

Fraternal Order of Police
(Bear Canyon Arroyo / Jefferson St.)
Traffic Impact Study

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June 08, 2007

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Presented to:

Transportation Development Division
City of Albuquerque
&
NM DOT, District No. 3

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Fraternal Order of Police (Bear Canyon Arroyo / Jefferson St.) TRAFFIC IMPACT STUDY

STUDY PURPOSE

The study is being conducted in conjunction with a request for approval of a land use / development plan permitting the implementation of land uses consisting of proposed commercial and office uses such as the one shown in the Appendix (Page A-2) of this report. The purpose of this study is to identify the impact of the proposed Development on the adjacent transportation system, and to make recommendations to mitigate any significant adverse impact on the adjacent transportation system resulting from the implementation of the new development. This study is based on the assumption that the land uses implemented in the development of the Fraternal Order of Police project will be similar to those defined in the table on Page A-xx in the Appendix of this report. Should the developer propose a combination of land uses that would significantly increase the overall traffic generation for the Fraternal Order of Police site, an update to this study would be required by the City of Albuquerque Transportation Development Section reflecting the proposed new conditions. This study is being prepared to meet the requirements of the City of Albuquerque Transportation Development Section and the New Mexico Department of Transportation District 3 Office.

STUDY PROCEDURES

A telephone scoping meeting was held on July 19, 2006 with City of Albuquerque Transportation Development staff (Tony Loyd) to discuss scope and methodology to be utilized within the report. Tony Loyd summarized the meeting and defined the requirements and procedures for the study in letter dated July xx, 2006 (See end of Appendix). Specific items included format, intersections to be studied, intersection analysis procedures, existing traffic counts, trip distribution methodology, and implementation year definition.

The basic procedure followed for this traffic impact study is outlined as follows:

- ◆ Calculate the generated trips for this proposed commercial / office development as defined on Page A-2 of the Appendix of this report and more specifically defined in the Trip Generation Table on Page A-6 of the Appendix of this report. The trips generated for the implementation year analyses (2009) will assume that 100% of the development has occurred.
- ◆ Calculate trip distribution for the newly generated trips by this development. The new commercial trips will be distributed based on year 2009 population within a two (2) mile radius boundary of the proposed site as shown on Page A-9 in the Appendix of this report. The new office trips will be distributed based on a city-wide distribution.
- ◆ Determine Trip Assignments for the newly generated trips based on the results of the Trip Distribution Analysis and logical routing to and from the new site.
- ◆ Obtain AM Peak Hour and PM Peak Hour Turning Movement Volumes Traffic Counts from the Mid-Region Council of Governments (MRCOG) for the intersections of Singer Blvd / Jