_
25th St to 28th St	WB	4 M	8,000	123 000	10.700	0.730	7,811	0.98	E	_
25 til 31 t0 20til 3t	EB	4 M	8,000	123,000	10,700	0.270	2,889	0.36	A	_
28th St to 30th St	WB	4 M	8,000	130.000	12 000	0.730	8,760	1.10	F0	_
	EB	4 M	8,000	150,000	12,000	0.270	3,240	0.41	A	_
Broadway to SB-15	WB	4 M	8,000	177 000	13 300	0.730	9,709	1.21	F0	
Dioadway to SN-15	EB	4 M + 1 A	9,200	144,000	13,300	0.270	3,591	0.39	A	<u> </u>
SR-163										_
I & to Washington St	NB	3 M + 1 A	7,200	126,000	001.01	0.410	4,141	0.58	В	_
1-0 to washington of	SB	3 M + 1 A	7,200	120,000	10,100	0.590	5,959	0.83	D	
Washington St to Robinson Ave	NB	2 M	4,000	000 96	7 800	0.410	3,198	0.80	С	
Washington of to roomson Ave	SB	2 M	4,000	70,000	000,7	0.590	4,602	1.15	$\mathbf{F0}$	_
Onince Dr to L 5	NB	2 M	4,000	108 000	10 100	0.350	3,535	0.88	D	
	SB	2 M	4,000	100,000	10,100	0.650	6,565	1.64	F2	
Notes:	Į Ž									
Bold values indicate freeway segments operating at LOS E or F.	JS E or F.									
M=Main Lane; A= Auxiliary Lane.		,								
(a) The capacity is calculated as 2,000 ADT per main lane and	ane and 1,200 ADT p	1,200 ADT per auxiliary lane								
(b) Hanne voluntes provided by Cautains (2006) (c) Peak-hour volume calculated by: (2-way Peak-Hour Volume)*(D)	r Volume)*(D)									_
	, , ,									an a

Table 3-13 Existing Conditions Freeway Segment Analysis Summary (Cont.)

					PEAK					
ED EEWA V CECAMENT	MOLECULA	NUMBER	CAPACITY	4 F.7.	HOUR	NAL	PEAK- HOUR	V/C	50	
FALEWA I SEGUENT	DINECTION	OF LAINES	(a)	ADI (D)	(n)	SELLI	VOLUME (C)	NATIO	ros	
			FIN	PM PEAK						_
I-5			•			•				
Old Town Ave to Washington St	NB	4 M + 1 A	9200	196 000	15 600	0.460	7,176	0.78	C	19
Old TOWN AVO to Washington St	SB	4 M + 1 A	9200	170,000	12,000	0.540	8,424	0.92	D	
Mochinaton St to Dovific Highway	NB	4 M	8000	148 000	12 000	0.460	5,520	69.0	C	
Washington St to Facility Ingliway	SB	4 M	8000	146,000	12,000	0.540	6,480	0.81	D	<u> </u>
First Ava to Sivth Ava	NB	4 M + 1 A	9200	201 000	15 500	0.640	9,920	1.08	F0	
THE AVE IS SIAM AVE	SB	5 M + 1 A	11200	201,000	000,01	0.360	5,580	0.50	В	
SB 163 to SB 04	NB	5 M + 1 A	11200	0000010	16 200	0.640	10,368	0.93	E	
5N-103 to 5N-34	SB	5 M + 1 A	11200	210,000	10,200	0.360	5,832	0.52	В	
SB 04 to Immorph A 1.0	NB	4 M + 1 A	9200	164,000	12 700	0.640	8,128	0.88	D	
SN-74 to imperial Ave	SB	4 M + 1 A	9200	104,000	12,700	0.360	4,572	0.50	В	va
I-8										<i>y</i>
Hotal Circle (W) to Hotal Circle (E)	WB	4 M + 1 A	9200	000800	16 500	0.450	7,425	0.81	D	
	EB	4 M	8000	200,000	10,200	0.550	9,075	1.13	$\mathbf{F0}$	y
Mission Center Del to Onelcomm Wy	WB	4 M + 1 A	9200	00077	17 900	0.450	8,055	0.88	D	
Mission Center for to Qualconnin wy	EB	4 M + 1 A	9200	774,000	17,200	0.550	9,845	1.07	F0	, I
I 805 to SP 15	WB	4 M + 1 A	9200	242,000	10 100	0.430	8,213	0.89	D	
1-000 to 3K-10	EB	4 M + 1 A	9200	242,000	12,100	0.570	10,887	1.18	F0	
SR-15			•							41 y
1 805 to SB 97	NB	3 M + 1 A	7200	000 96	0008	0.430	3,827	0.53	В	اد
1-000 to 5N-7-	SB	2 M + 1 A	5200	20,000	0,200	0.570	5,073	0.98	E	
Notes:	ţ									
Bold values indicate freeway segments operating at LOS E or F.	JS E or F.									
M=Main Lane; A= Auxiliary Lane.		•								1110
(a) The capacity is calculated as 2,000 ADT per main lane and I	lane and 1,200 ADT p	,200 ADT per auxiliary lane								ar y
(c) Peak-hour volume calculated by: (2-way Peak-Hour Volume)*(D)	ır Volume)*(D)									' (
										╗

Table 3-14 Existing Conditions Freeway Segment Analysis Summary (Cont.)

			THE STATE		PEAK HOUR	D	PEAK-	Ç	
FREEWAY SEGMENT	DIRECTION	NUMBER OF LANES	CAPACITY (a)	ADT (b)	VOLUME (b)	(DIRECTIONAL SPLIT)	HOUK VOLUME (c)	V/C RATIO	SOT
			PM	PM PEAK					
I-805									
I.8 to Adams Ava	NB	4 M + 1 A	9200	192 000	15 900	0.340	5,406	0.59	В
r-o to facilities favo	SB	5 M + 1 A	11200	172,000	25,000	0.660	10,494	0.94	E
El Caion Blud to University Ave	NB	4 M	8000	171 000	14 600	0.600	8,760	1.10	F0
El Cajon Biva to Omversity Ave	SB	4 M + 1 A	9200	171,000	14,000	0.400	5,840	0.63	C
Injuracity And to CD 15	NB	4 M + 1 A	9200	169 000	13 000	0.600	7,800	0.85	D
CII-VE O SVE (S SIL)	SB	4 M + 1 A	9200	102,000	13,000	0.400	5,200	0.57	В
SR-94									
75th St to 38th St	WB	4 M	8000	123 000	10.700	0.300	3,210	0.40	A
25 III St to 26 III St	EB	4 M	8000	123,000	10,700	0.700	7,490	0.94	E
28th St to 30th St	WB	4 M	8000	130 000	12 000	0.300	3,600	0.45	В
2011 21 10 2011 21	EB	4 M	8000	150,000	12,000	0.700	8,400	1.05	F0
Broadway to SR-15	WB	4 M	8000	144 000	13 300	0.300	3,990	0.50	В
Diodaway to Siving	EB	4 M + 1 A	9200	111,000	2000,01	0.700	9,310	1.01	F0
SR-163									
I. 8 to Washington St	NB	3 M + 1 A	7200	126000	10 100	0.620	6,262	0.87	D
re to washington of	SB	3 M + 1 A	7200	120,000	10,100	0.380	3,838	0.53	В
Washington St to Robinson Ava	NB	2 M	4000	000 96	7 800	0.620	4,836	1.21	F0
Washington St to roomson Ave	SB	2 M	4000	70,000	000,1	0.380	2,964	0.74	С
Onince Dr to L5	NB	2 M	4000	108 000	10 100	0.540	5,454	1.36	F2
C-I O I O I-O	SB	2 M	4000	100,000	10,100	0.460	4,646	1.16	F0
Notes:	1								
Bold values indicate freeway segments operating at LOS E or F.	OS E or F.								
M=Main Lane; A= Auxiliary Lane.	000	-							
(a) the capacity is calculated as 2,000 AD1 per main lane and (b) Traffic volumes provided by Caltans (2008)	ane and 1,200 AD1 p	1,200 AD1 per auxinary lane							
(c) Peak-hour volume calculated by: (2-way Peak-Hour Volume)*(D)	r Volume)*(D)								

Table 3-15 Existing Conditions Summary of Freeway Ramp Metering

				EXCESS	
	PEAK	METER	DEMAND ²	DEMAND	AVERAGE
ON-RAMP	PERIOD	RATE ¹ (veh/hr)	(veh/hr)	(veh/hr)	DELAY (min)
	I)	NTERSTATE 5			
Washington St to I-5 NB	AM	996	1020	24	1.4
washington St to 1-3 INB	PM	996	1034	38	2.3
India St to I-5 NB	AM	996	915	0	0.0
India St to 1-3 NB	PM	996	1066	70	4.2
Hawthorn St to I-5 NB	AM	996	454	0	0.0
Hawthorn St to 1-3 NB	PM	996	842	0	0.0
Hancock St to I-5 SB	AM		Ramp not metere	d in the a.m. peak	
Transcock St to 1 3 SB	PM	1140	1287	147	7.7
Kettner Blvd to I-5 SB	AM		Ramp not metere	d in the a.m. peak	
Retuler Bive to 1 5 BB	PM	498	269	0	0.0
Fifth Ave to I-5 SB	AM			d in the a.m. peak	
1 1111 7170 10 1 3 33	PM	996	1087	91	5.5
		NTERSTATE 8			
NB Texas St to I-8 EB	AM		*	d in the a.m. peak	
	PM	498	465	0	0.0
SB Texas St to I-8 EB	AM		•	d in the a.m. peak	T
	PM	1140	866	0	0.0
		TERSTATE 805	0.10		
El Cajon Blvd to I-805 NB	AM	1140	860	0	0.0
	PM	11.10	1	d in the p.m. peak	0.0
University Ave to I-805 NB	AM	1140	998	0	0.0
-	PM	ATE DOLUTE 04	Ramp not metere	d in the p.m. peak	
		ATE ROUTE 94 534	100	0	0.0
28th St to SR-94 WB	AM	534		Ü	0.0
	PM	570	QQ Ramp not metere	d in the p.m. peak	0.0
32nd St/Broadway to SR-94 WB	AM PM	570		<u> </u>	0.0
	AM		•	d in the p.m. peak	
25th St to SR-94 EB	PM	960	785	d in the a.m. peak	0.0
	AM	900		<u> </u>	0.0
28th St to SR-94 EB	PM	960	732	d in the a.m. peak	0.0
	AM	700			0.0
32nd St/Broadway to SR-94 EB	PM	570	464	d in the a.m. peak 0	0.0
		ATE ROUTE 163		0	0.0
	AM	498	373	0	0.0
Washington St to SR-163 SB	PM	770		d in the p.m. peak	0.0
Notes:	1 171		Kamp not metere	a in the p.m. peak	

¹⁾ Meter rate is the assumed peak hour capacity expected to be processed through the ramp meter (using Caltrans fast rate)

²⁾ Demand is the peak hour demand using the on-ramp

4 FUTURE COMMUNITY BUILDOUT CONDITIONS

This section provides a description of future community buildout conditions.

4.1 ROAD NETWORK

One roadway network change was assumed to take place under the Future Year scenario: 25th Street is changing from a 4-lane collector (no center lane) to a 2-lane collector with a continuous two-way left-turn lane between Broadway and C Street. This change is under construction at the time of this report. No other roadway network changes were assumed.

4.2 TRAFFIC VOLUMES

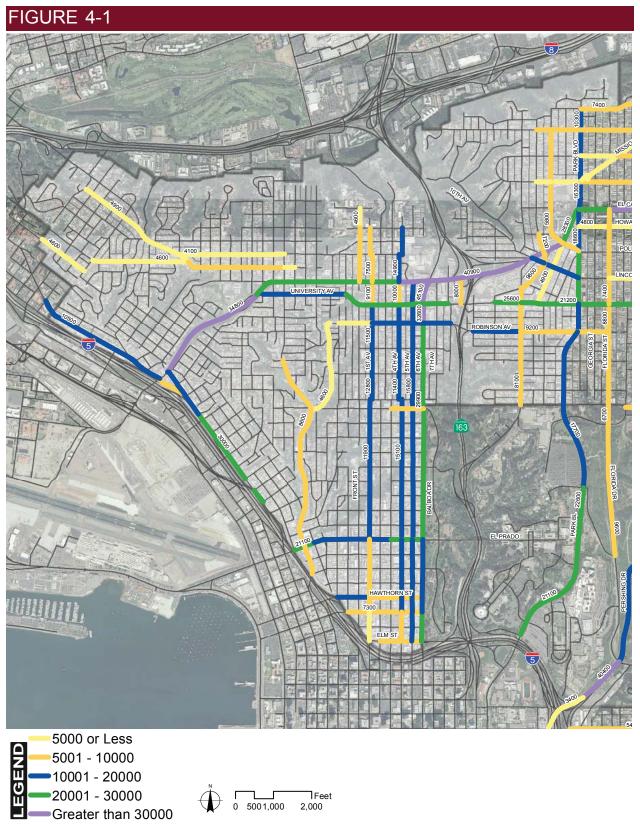
The projections of land use intensities were developed using GIS analysis techniques by the City of San Diego's Planning Department staff. Allowable uses, floor-to-area ratios, residential densities, allowable heights, and space for parking were all considered when determining the reasonably expected land use plan alternatives.

Model Adjustments

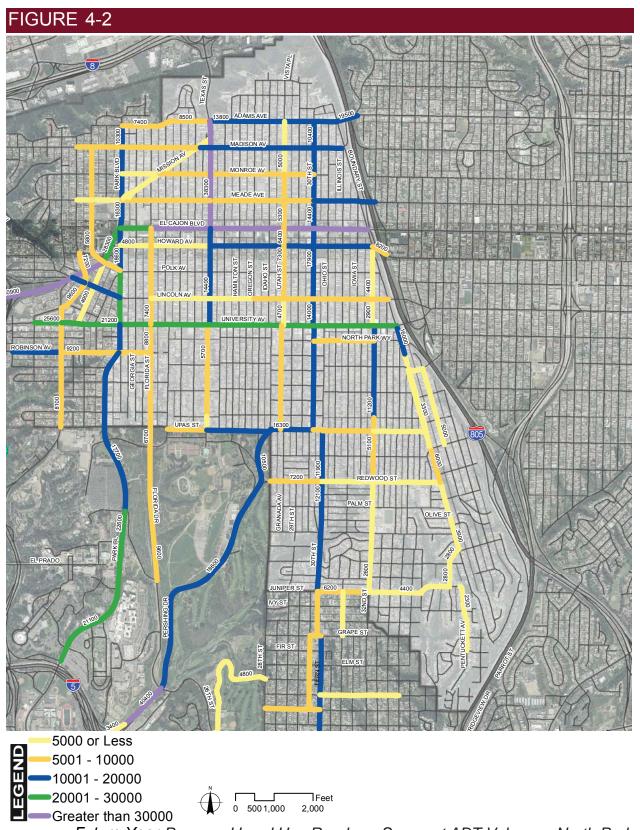
In the process of calibrating the existing model, it was concluded that several post model adjustments were needed for the forecasted Year 2035 traffic model volumes to make them consistent with existing vehicular counts and expected overall traffic patterns within the three communities.

For roadway segments where the difference between the calibrated existing 2008 model and the
actual count exceeded 10% or 2,000 daily vehicles, the difference was subtracted or added to the
Year 2035 forecast model to adjust the future volume based on the discrepancy noted between base
year model volumes and count data. For roadway segments that have existing daily volumes less
than 5,000, no adjustments were applied to the future model volumes.

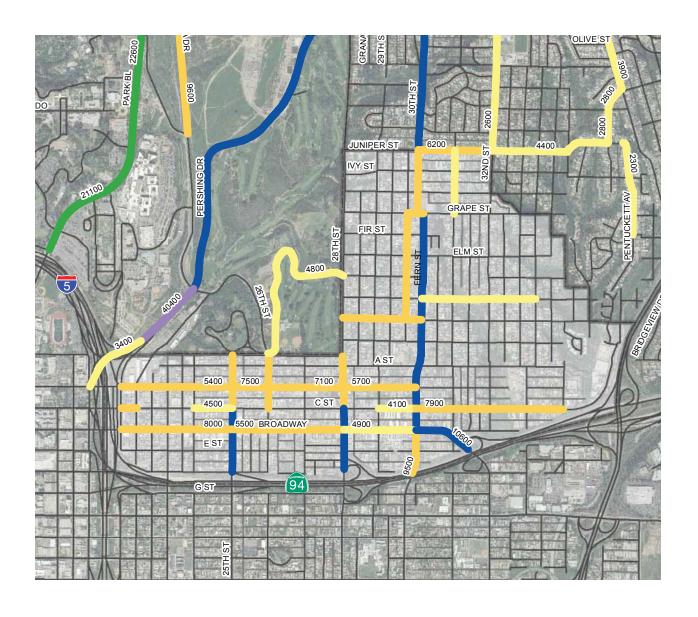
The post model adjustment details for the Future Year scenario are included in **Appendix F**. The resulting daily traffic volumes for Future Year are presented in **Figures 4-1**, **4-2**, and **4-3**.

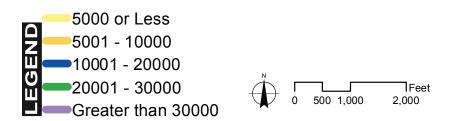


Future Year Proposed Land Use Roadway Segment ADT Volumes: Uptown



Future Year Proposed Land Use Roadway Segment ADT Volumes: North Park





Future Year Proposed Land Use Roadway Segment ADT Volumes: Golden Hill

Turning Movement Volume Forecasts

Future Year peak hour turning movements at the study area intersections were developed using methodologies from National Cooperative Highway Research Program (NCHRP) 255 - Highway Traffic Data for Urbanized Area Project Planning and Design, Chapter 8. NCHRP Report 255 is a compilation of the best techniques that are currently being used in urban areas to forecast future traffic volumes. These techniques were identified through a survey of state and local agencies with follow-up field visits to obtain detailed information on procedural steps and typical applications. The method used to forecast the future turning movement volumes for the Uptown, North Park, and Golden Hill Community Plans evaluation is the NCHRP's "Directional Volume Forecast". For this method, existing and future daily traffic volumes, existing peak hour turning movements, and projected peak hour "K" and directional "D" factors are used to calculate future year turning movements. Existing daily segment traffic volumes and peak hour intersection turning movements were counted in the field. Future Year daily traffic volumes were obtained from the forecast model forecast. Using the "Directional Volume Forecast" technique, the existing turning movements at each study area intersection were factored based on increases in daily approach traffic and existing K and D factors. Each respective movement was derived using an iterative approach that balances the inflows and outflows for each approach. The supporting worksheets for calculating Future Year volumes are included in Appendix G. Resulting peak hour intersection turning movements are presented in Figures 4-4, 4-5, 4-6 and 4-7.

FIGURE 4-4 2 Ave /49 /221 /1181 /107 /244 /813 4 / 24 0 / 1 1 / 6 India St Fourth Ave Diego 46 / 204 / 665 / 88 / 214 / 312 / 986 / 792 0/7 176 / 89 1099 / 908 481 / 525 257 / 249 San 850 / 735 1698 / 1387 689 / 710 16 / 44 Washington St Washington St Washington St Washington St 48 / 149 S & 0 5 / 39 150 / 361 746 / 1369 136 286 85 13 251 47 / 68 21 / 131 112 / 113 🕟 0 // 168 146 207 46 5 6 7 8 1.3/5/8h 20/24 1229/716, 11/12 14/26 98 5 22/22 6 77/45 9 309/127 0 1/4 Eighth Ave rs 1680 / 874 25 0 / 260 13/5 17/12 23/14 4 1657 / 1117 839 / 551 0000 8 / 5 1144 / 657 0 0 0 Washington St Washington St Washington St 0 0/13 627 / 1006 Richmond St 819 / 1769 ⇒ 940 / 2510 339 /319 0 /181 190 /531 33 14 23 /30 180 / 587 10/ 983 / 2782 ⇒ 21 32 1 96 / 291 % 9 10 11 /515 /788 /273 /160 /281 /70 /48 /110 Ave Fourth Ave Park Blvd Ave 326 224 43, 23 533 20 542 1006 175 Sixth 80 / 59 Fifth 354 / 343 184 / 171 591 / 439 50 / 508 755 / 745 475 / 535 ₽ ₽ 198 / 221 88 / 250 5 f 2 164 / 165 El Caion Blvd University Ave University Ave Normal St University Ave 163 / 409 □ 16 / 49 5 t 0 482 / 371 5 t 0 66 / 380 212 / 459 /108 /551 /474 73 946 126 , 100 , 368 , 304 63 / 172 39 / 115 45 / 70 73 / 698 / 47 / 69 126 109 67 331 253 13 14 15 16 90 / 238 15 / 23 2 / 7 125 287 95 437 238 104 581 137 **Ave** Normal St Tenth Ave 56 / 713 / 94 / Fourth / 106/ 93 67 / 365 / 71 / 4/6 115 / 96 147 / 129 958 / 857 550 / 607 514 / 448 195 / 337 ₽ ₽ **2** 2 J 2 37 / 13 ο Φ O 135 / 100 87 / 81 University Ave University Ave University Ave Robinson Ave **□** 79 / 210 S ⊕ Ø 108 / 311 49 / 159 263 / 282 ⇔ 454 / 1160 285 / 854 216 / 598 31 / 180 4 / 10 3 / 7 77 / 113 194 / 517 61 / 182 229 / 353 81 / 125 82 / 97 Legend TURNING VOLUMES 6 4 5 SIGNAL 10 11 12 14 15

Future Year Proposed Land Use Peak-Hour Intersection Volumes: Uptown

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FIGURE 4-5 119 / 154 1 1042 / 991 1 / 6 19 358 / 1797 / 292 r Blvd Sixth Ave Fifth Ave 440 / 1273 / 150 / 72 / 113 9 / 22 57 / 35 198 / 193 82 / 130 148 / 76 168 / 103 256 / 260 23 / 19 Robinson Ave Robinson Ave Vine St Sassafras St 65 / 65 5 t 0 5 f 0 \[\frac{1}{2}\] 180 / 187 280 / 340 144 / 295 78 / 272 \Rightarrow 31 2544 20 110 152 993 267 50 / 57 79 / 107 💍 🕾 11 / 604 / 53 / 23 / 572 / 10 / 95 / 546 / 115 / 21 22 23 24 /125 /595 /80 India St 41 / 26 131 594 42 0 / v Fifth 72 / 103 70 / 48 313 / 375 258 / 445 p 180 / 252 ≈ 70 / 10 ≈ 216 / 231 78 / 55 Sassafras St Laurel St Laurel St 130 / 408 186 / 291 √S ⊕ 32/37 ° 6/1 ° 206/470 ° 29/60 ° 117 / 96 806 / 1038 a 79 / 143 226 /111 957 /1677 14 /39 431 / 751 300 / 580 580 / 1138 △ 362 / 573 ⇒ 83 / 115 126 / 74 25 26 27 28 177 /173 696 /766 105 /159 6/6 **Brant St** State St First Ave 29 / 174 363 / 752 109 / 28 53 / 100 21 / 96 121 / 259 176 / 460 2 D Laurel St Hawthorn St Grape St Elm St 164 / 303 117 / 381 136 / 92 443 / 720 **□ □** û Ø © ⊕ /1375 /364 /43 2 / 2 0 / 1 74 / 168 123 /210 112 /119 100 588 93 70 / 147 936 / 1967 78 / 484 / 38 / 585 238 31 154 /345 324 /255 130 /122 Second St 29 30 /1053 /47 91 1073 / s 1888 / 646 728 / 242 17 18 1216 / 422 2 D 2 Elm St 739 / 463 46 /177 6 /2 267 / 44 Legend X / Y = AM / PM PEAK HOUR TURNING VOLUMES 23 24 25 SIGNAL AWSC TWSC 27

Future Year Proposed Land Use Peak-Hour Intersection Volumes: Uptown (Cont.)

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FIGURE 4-6

8 69 / 192 9 333 / 1116 8 8 / 304 Texas St	S 503 / 272 ⇔ 25 / 32 № 12 / 12 Madison Ave	35 97 / 199	5 112 / 136 ⇔ 707 / 648 ⊵ 46 / 66 El Cajon Blvd	33 St. 144 / 210 30th St. 50 8 St. 144 / 210 St. 20	102 / 110 1020 / 1256 82 / 198 El Cajon Blvd	24 427 / 1088 2 / 6 2 / 6 2 / 149 / 808 H805 SB Ramps	⇔ 1182 / 1028
419 / 353	7 / 17 & 824 / 744 & 10 / 11 &	102 / 256 Ø 368 / 907 ⇔ 16 / 34 №	65 /47 & 288 /334 ÷ 23 /61 &	050 / 1000	144 / 315 中80 / 141 S	904 / 1229 ⇔ 568 / 780 №	
1805 NB Ramps	 5	% 115/112 % 71/177 % 43/225 Texas St	S 30 / 80 ⇔ 386 / 553 ⊵ 9 / 13 University Ave	32 57 /124 \$\phi\$ 197 /547 \$\phi\$ 50 /133 30th St	49 / 84 362 / 453 110 / 151 Jniversity Ave	29 /39 Boundary St	© 0 / 2 ⇔ 466 / 641 ⊵ 220 / 265 University Ave
661 / 395	667 /448 & 4 /2 & 4 /2 & 4 /301 & 4 /30	90 / 139	124 /61 & 82 /177 ÷ 11 /32 \$	343 / 610	103 / 134 S	7 / 8	125 /166 ≈ 8 /19 ÷ 121 /271 ≈
38 18 / 41 0 73 / 44 0 32 / 72 H805 NB Ramps	S 16 / 22 ⇔ 349 / 418 ≥ 340 / 192 University Ave	Nouth bark Minds Month bark Minds Mi	S 250 / 571 ⇔ 128 / 209 ≥ 92 / 317 I-805 SB Ramps	30th St (W)	194 / 306 385 / 202 Upas St		
11 / 15	338 /476 2114 /204 45 168 /269 22	128 / 263 ⇔ 8 / 41 ⊗ p.g.g.g.g.g.g.g.g.g.g.g.g.g.g.g.g.g.g.g	44 / 47 & 81 / 85 &	152 / 268 & S			

<u>Legend</u>

X/Y=AM/PM PEAK HOUR

TURNING VOLUMES



SIGNAL AWSC

Future Year Proposed Land Use Peak-Hour Intersection Volumes: North Park

FIGURE 4-7 43 44 45 913 /399 87 /72 I-5 SB Ramps 51 /37 140 /98 17th St 19th St ⇔ 1317 / 606 ½ 158 / 52 715 / 163 8 21/28 c 422/129 c 369/140 Û 0 C St B St I-5 NB Off-Ramp 315 / 865 17th St /42 81/37 286/174 136/322 19/21 2/0 Ø 17/21 ⇔ 229 / 363 6901 28 46 48 49 /9 /620 /89 483 /498 413 /584 **28th St** 63 /68 226 /250 361 /477 **30th St** 273 /646 87 /66 0 / 9 482 / 62 121 / 89 28th St 374 / 623 518 / 677 535 / 256 100 / 190 109 / 62 9 / 31 32 / 11 292 / 257 568 / 263 41 / 63 SR-94 WB Ramps SR-94 WB Ramps SR-94 EB Ramps Broadway 46 / 84 16 / 42 4/3 5/3 115 /33 220 /169 11 /21 21 /137 86 /65 11 /7 311 /341 79 /65 /268 35 / 36 46 / 24 346 50 51 52 53 49 / 114 81 / 75 22nd St 45 /31 49 /110 /66 / 526 / 489 22nd St 36 / 19 101 552 25th 152 / 281 424 405 25th 1043 / 111 78 / 69 570 / 85 155 / 201 ₽ ₽ Û 0 F St G St Robinson Ave F St G St □ \[\bar{\partial}{2} 46 / 92 201 / 221 77 / 90 205 / 145 S ⊕ Ø û Ø ₽ ⇔ 163 / 118 161 / 43 151 /87 78 /104 /73 v /0 517 /281 268 /301 30 / 82 55 / 114 336 Legend X / Y = AM / PM PEAK HOUR TURNING VOLUMES 46 (48) SIGNAL (49) **AWSC** TWSC

Future Year Proposed Land Use Peak-Hour Intersection Volumes: Golden Hill

4.3 INTERSECTION ANALYSIS

Tables 4-1, 4-2, and 4-3 display the LOS analysis results for the study intersections using their existing lane configuration and the future peak-hour traffic volumes. As shown in the table, the Uptown CPU would have a cumulative traffic related impact at 6 of the 30 study intersections, the North Park CPU would have a cumulative traffic related impact at 7 of the 11 study area intersection, and the Golden Hill CPU would have a cumulative traffic related impact at 6 of the 12 study area intersections.

Appendix D contains the peak-hour intersections LOS calculation worksheets.

4.4 ROADWAY SEGMENT ANALYSIS

Tables 4-4 through 4-10 display the LOS analysis results for the roadway segments using their existing roadway classification and the future peak-hour traffic volumes. As shown in the tables, the Uptown CPU would have a cumulative traffic related impact on 52 of the 105 roadway segments within the study area, the North Park CPU would have a cumulative traffic related impact on 39 of the 95 study area roadway segments, and the Golden Hill CPU would have a cumulative traffic related impact on 13 of the 32 study area roadway segments.

4.5 FREEWAY SEGMENT ANALYSIS

Tables 4-11 and 4-12 display the LOS analysis results for the freeway segments using their existing freeway configuration and the future peak-hour traffic volumes. As shown in the tables, the traffic generated by the land use changes associated with the Uptown, North Park and Golden Hill would have a cumulative traffic related impact along all 18 freeway segments within the study area.

4.6 FREEWAY RAMP METERING ANALYSIS

Table 4-13 displays the analysis results for the ramp meters using their existing configuration and meter rate and the future peak-hour traffic volumes. As shown in the tables, the traffic generated by the land use changes associated with the Uptown, North Park and Golden Hill would have a cumulative traffic related impact at 3 ramp meters within the study area.

Table 4-1 Future Year Summary of Intersection Analysis

		TRAFFIC	PEAK	Exis	ting	Futur	e Year		
	INTERSECTION	CONTROL	HOUR	DELAY (a)	LOS (b)	DELAY (a)	LOS (b)	Δ (c)	SIGNIFICANT?
				UPTOV	VN				
1	Washington St & Hancock St	Signal	AM	24.9	С	33.2	C	8.3	NO
1	washington St & Hancock St	Signai	PM	28.2	С	51.6	D	23.4	NO
2	Washington St & San Diego Ave	Signal	AM	19.7	В	15.4	В	-4.3	NO
	Washington St & San Diego 11ve	Signai	PM	17.6	В	21.9	С	4.3	NO
3	Washington St & India St	Signal	AM	11.7	В	15.8	В	4.1	NO
	Washington St & India St	515	PM	14.2	В	20.3	С	6.1	NO
4	Washington St & Fourth Ave	Signal	AM	25.2	C	31.8	С	6.6	NO
-		~-8	PM	37.3	D	59.9	E	22.6	YES
5	Washington St & Fifth Ave	Signal	AM	15.2	В	14.1	В	-1.1	NO
	Washington St & Thursty	515	PM	16.3	В	19.2	В	2.9	NO
6	Washington St & Eighth Ave/SR-	Signal	AM	42.6	D	71.5	E	28.9	YES
	163 Off-Ramp	Signai	PM	333.0	F	331.7	F	-1.3	NO
7	Washington St & Richmond St/SR-	Signal	AM	18.6	В	51.4	D	32.8	NO
,	163 On-Ramp	Digital	PM	13.2	В	33.9	С	20.7	NO
8	Washington St/Normal St &	Signal	AM	43.0	D	62.7	E	19.7	YES
0	Campus Ave/Polk Ave	Signai	PM	50.0	D	57.3	E	7.3	YES
9	Normal St/El Cajon Blvd & Park	Signal	AM	25.2	С	26.6	C	1.4	NO
,	Blvd	Signai	PM	34.3	C	43.8	D	9.5	NO
10	University Ave & Fourth Ave	Signal	AM	29.1	С	31.8	C	2.7	NO
10	Olliversity Ave & Fourth Ave	Signai	PM	28.2	С	30.3	С	2.1	NO
11	University Ave & Fifth Ave	Signal	AM	12.9	В	13.7	В	0.8	NO
11	Olliversity Ave & Fifth Ave	Signai	PM	25.3	С	28.0	С	2.7	NO
12	Hairongity Avia & Sixth Avia	Signal	AM	32.9	С	38.7	D	5.8	NO
12	University Ave & Sixth Ave	Signai	PM	54.8	D	55.3	E	0.5	YES
13	University Ave & Tenth St	Cianal	AM	18.6	В	17.5	В	-1.1	NO
13	University Ave & Tenth St	Signal	PM	20.6	С	37.0	D	16.4	NO
1.4	I I	C:1	AM	5.6	A	6.3	A	0.7	NO
14	University Ave & Normal St	Signal	PM	10.6	В	13.3	В	2.7	NO
		a: ,	AM	24.5	С	25.2	С	0.7	NO
15	University Ave & Park Blvd	Signal	PM	39.4	D	42.1	D	2.7	NO
			AM	21.4	С	27.0	С	5.6	NO
16	Robinson Ave & Fourth Ave	Signal	PM	18.4	В	20.8	C	2.4	NO
			AM	10.8	В	12.5	В	1.7	NO
17	Robinson Ave & Fifth Ave	Signal	PM	15.0	В	17.5	В	2.5	NO
				21.6	С	22.7	С	1.1	NO
18	Robinson Ave & Sixth Ave	Signal	AM						
			PM	27.6	C	30.9	C	3.3	NO
19	Vine St & India St	Signal	AM	5.6	A	5.9	A	0.3	NO
			PM	7.3	A	8.5	A	1.2	NO
20	Sassafras St & Kettner Blvd	Signal	AM	10.4	В	13.2	В	2.8	NO
			PM	12.5	В	43.6	D	31.1	NO
21	Sassafras St & India St	Signal	AM	6.3	A	8.4	A	2.1	NO
			PM	20.9	C	47.4	D	26.5	NO

Bold values indicate intersections operating at LOS E or F.

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ECL = Exceeds Calculable Limit. Reported when delay exceeds 180 seconds.

⁽a) Delay refers to the average control delay for the entire intersection, measured in seconds per vehicle. At a one-way or two-way stop-controlled intersection, delay refers to the worst movement.

⁽b) LOS calculations are based on the methodology outlined in the 2000 Highway Capacity Manual and performed using Synchro 8

Table 4-2 Future Year Summary of Intersection Analysis (cont.)

		TRAFFIC	PEAK	Exis	sting	Futur	e Year		
	INTERSECTION	CONTROL	HOUR	DELAY (a)	LOS (b)	DELAY (a)	LOS (b)	Δ (c)	SIGNIFICANT?
				UPTOWN	(cont.)				
22	Laurel St & India St/I-5 NB On-	C:1	AM	17.0	В	19.7	В	2.7	NO
22	Ramp	Signal	PM	21.4	С	29.5	С	8.1	NO
23	Laurel St & Fourth Ave	Signal	AM	12.2	В	13.8	В	1.6	NO
23	Laurer St & Pourtir Ave	Signai	PM	14.9	В	23.8	C	8.9	NO
24	Laurel St & Fifth Ave	Signal	AM	12.3	В	13.3	В	1.0	NO
24	Laurer St & Firm Ave	Signai	PM	12.7	В	17.8	В	5.1	NO
25	Laurel St & Sixth Ave	Signal	AM	13.7	В	15.8	В	2.1	NO
23	Laurer St & Sixtii Ave	Signai	PM	20.5	C	27.9	C	7.4	NO
26	Hawthorn St & Brant St	Two-Way Stop	AM	9.9	A (SB R)	10.0	B (SB R)	0.1	NO
20	Hawthorn St & Brant St	1 wo-way Stop	PM	12.9	B (SB R)	12.9	B (SB R)	0.0	NO
27	Grape St & State St	Signal	AM	15.7	В	12.6	В	-3.1	NO
21	Grape St & State St	Signai	PM	18.7	В	41.7	D	23.0	NO
28	Elm St & First Ave	Signal	AM	13.3	В	17.8	В	4.5	NO
20	Earl St & First 74ve	Signai	PM	21.6	C	21.0	С	-0.6	NO
29	Elm St & Sixth Ave	Signal	AM	54.4	D	153.6	F	99.2	YES
	Earl St & Sixui 7100	Signai	PM	14.8	В	18.8	В	4.0	NO
30	Cedar St & Second Ave	Two-Way Stop	AM	31.8	D (SB R)	459.3	F (SB L)	427.5	YES
30	Cedar St & Second 71ve	1 wo-way Stop	PM	18.0	C (SB R)	43.0	E (SB L)	25.0	YES
				NORTH P	ARK				
31	Madison Ave & Texas St	Signal	AM	77.4	E	144.4	F	67.0	YES
31	Tradison Five & Texas St	Signai	PM	34.7	С	63.9	E	29.2	YES
32	El Cajon Blvd & Texas St	Signal	AM	35.9	D	37.6	D	1.7	NO
32	El Cajon Biva & Texas St	Signai	PM	106.8	F	85.3	F	-21.5	NO
33	El Cajon Blvd & 30th St	Signal	AM	26.0	C	29.7	С	3.7	NO
33	El Cajoli Bivu & 30til St	Signai	PM	50.2	D	68.1	E	17.9	YES
34	El Caian Dlad & L 905 CD Damas	C:1	AM	18.4	В	21.9	С	3.5	NO
34	El Cajon Blvd & I-805 SB Ramps	Signal	PM	80.9	F	96.8	F	15.9	YES
25	FLG : DI LO LOOS ND D	G: 1	AM	27.9	С	30.1	С	2.2	NO
35	El Cajon Blvd & I-805 NB Ramps	Signal	PM	19.2	В	24.7	С	5.5	NO
		a. ,	AM	19.5	В	25.5	С	6.0	NO
36	University Ave & Texas St	Signal	PM	72.7	E	49.5	D	-23.2	NO
			AM	25.0	C	26.5	C	1.5	NO
37	University Ave & 30th St	Signal	PM	49.2	D	57.8	E	8.6	YES
			AM	23.0	C	26.0	C	3.0	NO
38	University Ave & Boundary St	Signal	PM	42.1	D	50.0	D	7.9	NO
			AM	29.0	C	45.5	D D	16.5	NO
39	University Ave & I-805 NB Ramps	Signal			D		F		
	North Park Way/I-805 SB Ramps		PM	35.6	C C	80.9	C	45.3 0.0	YES
40	& Boundary St/33rd St	All-Way Stop	AM	18.1	В	18.1 134.8	F		NO VES
	2 Junuary 50 July 50		PM AM	10.6	С		E E	124.2	YES
41	Upas St & 30th St (W)	All-Way Stop	AM PM	24.4 25.9	D	40.1 54.8	F	15.7 28.9	YES YES
Notes:	I	<u> </u>	L IAI	43.7	ט	34.0	F	40.7	TES

Bold values indicate intersections operating at LOS E or F.

ECL = Exceeds Calculable Limit.

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⁽a) Delay refers to the average control delay for the entire intersection, measured in seconds per vehicle. At a one-way or two-way stop-controlled intersection, delay refers to the worst movement.

⁽b) LOS calculations are based on the methodology outlined in the 2000 Highway Capacity Manual and performed using Synchro 8

Table 4-3 Future Year Summary of Intersection Analysis (cont.)

		TRAFFIC	PEAK	Exis	sting	Futur	e Year		
	INTERSECTION	CONTROL	HOUR	DELAY (a)	LOS (b)	DELAY (a)	LOS (b)	Δ (c)	SIGNIFICANT?
				GOLDEN	HILL				
42	B St & 17th St/I-5 SB Off-Ramp	One-Way Stop	AM	130.7	F (SB TR)	ECL	F (SB TR)	-	YES
42	B St & 17th St/1-3 SB Off-Ramp	One-way Stop	PM	29.3	D (SB TR)	20.4	C (SB TR)	-8.9	NO
43	B St & I-5 NB Off-Ramp	No Conflicting	AM	N/A	N/A	N/A	N/A	N/A	N/A
43	B St & 1-5 NB OII-Ramp	Movements	PM	N/A	N/A	N/A	N/A	N/A	N/A
44	B St & 19th St/I-5 NB On-Ramp	Signal	AM	9.4	A	11.2	В	1.8	NO
	B St & 19th St/1-3 NB On-Ramp	Signai	PM	6.8	A	7.1	A	0.3	NO
45	C St & 17 St	One-Way Stop	AM	13.7	B (SB TR)	14.3	B (SB TL)	0.6	NO
43	C St & 17 St	Olle-way Stop	PM	23.3	C (SB TR)	32.6	D (SB TL)	9.3	NO
46	Broadway & 30th St	Signal	AM	14.2	В	14.6	В	0.4	NO
40	Broadway & 30th St	Signai	PM	11.9	В	14.3	В	2.4	NO
47	SR-94 WB Ramps & Broadway	One-Way Stop	AM	63.0	F (WB L)	187.5	F (WB L)	124.5	YES
47	SK-94 WB Kamps & Broadway	Olle-way Stop	PM	55.3	F (WB L)	185.9	F (WB L)	130.6	YES
48	SR-94 WB Ramps & 28th St	Two-Way Stop	AM	46.6	E (WB LT)	ECL	F (WB LT)	-	YES
40	SK-94 WB Ramps & Zoui St	1 wo-way Stop	PM	370.9	F (WB LT)	883.9	F (WB LT)	513.0	YES
49	SR-94 EB Ramps & 28th St	One-Way Stop	AM	26.7	D (WB L)	245.3	F (WB L)	218.6	YES
47	SK-94 EB Ramps & 20th St	Olie-way Stop	PM	507.0	F (WB L)	ECL	F (WB L)	-	YES
50	F St & 22nd St	All-Way Stop	AM	13.6	В	17.4	С	3.8	NO
30	1 St & ZZIIU St	All-way Stop	PM	8.6	A	8.7	A	0.1	NO
51	F St & 25th St	All-Way Stop	AM	20.8	С	82.3	F	61.5	YES
31	1 St & 25th St	All-way Stop	PM	16.2	С	39.4	E	23.2	YES
52	G St & 22nd St	All-Way Stop	AM	9.6	A	10.4	В	0.8	NO
32	O St & 22llu St	All-way Stop	PM	9.4	A	10.1	В	0.7	NO
53	G St & 25th St	All-Way Stop	AM	12.4	В	55.2	F	42.8	YES
23	0 St & 25th St	All-way Stop	PM	16.0	С	68.0	F	52.0	YES

Bold values indicate intersections operating at LOS E or F.

ECL = Exceeds Calculable Limit.

(a) Delay refers to the average control delay for the entire intersection, measured in seconds per vehicle. At a one-way or two-way stop-controlled intersection, delay refers to the worst movement.

(b) LOS calculations are based on the methodology outlined in the 2000 Highway Capacity Manual and performed using Synchro 8

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Table 4-4 Future Year Summary of Roadway Segment Analysis

				EXISTING		FU	FUTURE YEAR	٢ .			
		TOST		V/C			V/C RATIO		A in ADT	A in V/C	SIGNIFICANT?
ROADWAY SEGMENT	ROADWAY FUNCTIONAL CLASSIFICATION	CAPACITY	ADT	(a)	ros	ADT	(a)	LOS			
		UPTOWN	WN				20000				
First Ave											
Arbor Dr to Washington St	2 Lane Collector (one-way)	17,500	5,240	0.299	Ą	7,500	0.429	В	2260	0.130	NO
Washington St to University Ave	2 Lane Collector (no center lane)	8,000	7,400	0.925	ы	9,100	1.138	F	1700	0.213	YES
University Ave to Robinson Ave	2 Lane Collector (no center lane)	8,000	10,100	1.263	Ŀı	16,300	2.038	Ŀ	6200	0.775	YES
Robinson Ave to Pennsylvania Ave	2 Lane Collector (no center lane)	8,000	7,500	0.938	ы	11,500	1.438	ы	4000	0.500	YES
Pennsylvania Ave to Walnut Ave	2 Lane Collector (no center lane)	8,000	7,261	0.908	Ы	12,800	1.600	H	5539	0.692	YES
Walnut Ave to Laurel St	2 Lane Collector (no center lane)	8,000	4,695	0.587	C	11,900	1.488	F	7205	0.901	YES
Laurel St to Hawthorn St	2 Lane Collector (no center lane)	8,000	7,290	0.911	E	8,400	1.050	F	1110	0.139	YES
Hawthorn St to Grape St	2 Lane Collector (no center lane)	8,000	3,810	0.476	2	6,800	0.850	Ξ	2990	0.374	YES
Grape St to Elm St	2 Lane Collector (one-way)	17,500	3,285	0.188	A	4,500	0.257	Ą	1215	690'0	NO
Fourth Ave			4				, in the second		0	0000	
Arbor Dr to Washington St	2 Lane Collector (no center lane)	8,000	12,390	1.549	F	14,900	1.863	Ŧ	2510	0.314	YES
Washington St to University Ave	2 Lane Collector (one-way)	17,500	10,400	0.594	D	10,400	0.594	D	0	0.000	NO
University Ave to Robinson Ave	2 Lane Collector (one-way)	17,500	11,800	0.674	S	12,900	0.737	Д	1100	0.063	NO
Robinson Ave to Walnut Ave	2 Lane Collector (one-way)	17,500	6,946	0.397	Ą	11,400	0.651	S	4454	0.254	NO
Wahut Ave to Laurel St	3 Lane Collector (one-way w/ one lane dedicated for multi-modal)	17,500	8,492	0.485	В	15,100	0.863	ы	8099	0.378	YES
Laurel St to Grape St		17,500	7,790	0.445	д	13,700	0.783	Д	5910	0.338	NO
Grape St to Elm St	3 Lane Collector (one-way w/ one lane dedicated for multi-modal)	17,500	7,570	0.433	В	9.700	0.554	O	2130	0.121	NO
Fifth Ave											
Washington St to University Ave	3 Lane Collector (one-way w/ one lane dedicated for multi-modal)	17,500	11,700	6990	O	11,800	0.674	O	100	0.005	ON
University Ave to Robinson Ave	3 Lane Collector (one-way w/ one lane dedicated for multi-modal)	17,500	10,300	0.589	S	14,000	0.800	Д	3700	0.211	NO
Robinson Ave to Walnut, Ave	3 Lane Collector (one-way w/ one lane dedicated for multi-modal)	17 500	12,209	8690	C	15,800	0.903	[±	3591	0 205	VES
Walnut Ave to Laurel St	3 Lane Collector (one-way w/ one lane dedicated for multi-modal)	17,500	11,400	0.651	O	14,800	0.846	D	3400	0.195	NO
Laurel St to Hawthorn St	3 Lane Collector (one-way w/ one lane dedicated for multi-modal)	17,500	9,260	0.529	В	14,400	0.823	Д	5140	0.294	NO
Hawthorn St to Grape St	3 Lane Collector (one-way w/ one lane dedicated for multi-modal)	17,500	10,045	0.574	D	14,300	0.817	Д	4255	0.243	NO
Grape St to Elm St	3 Lane Collector (one-way w/ one lane dedicated for multi-modal)	17,500	9,220	0.527	В	10,100	0.577	D	088	0.050	NO
Sixth Ave											
Washington St to University Ave	4 Lane Collector (no center lane)	15.000	16.877	0.844	Q	45.100	3.007	124	28223	2.163	YES
University Ave to Robinson Ave	4 Lane Collector (no center lane)	15,000	24,900	1.660	Ē	32,600	2.173	Ē	7700	0.513	YES
Robinson Ave to Upas St	4 Lane Collector (no center lane)	15,000	15,000	1.000	Щ	29,900	1.993	ы	14900	0.993	YES
Upas Stto Laurel St	4 Lane Collector (no center lane)	15,000	15,128	1.009	H	25,900	1.727	Ŧ	10772	0.718	YES
Laurel St to Juniper St	3 Lane Collector (no center lane)	15,000	10,140	9/9/0	D	16,600	1.107	H	6460	0.431	YES
Juniper St to Grape St	3 Lane Collector (no center lane)	15,000	10,915	0.728	Q	18,700	1.247	H	7785	0.519	YES
Grape St to Elm St	3 Lane Collector (no center lane)	15,000	10,650	0.710	D	20,300	1.353	F	9650	0.643	YES
Ninth Ave											
Washington St to University Ave	2 Lane Collector (no center lane)	8,000	5,204	0.651	Д	8,000	1.000	Ξų	2796	0.349	YES
Campus Ave/Polk Ave											
Madison Aveto Washington St	2 Lane Collector (no center lane)	8,000	3,175	0.397	n	2,800	0.725	a	2625	0.328	ON
Washington St to Park Blvd	2 Lane Collector (no center lane)	8,000	5,610	0.701	Ω	7,400	0.925	ы	1790	0.224	YES
Cleveland Ave											TC.
Tyler St to Lincoln Ave	2 Lane Collector (no center lane)	8,000	4,865	0.608	Ö	7,200	0.900	ы	2335	0.292	YES
Lincoln Ave to Richmond St	2 Lane Collector (no center lane)	8,000	7,775	0.972	Э	9,600	1.200	F	1825	0.228	YES
Curlew St											
Robinson Ave to Reynard Wy	2 Lane Collector (no center lane)	8,000	1,720	0.215	Ą	4,600	0.575	C	2880	0.360	NO
Elm St									7		
Second Ave to Third Ave	2 Lane Collector (one-way)	17,500	7,889	0.451	В	8,500	0.486	В	611	0.035	NO
Third Ave to Fitth Ave	3 Lane Collector (one-way)	26,000	8,179	0.315	₹.	9,100	0.350	Ą	921	0.035	NO.
Fifth Ave to Sixth Ave	3 Lane Collector (one-way)	26,000	6,720	0.258	Ą	8,100	0.312	Ą	1380	0.054	NO
Notes: Rold relies indicate on dum semests mention at I OCE or E	11 OR # or #										

Red values indicate roadway segments operating at LOSE or F. Capacity for non-stated roadway statisfications variety provided by City of San Driego staff.

(a) The over Red to its calculated by dividing the ADT volume by segment's capacity.

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Table 4-5 Future Year Summary of Roadway Segment Analysis (cont.)

LOS ADT	ROADWAY SEGMENT			E	EXISTING		E	FITTIRE VEAR	0			
Part No.		ROADWAY FUNCTIONAL CLASSIFICATION	LOSE		V/C RATIO (a)	TOS		V/C RATIO (a)		Δin ADT	Δin V/C	SIGNIFICANT?
December			UPTOV	N/								
Submit Brief Subm	Fort Stockton Dr							10				
1.00 1.00	Arista St to Sunset Blvd	2 Lane Collector (no center lane)	8,000	3,290	0.411	В	4,900	0.613	D	1610	0.202	NO
Extra Chief Different State Chief Control Humble Signor	Sunset Blvd to Hawk St	2 Lane Collector (no center lane)	8,000	6,100	0.763	Ω	7,900	0.988	Э	1800	0.225	YES
A control blooms 2 Lane Collector (con-order lates) 8,000 8,700 0,445 8 3,360 0,413 8 3,90 0,401	Hawk St to Goldfinch St	2 Lane Collector (no center lane)	8,000	8,450	1.056	H	8,900	1.113	F	450	0.057	YES
No. 1994 Property	Goldfinch St to Falcon St	2 Lane Collector (no center lane)	8,000	2,910	0.364	В	3,300	0.413	В	390	0.049	NO
No. 2016 of April 1, 2 Later Collector (one-way)	Front St											71.000
Part	Dickinson Stto Arbor Dr	2 Lane Collector (no center lane)	8,000	3,790	0.474	O	4,600	0.575	O	810	0.101	NO
SEX DE FIREY Ave 3 Lame Collector (one-way) 26,000 2,000 0.283 A 7,200 0.283 A 5,210 0.283 0.201 DEST C 7,200 0.913 E 2011 0.877 C 2012 0.877	Arbor Dr to Washington St	2 Lane Collector (one-way)	17,500	5,510	0.315	A	7,900	0.451	В	2390	0.136	NO
State Part	Grape St	TO THE STATE OF TH										
State Collector (concentre line) State Collector (contre line) State Collector	Albatross St to First Ave	3 Lane Collector (one-way)	26,000	2,082	0.080	A	7,300	0.281	A	5218	0.201	NO
State State Ave State	First Ave to Third Ave	2 Lane Collector (no center lane)	8,000	4,289	0.536	D	7,300	0.913	Э	3011	0.377	YES
Part	Third Ave to Sixth Ave	2 Lane Collector (no center lane)	8,000	2,097	0.262	Ą	9,000	1.125	Į±į	6903	0.863	YES
Exposite	Hawthorn St		25	W.	8				90	200	8	
State Objector (no center lane) Stat	Brant St to First Ave	3 Lane Collector (one-way)	26,000	11,558	0.445	В	15,000	0.577	O	3442	0.132	NO
Strong	First Aveto Third Ave	2 Lane Collector (no center lane)	8,000	3,634	0.454	D	7,300	0.913	Э	3666	0.459	YES
Stite Othermore Other Stite Other Stite Othermore Other Stite Other Stit	Third Ave to Sixth Ave	2 Lane Collector (no center lane)	8,000	3,577	0.447	C	8,700	1.088	F	5123	0.641	YES
Strong through the Strong through	India St											
Strockwood Dr. Stane Collector (newayy) 2,5,000 25,178 1456 10,700 0.0412 F 2,555 0.091	Washington St to Winder St	2 Lane Collector (no center lane)	8,000				11,000	1.375	H	Ü	ſ	93
2	Winder St to Glenwood Dr	3 Lane Collector (one-way)	26,000	8,345	0.321	Ą	10,700	0.412	Ą	2355	0.091	NO
SER DR Cacherood St. 3 Lane Collector (one-way) 20,000 18,075 0543 E 21,300 1055 F 2,634 0131 SER DR Cacherood St. 3 Lane Collector (one-way) 26,000 16,705 0543 C 20,300 0781 D 3595 0138 SER DR Witherby St. 2 Lane Collector (one-mar lane) 15,000 11,328 0782 D 17,900 11,97 F 21,000 0451 SER DR Witherby St. 2 Lane Collector (continuous left-lum lane) 15,000 11,318 0782 D 17,900 11,97 F 17,900 11,97 P 17,900 11,900	Glenwood Dr to Sassafrass St	2 Lane Collector (one-way)	17,500	26,178	1.496	<u>I</u>	30,000	1.714	1	3822	0.218	YES
St to Palm St 3 Lane Collector (one-way) 25,000 16,705 0.643 C 20,300 0.731 D 3595 0.138 St to Witheby St 2 Lane Collector (one-way) 26,000 2,245 0.293 A 4,600 0.573 C 2255 0.282 St to Witheby St 2 Lane Collector (continuous left-tum lane) 15,000 11,128 0.742 D 17,000 1073 F 6772 0.494 0.89 Arbo Stxth Ave 2 Lane Collector (continuous left-tum lane) 15,000 11,376 0.742 D 15,000 11,976 0.742 D 15,000 1073 F 4774 0.318 Ave Destrible Ave 2 Lane Collector (continuous left-tum lane) 15,000 11,516 0.768 D 15,000 13,47 F 4774 0.318 Ave Destrible	Sassafras St to Redwood St	3 Lane Collector (two-way)	20,000	18,676	0.934	Э	21,300	1.065	H	2624	0.131	YES
St to Witherby St to Dilector (for center lane)	Redwood St to Paim St	3 Lane Collector (one-way)	26,000	16,705	0.643	Ü	20,300	0.781	Д	3595	0.138	NO
St. to Witherby St. 2 Lane Collector (no center lane) 8,000 2,345 0.293 A 4,600 0.575 C 2.255 0.282 St. to Witherby St. to Union St 4 Lane Collector (no center lane) 15,000 11,128 C 21,100 1.407 F 7409 0.494 St. to Third Ave 2 Lane Collector (continuous left-turn lane) 15,000 11,128 C 21,100 1.407 F 7409 0.494 St. to Third Ave 2 Lane Collector (continuous left-turn lane) 15,000 11,126 0.758 D 16,100 1.407 F 8654 0.579 Ave to Stxth Ave 2 Lane Collector (continuous left-turn lane) 15,000 11,216 0.768 D 16,100 1.407 F 8654 0.579 Ave to Stxth Ave 2 Lane Collector (no center lane) 8,000 3,720 0.465 C 4,100 0.513 F 2,474 0.389 Ave to Park Blvd 2 Lane Collector (no center lane) 8,000 3,720 0.469 C 6,100 0.763 D 2,350 0.294 Ave to Park Blvd 2 Lane Collector (no center lane) 1,5000 3,750 0.469 C 6,100 0.763 D 2,350 0.294 Ave to Park Blvd 2 Lane Collector (no center lane) 2,000 2,2296 0.446 B 2,350 0.566 C 6,004 0.120 Ave to Park Blvd 2 Lane Collector (no center lane) 2,000 4,974 0.622 C 0.604 0.120 Ave to Park Blvd 2 Lane Collector (no center lane) 2,000 4,974 0.124 D 2,974 0.622 C 0.004 Ave to Park Blvd 2 Lane Collector (no center lane) 2,000 4,974 0.124 D 2,974 0.622 C 0.004 Ave to Park Blvd 2 Lane Collector (no center lane) 2,000 4,974 0.124 D 2,974 0.622 C 0.004 Ave to Park Blvd 2 Lane Collector (no center lane) 2,000 4,974 0.124 D 2,974 0.622 C 0.004 Ave to Park Blvd 2 Lane Collector (no center lane) 2,000 4,974 0.124 0.622 C 0.004 0.004 Ave to Park Blvd 2 Lane Collector (no center lane) 2,000 2,944 0.124 0.124 0.004 0.004 0.004 Avert 2 Lane Collector (no center lane) 2,000 2,944 0.124 0.004 0.004 0.004 0.004 Ave to Park Blvd 2 Lane Collect	Juan St											
sts tb Union St 4 Lane Collector (no center lane) 15,000 13,691 0913 E 21,100 1407 F 7409 0494 st to First Ave 2 Lane Collector (continuous left-turn lane) 15,000 11,128 0742 D 17,900 1,193 F 6772 0451 0451 ve to Stath Ave 2 Lane Collector (continuous left-turn lane) 15,000 11,128 0752 D 17,900 1,193 F 6772 0451 0318 ve to Stath Ave 2 Lane Collector (continuous left-turn lane) 15,000 11,516 0.765 D 16,100 1.377 F 4774 0.318 syst State Collector (continuous left-turn lane) 8,000 3,720 0.465 C 4,100 0.513 F 2945 0.59 Ave Ave 2 Lane Collector (no center lane) 8,000 3,750 0.469 C 6,100 0.763 D 2350 0.783 D 2350 0.048 Ave Ave Ave A	Harney St to Witherby St	2 Lane Collector (no center lane)	8,000	2,345	0.293	A	4,600	0.575	O	2255	0.282	NO
Lane Collector (continuous) left-turn lane) 15,000 13,651 E 17,100 1.477 F 7409 0.451	Laurel St	2000 00 00 00 00 00 00 00 00 00 00 00 00			000000000000000000000000000000000000000		0.0000000000000000000000000000000000000			000000000000000000000000000000000000000		
First Ave 2 Lane Collector (continuous left-turn lane) 15,000 11,128 0.742 D 16,100 1.073 F 6772 0.451	Columbia St to Union St	4 Lane Collector (no center lane)	15,000	13,691	0.913	Ы	21,100	1.407	<u>.</u>	7409	0.494	YES
Stick Stic	Union St to First Ave	2 Lane Collector (continuous left-turn lane)	15,000	11,128	0.742		17,900	1.193	ы	6772	0.451	YES
Sixth Ave 2 Lane Collector (continuous left-turn lane) 15,000 11,516 0.768 D 20,200 1.347 F 8694 0.579 nDr to Goldfinch St 2 Lane Collector (continuous left-turn lane) 8,000 3,720 0.465 C 4,100 0.513 C 380 0.048 St to Park Bird 2 Lane Collector (concintra lane) 8,000 3,750 0.469 C 6,100 0.763 D 2350 0.294 ve to Park Bird 2 Lane Collector (continuous left-turn lane) 15,000 3,750 0.219 A 3,500 0.233 A 210 0.014 Washington St 6 Lane Major Atterial 50,000 2,229 0.446 B 23,500 0.566 C 6004 0.104 A St University Ave 2 Lane Collector (no center lane)* 8,000 4,974 0.124 B 0.502 0.566 C 6,100 0.763 D 0.049	First Ave to Third Ave	2 Lane Collector (continuous left-turn lane)	15,000	11,326	0.755	Д	16,100	1.073	H	4774	0.318	YES
Stude Dealth of Studency (no center lane) 8,000 3,720 0.465 C 4,100 0.513 C 380 0.048 Stude Dealth Elbed 2 Lane Collector (no center lane) 8,000 8,155 1.019 F 11,100 1.388 F 2945 0.369 veto Park Elbed 2 Lane Collector (no center lane) 8,000 3,750 0.469 C 6,100 0.763 D 2350 0.294 veto Park Elbed 2 Lane Collector (continuous left-turn lane) 15,000 3,290 0.219 A 3,500 0.233 A 210 0.014 D veto Park Elbed 6 Lane Major Atterial 40,000 4,974 B 28,300 0.565 C 6,004 0.104 D stude University Ave 2 Lane Collector (no center lane)* 8,000 4,974 0.124 A 0.494 0.622 0 0.498 0.498 0.498 0.498 0.498 0.498 0.498 0.498 0.498 0.498 0.498 0.498 0.49	Third Ave to Sixth Ave	2 Lane Collector (continuous left-turn lane)	15,000	11,516	0.768	Д	20,200	1.347	F	8684	0.579	YES
Sto Park Blvd 2 Lane Collector (no center lane) 8,000 3,720 0,455 C 4,100 0,513 C 380 0,048	Lewis St				20000							8000
Stro Park Blvd 2 Lane Collector (no center lane) 8,000 8,155 1019 F 11,100 1388 F 2945 0369 ve to Park Blvd 2 Lane Collector (no center lane) 8,000 3,750 0.469 C 6,100 0.763 D 2350 0.294 ve to Park Blvd 2 Lane Collector (continuous left-turn lane) 15,000 3,290 0.219 A 3,500 0.233 A 210 0.014 Washington St 4 Lane Major Atterial 40,000 4,974 0.124 A 28,300 0.566 C 6004 0.120 Stro University Ave 2 Lane Collector (no center lane)* 8,000 4,974 0.622 C 0.622 0 0.622 0 0.0498 0 0.0498 0 0 0.056 0 <	Fort Stockton Dr to Goldfinch St	2 Lane Collector (no center lane)	8,000	3,720	0.465	S	4,100	0.513	၁	380	0.048	ON
Stro Park Blvd 2 Lane Collector (no center lane) 8,000 8,155 1.019 F 11,100 1.388 F 2.945 0.369	Lincom Ave											
ve to Park Bhd 2 Lane Collector (no center lane) 8,000 3,750 0.469 C 6,100 0.763 D 2350 0.294 ve to Park Bhd 2 Lane Collector (continuous left-turn lane) 15,000 3,290 0.219 A 3,500 0.233 A 210 0.014 ve Washington St 6 Lane Major Arterial 50,000 22,296 0.446 B 28,300 0.566 C 6004 0.120 Stb University Ave 2 Lane Collector (no center lane)* 8,000 4,974 0.124 A 4,974 0.622 C 6004 0.498	washington St to Park Blvd	2 Lane Collector (no center lane)	8,000	8,155	1.019	H	11,100	1.388	H	2545	0.369	YES
Ave to Park Bivd 2 Lane Collector (no center lane) 8,000 3,750 0.469 C 6,100 0.763 D 2550 0.294 Ave to Park Bivd 2 Lane Collector (condimuous left-turn lane) 15,000 3,290 0.219 A 3,500 0.233 A 210 0.014 to Washington St Lane Major Arterial 50,000 22,296 0.446 B 28,300 0.566 C 6004 0.120 no Stto University Ave 2 Lane Collector (no center lane)* 8,000 4,974 0.124 A 4,974 0.622 C 0 0.498	Madison Ave	2 6	6	0	40.0		3	0	-	0.00		9
Ave to Park Bivd 2 Lane Collector (continuous left-turn lane) 15,000 3,290 0 219 A 3,500 0 233 A 210 0.014 to Washington St 6 Lane Major Arterial 50,000 22,2296 0.446 B 28,300 0.566 C 6004 0.120 n Sto University Ave 4,974 0.124 A A 4,974 0.622 C 0 0.498	Cleveland Aveto Park Blvd	2 Lane Collector (no center lane)	8,000	3,750	0.469	ွ	6,100	0.763	a	2350	0.294	NO
d Ave to Park Bird 2 Lane Collector (continuous left-turn lane) 15,000 3,290 0.219 A 3,500 0.233 A 210 0.014 A d to Washington St 6 Lane Major Atterial 40,000 4,974 0.124 A 0.565 C 6004 0.120 ton St to University Ave 2 Lane Collector (no center lane)* 8,000 4,974 0.124 A 0.622 C 0 0.498	Meade Ave											
d to Washington St 6 Lare Major Arterial 50,000 22,296 0.446 B 28,300 0.566 C 6004 0.120 ton Stb University Ave 2 Lare Collector (no center lane)* 8,000 4,974 A 4,974 0.622 C 0 0.498	Cleveland Ave to Park Blvd	2 Lane Collector (continuous left-turn lane)	15,000	3,290	0.219	Ą	3,500	0.233	Ą	210	0.014	NO
Ave 5 Lane Major Atterial 50,000 22,236 0.446 B 28,300 0.566 C 6004 0.120 Ave 4 Lane Major Atterial 40,000 4,974 0.124 A 0 0.498 Ave 2 Lane Collector (no center lane)* 8,000 8,000 6,974 0.124 A 0 0.498	Normal St		3	\$								
4 Lane Major Arterial 40,000 4,974 0.124 A 2 Lane Collector (no center lane)* 8,000 8,000 0.498 0.622 C 0 0.498	Park Blvd to Washington St	6 Lane Major Arterial	20,000	22,296	0.446	В	28,300	0.566	D	6004	0.120	NO
2 Lane Collector (no center lane)* 8,000 4,974 0.622 C	Weshington Stto Illainersity Aue	4 Lane Major Arterial	40,000	4,974	0.124	Ą				C	0.498	ON.
	Washington processing con	2 Lane Collector (no center lane)*	8,000				4,974	0.622	D	Š	200) [

notes.

Bold values indicate roadway segments operating at LOSE or F.

Wormal Extres will be existed as a two bine collector with no continous center left turn lane to accommodate future bicycle boulevard pending further project level analysis Capacity for non-standard roadway classifications were provided by City of San Diego staff.

(a) The V/C Ratio is calculated by dividing the ADT volume by each respective roadway segment's capacity.

Table 4-6 Future Year Summary of Roadway Segment Analysis (cont.)

ROADWAY SEGMENT ROADWA ROADWAY SEGMENT ROADWA ROADWAY SEGMENT ROADWAY SEGMENT State A Residual Ave be El Cajon Blvd State Ave be El Cajon Blvd State Ave be El Cajon Blvd State Ave be Division Ave Dolk Ave be University Ave Dolk Ave be University Ave State Ave be Division Ave State Ave be Upas St. State Ave be Upas St. Robinson Ave Evert Ave be Upas St. Robinson Ave Evert Ave be Upas St. Robinson Ave Evert Ave be Upas St. Robinson Ave State Ave be Dipthh Ave State Ave St		TOOL		D/A			A/C		Δin ADT	∆ in V/C	SICENTERCA NT?
WAY SEGMENT OMISSION AVE TO EI Cajon Blvd In Do Polk Ave The Wester Ave The Cobinson Ave The Dubas St. O Curlew St. Laurel Ave Eto University Ave Third Ave Eighth Ave	The Court of Contract of the C						CILLYCI		Compaction of the Control		ALCOHOL LOCAL
o Mission Ave d to ElCajon Blvd d to ElVa Ave Interestly Ave et to Robinson Ave e to Upas St oo Pl Laurel St Laurel St Laurel St et to University Ave et to University Ave et to University Ave et to University Ave Et Laurel St	ROADWAY FUNCTIONAL CLASSIFICATION	CAPACITY	ADT	(a)	ros	ADT	(a)	LOS			
o Mission Ave to El Capon Blvd d to Polk Ave Dinversity Ave e to Robinson Ave e to Upas St. o Pl Laurel St. Laurel St. Eaurel St. Ea		UPTOWN	WIN								
o Mission Ave to El Cajon Brid to El Cajon Brid The Per Low Ave ve to Robinson Ave Et Laurel St Thirt Ave Thirt Ave Eighth Ave			1)								
to El Calon Brud Litto Polk Ave Dith eristly Ave et to Upas St oo Curlew St Laurel St te to University Ave et to Robinson Ave et to University Ave fer to Edition Ave first Ave Eighthi Ave Rickmond St to Park Bird	2 Lane Collector (continuous left-turn lane)	15,000	14,839	686.0	되	14,060	0.937	ы	-779	-0.052	ON
d to POR Ave Directly Ave e to Upas St oo PI Laurel St to Curlew St Laurel St et to University Ave et to Robinson Ave et to Robinson Ave for University Ave for University Ave for University Ave for Upas St mat Ave Eighth Ave Eighth Ave Richmond St to Park Bird	3 Lane Collector (no center lane)	11,500	11,806	1.027	Ŀ	15,467	1.345	H	3661	0.318	YES
University Ave re to Robinson Ave re to Robinson Ave re to Upas St Ourlew St Laurel St Laurel St re to University Ave re to Robinson Ave re to Robinson Ave re to Robinson Ave re to Robinson Ave Etg Ave Etghth Ave Richmond St	4 Lane Major Arterial	40,000	11,524	0.288	Ą	18,600	0.465	м	7076	0.177	ON
we to Robinson Ave e to Upas St DO FI Laurel St Laurel St Laurel St e to University Ave e to University Ave re to Robinson Ave fet D University Ave Eighthi Ave Eighthi Ave Rickmond St to Park Bird	4 Lane Major Arterial	40,000	13,936	0.348	Ą	22,500	0.563	D	8564	0.215	ON
o Dries St. o Curlew St. Laurel St. te to University Ave ev to Robinson Ave et to Upas St. fixid Ave Eighth Ave Richmond St. to Park Bird	4 Lane Major Arterial	40,000	14,400	0.360	Ą	19,800	0.495	Д	5400	0.135	NO
oo Pil Laurei St. Laur	2 Lane Collector (continuous left-turn lane)	15,000	12,501	0.833	D	17,200	1.147	F	4699	0.314	YES
o Ourlew St. Laurel St. Laurel St. e to University Ave ve to Robinson Ave e to Upas St. Erit Ave Eighth Ave Richmond St.	4 Lane Major Arterial	40,000	13,807	0.345	A	17,700	0.443	В	3893	0.098	NO
Laurel St. Laurel St. Leurel St. eto University Ave ev to Robinson Ave eve to Upas St. Exit Ave Eighth Ave Eighth Ave Rickmond St.											
Laurel St. eto University Ave eto Robinson Ave eto Upas St. ixt Ave Eighth Ave Eighth Ave	2 Lane Collector (continuous left-turn lane)	15,000	1,955	0.130	Ą	5,300	0.353	В	3345	0.223	ON
e to University Ave e to Robinson Ave e to Upas St mist Ave Eighth Ave Richmond St to Park Bird	2 Lane Collector (continuous left-turn lane)	15,000	7,200	0.480	2	8,600	0.573	C	1400	0.093	ON
e to University Ave e to Evolution Ave e to Evolution Ave End May ave Eighth Ave Richmond St											
ve to Robinson Ave e to Upas St trist Ave Eighth Ave Richmond St to Park Bivd	2 Lane Collector (no center lane)	8,000	7,085	0.886	Ε	9,000	1.125	F	1915	0.239	YES
e to Upas St irst Ave Eighth Ave Richmond St to Park Bird	2 Lane Collector (no center lane)	8,000	5,345	899'0	D	6,700	0.838	Ξ	1355	0.170	AES
Third Ave Eighth Ave Richmond St to Park Blod	2 Lane Collector (no center lane)	8,000	5,015	0.627	D	8,100	1.013	F	3085	98£'0	YES
ust Ave Intra Ave Eighth Ave Richmond St to Park Elvd	CONTRACTOR	700	200								
hird Ave Eighth Ave Richmond St	2 Lane Collector (no center lane)	8,000	1,995	0.249	Ą	4,600	0.575	O	2605	0.326	ON
Eighth Ave Richmond St to Park Blvd		8,000	5,800	0.725	Q	11,500	1.438	Ŀ	5700	0.713	YES
Richmond St to Park Blvd	10	8,000	11,022	1.378	Ŀ	14,400	1.800	[24	3378	0.422	YES
to Park Blvd		15,000	10,120	0.675	Q	12,300	0.820	Д	2180	0.145	ON
S	2 Lane Collector (continuous left-turn lane)	15,000	7,269	0.485	O	9,200	0.613	O	1931	0.128	ON
2	2 Lane Collector (no center lane)	8,000	5,830	0.729	D	10,500	1.313	F	4670	0.584	YES
St	3 Lane Collector (one-way)	26,000	13,920	0.535	В	18,200	0.700	C	4280	0.165	ON
Washington St to India St	2 Lane Collector (one-way)	17,500	4,920	0.281	Ą	7,100	0.406	Ą	2180	0.125	NO
Laurel St to Juniper St 2	2 Lane Collector (no center lane)	8,000	4,140	0.518	C	8,200	1.025	Ŀ	4060	0.507	YES
=											50,000
Fort Stockton Dr	2 Lane Collector (no center lane)	8,000	2,595	0.324	В	4,600	0.575	0	2005	0.251	NO
				•							
Ibis St to Albatross St 2	2 Lane Collector (no center lane)	8,000	10,527	1.316	H	14,700	1.838	æ	4173	0.522	YES
	2 Lane Collector (no center lane)	8,000	16,851	2.106	Ŀı	20,800	2.600	Ē	3949	0.494	YES
	2 Lane Collector (no fronting property)	10,000	11,750	1.175	<u>[</u>	14,100	1.410	Œ,	2350	0.235	YES
93	2 Lane Collector (continuous left-turn lane)	15,000	20,250	1.350	£4	21,600	1.440	<u>-</u>	1350	060.0	YES
	4 Lane Collector	30,000	21,184	0.706	Д	24,900	0.830	ДΙ	3716	0.124	ON
	4 Lane Collector (no center lane)	15,000	24,400	1.627	ín (29,300	1.953	E4 C	4900	0.326	YES
Vermont St to Normal St	4 Lane Major Artenal	40,000	23,938	0.598	Ü	25,600	0.040	U	1662	0.042	ON
al St to Park Blvd	4 Lane Collector (no center lane)	15,000	16,275	1.085	Ē	21,200	1.413	Ŀ	4925	0.328	YES
7		4 4 4		4	1	0.00	4			6	0.00
SIXIN AVE	2 Lane Collector (no fronting property)	10,000	4,470	0.448	η	3,500	0.850		4025	0.402	O N
Washington St											
India St to University Ave	4 Lane Major Arterial	40,000	676,12	0.698	0	34,800	0/8/0	a '	68/1	2/1/2	ON:
University Ave to First Ave	4 Lane Major Arterial	40,000	20,477	0.512	м	25,400	0.635	0	4923	0.123	ON
First Ave to Fourth Ave	4 Lane Major Arterial	40,000	25,745	0.644	Ü	25,745	0.644	U	0	0.000	NO
Fourth Ave to Fifth Ave	4 Lane Major Arterial	40,000	30,900	0.773	Д	37,300	0.933	ы	6400	0.160	YES
Fifth Ave to Sixth Ave	4 Lane Major Arterial	40,000	38,428	0.961	ы П	41,100	1.028	[24] I	2672	190.0	YES
Sixth Ave to Richmond St	4 Lane Major Arterial	40,000	41,778	1.044	£ (41,778	1.044	4	0	0000	ON
Richmond St to Normal St	6 Lane Major Arterial	20,000	38,725	0.775	S	47,100	0.942	Э	8375	0.167	YES

Notes:

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Table 4-7 Future Year Summary of Roadway Segment Analysis (cont.)

ROADWAY SEGMENT				27.72			2012	in the second			
of the	ROADWAY FUNCTIONAL CLASSIFICATION	LOS E CAPACITY	ADT	V/C RATIO (a)	TOS	ADT	V/C RATIO (a)	TOS	∆ in ADT	∆ in V/C	SIGNIFICANT?
.001		NORTHPARK	PARK								
Som St				8				20			
Adams Ave to Meade Ave	2 Lane Collector (continuous left-turn lane)	15,000	6,325	0.422	В	10,400	0.693	D	4075	0.271	ON
Meade Ave to El Cajon Blvd	2 Lane Collector (continuous left-turn lane)	15,000	10,912	0.727	D	14,400	0.960	Е	3488	0.233	YES
El Cajon Blvd to Howard Ave	2 Lane Collector (continuous left-turn lane)	15,000	12,684	0.846	Q	12,684	0.846	Д	0	0.000	ON
Howard Ave to Lincoln Ave	2 Lane Collector (continuous left-turn lane)	15,000	12,703	0.847	D	17,900	1.193	F	5197	0.346	YES
Lincoln Ave to University Ave	2 Lane Collector (continuous left-turn lane)	15,000	12,500	0.833	D	14,000	0.933	Ε	1500	0.100	XES
University Ave to North Park Way	2 Lane Collector (continuous left-turn lane)	15,000	12,150	0.810	D	12,500	0.833	Q	350	0.023	ON
North Park Way Ave to Upas St	2 Lane Collector (continuous left-turn lane)	15,000	12,241	0.816	D	16,500	1.100	Ŧ	4259	0.284	XES
Upas St to Redwood St	2 Lane Collector (no center lane)	8,000	8,824	1.103	Н	11,900	1.488	দ	3076	0.385	YES
Redwood St to Juniper St	2 Lane Collector (no center lane)	8,000	10,013	1.252	F	12,100	1.513	H	2087	0.261	YES
32nd St				3							
Howard Ave to Lincoln Ave	2 Lane Collector (no center lane)	8,000	1,845	0.231	A	4,400	0.550	O	2555	0.319	ON
Lincoln Ave to University Ave	2 Lane Collector (no center lane)	8,000	3,300	0.413	В	3,300	0.413	В	0	0.000	ON
University Ave to Myrtle Ave	2 Lane Collector (no center lane)	8,000	5,000	0.625	Д	11,200	1.400	ᄺ	6200	0.775	YES
Myrtle Ave to Upas St	2 Lane Collector (no center lane)	8,000	586'9	0.873	Э	7,900	886'0	Э	915	0.115	YES
Upas St St to Redwood St	2 Lane Collector (no center lane)	8,000	5,200	0.650	Q	5,200	0.650	Д	0	0.000	NO
Redwood St to Juniper St	2 Lane Collector (no center lane)	8,000	2,218	0.277	Ą	2,600	0.325	Д	382	0.048	ON
Adams Ave			5								
Park Blvd to Alabama St	2 Lane Collector (continuous left-turn lane)	15,000	852'9	0.451	В	7,400	0.493	C	642	0.042	ON
Alabama St to Texas St	2 Lane Collector (continuous left-turn lane)	15,000	996'8	0.598	C	8,966	0.598	C	0	0.000	ON
Texas St to 30th St	2 Lane Collector (continuous left-turn lane)	15,000	10,700	0.713	D	13,800	0.920	Ε	3100	0.207	YES
30th St to W Mountain View Dr	2 Lane Collector (continuous left-turn lane)	15,000	19,929	1.329	F	19,929	1.329	F	0	0.000	ON
Boundary St		8									
University Ave to North Park Way	2 Lane Collector (no center lane)	8,000	12,620	1.578	F	16,000	2.000	F	3380	0.422	XES
North Park Way to Myrtle Ave	1 Lane Collector (one-way)	7,500	2,730	0.364	В	3,300	0.440	В	570	0.076	ON
Myrtle Ave to Redwood St	2 Lane Collector (no center lane)	8,000	4,670	0.584	Э	6,000	052:0	D	1330	0.166	ON
Redwood St to Commonwealth Ave	2 Lane Collector (no center lane)	8,000	3,550	0.444	C	3,900	0.488	٥	350	0.044	ON
Commonwealth Ave								3			
Boundary St to Juniper St	2 Lane Collector (no center lane)	8,000	1,480	0.185	Ą	2,800	0.350	В	1320	0.165	NO
El Cajon Blvd											
Park Blvd to Florida St	6 Lane Major Arterial	50,000	19,407	0.388	A	27,100	0.542	В	7693	0.154	NO
Florida St to Texas St	6 Lane Major Arterial	50,000	23,366	0.467	В	34,600	0.692	C	11234	0.225	NO
Texas St to Oregon St	6 Lane Major Arterial	50,000	24,479	0.490	В	34,800	0.696	C	10321	0.206	NO
Oregon St to Utah St	6 Lane Major Arterial	50,000	32,468	0.649	S	42,800	0.856	Д	10332	0.207	ON
Utah St to 30th St	6 Lane Major Arterial	20,000	32,191	0.644	S	39,800	962'0	C	7609	0.152	ON
30th St to Illinois St	6 Lane Major Arterial	50,000	39,116	0.782	D	48,800	976.0	Э	9684	0.194	YES
Illinois St to I-805 Ramps	6 Lane Major Arterial	20,000	46,062	0.921	Э	28,900	1.178	F	12838	0.257	YES
Florida St											
El Cajon Blvd to University Ave	2 Lane Collector (no center lane)	8,000	3,375	0.422	В	7,400	0.925	Э	4025	0.503	YES
University Ave to Robinson Ave	2 Lane Collector (no center lane)	000'8	5,450	0.681	Д	8,800	1.100	Ŧ	3350	0.419	XES
Robinson Ave to Upas St	2 Lane Collector (no center lane)	8,000	2,600	0.700	Q	6,800	0.850	ı	1200	0.150	YES
Florida Dr											
Upas St to Morley Field Dr	2 Lane Collector (no fronting property)	10,000	5,498	0.550	В	6,700	0.670	ŭ	1202	0.120	NO

Boid values indicate roadway segments operating at LOS E or F. Capacity for non-standard roadway classifications were provided by City of San Diego staff

(a) The v/c Ratio is calculated by dividing the ADT volume by each respective roadway segments capacity.

Table 4-8 Future Year Summary of Roadway Segment Analysis (cont.)

				EXISTING FUTURE YEAR		FU	TURE YEA	R			
				A/C			A/C	0	∆ in ADT	∆ in V/C	SIGNIFICANT?
ROADWAY SEGMENT	ROADWAY FUNCTIONAL CLASSIFICATION	LOS E CAPACITY	ADT	RATIO (a)	TOS	ADT	RATIO (a)	ros			
		NORTH PARK	PARK								
Howard Ave				8	0			30	8	30	
Park Blvd to Florida St	2 Lane Collector (continuous left-turn lane)	15,000	3,000	0.200	A				1800	0.400	NO
	2 Lane Collector (no center lane)*	8,000				4,800	0.600	C		27634805050	
Florida St to Texas St	2 Lane Collector (continuous left-turn lane)	15,000	3,566	0.238	Ą				334	0.250	ON
22 200 1 22 20 20 10 10 1	2 Lane Collector (no center lane)*	8,000				3,900	0.488	C		0.000	
Town Ot to Theb Ot	2 Lane Collector (continuous left-turn lane)	15,000	4,815	0.321	A				4000	1 000	APC
rexas of to otal of	2 Lane Collector (no center lane)*	8,000				11,300	1.413	F	0407	1.032	IES
10 100 -110 1-11	2 Lane Collector (continuous left-turn lane)	15,000	6,137	0.409	В				100	7700	N. T.
Utan St to 30th St	2 Lane Collector (no center lane)*	8,000				10,200	1.275	F	4003	0.800	YES
100 T 100 T 100	2 Lane Collector (continuous left-turn lane)	15,000	7,187	0.479	D				c	000	Detak
SULI DE 10 SZNA DE	2 Lane Collector (no center lane)*	8,000				10,500	1.313	F	5513	0.834	123
Juniper St											
30th St to 32nd St	2 Lane Collector (no center lane)	8,000	3,646	0.456	D	6,200	0.775	Ω	2554	0.319	NO
32nd St to Commonwealth Ave	2 Lane Collector (no center lane)	8,000	2,826	0.353	щ	4,400	0.550	O	1574	0.197	NO
Landis St											100000
Boundary St to Nile St	2 Lane Collector (no center lane)	8,000	3,790	0.474	ರ	4,000	0.500	S	210	0.026	NO
Lincoln Ave											
Florida St to Texas St	2 Lane Collector (no center lane)	8,000	066	0.124	٩	4 300	0.538	Ü	3310	0.414	ON
Texas St to Titab St	2 Tane Collector (no center lane)	8000	2 400	0050	4	3,200	0.400	α	800	0.100	NO
The St to 30th 9th	2 Time Collector (continuous laft-thum lane)	15 000	4.550	0.303	ν. σ	7.500	0.500	C	2950	0.197	ON
30th 0t to 30th 0t	2 I and Collecton (continuous latternation)	15,000	5 563	0.331	Ç p	00000	0.613	0	2636	0.040	OM
30th at to 32nd at	2 Lane Collector (continuous lent-turn lane)	000,01	2,263	0.371	n i	3,200	0.013	2	3037	0.242	NO SI
32nd St to Boundary St	2 Lane Collector (continuous lett-turn lane)	15,000	5,473	0.365	Я	9,800	0.653	S	432/	0.288	NC
Madison Ave											
Park Blvd to Mission Ave	2 Lane Collector (continuous left-turn lane)	15,000	6,110	0.407	В	8,100	0.540	C	1990	0.133	NO
Mission Ave to Texas St	2 Lane Collector (continuous left-turn lane)	15,000	8,040	0.536	C	10,300	0.687	D	2260	0.151	NO
Texas St to Ohio St	2 Lane Collector (no center lane)	8,000	5,295	0.662	D	12,200	1.525	F	6905	0.863	YES
Meade Ave	n n		8					775			
10 B -1 F -1 G -1 F - G	2 Lane Collector (continuous left-turn lane)	15,000	4,060	0.271	Ą				4140	9300	STEG
Fark Divd to 1 exas of	2 Lane Collector (no center lane)*	8,000				8,200	1.025	F	4 I4	0.754	123
#3 1#300 of #3 come E	2 Lane Collector (continuous left-turn lane)	15,000	5,280	0.352	В				4500	700 0	VEG
Texas of to sour of	2 Lane Collector (no center lane)*	8,000				9,900	1.238	F	4020	0.000	IES
Samp Specifit of to 440c	2 Lane Collector (continuous left-turn lane)	15,000	8,576	0.572	C				3004	7700	VEC
Sour of to millions Ave	2 Lane Collector (no center lane)*	8,000				11,500	1.438	F	1354	0.000	15.3
43 cmc I > 4 43 cc cc [[1]	2 Lane Collector (continuous left-turn lane)	15,000	8,651	0.577	2				2240	0.011	VEC
THIRDS BUILD TOWN BU	2 Lane Collector (no center lane)*	8,000				11,900	1.488	F	3243	0.911	IES
Mission Ave	3										
Park Blvd to Mississippi St	2 Lane Collector (one-way)	17,500	1,497	980'0	Ą	3,700	0.211	Ą	2203	0.125	NO
Monroe Ave											
Park Blvd to Mission Ave	2 Lane Collector (no center lane)	8,000	1,200	0.150	A	3,200	0.400	В	2000	0.250	NO
Mission Ave to Texas St	2 Lane Collector (no center lane)	8,000	1,500	0.188	A	5,500	0.688	D	4000	0.500	NO
Texas St to 30th St	2 Lane Collector (no center lane)	8,000	2,158	0.270	A	5,700	0.713	D	3542	0.443	NO
Nile St	CO AN										
Landis St to Thorn St	2 Lane Collector (no center lane)	8,000	4,305	0.538	C	5,000	0.625	D	695	0.087	NO
Notes:											

Both values indicate roadway segments operating at LOSE or F.
*However, the world is a segment operating at LOSE or F.
*Groward Astrone and Maded Astrone with lie edissible as a two later collector with no continous left turn lane to accommodate future bicycle boulevard pending further project level analysis capacity for non-standard roadway classifications were provided by City of San Diego staff.
(a) The v/o Ratio is calculated by dividing the ADT volume by each respective roadway segments capacity

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Table 4-9 Future Year Summary of Roadway Segment Analysis (cont.)

	SIGNIFICANT?		3	NO	v	OIN	ON.		NO	O.E.	ON	YES	NO	NO		NO		YES	YES		NO	YES	NO	NO	SPECIAL SECTION SECTIO	YES	NO	YES	YES	YES	YES	YES	IES	2424	1E3	VES	ON	ON.		NO	NO	NO	YES	NO	NO	ARC
	∆ in V/C			0.176	e	141.0	101.0		0.010		0.2/1	0.151	0.00	0.344		0.218		0.385	0.173		0.153	0.329	0.235	0.161	200	0.313	0000	0.243	0.170	0.109	0.148	0.20	207.0	0.100	0.107	0.240	0.220	0.013		0.501	0.308	0.255	0.596	0.157	0.045	0020
	∆ in ADT		300	1/63	ř.	1,760	7077		75		4061	1212	0	2750		1740		11568	21737		2296	4939	1879	1286		4700	0	3642	2539	1627	00/1	4030	4032	1,500	1340	6726	1753	100		4008	2459	2038	4765	1800	360	1000
3	TOS		0	a r	¥		C		Ą	í	a	Е	O	C		D		H		Ŀι	Ω	Э	Д	Ö	2005	щ	H	E4 1	H 1	F4 [±4 F	±1 [4	F	4 6	4 12	4 0	Д		Q	D	D	Ε	В	Д	£
FUTURE YEAR	V/C RATIO (a)		2	0.850	1.060		0.547		0.288	000	30/33	006.0	0.614	0.550		0.738	2000	1.303	010000000000000000000000000000000000000	1.277	0.847	0.960	0.713	0.513	1000 E	1.593	1.441	1.580	1.527	1.387	5867	1.963	1.973	1 005	1.070	1 087	0.763	0.338		0.625	0.663	0.800	0.913	0.409	0.638	0000
FU	ADT		2	8,500	10,600		8,200		2,300	000	10,500	7.200	4,912	4,400		5,900		39,100	generally accounts	38,300	12,700	14,400	5,700	4,100	000000000000	23,900	21,611	23,700	22,900	20,800	22,800	20,500	000,67	0070	0,000	16 300	6 100	2,700		5,000	5,300	6,400	7,300	4,700	5,100	0000
	SOT			ပ	С	В			A	f	m)	Ω	O	A		O.	ļ	×	ш		Ω	O	ပ	В	20000	Щ	ĬΨ	[24] I	¥, [F4 [-	¥4 [4	-	4 6	4 0	0	Д		Ą	В	C	В	A	O	*
EXISTING	V/C RATIO (a)		0.00	0.6/4	С	0.396			0.278	007.0	0.429	0.749	0.614	0.206		0.520	1	0.918	1.18		0.694	0.631	0.478	0.352	90000000	1.280	1.441	1.337	1.557	1.278	CES.1	1,705	COV.1	0000	0000	0.638	0.543	0.325		0.124	0.355	0.545	0.317	0.252	0.593	0000
I	ADT	PARK	0.000	6,737	(8)	5,938	*		2,225	007.	6,439	5.988	4,912	1,650		4,160		27,532	16,563		10,404	9,461	3,821	2,814	200000000000000000000000000000000000000	19,200	21,611	20,058	20,361	19,173	21,100	19,044	20,708	001.0	7,160	0.574	4 347	2,600		366	2,841	4,362	2,535	2,900	4,740	0101
8	LOS E CAPACITY	NORTH PARK		10,000	10,000	15,000	8,000		8,000	000	15,000	8.000	8,000	8,000		8,000		30,000	15,000	30,000	15,000	15,000	8,000	8,000		15,000	15,000	15,000	000,61	15,000	005,11	16,000	non'cı	0000	00000	15,000	8000	8,000		8,000	8,000	8,000	8,000	11,500	8,000	0000
	ROADWAY FUNCTIONAL CLASSIFICATION			2 Lane Collector (no fronting property)	2 Lane Collector (no fronting property)	2 Lane Collector (continuous left-turn lane)	2 Lane Collector (no center lane)*		2 Lane Collector (no center lane)		2 Lane Collector (continuous left-turn lane)	2 Lane Collector (no center lane)		2 Lane Collector (no center lane)	100	2 Lane Collector (no center lane)		3 Lane Major Artenal	2 Lane Collector (continuous left-turn lane)	4 Lane Collector	2 Lane Collector (continuous left-turn lane)		2 Lane Collector (no center lane)	2 Lane Collector (no center lane)		4 Lane Collector (no center lane)	4 Lane Collector (no center lane)		4 Lane Collector (no center lane)	4 Lane Collector (no center lane)	3 Lane Collector (no center lane)	3 Lane Collector (no center lane)	4 Lane Conector (no center lane)	Complete Annual Control of the Contr	2 Lang Collector (110 center lane)	2 Lane Collector (continuous leftturn lane)	2 Lane Collector (no center lane)	2 Lane Collector (no center lane)		2 Lane Collector (no center lane)	3 Lane Collector (no center lane)	2 Lane Collector (no center lane)	7 0 0			
	ROADWAY SEGMENT		North Park Way	30th St to 32nd St	Orange Ave/Howard Ave	Town T 44 T 0005	TOWA St to 1-803	Pentuckett Ave	Junper St to Fir St	Pershing Dr	Upas St to Redwood St Redwond St	28th St to 30th St	30th St to 32nd St	32nd St to Boundary St	Robinson Ave	Park Blvd to Florida St	Texas St	Adams Ave to Mission Ave	Mission Ave to El Caion Blvd		El Cajon Blvd to Howard Ave	Howard Ave to University Ave	University Ave to Myrtle Ave	Myrtle Ave to Upas St	University Ave	Park Blvd to Florida St	Florida St to Texas St	Texas St to Oregon St	Oregon St to Utan St	Utah St to 30th St	Sun St to Illinois St	Tillinois at to 32nd at	The St. to boundary of	A Tableson Of the Thomas Of	Trans St to Dombing Dd	Desching Rd to 30th St	30th St to 32nd St	32nd St to Boundary St	Utah St	Adams Ave to Monroe Ave	Meade Ave to El Cajon Blvd	El Cajon Blyd to Howard Ave	Howard Ave to Lincoln Ave	Lincoln Ave to University Ave	University Ave to North Park Way	100 22 1 222 1 22 27

Notes:

Bod values indicate roadway segments operating at LOSE or F.

Bod values indicate roadway segments operating at LOSE or F.

**Orange/Toward Avenue will be classified as a two lane collector with no continous left turn lane to accommodate future bicycle boulevard pending further project level analysis Capacity for non-standard roadway classifications were provided by City of San Diego staff.

(a) The v/c Ratio is calculated by dividing the ADT volume by each respective roadway segment's capacity.

Table 4-10 Future Year Summary of Roadway Segment Analysis (cont.)

SEGMENT ROADWAY FUNCT		20 00 00 00 00 00 00 00 00 00 00 00 00 0	(4) (5) (6) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7		ADT 7,800 10,900 17,400 5,100 8,800 19,800 9,500 4,700 4,700 1,000 1,000 19,800 6,500 19,800 6,500 19,800 6,500 19,800 6,500 19,800 6,500 19,800 6,500 19,800 6,500 19,800 6,500 19,800 6,500 19,800 6,500 19,800 6,500 19,800 6,500 19,800 6,500 19,800 6,500 19,800 6,500 19,800 6,500 19,800 6,500	(a) (a) (b) (a) (a) (a) (a) (a) (a) (a) (b) (a) (b) (c) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d	TOS	Δ in ADT	Δin V/C	SIGNIFICANT?
State Collector Collector	2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2	7,550 9,409 12,105 12,105 2,146 4,888 8,150 10,697 10,697 1,610 4,210 2,299	0.503 0.627 0.807 1.1144 0.0268 0.0268 0.0268 0.0268 0.0268 0.0268	00 A M4 0MM 0M0 4	7,800 10,900 17,400 17,400 10,500 19,100 19,100 9,500 9,500	0.520		036		
Stella De St. Stella De St. St. De Broadway St. De Broadway St. De Cost. St. De Broadway St. De Cost. St. De Broadway St. De Cost. St. De Broadway St. De Broa	15,000 15,000 15,000 15,000 15,000 8	9,409 12,105 12,105 2,146 4,888 8,150 10,697 16,610 4,210 2,299	0.503 0.627 0.807 1.1144 0.268 0.011 1.019 1.337 0.028		7,800 10,900 11,400 17,400 17,400 17,400 19,5	0.520		750		
SEBIVA to B. St. St. Bry Lo D. St. St. St. St. Decedway	15,000 15,000 15,000 15,000 15,000 8	9,409 12,105 2,162 2,146 4,888 8,150 10,697 1,209 2,299	0.0503 0.0627 0.0807 1.1144 0.0268 0.0526 0.0287	OO D MA OMM OMO 4	7,800 10,900 17,400 17,400 1,100 19,100 19,100 19,100 19,100 19,100 19,100 19,100 19,100	0.727		050		
and way to F St	15,000 15,000 15,000 15,000 8,	9,409 112,105 2,146 4,888 8,150 10,697 1,210 4,210 4,210	0807 1.144 0.268 0.6011 1.019 1.337 0.268 0.0483 0.056 0.0287 0.		10,900 17,400 5,100 19,100 19,100 19,800 19,800 19,800 9,500	0.727	U	007	0.017	NO
State of the State	15,000 15,000 8,00	12,105 9,152 2,146 4,888 8,150 10,697 1,590 2,299	0.807 1.1144 0.268 1.019 1.337 0.483 0.526 0.526		17,400 17,400 5,152 5,100 10,500 19,100 6,900 6,900 6,900 7,000 6,4,700	1150	0	1491	0.100	NO
andway to F St SE Bled to B St SE Bled to B St St bot C St St bot C St St bot C St St bot C St St bot St St bot St bot St bot St	8,000 8,000 8,000 8,000 8,000 8,000 8,000 8,000 8,000 8,000 8,000 8,000 8,000 8,000 8,000 8,000	9,152 2,146 4,888 8,150 10,697 16,610 4,210	1.144 0.268 0.611 1.019 1.337 0.483 0.526 0.287		9,152 5,100 8,800 10,500 19,100 6,900 19,800 9,500 4,700	1.160		6	0	
SE SIN OF SE S	8,000 8,000 8,000 8,000 8,000 8,000 8,000 8,000 8,000 8,000 8,000 8,000 8,000	9,152 2,146 4,888 8,150 10,697 16,610 4,210 2,299	0.268 0.268 0.611 1.019 1.337 0.483 2.076 0.526		9,152 5,100 8,800 10,500 19,100 6,900 19,800 9,500 4,700	1.160	F	5295	0.35.5	YES
SEE Brid to B St. SEE Brid to C St. SE Brid to C St. St. De Broadway St. De St. St. St. De St. St. De St. St. St. De St. St. De St. St. De St	8,000 8,000 8,000 8,000 8,000 8,000 8,000 8,000 8,000 8,000 8,000	9,152 2,146 4,888 8,150 10,697 1,6610 4,210 4,210 5,299	0.268 0.268 0.268 0.268 0.268 0.268 0.268 0.268 0.283 0.285 0.287 0.287 0.287	#4 0 # # 0 # A 4	9,152 5,100 8,800 10,500 19,100 6,900 19,800 9,500 4,700				20	
SELECT CST. SELEC	8,000 8,000 8,000 8,000 8,000 8,000 8,000 15,000 8,000	2,146 4,888 8,150 10,697 16,610 4,210 2,299	0.268 0.611 1.019 1.337 0.483 2.076 0.526	4 011 010 4	5,100 8,800 10,500 19,100 6,900 19,800 9,500 4,700	1.144	F	0	0.000	NO
25 Elvol to C St. 25 Elvol Adri St. 25 Elvol Adri St. 25 Elvol Adri St. 26 Elvol Adri St. 26 Elvol Adri St. 27 Elvol Adri St. 28 Elvol Adri St. 28 Elvol Adri St. 29 Elvol Adri St. 29 Elvol Adri St. 20 Elvol Adri St. 20 Elvol Adri St. 20 Elvol Adri St. 26 Elvol Adri St. 27 Elvol Adri St. 28 Elvol Adri St. 28 Elvol Adri St. 28 Elvol Adri St. 29 Elvol Adri St. 29 Elvol Adri St. 29 Elvol Adri St. 20 Elvol Adri	8,000 8,000 8,000 8,000 8,000 8,000 15,000 8,000	4,888 8,150 10,697 16,610 4,210 2,299	0.611 1.019 1.337 0.483 0.526 0.526		8,800 10,500 19,100 6,900 19,800 9,500 4,700	0.638	D	2954	0.370	ON
28. B D A d to C St. 18. Lo Baroadway 28. B A d to C St. 94 28. St. to C St. 94 29. St. to C St. 95 29. St. t	8,000 8,000 8,000 8,000 8,000 8,000 15,000 8,000	8,150 10,697 16,610 4,210 2,299	0.611 1.019 1.337 0.483 2.076 0.526 0.287		8,800 10,500 19,100 6,900 19,800 9,500 4,700					
### Decorporation ### De	8,000 8,000 8,000 8,000 8,000 8,000 15,000 8,000	8,150 10,697 3,865 16,610 4,210 2,299	1.019 1.337 0.483 2.076 0.526	4 C + C 4	10,500 19,100 6,900 19,800 9,500 4,700	1.100	F	3912	0.489	YES
and way to SR-94 ape St to Ash St ape St to Ash St st to Ercadway and way to SR.94 his to 2th St	8,000 8,000 8,000 8,000 15,000 15,000 8,000	3,865 16,610 4,210 2,299	1.337 0.483 2.076 0.526 0.287	F 0F0 4	19,100 6,900 19,800 9,500 4,700	1.313	F	2350	0.294	YES
### 15 #### 15 #### 15 #### 15 #### 15 #### 15 #### 15 ########	8,000 8,000 8,000 8,000 15,000 8,000	3,865 16,610 4,210 2,299	0.483 2.076 0.526 0.287	0 4 0	6,900 19,800 9,500 4,700	2.388	F	8403	1.051	YES
ppe St to Ash St St De Broadway St Lo Broadway St Lo Broadway Injer St to Grape St h St to 26th St	8,000 8,000 8,000 8,000 15,000 8,000	3,865 16,610 4,210 2,299	0.483 2.076 0.526 0.287	0 H O 4	6,900 19,800 9,500 4,700					
St to Broadway st andway to SR.94 st andway to SR.94 injer St to Crap e St h St to 20th St	8,000 8,000 8,000 15,000 8,000	16,610 4,210 2,299	0.526	F 0 4	9,500	0.863	Ξ	3035	0.380	YES
Age of the case of	8,000 8,000 15,000 8,000	2,299	0.526	υ 4	9,500	2.475	H	3190	0.399	YES
A SE TO Crape SE TO Crape SE TO Crape SE TO Crape SE TO SE T	8,000 15,000 8,000	2,299	0.287	A	4,700	1.188	F	5290	0.662	YES
h St to Orth St h St to Orth St h St to Orth St h St to 20th St h St h St to 20th St h St h St to 20th St h St h St h St to 20th St h S	8,000 15,000 8,000	2,299	0.287	Ą	4,700					
h Si to 20th Si h Si to Fern Si h Si to Fern Si h Si to Fern Si h Si to 20th Si	15,000	5 270				0.588	0	2401	0.301	NO
20th St. 22th St. 22th St. 22th St. 22th St. 22th St. 30th St. 22th St.	15,000	626.3								
25th 83 26th 83 26th 83 30th 83 Fern St 25th 85 25th 85 878-94 20th 85 20th	8,000	2,2/2	0.358	В	6,500	0.433	В	1128	0.075	ON
26th St. 28th St. 30th St. Fern St. 20th St. 25th St.	222024636	3,708	0.464	S	5,400	0.675	Q	1692	0.211	NO
2.28th St. 5.30th St. 20th St. 20th St. 22th St. 22th St. 30th St. 22th St.	8,000	4,600	0.575	C	7,500	0.938	Ξ	2900	0.363	YES
20th St.	8,000	6,200	0.775	D	7,100	0.888	Ε	900	0.113	XES
20th St. 22th St. 22th St. 22th St. SR-34 20th St. 22th St. SR-34 20th St. 20th St. 20th St. 22th St. 25th St. 22th St.	8,000	2,713	0.339	В	5,700	0.713	D	2987	0.374	NO
Fem St 20th St 25th St 28th St 30th St SR94 20th St 20th St 25th St		307	10							
20th St 25th St 28th St 30th St SR-94 22th St 25th St	8,000	1,770	0.221	A	6,200	0.775	D	4430	0.554	NO
h St to 20th St h S	3			9						
10 10 10 20 10 10 10 10 10 10 10 10 10 10 10 10 10	15,000	5,788	0.386	м	6,000	0.400	Д	212	0.014	NO
A SE LO 28th SE ASE ASE ASE ASE ASE ASE ASE ASE ASE	15,000	4,867	0.324	Ą	8,000	0.533	O	3133	0.209	NO
h St to 37th St h St to 37th St h St to 25th St h St to 25th St h St to 25th St	15,000	4,165	0.278	Ą	5,500	0.367	М	1335	0.089	NO
h Str to Str. 94. h Str to 20th St. h St to 22th St. h St to 22th St.	15,000	3,279	0.219	Ą	4,900	0.327	Ą	1621	0.108	NO
h St to 20th St h St to 25th St h St to 28th St	8,000	15,881	1.985	ĬΞŧ	15,811	1.976	H	-70	-0.009	NO
			0.000							100,000
	7,500	3,827	0.510	D	6,100	0.813	Ω	2273	0.303	NO
2 Lane Collecto	15,000	3,923	0.26	Ą	4,500	0.300	4	577	0.038	NO
	15,000			9	2,500	0.367	Д			V 1
2 Lane Collector	15,000	2,658	0.177	Ą	4,100	0.273	Ą	1442	960.0	NO
30th St to 34th St 2 Lane Collector (no center lane)	8,000	4,230	0.53	D	7,900	0.988	ы	3670	0.459	YES
	0000	2100	0300	£	000	3010	4	303	0000	V.L.
Ferror St 2 Lane Collector (no center lane)	8,000	C18,2	0.352	η	3,400	U.425	η	82	0.073	DI DI
The Control of Control				ļ	0	2		0.00	0	No. of Contract of
pest 2 Lane Col	33,000	005,8	1.044	4 1	3,500	1.113	4	000	0.069	YES
Grape St to A St 2 Lane Collector (no center lane)	8,000	8,082	1.010	H	15,000	1.875	H	6918	0.865	YES
			-							
30th St to 31st St 2 Lane Collector (no center lane)	8,000	2,614	0.327	В	9,000	1.125	4	6386	0.798	YES

Bold values indicate roadway segments operating at LOSE or F.

Solvenge-Howard Aprenue will be classified as a two lane collector with no continous left tunn lane to accommodate future bicycle boulevard pending further project level analysis capacity for non-standard roadway classifications were provided by City of San Diego staff.

(a) The v/o Ratio is calculated by dividing the ADT volume by each respective roadway segment's capacity.

 Table 4-11 Future Year Freeway Segment Analysis Summary

		NUMBER	CAPACITY	EXISTING	LING	FUTURE YEAR	YEAR		
FREEWAY SEGMENT	DIRECTION	OF LANES	(a)	V/C RATIO	ros	V/C RATIO	ros	Δ (c)	SIGNIFICANT?
<i>u</i> <u>.</u>			A	AM PEAK					
	NB	4 M + 1 A	9.200	0.950	E	1.183	F0	0.234	YES
Old Town Ave to Washington St	SB		9,200	0.746	C	0.798	C	0.052	NO
Working of on Ct to Dociff o Highman	NB	4 M	8,000	0.840	Q	1.096	F0	0.256	YES
Washington St to Facility frighway	SB	4 M	8,000	099.0	C	0.739	С	0.079	NO
First Ave to Sixth Ave	NB	4 M + 1 A	9,200	1.264	F1	1.341	F1	0.078	YES
	SB	5 M + 1 A	11,200	0.346	A	0.743	C	0.397	NO
SR-163 to SR-94	NB	5 M + 1 A	11,200	1.085	F0	1.149	$\mathbf{F0}$	0.064	YES
	SB	5 M + 1 A	11,200	0.362	A	0.901	D	0.540	NO
SR-94 to Imperial Ave	NB	4 M + 1 A	9,200	1.035	F0	1.064	F0	0.029	YES
01	SB	4 M + 1 A	9,200	0.345	A	0.835	D	0.490	NO
0-1	WB	4 M + 1 A	9.200	1.022	F0	1.333	F1	0.311	YES
Hotel Circle (W) to Hotel Circle (E)	EB	4 M	8.000	0.887	Q	0.763	0	-0.124	ON
	WB	4 M + 1 A	9,200	1.109	F0	1.366	F2	0.257	YES
Mission Center Kd to Qualcomm Wy	EB	4 M + 1 A	9,200	0.837	D	0.680	С	-0.157	ON
L-805 to SB-15	WB	4 M + 1 A	9,200	1.349	F1	1.545	F2	0.196	YES
1.00 to 20.10	EB	4 M + 1 A	9,200	0.727	C	0.766	C	0.040	NO
SR-15									
I-805 to SR-94	NB	3 M + 1 A	7,200	0.532	В	0.772	C	0.241	NO
	SB	2 M + 1 A	5,200	0.976	E	1.283	F1	0.307	YES
1-805		,			,				2
I-8 to Adams Ave	NB	4 M + 1 A	9,200	1.262	F1	1.515	F2	0.253	YES
	SB	5 M + 1 A	11,200	0.383	A	0.458	В	0.074	NO
El Cajon Blvd to University Ave	NB	4 M	8,000	0.602	В	1.427	F2	0.825	YES
	SB	4 M + 1 A	9,200	1.063	F0	0.457	В	-0.607	NO
University Ave to SR-15	NB	4 M + 1 A	9,200	0.466	В	1.207	F0	0.740	YES
	SB	4 M + 1 A	9,200	0.947	E	0.421	В	-0.526	NO
SR-94									
25th St to 28th St	WB	4 M	8,000	0.976	Ξ	1.241	F0	0.264	YES
	EB	4 M	8,000	0.361	A	0.470	В	0.109	NO
28th St to 30th St	WB	4 M	8,000	1.095	F0	1.303	F1	0.208	YES
	EB	4 M	8,000	0.405	A	0.494	В	0.089	NO
Broadway to SR-15	WB	4 M	8,000	1.214	F0	1.414	F2	0.200	YES
CD 143	EB	4 M + 1 A	9,200	0.390	Α	0.466	В	0.075	NO
COLLAG	NB	3 M + 1 A	0062	0.575	m.	1 1 2 1	EO	0.546	VES
I-8 to Washington St	SB	3 M + 1 A	7 200	8280	2 0	0.950) E	0.122	YES
	S S	2 M	4,000	0.800	2	0.830	D	0.031	ON
Washington St to Robinson Ave	SB	2 M	4,000	1.151	F0	1.846	F2	969.0	YES
, , , , , , , , , , , , , , , , , , ,	NB	2 M	4,000	0.884	D	0.914	D	0.030	ON
Quince Dr to 1-5	SB	2 M	4,000	1.641	F2	2.032	F3	0.391	YES
Notes:									
\boldsymbol{Bold} values indicate freeway segments operating at LOS E or F.	S E or F.								
 (a) The capacity is calculated as 2,000 AD1 per lane and 1,200 AD1 per auxiliary lane (b) Traffic volumes provided by City of San Diego model 	d 1,200 AD1 per auxil lel	iary lane							
(c) Peak-hour volume calculated by: (ADT*K*D)/Truck Factor	c Factor								
									ī

Table 4-12 Future Year Freeway Segment Analysis Summary (cont.)

		NUMBER	CAPACITY	EXISTING	ING	FUTURE YEAR	YEAR		
FREEWAY SEGMENT	DIRECTION	OF LANES	(a)	V/C RATIO	ros	V/C RATIO	ros	Δ (c)	SIGNIFICANT?
i,			P	PM PEAK					
6-1	N N	4 M + 1 A	9 200	0 780	ر	1 000	Œ	0220	VES
Old Town Ave to Washington St	SB	4 M + 1 A	9,200	0.916	Q	1.187	F0	0.271	YES
	NB	4 M	8,000	069.0	C	0.926	Ε	0.236	YES
Washington St to Pacific Highway	SB	4 M	8,000	0.810	D	1.100	F0	0.290	YES
First Ave to Sixth Ave	NB	4 M + 1 A	9,200	1.078	F0	1.133	F0	0.055	YES
	SB	5 M + 1 A	11,200	0.498	В	1.105	F0	0.607	YES
SR-163 to SR-94	NB	5 M + 1 A	11,200	0.926	E	1.091	F0	0.166	YES
	SB	5 M + 1 A	11,200	0.521	В	1.213	F0	0.693	YES
SR-94 to Imperial Ave	NB	4 M + 1 A	9,200	0.883	D	1.011	F0	0.127	YES
	SB	4 M + 1 A	9,200	0.497	В	1.124	F0	0.627	YES
I-8									
Hotel Circle (W) to Hotel Circle (E)	WB	4 M + 1 A	9,200	0.807	D	0.889	D	0.082	NO
	EB	4 M	8,000	1.134	F0	1.449	F2	0.315	YES
Mission Center Rd to Oualcomm Wv	WB	4 M + 1 A	9,200	0.876	D	0.910	D	0.035	NO
	EB	4 M + 1 A	9,200	1.070	F0	1.291	F1	0.221	YES
I-805 to SR-15	WB	4 M + 1 A	9,200	0.893	D	0.920	E	0.027	YES
	EB	4 M + 1 A	9,200	1.183	$\mathbf{F}0$	1.511	F2	0.327	YES
SR-15				ļ					
L-805 to SB-94	NB	3 M + 1 A	7,200	0.532	В	1.120	F0	0.589	YES
	SB	2 M + 1 A	5,200	0.976	E	1.367	F2	0.391	YES
I-805									
I-8 to Adams Ave	NB	4 M + 1 A	9,200	0.588	В	1.063	F0	0.475	YES
	SB	5 M + 1 A	11,200	0.937	E	1.297	F1	0.360	YES
El Caion Blyd to University Ave	NB	4 M	8,000	1.095	F0	1.001	F0	-0.094	NO
	SB	4 M + 1 A	9,200	0.635	C	1.293	F1	0.659	YES
University Ave to SP 15	NB	4 M + 1 A	9,200	0.848	D	0.867	D	0.019	NO
Offiversity Ave to SN-13	SB	4 M + 1 A	9,200	0.565	В	1.203	F0	0.637	YES
SR-94									
25th St to 28th St	WB	4 M	8,000	0.401	А	0.612	В	0.210	NO
	EB	4 M	8,000	0.936	E	1.482	F2	0.545	YES
28th St to 30th St	WB	4 M	8,000	0.450	В	0.642	C	0.192	NO
	EB	4 M	8,000	1.050	F0	1.556	F2	0.506	YES
Broadway to SR-15	WB	4 M	8,000	0.499	В	0.697	C	0.198	NO
	EB	4 M + 1 A	9,200	1.012	F0	1.468	F2	0.456	YES
SR-163									
I-8 to Washington St	NB	3 M + 1 A	7,200	0.870	η	1.301	FI	0.431	YES
	SB	3 M + 1 A	7,200	0.533	В	0.797	C	0.264	NO
Washington St to Robinson Ave	NB	2 M	4,000	1.209	F0	1.658	F2	0.449	YES
	SB	2 M	4,000	0.741	C	1.016	F0	0.275	YES
Onince Dr to L-5	NB	2 M	4,000	1.364	F2	1.362	F2	-0.001	NO
	SB	2 M	4,000	1.162	$\mathbf{F0}$	1.160	F0	-0.001	NO
Notes:	D								
both values indicate freeway segments obetaining at LOS E or F. (a) The capacity is calculated as 2,000 ADT per lane and 1,200 ADT per auxiliary lane	S.E. Of F. d 1,200 ADT per auxili	arylane							
(b) Traffic volumes provided by City of San Diego model	e								
(c) Peak-hour volume calculated by: (ADT*K*D)/Truck Factor	Factor								

Table 4-13 Future Year Freeway Ramp Metering Analysis Summary

				FYCESS	AVERACE	FUTURE	EXCESS	AVERAGE	AIN DELAV		AVERACE
	PFAK	METER PATE ¹	EXISTING DEMAND ²	EXISTING	EXISTING	YEAR DEMAND ²	YEAR	YEAR	WITH	SIGNIFICANT	WITH
ON-RAMP	PERIOD	(veh/hr)	(veh/hr)	(veh/hr)	(min)	(veh/hr)	(veh/hr)	(min)	(min)	?	QUEUE
				INI	INTERSTATE 5						
	AM	966	1020		1.4	1241	245	14.8	13.3	ON	6,125 ft
washington St to I-5 INB	PM	966	1034	38	2.3	1227	231	13.9	11.6	ON	5,775 ft
Codic Cotto I & NID	AM	966	915	0	0.0	1007	11	9.0	9.0	ON	263 ft
adia St to t-3 ind	PM	966	1066	70	4.2	1173	177	10.6	6.4	ON	4,415 ft
Househouse C++0 I S MD	AM	966	454	0	0.0	460	0	0.0	0.0	ON	0 ft
tawmom St to 1-3 INB	PM	966	842	0	0.0	825	0	0.0	0.0	ON	0 ft
Unaccolt St to 1 5 SB	AM			Ramp no	Ramp not metered in the	a.m. peak			0.0	ON	0 ft
lancock of to 1-3 ob	PM	1140	1287	147	7.7	1542	402	21.2	13.4	YES	10,050 ft
GS 5 I of Pull and and S	AM			Ramp no	Ramp not metered in the a.m. peak	a.m. peak			0.0	ON	0 ft
ettner bivd to 1-3 3.b	PM	498	269	0	0.0	861	363	43.7	43.7	YES	9,070 ft
Bifth Ario to 1 5 SB	AM			Ramp no	Ramp not metered in the a.m. peak	a.m. peak			0.0	ON	0 ft
Tul Ave to 1-3 3B	PM	966	1087	91	5.5	1894	868	54.1	48.6	YES	22,462 ft
				INI	NTERSTATE 8						
ND Towns Ct to I 9 DD	AM			Ramp no	Ramp not metered in the	a.m. peak			0.0	ON	0 ft
D Texas St to I-6 ED	PM	498	465	0	0.0	579	81	8.6	8.6	ON	2,026 ft
SB Tayor St to 18 EB	AM			Ramp no	Ramp not metered in the	a.m. peak			0.0	ON	0 ft
1 LEXAS 31 10 I-8 ED	PM	1140	998	0	0.0	888	0	0.0	0.0	ON	0 ft
				INI	INTERSTATE 8						
El Caion Blud to L-805 NB	AM	1140	860	0	0.0	1118	0	0.0	0.0	ON	0 ft
Cajon Diva to 1-805 IND	PM			Ramp no	Ramp not metered in the p.m. peak	p.m. peak			0.0	NO	0 ft
University Ave to L805 NB	AM	1140	866	0	0.0	1132	0	0.0	0.0	ON	0 ft
	PM			Ramp no	Ramp not metered in the p.m. peak	p.m. peak			0.0	ON	0 ft
				INTE	INTERSTATE 94						
28th St to SR-94 WB	AM	534	100	0	0.0	205	0	0.0	0.0	ON	0 ft
	PM			Ramp no	Ramp not metered in the p.m. peak	p.m. peak			0.0	ON	0 ft
32nd St/Broadway to SR-94 WB	AM	570	66	0	0.0	173	0	0.0	0.0	ON	0 ft
and the same and t	PM			Ramp no	Ramp not metered in the p.m. peak	p.m. peak			0.0	ON	0 ft
25th St to SR-94 FB	AM			Ramp no	Ramp not metered in the a.m. peak	a.m. peak			0.0	ON	0 ft
	PM	096	785	0	0.0	935	0	0.0	0.0	NO	0 ft
28th St to SP 04 EB	AM	,		Ramp no	Ramp not metered in the a.m. peak	a.m. peak			0.0	NO	0 ft
41 51 tO 5N-74 LD	PM	096	732	0	0.0	870	0	0.0	0.0	ON	0 ft
32nd St/Broadway to SR-04 FB	AM			Ramp no	Ramp not metered in the	a.m. peak			0.0	ON	0 ft
and Subjoach as to Six-74 ED	PM	570	464	0	0.0	558	0	0.0	0.0	NO	0 ft
				INTE	INTERSTATE 163						
Joshington St to SP 163 SP	AM	498	373	0	0.0	615	117	14.2	14.2	ON	2,936 ft
wasnington of to ok-103 ob	PM			Ramp no	Ramp not metered in the p.m. peak	n.m. neak			0.0	CZ	Ð ()

1) Meter rate is the assumed peak hour capacity expected to be processed through the ramp meter (using Caltrans fast rate)
2) Demand is the peak hour demand using the on-ramp

5 SIGNIFICANCE OF IMPACTS AND MITIGATION MEASURES

This chapter addresses the project impacts for each of the three communities based on a comparison between the Future Year conditions and the Existing conditions. Per the City's significance thresholds and the analysis methodology presented in this report, the following cumulative impacts to intersections and roadway segments were determined:

5.1 UPTOWN

5.1.1 SIGNIFICANCE OF IMPACTS

INTERSECTIONS

- Washington Street & Fourth Avenue
- Washington Street & Eighth Avenue/ SR-163 Off-Ramp
- Washington Street/ Normal Street & Campus Avenue/ Polk Avenue
- University Avenue & Sixth Avenue
- Elm Street & Sixth Avenue
- Cedar Street & Second Avenue

SEGMENTS

- First Avenue: Washington Street to University Avenue
- First Avenue: University Avenue to Robinson Avenue
- First Avenue: Robinson Avenue to Grape Street
- Fourth Avenue: Arbor Drive to Washington Street
- Fourth Avenue: Walnut Avenue to Laurel Street
- Fifth Avenue: Robinson Avenue to Walnut Avenue
- Sixth Avenue: Washington Street to University Avenue
- Sixth Avenue: University Avenue to Laurel Street
- Sixth Avenue: Laurel Street to Elm Street
- Ninth Avenue: Washington Street to University Avenue
- Campus Avenue/ Polk Avenue: Washington Street to Park Boulevard
- Cleveland Avenue: Tyler Street to Richmond Street
- Fort Stockton Drive: Sunset Boulevard to Goldfinch Street
- Grape Street: First Avenue to Third Avenue
- Grape Street: Third Avenue to Sixth Avenue
- Hawthorn Street: First Avenue to Third Avenue
- Hawthorn Street: Third Avenue to Sixth Avenue
- India Street: Washington Street to Winder Street
- India Street: Glenwood Drive to Sassafrass Street
- India Street: Sassafrass Street to Redwood Street
- Laurel Street: Columbia Street to Sixth Avenue
- Lincoln Avenue: Washington Street to Park Boulevard
- Park Boulevard: Mission Avenue to El Cajon Boulevard
- Park Boulevard: Robinson Avenue to Upas Street
- Richmond Street: Cleveland Avenue to Upas Street
- Robinson Avenue: First Avenue to Third Avenue

- Robinson Avenue: Third Avenue to Eighth Avenue
- San Diego Avenue: Hortensia Street to Pringle Street
- State Street: Laurel Street to Juniper Street
- University Avenue: Ibis Street to Fifth Avenue
- University Avenue: Sixth Avenue to Eighth Avenue
- University Avenue: Normal Street to Park Boulevard
- Washington Street: Fourth Avenue to Sixth Avenue
- Washington Street: Richmond Street to Normal Street

5.1.2 MITIGATION MEASURES

INTERSECTIONS

- Washington Street & Fourth Avenue: Widen Fourth Avenue in the southbound direction to add
 a second left-turn lane. Restripe the southbound approach to be two left-turn lanes, one through
 lane, and one right-turn lane. Uptown CPU significant traffic impact to this intersection would be
 fully mitigated with the implementation of this mitigation measure.
- Washington Street & Eighth Avenue/ SR-163 Off-Ramp: Widen Washington Street in the
 eastbound direction to four lanes and the eastbound direction to three lanes. Widen the SR-163
 Off-ramp to two lanes. Uptown CPU significant traffic impact to this intersection would be fully
 mitigated with the implementation of this mitigation measure.
- Washington Street/ Normal Street & Campus Avenue/ Polk Avenue: Widen Washington
 Street in the northeast direction to add and exclusive right-turn lane. Uptown CPU significant
 traffic impact to this intersection would be fully mitigated with the implementation of this mitigation
 measure.
- University Avenue & Sixth Avenue: Widen 6th Avenue in the southbound to add a second leftturn lane. Uptown CPU significant traffic impact to this intersection would be fully mitigated with the implementation of this mitigation measure.
- Elm Street & Sixth Avenue: Widen Elm Street in the westbound direction to add second rightturn lane. Uptown CPU significant traffic impact to this intersection would be fully mitigated with the implementation of this mitigation measure. This improvement project is identified in the Uptown Impact Fee Study (IFS).
- Cedar Street & Second Avenue: Install a traffic signal at this intersection. Uptown CPU significant traffic impact to this intersection would be fully mitigated with the implementation of this mitigation measure.

SEGMENTS

- First Avenue from Washington Street to University Avenue: Restripe the roadway to a 2 lane collector with continuous left-turn lane. Uptown CPU significant traffic impact to this roadway segment would be fully mitigated with the implementation of this mitigation measure.
- First Avenue from University Avenue to Robinson Avenue: Widen the roadway to a 4 lane collector with continuous left-turn lane. Uptown CPU significant traffic impact to this roadway segment would be fully mitigated with the implementation of this mitigation measure.

- First Avenue from Robinson Avenue to Laurel Street: Restripe the roadway to a 2 lane collector with continuous left-turn lane. Uptown CPU significant traffic impact to this roadway segment would be fully mitigated with the implementation of this mitigation measure.
- First Avenue from Laurel Street to Hawthorn Street: Restripe the roadway to a 2 lane collector with continuous left-turn lane. Uptown CPU significant traffic impact to this roadway segment would be fully mitigated with the implementation of this mitigation measure. This improvement project is identified in the Uptown IFS.
- First Avenue from Hawthorn Street to Grape Street: Restripe the roadway to a 2 lane collector with continuous left-turn lane. Uptown CPU significant traffic impact to this roadway segment would be fully mitigated with the implementation of this mitigation measure.
- Fourth Avenue from Arbor Drive to Washington Street: Widen the roadway to a 4 lane collector with continuous left-turn lane. Uptown CPU significant traffic impact to this roadway segment would be fully mitigated with the implementation of this mitigation measure.
- Fourth Avenue from Walnut Avenue to Laurel Street: Restore the roadway to a 3 lane oneway collector for vehicles and remove the dedicated multi-modal lane. Uptown CPU significant traffic impact to this roadway segment would be fully mitigated with the implementation of this mitigation measure.
- Fifth Avenue from Robinson Avenue to Walnut Avenue: Restore the roadway to a 3 lane oneway collector for vehicles and remove the dedicated multi-modal lane. Uptown CPU significant traffic impact to this roadway segment would be fully mitigated with the implementation of this mitigation measure.
- **Sixth Avenue from Washington Street to University Avenue:** Widen the roadway to a 6 lane prime arterial. Uptown CPU significant traffic impact to this roadway segment would be fully mitigated with the implementation of this mitigation measure.
- **Sixth Avenue from University Avenue to Laurel Street:** Widen the roadway to a 4 lane major arterial. Uptown CPU significant traffic impact to this roadway segment would be fully mitigated with the implementation of this mitigation measure.
- Sixth Avenue from Laurel Street to Elm Street: Widen the roadway to a 4 lane collector. Uptown CPU significant traffic impact to this roadway segment would be fully mitigated with the implementation of this mitigation measure.
- Ninth Avenue from Washington Street to University Avenue: Restripe the roadway to a 2 lane collector with continuous left-turn lane. Uptown CPU significant traffic impact to this roadway segment would be fully mitigated with the implementation of this mitigation measure.
- Campus Avenue/ Polk Avenue from Washington Street to Park Boulevard: Restripe the
 roadway to a 2 lane collector with continuous left-turn lane. Uptown CPU significant traffic impact
 to this roadway segment would be fully mitigated with the implementation of this mitigation
 measure.
- Cleveland Avenue from Tyler Street to Richmond Street: Restripe the roadway to a 2 lane collector with continuous left-turn lane. Uptown CPU significant traffic impact to this roadway segment would be fully mitigated with the implementation of this mitigation measure.
- Fort Stockton Drive from Sunset Boulevard to Goldfinch Street: Restripe the roadway to a 2 lane collector with continuous left-turn lane. Uptown CPU significant traffic impact to this roadway segment would be fully mitigated with the implementation of this mitigation measure.

- **Grape Street from First Avenue to Sixth Avenue:** Restripe the roadway to a 2 lane collector with continuous left-turn lane. Uptown CPU significant traffic impact to this roadway segment would be fully mitigated with the implementation of this mitigation measure.
- Hawthorn Street from First Avenue to Sixth Avenue: Restripe the roadway to a 2 lane collector with continuous left-turn lane. Uptown CPU significant traffic impact to this roadway segment would be fully mitigated with the implementation of this mitigation measure.
- India Street from Washington Street to Winder Street: Restripe the roadway to a 2 lane collector with continuous left-turn lane. Uptown CPU significant traffic impact to this roadway segment would be fully mitigated with the implementation of this mitigation measure.
- India Street from Glenwood Drive to Sassafrass Street: Widen the roadway to a 4 lane oneway collector. Uptown CPU significant traffic impact to this roadway segment would be fully mitigated with the implementation of this mitigation measure.
- India Street from Sassafrass Street to Redwood Street: Widen the roadway to a 3 lane oneway collector. Uptown CPU significant traffic impact to this roadway segment would be fully mitigated with the implementation of this mitigation measure.
- Laurel Street from Columbia Street to Sixth Avenue: Widen the roadway to a 4 lane collector. Uptown CPU significant traffic impact to this roadway segment would be fully mitigated with the implementation of this mitigation measure.
- Lincoln Avenue from Washington Street to Park Boulevard: Restripe the roadway to a 2 lane collector with continuous left-turn lane. Uptown CPU significant traffic impact to this roadway segment would be fully mitigated with the implementation of this mitigation measure.
- Park Boulevard from Mission Avenue to El Cajon Boulevard: Widen the roadway to a 4 lane one-way collector. Uptown CPU significant traffic impact to this roadway segment would be fully mitigated with the implementation of this mitigation measure.
- Park Boulevard from Robinson Avenue to Upas Street: Widen the roadway to a 4 lane oneway collector. Uptown CPU significant traffic impact to this roadway segment would be fully mitigated with the implementation of this mitigation measure.
- Richmond Street from Cleveland Avenue to Robinson Avenue: Restripe the roadway to a 2
 lane collector with continuous left-turn lane. Uptown CPU significant traffic impact to this roadway
 segment would be fully mitigated with the implementation of this mitigation measure. This
 improvement project is identified in the Uptown IFS.
- Richmond Street from Robinson Avenue to Upas Street: Restripe the roadway to a 2 lane collector with continuous left-turn lane. Uptown CPU significant traffic impact to this roadway segment would be fully mitigated with the implementation of this mitigation measure.
- Robinson Avenue from First Avenue to Third Ave: Restripe the roadway to a 2 lane collector with continuous left-turn lane. Uptown CPU significant traffic impact to this roadway segment would be fully mitigated with the implementation of this mitigation measure.
- Robinson Avenue from Third to Eighth Avenue: Widen the roadway to a 4 lane collector.
 Uptown CPU significant traffic impact to this roadway segment would be fully mitigated with the implementation of this mitigation measure.

- San Diego Avenue from Hortensia Street to Pringle Street: Restripe the roadway to a 2 lane collector with continuous left-turn lane. Uptown CPU significant traffic impact to this roadway segment would be fully mitigated with the implementation of this mitigation measure.
- State Street from Laurel Street to Juniper Street: Restripe the roadway to a 2 lane collector with continuous left-turn lane. Uptown CPU significant traffic impact to this roadway segment would be fully mitigated with the implementation of this mitigation measure. This improvement project is identified in the Uptown IFS.
- University Avenue from Ibis Street to Fifth Avenue: Widen the roadway to a 4 lane collector. Uptown CPU significant traffic impact to this roadway segment would be fully mitigated with the implementation of this mitigation measure.
- University Avenue from Sixth Avenue to Eighth Avenue: Widen the roadway to a 4 lane major arterial and install a raised median. Uptown CPU significant traffic impact to this roadway segment would be fully mitigated with the implementation of this mitigation measure.
- University Avenue from Normal Street to Park Boulevard: Widen the roadway to a 4 lane collector. Uptown CPU significant traffic impact to this roadway segment would be fully mitigated with the implementation of this mitigation measure.
- Washington Street from Fourth Avenue to Sixth Avenue: Widen the roadway to a 6 lane major arterial. Uptown CPU significant traffic impact to this roadway segment would be fully mitigated with the implementation of this mitigation measure.
- Washington Street from Richmond Street to Normal Street: Restripe the roadway to a 6 lane prime arterial and remove on-street parking. Uptown CPU significant traffic impact to this roadway segment would be fully mitigated with the implementation of this mitigation measure.

CORRIDORS

Intelligent Transportation Systems (ITS) is the application of technology to transportation systems to maximize efficiency of services. Applying ITS technology to a corridor can improve capacity and operations along the individual segments within the corridor. In the Uptown community, the following corridors would benefit from ITS technology integration:

- Sixth Avenue
- University Avenue
- Washington Avenue

TRANSPORTATION DEMAND MANAGEMENT

Transportation Demand Management (TDM) combines marketing and incentive programs to reduce dependence on automobiles. TDM measures within the Uptown community should be encouraged and supported to help prevent or minimize congestion and parking issues.

5.2 NORTH PARK

5.2.1 SIGNIFICANCE OF IMPACTS

INTERSECTIONS

- Madison Avenue & Texas Street
- El Cajon Boulevard & 30th Street
- El Cajon Boulevard & I-805 SB Ramps
- University Avenue & 30th Street
- University Avenue & I-805 NB Ramps
- North Park Way/ I-805 SB Ramps & Boundary Street/33rd Street
- Upas Street & 30th Street (W)

SEGMENTS

- 30th Street: Meade Avenue to El Cajon Boulevard
- 30th Street: Howard Avenue to University Avenue
- 30th Street: North Park Way to Upas Street
- 30th Street: Upas Street to Juniper Street
- 32nd Street: University Avenue to Upas Street
- Adams Avenue: Texas Street to 30th Street
- Boundary Street: University Avenue to North Park Way
- El Cajon Boulevard: 30th Street to I-805 Ramps
- Florida Street: El Cajon Boulevard to Upas Street
- Howard Avenue: Texas Street to 32nd Street
- Madison Avenue: Texas Street to Ohio Street
- Meade Avenue: Park Boulevard to Iowa Street
- Redwood Street: 28th Street to 30th Street
- Texas Street: Adams Avenue to El Cajon Boulevard
- Texas Street: Howard Avenue to University Avenue
- University Avenue: Park Boulevard to Florida Street
- University Avenue: Texas Street to 32nd Street
- University Avenue: 32nd Street to Boundary Street
- Upas Street: Alabama Street to Pershing Road
- Upas Street: Pershing Road to 30th Street
- Utah Street: Howard Avenue to Lincoln Avenue
- Utah Street: North Park Way to Upas Street

5.2.2 MITIGATION MEASURES

INTERSECTIONS

- Madison Avenue & Texas Street: Widen Texas Street in the northbound direction to add a second through lane. Widen Madison Avenue in the westbound direction to add a second rightturn lane. North Park CPU significant traffic impact to this intersection would be fully mitigated with the implementation of this mitigation measure.
- El Cajon Boulevard & 30th Street: Restripe 30th Street in the southbound direction to add a second left-turn lane and remove parking. Restripe El Cajon Boulevard in the westbound direction

to add a second WB left-turn lane and remove parking. North Park CPU significant traffic impact to this intersection would be fully mitigated with the implementation of this mitigation measure.

- **El Cajon Boulevard & I-805 SB Ramps:** Widen the I-805 SB off-ramp to add a second right-turn lane. North Park CPU significant traffic impact to this intersection would be fully mitigated with the implementation of this mitigation measure.
- University Avenue & 30th Street: Restripe 30th street in the southbound direction to add a second through lane and remove parking. North Park CPU significant traffic impact to this intersection would be fully mitigated with the implementation of this mitigation measure.
- University Avenue & I-805 NB Ramps: Widen University Avenue in the eastbound direction to
 add an exclusive right-turn lane. Widen University Avenue in the westbound direction to add a
 shared through right-turn lane. Restripe and reconstruct medians on the I-805 northbound ramps
 to have dual left-turn lanes and an exclusive through lane and right-turn lane. North Park CPU
 significant traffic impact to this intersection would be fully mitigated with the implementation of this
 mitigation measure.
- North Park Way/ I-805 SB Ramps & Boundary Street/33rd Street: Signalize intersection and add a second left-turn lane in the southbound direction on Boundary Street. Widen the I-805 southbound on-ramp to add an additional receiving lane. North Park CPU significant traffic impact to this intersection would be fully mitigated with the implementation of this mitigation measure.
- **Upas Street & 30**th **Street (W):** Restripe Upas Street in the westbound direction to add an exclusive right-turn lane. North Park CPU significant traffic impact to this intersection would be fully mitigated with the implementation of this mitigation measure.

SEGMENTS

- **30**th **Street from Meade Avenue to El Cajon Boulevard:** Widen the roadway to a 4 lane collector. North Park CPU significant traffic impact to this roadway segment would be fully mitigated with the implementation of this mitigation measure.
- **30**th **Street from Howard Avenue to University Avenue:** Widen the roadway to a 4 lane collector. North Park CPU significant traffic impact to this roadway segment would be fully mitigated with the implementation of this mitigation measure.
- **30**th **Street from North Park Way to Upas Street:** Widen the roadway to a 4 lane collector. North Park CPU significant traffic impact to this roadway segment would be fully mitigated with the implementation of this mitigation measure.
- **30**th **Street from Upas Street to Juniper Street**: Restripe the roadway to a 2 lane collector with continuous left-turn lane. North Park CPU significant traffic impact to this roadway segment would be fully mitigated with the implementation of this mitigation measure.
- **32**nd **Street from University Avenue to Upas Street:** Restripe the roadway to a 2 lane collector with continuous left-turn lane. North Park CPU significant traffic impact to this roadway segment would be fully mitigated with the implementation of this mitigation measure.
- Adams Avenue from Texas Street to 30th Street: Widen the roadway to a 4 lane collector.
 North Park CPU significant traffic impact to this roadway segment would be fully mitigated with the implementation of this mitigation measure.

- Boundary Street from University Avenue to North Park Way: Widen the roadway to a 4 lane collector. North Park CPU significant traffic impact to this roadway segment would be fully mitigated with the implementation of this mitigation measure. This improvement project is identified in the North Park Impact Fee Study (IFS).
- El Cajon Boulevard from 30th Street to I-805 Ramps: Widen the roadway to an 8 lane major arterial. North Park CPU significant traffic impact to this roadway segment would be fully mitigated with the implementation of this mitigation measure.
- Florida Street from El Cajon Boulevard to Upas Street: Restripe the roadway to a 2 lane collector with continuous left-turn lane. North Park CPU significant traffic impact to this roadway segment would be fully mitigated with the implementation of this mitigation measure.
- Howard Avenue from Texas Street to 32nd Street: Remove proposed bicycle boulevard and provide a 2 lane collector with continuous left-turn lane. North Park CPU significant traffic impact to this roadway segment would be fully mitigated with the implementation of this mitigation measure.
- Madison Avenue from Texas Street to Ohio Street: Restripe the roadway to a 2 lane collector
 with continuous left-turn lane. North Park CPU significant traffic impact to this roadway segment
 would be fully mitigated with the implementation of this mitigation measure. This improvement
 project is identified in the North Park Impact Fee Study (IFS).
- Meade Avenue from Park Boulevard to Iowa Street: Remove proposed bicycle boulevard and provide a 2 lane collector with continuous left-turn lane. North Park CPU significant traffic impact to this roadway segment would be fully mitigated with the implementation of this mitigation measure.
- Redwood Street from 28th Street to 30th Street: Restripe the roadway to a 2 lane collector with continuous left-turn lane. North Park CPU significant traffic impact to this roadway segment would be fully mitigated with the implementation of this mitigation measure.
- Texas Street from Adams Avenue to El Cajon Boulevard: Widen the roadway to a 6 lane
 major arterial. North Park CPU significant traffic impact to this roadway segment would be fully
 mitigated with the implementation of this mitigation measure. However, partial mitigation has
 been proposed with the construction of a 4 lane collector with continuous center left-turn lane
 between Madison Avenue and El Cajon Boulevard.
- Texas Street from Howard Avenue to University Avenue: Widen the roadway to a 4 lane collector. North Park CPU significant traffic impact to this roadway segment would be fully mitigated with the implementation of this mitigation measure.
- University Avenue from Park Boulevard to Florida Street: Widen the roadway to a 4 lane collector. North Park CPU significant traffic impact to this roadway segment would be fully mitigated with the implementation of this mitigation measure.
- University Avenue from Texas Street to 32nd Street: Widen the roadway to a 4 lane collector. North Park CPU significant traffic impact to this roadway segment would be fully mitigated with the implementation of this mitigation measure.
- University Avenue from 32nd Street to Boundary Street: Widen the roadway to a 4 lane major arterial and add a raised median. North Park CPU significant traffic impact to this roadway segment would be fully mitigated with the implementation of this mitigation measure.

- Upas Street from Alabama Street to Pershing Road: Restripe the roadway to a 2 lane collector with continuous left-turn lane. North Park CPU significant traffic impact to this roadway segment would be fully mitigated with the implementation of this mitigation measure.
- Upas Street: Pershing Road to 30th Street: Widen the roadway to a 4 lane collector. North Park
 CPU significant traffic impact to this roadway segment would be fully mitigated with the
 implementation of this mitigation measure.
- **Utah Street from Howard Avenue to Lincoln Avenue:** Restripe the roadway to a 2 lane collector with continuous left-turn lane. North Park CPU significant traffic impact to this roadway segment would be fully mitigated with the implementation of this mitigation measure.
- **Utah Street from North Park Way to Upas Street:** Restripe the roadway to a 2 lane collector with continuous left-turn lane. North Park CPU significant traffic impact to this roadway segment would be fully mitigated with the implementation of this mitigation measure.

CORRIDORS

Intelligent Transportation Systems (ITS) is the application of technology to transportation systems to maximize efficiency of services. Applying ITS technology to a corridor can improve capacity and operations along the individual segments within the corridor. In the North Park community, the following corridors would benefit from ITS technology integration:

- University Avenue
- El Cajon Boulevard

TRANSPORTATION DEMAND MANAGEMENT

Transportation Demand Management (TDM) combines marketing and incentive programs to reduce dependence on automobiles. TDM measures within the North Park community should be encouraged and supported to help prevent or minimize congestion and parking issues.

5.3 GOLDEN HILL

5.3.1 SIGNIFICANCE OF IMPACTS

INTERSECTIONS

- B Street & 17th Street/ I-5 SB Off-Ramp
- SR-94 WB Ramps & Broadway
- SR-94 WB Ramp & 28th Street
- SR-94 EB Ramp & 28th Street
- F Street & 25th Street
- G Street & 25th Street

SEGMENTS

• 25th Street: Broadway to F Street

28th Street: Russ Boulevard to SR-94

30th Street: Grape Street to SR-94

• B Street: 25th Street to 28th Street

C Street: 30th Street to 34th Street

Fern Street: Juniper Street to A Street

• Grape Street: 30th Street to 31st Street

5.3.2 MITIGATION MEASURES

INTERSECTIONS

- B Street & 17th Street/ I-5 SB Off-Ramp: Install traffic signal control at the intersection. Golden Hill CPU significant traffic impact to this intersection would be fully mitigated with the implementation of this mitigation measure. This improvement project is identified in the Golden Hill Impact Fee Study (IFS).
- SR-94 WB Ramps & Broadway: Install traffic signal control at the intersection. Golden Hill CPU significant traffic impact to this intersection would be fully mitigated with the implementation of this mitigation measure. However, signal warrants are not met for the signalization of this location. This improvement will be placed on the watch list for future signalization in the Golden Hill IFS.
- SR-94 WB Ramps & 28th Street: Install traffic signal control at the intersection. Golden Hill CPU significant traffic impact to this intersection would be fully mitigated with the implementation of this mitigation measure. This improvement project is identified in the Golden Hill IFS.
- SR-94 EB Ramps & 28th Street: Install traffic signal control at the intersection. Restripe the southbound approach to have an exclusive left-turn lane and a through lane. Golden Hill CPU significant traffic impact to this intersection would be fully mitigated with the implementation of this mitigation measure. This improvement project is identified in the Golden Hill IFS.
- **F Street & 25th Street:** Install traffic signal control at the intersection. Golden Hill CPU significant traffic impact to this intersection would be fully mitigated with the implementation of this mitigation measure. However, signal warrants are not met for the signalization of this location. This improvement will be placed on the watch list for future signalization in the Golden Hill IFS.
- G Street & 25th Street: Install traffic signal control at the intersection. Golden Hill CPU significant
 traffic impact to this intersection would be fully mitigated with the implementation of this mitigation
 measure. However, signal warrants are not met for the signalization of this location. This
 improvement will be placed on the watch list for future signalization in the Golden Hill IFS.

SEGMENTS

- **25**th **Street from Broadway to F Street:** Widen the roadway to a 4 lane collector. Golden Hill CPU significant traffic impact to this roadway segment would be fully mitigated with the implementation of this mitigation measure.
- **28**th **Street from Russ Boulevard to Broadway:** Restripe the roadway to a 2 lane collector with continuous left-turn lane. Golden Hill CPU significant traffic impact to this roadway segment would be fully mitigated with the implementation of this mitigation measure.
- **28**th **Street from Broadway to SR-94:** Widen the roadway to a 4 lane collector. Golden Hill CPU significant traffic impact to this roadway segment would be fully mitigated with the implementation

of this mitigation measure. However, partial mitigation is proposed at this location with the widening of the roadway to a two lane collector with continuous left-turn lane. This improvement project is identified on the Golden Hill IFS.

- **30**th **Street from Grape Street to Ash Street:** Restripe the roadway to a 2 lane collector with continuous left-turn lane. Golden Hill CPU significant traffic impact to this roadway segment would be fully mitigated with the implementation of this mitigation measure.
- **30**th **Street from A Street to Broadway:** Widen the roadway to a 4 lane collector. Golden Hill CPU significant traffic impact to this roadway segment would be fully mitigated with the implementation of this mitigation measure. However, partial mitigation is proposed at this location with the widening of the roadway to a two lane collector with continuous left-turn lane. This improvement project is identified on the Golden Hill IFS.
- **30**th **Street from Broadway to SR-94:** Widen roadway to a 2 lane collector with continuous left-turn lane. Golden Hill CPU significant traffic impact to this roadway segment would be fully mitigated with the implementation of this mitigation measure. This improvement project is identified on the Golden Hill IFS.
- **B Street from 25**th **Street to 28**th **Street:** Restripe the roadway to a 2 lane collector with continuous left-turn lane. Golden Hill CPU significant traffic impact to this roadway segment would be fully mitigated with the implementation of this mitigation measure.
- **C Street from 30**th **Street to 34**th **Street:** Restripe the roadway to a 2 lane collector with continuous left-turn lane. Golden Hill CPU significant traffic impact to this roadway segment would be fully mitigated with the implementation of this mitigation measure.
- Fern Street from Juniper Street to Grape Street: Restripe the roadway to a 2 lane collector with continuous left-turn lane. Golden Hill CPU significant traffic impact to this roadway segment would be fully mitigated with the implementation of this mitigation measure.
- Fern Street from Grape Street to A Street: Widen the roadway to a 4 lane collector. Golden Hill CPU significant traffic impact to this roadway segment would be fully mitigated with the implementation of this mitigation measure.
- **Grape Street from 30**th **Street to 31**st **Street:** Restripe the roadway to a 2 lane collector with continuous left-turn lane. Golden Hill CPU significant traffic impact to this roadway segment would be fully mitigated with the implementation of this mitigation measure.

TRANSPORTATION DEMAND MANAGEMENT

Transportation Demand Management (TDM) combines marketing and incentive programs to reduce dependence on automobiles. TDM measures within the Golden Hill community should be encouraged and supported to help prevent or minimize congestion and parking issues.

5.4 FREEWAYS

As shown in Chapter 4, the evaluated CPU land uses would have a cumulative traffic related impact at the following mainline freeway segments:

5.4.1 SIGNIFICANCE OF IMPACTS

MAINLINE SEGMENTS

• I-5 NB: Old Town Avenue to Imperial Avenue

• I-5 SB: Old Town Avenue to Imperial Avenue

• I-8 WB: Hotel Circle (W) to SR-15

• I-8 EB: Hotel Circle (W) to SR-15

SR-15 NB: I-805 to SR-94
SR-15 SB: I-805 to SR-94

• I-805 NB: I-8 to SR-15

• I-805 SB: I-8 to SR-15

SR-94 WB: 25th Street to SR-15

SR-94 EB: 25th Street to SR-15

SR-163 NB: I-8 to Robinson Avenue

• SR-163: SB: I-8 to I-5

INTERCHANGE RAMPS

- Hancock St to I-5 SB
- Kettner Boulevard to I-5 SB
- Fifth Avenue to I-5 SB

5.4.2 MITIGATION MEASURES

MAINLINE SEGMENTS

- I-5 NB from Old Town Avenue to Imperial Avenue: SANDAG's 2050 Revenue Constrained RTP includes operational improvements along I-5 between Old Town Avenue and Imperial Avenue. This project is expected to be constructed by year 2050. This measure provides partial mitigation since it improves freeway operation in the vicinity of the project.
- I-5 SB from Old Town Avenue to Imperial Avenue: SANDAG's 2050 Revenue Constrained RTP includes operational improvements along I-5 between Old Town Avenue and Imperial Avenue. This project is expected to be constructed by year 2050. This measure provides partial mitigation since it improves freeway operation in the vicinity of the project.
- I-8 WB from Hotel Circle (W) to SR-15: SANDAG's 2050 Revenue Constrained RTP includes operational improvements along I-8 between Hotel Circle (W) and SR-15. This project is expected to be constructed by year 2050. This measure provides partial mitigation since it improves freeway operation in the vicinity of the project.
- I-8 EB from Hotel Circle (W) to SR-15: SANDAG's 2050 Revenue Constrained RTP includes operational improvements along I-8 between Hotel Circle (W) and SR-15. This project is expected to be constructed by year 2050. This measure provides partial mitigation since it improves freeway operation in the vicinity of the project.
- SR-15 NB from I-805 to SR-94: SANDAG's 2050 Revenue Constrained RTP proposes the construction of managed lanes along SR-15 between I-805 and SR-94. This project is expected to be constructed by year 2035. This measure provides partial mitigation since it reduces the traffic demand on the freeway general purpose lane.

- SR-15 SB from I-805 to SR-94: SANDAG's 2050 Revenue Constrained RTP proposes the construction of managed lanes along SR-15 between I-805 and SR-94. This project is expected to be constructed by year 2035. This measure provides partial mitigation since it reduces the traffic demand on the freeway general purpose lane.
- I-805 NB from I-8 to SR-15: SANDAG's 2050 Revenue Constrained RTP proposes the construction of managed lanes along I-805 between I-8 and SR-15. This project is expected to be constructed by year 2030. This measure provides partial mitigation since it reduces the traffic demand on the freeway general purpose lane.
- I-805 SB from I-8 to SR-15: SANDAG's 2050 Revenue Constrained RTP proposes the construction of managed lanes along I-805 between I-8 and SR-15. This project is expected to be constructed by year 2030. This measure provides partial mitigation since it reduces the traffic demand on the freeway general purpose lane.
- SR-94 WB from 25th Street to SR-15: SANDAG's 2050 Revenue Constrained RTP proposes
 the construction of managed lanes along SR-94 between 25th Street and SR-15. This project is
 expected to be constructed by year 2020. This measure provides partial mitigation since it
 reduces the traffic demand on the freeway general purpose lanes.
- SR-94 EB from 25th Street to SR-15: SANDAG's 2050 Revenue Constrained RTP proposes the
 construction of managed lanes along SR-94 between 25th Street and SR-15. This project is
 expected to be constructed by year 2020. This measure provides partial mitigation since it
 reduces the traffic demand on the freeway general purpose lane.
- SR-163 NB from I-8 to Robinson Avenue: No improvements are identified for this state route segment in SANDAG's 2050 RTP.
- SR-163: SB from I-8 to I-5: No improvements are identified for this state route segment in SANDAG's 2050 RTP.

INTERCHANGE RAMPS

- Hancock St On-Ramp to I-5 SB: SANDAG's 2050 Revenue Constrained RTP includes
 operational improvements along I-5 between SR-15 and I-8. This project is expected to be
 constructed by year 2050. This measure provides partial mitigation since it improves freeway
 operation in the vicinity of the project.
- **Kettner Boulevard On-Ramp to I-5 SB:** SANDAG's 2050 Revenue Constrained RTP includes operational improvements along I-5 between SR-15 and I-8. This project is expected to be constructed by year 2050. This measure provides partial mitigation since it improves freeway operation in the vicinity of the project.
- **Fifth Avenue to On-Ramp I-5 SB:** SANDAG's 2050 Revenue Constrained RTP includes operational improvements along I-5 between SR-15 and I-8. This project is expected to be constructed by year 2050. This measure provides partial mitigation since it improves freeway operation in the vicinity of the project.

6 POST-MITIGATION ANALYSIS

This section provides a description of the future community buildout conditions with the implementation of the traffic mitigation measures described in Chapter 5.

6.1 INTERSECTION ANALYSIS

Table 6-1 displays the LOS analysis results for the study intersections within the study area after the implementation of the mitigation measures described in Chapter 5. As shown in the table, the mitigation measures described in Chapter 5 would restore operations to LOS D or better during both peak hours at all locations. As discussed in Chapter 5, mitigations are recommended by the CPU at one location within Uptown and all six locations within Golden Hill.

Appendix D contains the peak-hour intersections LOS calculation worksheets.

6.2 ROADWAY SEGMENT ANALYSIS

Tables 6-2 through 6-7 displays the LOS analysis results for the study roadway segments within the study area after the implementation of the mitigation measures described in Chapter 5. As shown in the table, the mitigation measures described in Chapter 5 would restore operations to LOS D or better at all locations. As discussed in Chapter 5, mitigations are recommended by the CPU along three roadways within Uptown, one roadway within North Park and two roadways within Golden Hill.

6.3 FREEWAY SEGMENT AND RAMP METER ANALYSIS

The improvements identified in SANDAG's Regional Transportation Plan would improve operations along the freeway segments and ramps; however, to what extent is still undetermined. As these are future improvements that will be defined more over time, no post mitigation analysis was performed as part of these planning efforts. Using the RTP as the instrument to implement freeway improvements, it can be determined that none of the freeway impacts would be fully mitigated by the CPU.

Table 6-1 Post Mitigation Summary of Intersection Analysis

	PEAK	FUTUR	E VEAR	POST-MIT	IGATION
INTERSECTIONS	HOUR	DELAY (a)	Future Year	DELAY (a)	LOS (b)
	<u> </u>	UPTOWN	_ = = (=)	(w)	_ = = = (=)
W. 11	AM	31.8	С	27.3	С
Washington St & Fourth Ave	PM	59.9	E	42.7	D
W 1'	AM	71.5	E	22.3	С
Washington St & Eighth Ave/SR-163 Off Ramp	PM	331.7	F	49.5	D
W1:	AM	62.7	E	49.9	D
Washington St/Normal St & Campus Ave/Polk Ave	PM	57.3	E	39.5	D
University Ave & Civth Ave	AM	38.7	D	40	D
University Ave & Sixth Ave	PM	55.3	E	50.8	D
Elm St & Sixth Ave	AM	153.6	F	20.6	С
Ellii St & Sixiii Ave	PM	18.8	В	12.5	В
Cedar St & Second Ave	AM	ECL	F	25.9	С
Cedar St & Second Ave	PM	43	E	10.1	В
	N	ORTH PARK			
M-1: A 0- T C4	AM	144.4	F	36.2	D
Madison Ave & Texas St	PM	63.9	E	35	D
ELC.; DI 18 204 G	AM	29.7	С	26.1	С
El Cajon Blvd & 30th St	PM	68.1	E	52	D
El C-: Dl1 % 1 005 CD D	AM	21.9	С	15.5	В
El Cajon Blvd & I-805 SB Ramps	PM	96.8	F	37.7	D
II. '. A 0.204 G	AM	26.5	С	25.9	С
University Ave & 30th St	PM	57.8	E	44.3	D
11 ' '. A 0 1005 ND D	AM	45.5	D	52.6	D
University Ave & I-805 NB Ramps	PM	80.9	F	54.9	D
N-41- D-1- W 1 005 CD D 0- D 1 C4	AM	18.1	С	15.6	В
North Park Way, I-805 SB Ramps, & Boundary St	PM	134.8	F	47.2	D
I Imag Ct. 8- 20th Ct	AM	40.1	E	14.5	В
Upas St & 30th St	PM	54.8	F	34.1	D
	G	OLDEN HILL			
R St & 17th St/ I 5 SR Off Page	AM	ECL	F	25.1	C
B St & 17th St/ I-5 SB Off-Ramp	PM	20.4	С	7.2	A
SD 04 WD Dampa & Drog-livery	AM	ECL	F	11.1	В
SR-94 WB Ramps & Broadway	PM	ECL	F	13.2	В
SR-94 WB Ramps & 28th St	AM	ECL	F	15.4	В
5K-74 WD Kamps & Zoul St	PM	ECL	F	14.6	В
SR-94 EB Ramps & 28th St	AM	ECL	F	13.8	A
5K-74 LD Kanips & Zoui St	PM	ECL	F	18.4	В
F St & 25th St	AM	82.3	F	12.5	В
r st & 23th st	PM	39.4	E	7.5	A
C C+ 0 254 C+	AM	55.2	F	19.8	В
G St & 25th St	PM	68	F	16.5	В

Notes:

ECL = Exceeds Calculable Limit. Reported when delay exceeds 180 seconds.

⁽a) Delay refers to the average control delay for the entire intersection, measured in seconds per vehicle. At a two-way stop-controlled intersection, delay refers to the worst movement.

⁽b)LOS calculations are based on the methodology outlined in the 2000 Highway Capacity Manual and performed using Synchro 8

Table 6-2 Post Mitigation Summary of Roadway Segment Analysis

ROADWAY SEGMENT	FUTURE YEAR ADT	RC	ROADWAY FUNCTIONAL CLASSIFICATION	LOS E CAPACITY	V/C RATIO (a)	гоз
First Ave						
Worthington Of to Trainmeiter A vec	0 100	Future Year	2 Lane Collector (No center lane)	8,000	1.138	F
washington of to University Ave	9,100	Post Mitigation	2 Lane Collector (continuous left-turn lane)	15,000	209'0	ບ
TTaireaside, Asset to Dalisasse, Asset	16 300	Future Year	2 Lane Collector (No center lane)	8,000	2.038	F
University Ave to Robinson Ave	10,500	Post Mitigation	4 Lane Collector	30,000	0.543	ວ
Delinean Area to Demonstrated Area	11 500	Future Year	2 Lane Collector (No center lane)	8,000	1.438	H
Koomson Ave to Pennsylvaina Ave	005,11	Post Mitigation	2 Lane Collector (continuous left-turn lane)	15,000	797.0	Д
n	13 800	Future Year	2 Lane Collector (No center lane)	8,000	1.600	Ŧ
remissivanta Ave to wantu Ave	12,800	Post Mitigation	2 Lane Collector (continuous left-turn lane)	15,000	0.853	D
12 Laura I at and A secolarity	11 000	Future Year	2 Lane Collector (No center lane)	8,000	1.488	1
wanni Ave to Laurel St	11,900	Post Mitigation	2 Lane Collector (continuous left-turn lane)	15,000	0.793	D
T canal Ct to Househouse Ct	8 400	Future Year	2 Lane Collector (No center lane)	8,000	1.050	F
Laulei St to nawinoili St	0,400	Post Mitigation	2 Lane Collector (continuous left-turn lane)	15,000	095'0	ວ
T	000	Future Year	2 Lane Collector (No center lane)	8,000	0.850	Э
Hawthorn St to Grape St	0,800	Post Mitigation	2 Lane Collector (continuous left-turn lane)	15,000	0.453	В
Fourth Ave						
A 4 17 17 10 4	11 000	Future Year	2 Lane Collector (No center lane)	8,000	1.863	Ŧ
Arbor Dr to washington St	14,900	Post Mitigation	4 Lane Collector	30,000	0.497	C
137 Januar L and A seed 1217	901.31	Future Year	3 Lane Collector (one-way w/ one lane dedicated for multi-modal)	17,500	698.0	Ε
wanni Ave to Laurel St	001,61	Post Mitigation	3 Lane Collector (one-way)	26,000	0.581	Ü
Fifth Ave						
Dale in the Asset Asset Asset Asset	15 800	Future Year	3 Lane Collector (one-way w/ one lane dedicated for multi-modal)	17,500	0.903	H
KODIIISOII AVE 10 WAIIIUI AVE	13,000	Post Mitigation	3 Lane Collector (one-way)	26,000	809.0	C
Sixth Ave						
Washington St to University Ave	15 100	Future Year	3 Lane Collector (two-way)	20,000	2.255	Ŧ
A CHARLES OF THE CHAR	001,01	Post Mitigation	6 Lane Prime Arterial	000,09	0.752	C
University Ave to Dobinson Ave	32 600	Future Year	4 Lane Collector (no center lane)	15,000	2.173	H
Our washing aver to recommon aver	000,40	Post Mitigation	4 Lane Major Arterial	40,000	0.815	D
Dobinson Areato Hone Of	000 00	Future Year	4 Lane Collector (no center lane)	15,000	1.993	F
Codinson Ave to opas of	000,67	Post Mitigation	4 Lane Major Arterial	40,000	0.748	C
II have St to I must St	000 31	Future Year	4 Lane Collector (no center lane)	15,000	1.727	F
Opas St to Lauret St	006,52	Post Mitigation	4 Lane Major Arterial	40,000	0.648	C
I comed Of the Tuniness Of	16 600	Future Year	2 Lane Collector (continuous left-turn lane)	15,000	1.107	E
ramer of to sumper of	10,000	Post Mitigation	4 Lane Collector	30,000	0.553	C
Tunings Of to Genera Of	18 700	Future Year	2 Lane Collector (continuous left-turn lane)	15,000	1.247	F
ample of the diapers.	10,700	Post Mitigation	4 Lane Collector	30,000	0.623	۲
Grane St to Elm St	30 300	Future Year	2 Lane Collector (continuous left-turn lane)	15,000	1.353	Ŀ
Orape of to Eilli of	000,02	Post Mitigation	4 Lane Collector	30,000	0.677	D
Motor						

Table 6-3 Post Mitigation Summary of Roadway Segment Analysis

ROADWAY SEGMENT	FUTURE YEAR ADT	RO	ROADWAY FUNCTIONAL CLASSIFICATION	LOS E CAPACITY	V/C RATIO (a)	SOT
Ninth Ave						
Woodbinoton Ot to Trainmenity Arra	000 8	Future Year	2 Lane Collector (No center lane)	8,000	1.000	F
w asimigrom of to omiversity Ave	000,0	Post Mitigation	2 Lane Collector (continuous left-turn lane)	15,000	0.533	C
Campus Ave/Polk Ave						
Wachington St to Dark Blud	7 400	Future Year	2 Lane Collector (No center lane)	8,000	0.925	Ħ
Washington of to tank by d	oot.	Post Mitigation	2 Lane Collector (continuous left-turn lane)	15,000	0.493	C
Cleveland Ave		The state of the s				20-12-00-2
Tyler St to Lincoln Ave	7,200	Future Year	2 Lane Collector (No center lane)	8,000	0.900	E (
		Post Mitigation	2 Lane Collector (continuous left-turn lane)	15,000	0.480	၁ န
Lincoln Ave to Richmond St	009'6	Future Year Post Mitigation	2 Lane Collector (No center lane) 2 Lane Collector (continuous left-turn lane)	8,000	0.640	4 C
Fort Stockton Dr		0	,			2 <u>0</u>
	1000	Future Year	2 Lane Collector (No center lane)	8,000	0.988	되
Sunset Blvd to Hawk St	006*/	Post Mitigation	2 Lane Collector (continuous left-turn lane)	15,000	0.527	၁
Transfer Of the Manual Of	000 8	Future Year	2 Lane Collector (No center lane)	8,000	1.113	F
Dawk St 10 Columnica St	006,0	Post Mitigation	2 Lane Collector (continuous left-turn lane)	15,000	0.593	Ü
Grape St						
Eirst Ave to Third Ave	7 300	Future Year	2 Lane Collector (No center lane)	8,000	0.913	E
THS AVELO THING AVE	0000	Post Mitigation	2 Lane Collector (continuous left-turn lane)	15,000	0.487	C
Third Aug to Sinth Aug	0000	Future Year	2 Lane Collector (No center lane)	8,000	1.125	F
THIRD AVE TO SIXIII AVE	000,6	Post Mitigation	2 Lane Collector (continuous left-turn lane)	15,000	0.600	C
Hawthorn St						
Birct Ave to Third Ave	7 300	Future Year	2 Lane Collector (No center lane)	8,000	0.913	A
THS AVEID THING AVE	000,	Post Mitigation	2 Lane Collector (continuous left-turn lane)	15,000	0.487	C
Third Aug to Civili Aug	002.8	Future Year	2 Lane Collector (No center lane)	8,000	1.088	F
THE CANCE OF STREET	00/60	Post Mitigation	2 Lane Collector (continuous left-turn lane)	15,000	0.580	C
India St						
Washington St to Winder St	11 000	Future Year	2 Lane Collector (No center lane)	8,000	1.375	F
	20044	Post Mitigation	2 Lane Collector (continuous left-turn lane)	15,000	0.733	D
Glenwood Dr to Sassafrace &	30.000	Future Year	2 Lane Collector (one-way)	17,500	1.714	H
TO COMPANY OF THE PROPERTY OF	200,00	Post Mitigation	4 Lane Collector (one-way)	35,000	0.857	D
Sassafrass St to Bedwood St	21 300	Future Year	2 Lane Collector (one-way)	17,500	1.217	F
		Post Mitigation	3 Lane Collector (one-way)	26,000	0.819	D
Laurel St						
Columbia St to Union St	21,100	Post real	4 Lane Conector (10 center tane)	12,000	1.40/	±, ¢
		FOST IMITIGATION	intraling align to	30,000	1.103	ı ı
Union St to First Ave	17,900	rume rear	2 Lane Conector (continuous tent-tum tane)	12,000	1.193	4
	100 01100 100	Post Mitigation	4 Lane Collector	30,000	0.597	ŭ
First Ave to Third Ave	16 100	Future Year	2 Lane Collector (continuous left-turn lane)	15,000	1.073	ĬΞŧ
, 100 to	201,01	Post Mitigation	4 Lane Collector	30,000	0.537	C
Third Ave to Sixth Ave	20 200	Future Year	2 Lane Collector (continuous left-turn lane)	15,000	1.347	Ħ
THING AVE TO SIGHT AVE	007,02	Post Mitigation	4 Lane Collector	30,000	0.673	D
Lincoln Ave				-		
Washington St to Park Blyd	11 100	Future Year	2 Lane Collector (No center lane)	8,000	1.388	F
o are a management	201,11	Post Mitigation	2 Lane Collector (continuous left-turn lane)	15,000	0.740	D
Notes						

Table 6-4 Post Mitigation Summary of Roadway Segment Analysis

ROADWAY SEGMENT	FUTURE YEAR ADT	ROAI	ROADWAY FUNCTIONAL CLASSIFICATION	LOSE	V/C RATIO (a)	ros
Park Blvd						
Minister Arresto Till Children	16 300	Future Year	3 Lane Collector (no center lane)	11,500	1.417	F
MISSION AVE TO EL CAJON BIVO	10,300	Post Mitigation	4 Lane Collector (one-way)	30,000	0.543	C
10 TT 1	12 300	Future Year	2 Lane Collector (continuous left-turn lane)	15,000	1.147	4
Robinson Ave to Upas St	17,200	Post Mitigation	4 Lane Collector (one-way)	30,000	0.573	C
Richm ond St						
Cloud and Anatomicates Australia	0000	Future Year	2 Lane Collector (No center lane)	8,000	1.125	I
Cleveland Ave to University Ave	9,000	Post Mitigation	2 Lane Collector (continuous left-turn lane)	15,000	0.600	2
Tinitrandita Ara to Dabingan Arra	002.9	Future Year	2 Lane Collector (No center lane)	8,000	0.838	E
Ulliversity Ave to Koomson Ave	00,,0	Post Mitigation	2 Lane Collector (continuous left-turn lane)	15,000	0.447	В
Dobinson Ave to Hose St	8 100	Future Year	2 Lane Collector (No center lane)	8,000	1.013	F
Coomson Ave to obas St	001,0	Post Mitigation	2 Lane Collector (continuous left-turn lane)	15,000	0.540	C
Robinson Ave			2 (0) (0) (0) (0) (0) (0) (0) (0) (0) (0)			
First Ave to Third Ave	11.500	Future Year	2 Lane Collector (No center lane)	8,000	1.438	ĹΨ
	200411	Post Mitigation	2 Lane Collector (continuous left-turn lane)	15,000	0.767	D
Third Ave to Bighth Ave	14 400	Future Year	2 Lane Collector (No center lane)	8,000	1.800	F
The Carte Light Ave	001,11	Post Mitigation	4 Lane Collector	30,000	0.480	C
San Diego Ave						
Hortensia St to Dringle St	10 500	Future Year	2 Lane Collector (No center lane)	8,000	1.313	Ŧ
Holtensia of to rimgie of	10,200	Post Mitigation	2 Lane Collector (continuous left-turn lane)	15,000	0.700	D
State St						
I armal St to Tuninar St	000 8	Future Year	2 Lane Collector (No center lane)	8,000	1.025	F
ramer of to jumper of	0,700	Post Mitigation	2 Lane Collector (continuous left-turn lane)	15,000	0.547	C
University Ave						
This Ct to Albatrass Ct	002.71	Future Year	2 Lane Collector (No center lane)	8,000	1.838	F
IOS SCIO AIDALIOSS SI	14,700	Post Mitigation	4 Lane Collector	30,000	0.490	C
A Handmann Ct. to Tilent Ann	008 00	Future Year	2 Lane Collector (No center lane)	8,000	2.600	F
ALDAH USS SUID FILST AVE	70,000	Post Mitigation	4 Lane Collector	30,000	0.693	Q
Direct Area to December Area	14 100	Future Year	2 Lane Collector (no fronting property)	10,000	1.410	4
THE AVE IO FOR III AVE	24,100	Post Mitigation	4 Lane Collector	30,000	0.470	C
Fourth Ave to Eifth Ave	31,600	Future Year	2 Lane Collector (continuous left-turn lane)	15,000	1.440	F
TOWN TAY TO THE TAY	2000,17	Post Mitigation	4 Lane Collector	30,000	0.720	D
Sixth Ave to Fighth Ave	19300	Future Year	4 Lane Collector (no center lane)	15,000	1.953	F
AND HARRY OF THE WAY	0000	Post Mitigation	4 Lane Major Arterial	40,000	0.733	C
Normal St to Bark Blud	21 200	Future Year	4 Lane Collector (no center lane)	15,000	1.413	Ħ
DAIG AM LOUG MINON	21,200	Post Mitigation	4 Lane Collector	30,000	0.707	D
Washington St		•				
Fourth Ave to Fifth Ave	37 300	Future Year	4 Lane Maj or Arterial	40,000	0.933	E
2417 mm 1 02 2417 m mo 1	000-6	Post Mitigation	6 Lane Major Arterial	50,000	0.746	C
Eith Ave to Sigh Ave	100	Future Year	4 Lane Major Arterial	40,000	1.028	F
THE AVE TO SIME AVE	001,11	Post Mitigation	6 Lane Major Arterial	50,000	0.822	D
Dichmond St to Mormal St	100	Future Year	6 Lane Major Arterial	50,000	0.942	E
KICHIIOHU SUO NOUMAI SU	47,100	Post Mitigation	6 Lane Prime Arterial	000'09	0.785	C
seto						

 Table 6-5
 Post Mitigation
 Summary of Roadway Segment Analysis

	FUTURE			1301	OLE VE S//X	
ROADWAY SEGMENT	YEAR ADT	ROA	ROADWAY FUNCTIONAL CLASSIFICATION	CAPACITY	(a)	ros
30th St					The state of the s	3
Meade Ave to FI Caion Blyd	14 400	Future Year	2 Lane Collector (continuous left-turn lane)	15,000	096'0	E
	221,11	Post Mitigation	4 Lane Collector	30,000	0.480	C
Howard Ave to Lincoln Ave	17 900	Future Year	2 Lane Collector (continuous left-turn lane)	15,000	1.193	Ħ
TOWARD OF THE OWNER THE	005,11	Post Mitigation	4 Lane Collector	30,000	0.597	၁
I inoula Aus to University Aus	14 000	Future Year	2 Lane Collector (continuous left-turn lane)	15,000	0.933	F
Lincoln Ave to Oniversity Ave	14,000	Post Mitigation	4 Lane Collector	30,000	0.467	C
North Bark War, Aug to Hose St	16 500	Future Year	2 Lane Collector (continuous left-turn lane)	15,000	1.100	Ħ
North Fair, way Ave to Opas St	10,500	Post Mitigation	4 Lane Collector	30,000	0.550	C
Thas St to Bedwood St	11 900	Future Year	2 Lane Collector (No center lane)	8,000	1.488	F
opas of to Neawood of	11,200	Post Mitigation	2 Lane Collector (continuous left-turn lane)	15,000	0.793	D
Dadwood St to Timinar St	12 100	Future Year	2 Lane Collector (No center lane)	8,000	1.513	F
10 John to 10 powers	77,100	Post Mitigation	2 Lane Collector (continuous left-turn lane)	15,000	0.807	D
32 III 31		T. 47 47	7 T T T T T T T T T T T T T T T T T T T	000 0	1 100	F
University Ave to Myrtle Ave	11,200	Post Mitigation	2 Lattle Collector (No center ratie)	3,000	0.747	4 C
		Fost Miligation	2 Lane Confedence Sententiane)	000,51	0.74/	n F
Myrtle Ave to Upas St	7,900	rume rear	2 Lane Collector (No center lane)	8,000	0.988	a) C
A discussion of the con-		FOST IMITIBATION	Z Lane Conector (commuous ren-turn rane)	000,51	0.327	ر
AdamsAve		22 7 14	(0000	ı
Texas St to 30th St	13,800	Furure Year	2 Lane Collector (continuous lett-turn lane)	15,000	0.920	F) [
		Post Mitigation	4 Lane Collector	30,000	0.460	В
Boundary St			7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7		0000	F
University Ave to North Park Way	16.000	Future Year	2 Lane Collector (No center lane)	8,000	7.000	4
(Post Mitigation	4 Lane Collector	30,000	0.533	S
El Cajon Blvd						
30th St to Illinois St	48.800	Future Year	6 Lane Major Arterial	50,000	0.976	丑
	200,01	Post Mitigation	8 Lane Major Arterial	000,09	0.813	Ü
Illinois St to 1-805 Ramms	58 900	Future Year	6 Lane Major Arterial	50,000	1.178	F
eduna con todas commi	00000	Post Mitigation	8 Lane Major Arterial	000'09	0.982	E
Florida St				•		
El Caion Blyd to University Ave	7 400	Future Year	2 Lane Collector (No center lane)	8,000	0.925	H
		Post Mitigation	2 Lane Collector (continuous left-turn lane)	15,000	0.493	C
University Ave to Robinson Ave	8.800	Future Year	2 Lane Collector (No center lane)	8,000	1.100	H
6	N	Post Mitigation	2 Lane Collector (continuous left-turn lane)	15,000	0.587	Ü
Robinson Ave to Upas St	6.800	Future Year	2 Lane Collector (No center lane)	8,000	0.850	되 :
Howard Ave	89	Post Minganon	Z Lane Collector (continuous len-turn lane)	000,51	0.453	В
HOWARANC	Control of the Contro	Future Year	2 Lane Collector (No center lane)**	8,000	1.413	Ш
Texas St to Utah St	11,300	Post Mitigation	2 Lane Collector (continuous left-furn lane)	15.000	0.753	D
		Future Year	2 Lane Collector (No center lane) **	8,000	1.275	н
Utan St to 30th St	10,200	Post Mitigation	2 Lane Collector (continuous left-turn lane)	15,000	0.680	D
100 - 100 - 100 0	000	Future Year	2 Lane Collector (No center lane)**	8,000	1.313	Ŧ
30th St to 32nd St	10,500	Post Mitigation	2 Lane Collector (continuous left-turn lane)	15,000	0.700	D
Madison Ave						-3
Texas St to Ohio St	12.200	Future Year	2 Lane Collector (No center lane)	8,000	1.525	Ŧ
ac onto of the spect	202621	Post Mitigation	2 Lane Collector (continuous left-turn lane)	15,000	0.813	D
Notes:						

Table 6-6 Post Mitigation Summary of Roadway Segment Analysis

ROADWAY SEGMENT	FUTURE YEAR	ROA	ROADWAY FUNCTIONAL CLASSIFICATION	LOSE	V/C RATIO (a)	SOT
Messie Ave	ADI					
2427 2002777	3 7 7 8	Future Year	2 Lane Collector (No center lane)	8,000	1.025	Į.
Park Blvd to Texas St	8,200	Post Mitigation	2 Lane Collector (continuous left-turn lane)	15,000	0.547	C
15 410 5 vano L	0000	Future Year	2 Lane Collector (No center lane)	8,000	1.238	F
IC THOS OF IC SOAL	005,2	Post Mitigation	2 Lane Collector (continuous left-turn lane)	15,000	0.660	Ü
30th St to Illinois St	11 500	Future Year	2 Lane Collector (No center lane)	8,000	1.438	Ħ
16 SIGHTH OLDS THOS	0000	Post Mitigation	2 Lane Collector (continuous left-turn lane)	15,000	0.767	D
tS emol of tS signiff	11 900	Future Year	2 Lane Collector (No center lane)	8,000	1.488	Ŧ
		Post Mitigation	2 Lane Collector (continuous left-turn lane)	15,000	0.793	D
North Park Way			(T	000 01	1,000	F
32nd St to Boundary St	10,600	Future Year Post Mitigation	2 Lane Collector (no fronting property) 2 Lane Collector (continuous left-turn lane)	15,000	0.707	¥ Q
Redwood St						
28th St to 30th St	7,200	Future Year	2 Lane Collector (No center lane)	8,000	0.900	Ā
Tevos St		POSt MILIGATION	2 Lane Conector (commuous ren-turn rane)	000,61	0.480	ر
TCAGS OF		Future Vear	3 Lane Major Arterial	30 000	1 303	Ē
Adams Ave to Mission Ave	39,100	Post Mitigation	5 Lane Major Arterial	50,000	0.782	4 C
		Future Year	2 Lane Collector (continuous left-turn lane)	15,000	2.553) [=
Mission Ave to El Cajon Blvd	38,300	Partial Mitigation	4 Lane Collector	30,000	1.277	H
	ks	Post Mitigation	6 Lane Major Arterial	50,000	0.766	C
		Future Year	2 Lane Collector (continuous left-turn lane)	15,000	096'0	ы
Howard Ave to University Ave	14,400	Post Mitigation	4 Lane Collector	30,000	0.480	C
University Ave						
Park Blyd to Florida St	73 900	Future Year	4 Lane Collector (no center lane)	15,000	1.593	F
Tan Division of the control of the c	2000	Post Mitigation	4 Lane Collector	30,000	0.797	D
Texas St to Oregon St	23.700	Future Year	4 Lane Collector (no center lane)	15,000	1.580	F
10 10 San On 10 10 10 10 10 10 10 10 10 10 10 10 10	20, '22	Post Mitigation	4 Lane Collector	30,000	0.790	D
Oregon St to IIIah St	22 900	Future Year	4 Lane Collector (no center lane)	15,000	1.527	F
	20 2422	Post Mitigation	4 Lane Collector	30,000	0.763	D
Titah St to 30th St	008.00	Future Year	4 Lane Collector (no center lane)	15,000	1.387	F
16 H105 OI 16 HB10	000,07	Post Mitigation	4 Lane Collector	30,000	0.693	D
30th St to Illinois St	008 66	Future Year	3 Lane Collector (no center lane)	11,500	1.983	F
ac spoure of to moo	22,222	Post Mitigation	4 Lane Collector	30,000	0.760	D
Illinois St to 32nd St	22 600	Future Year	3 Lane Collector (no center lane)	11,500	1.965	F
	2004-7-	Post Mitigation	4 Lane Collector	30,000	0.753	D
32nd St to Boundary St	29.600	Future Year	4 Lane Collector (no center lane)	15,000	1.973	F
		Post Mitigation	4 Lane Major Arterial	40,000	0.740	Ü
Upas St						
Alabama St to Texas St	8.600	Future Year	2 Lane Collector (No center lane)	8,000	1.075	4
		Post Mitigation	2 Lane Collector (continuous left-turn lane)	15,000	0.573	บ
Texas St to Pershing Rd	11 500	Future Year	2 Lane Collector (No center lane)	8,000	1.438	Œ,
	22,421	Post Mitigation	2 Lane Collector (continuous left-turn lane)	15,000	0.767	Д
Derching Del to 30th St	16 300	Future Year	2 Lane Collector (continuous left-turn lane)	15,000	1.087	Ŧ
retaining water or	10,200	Post Mitigation	4 Lane Collector	30,000	0.543	C
Utah St						
Howard Ave to Lincoln Ave	7 300	Future Year	2 Lane Collector (No center lane)	8,000	0.913	E
	DOC'S	Post Mitigation	2 Lane Collector (continuous left-turn lane)	15,000	0.487	ນ
North Park Way to I nas St	7.500	Future Year	2 Lane Collector (No center lane)	8,000	0.938	Э
is and of the min turious	2004	Post Mitigation	2 Lane Collector (continuous left-turn lane)	15,000	0.500	C

Table 6-7 Post Mitigation Summary of Roadway Segment Analysis

ROADWAY SEGMENT	FUTURE YEAR ADT	ROA	ROADWAY FUNCTIONAL CLASSIFICATION	LOS E CAPACITY	V/C RATIO (a)	ros
25th St				: 1		
15 d ve market d	17 400	Future Year	2 Lane Collector (continuous left-turn lane)	15,000	1.160	F
Droadway to F.St	17,400	Post Mitigation	4 Lane Collector	30,000	0.580	C
28th St).	10	
Drive Divid to C Ct	000 0	Future Year	2 Lane Collector (No center lane)	8,000	1.100	F
Kuss Diva to C St	0,000	Post Mitigation	2 Lane Collector (continuous left-turn lane)	15,000	0.587	٥
20 Of the Decoder	003 01	Future Year	2 Lane Collector (No center lane)	8,000	1.313	F
C St to broadway	10,500	Post Mitigation	2 Lane Collector (continuous left-turn lane)	15,000	0.700	D
		Future Year	2 Lane Collector (No center lane)	8,000	2.388	F
Broadway to SR-94	19,100	Partial Mitigation	2 Lane Collector (continuous left-turn lane)	15,000	1.273	F
		Post Mitigation	4 Lane Collector	30,000	0.637	C
30th St						
Grane Qt to Ach St	0009	Future Year	2 Lane Collector (No center lane)	8,000	0.863	E
Orape of to Asir of	00,5,0	Post Mitigation	2 Lane Collector (continuous left-turn lane)	15,000	0.460	В
		Future Year	2 Lane Collector (No center lane)	8,000	2.475	F
A St to Broadway	19,800	Partial Mitigation	2 Lane Collector (continuous left-turn lane)	15,000	1.320	F
		Post Mitigation	4 Lane Collector	30,000	0.660	C
December to CD 04	003	Future Year	2 Lane Collector (no fronting property)	10,000	0.950	E
Diuduway tu Sr. 24	7,500	Post Mitigation	2 Lane Collector (continuous left-turn lane)	15,000	0.633	C
B St						
75th Ct to 76th Ct	7 500	Future Year	2 Lane Collector (No center lane)	8,000	0.938	E
25th 5t to 20th 5t	005,	Post Mitigation	2 Lane Collector (continuous left-turn lane)	15,000	0.500	C
26th St to 28th St	7 100	Future Year	2 Lane Collector (No center lane)	8,000	0.888	E
10 moz 01 10 moz	001,	Post Mitigation	2 Lane Collector (continuous left-turn lane)	15,000	0.473	C
C St						
30th St to 34th St	7 000	Future Year	2 Lane Collector (No center lane)	8,000	0.988	E
30th 31 to 34th 31	,>00	Post Mitigation	2 Lane Collector (continuous left-turn lane)	15,000	0.527	C
Fern St						
Transfer Of to Games Of	000 8	Future Year	2 Lane Collector (No center lane)	8,000	1.113	F
dumper of to or ape of	0,500	Post Mitigation	2 Lane Collector (continuous left-turn lane)	15,000	0.593	C
Cannot Of to A Ct	1.5 000	Future Year	2 Lane Collector (No center lane)	8,000	1.875	F
Grape of to A of	12,000	Post Mitigation	4 Lane Collector	30,000	0.500	C
Grape St						
30th St fo 31 d St	0000	Future Year	2 Lane Collector (No center lane)	8,000	1.125	F
36 18 16 01 16 HJ06	000,6	Post Mitigation	2 Lane Collector (continuous left-turn lane)	15,000	0.600	C
saju						

APPENDIX A

EXISTING TRAFFIC SIGNAL TIMING SHEETS

APPENDIX B

EXISTING INTERSECTION GEOMETRICS

APPENDIX C

TRAFFIC COUNT SHEETS

APPENDIX D

SYNCHRO PEAK-HOUR INTERSECTION ANALYSIS SHEETS

APPENDIX E

RAMP METER RATES

APPENDIX F

POST-MODEL VOLUME ADJUSTMENTS

APPENDIX G

PEAK-HOUR VOLUMES FORECAST WORKSHEETS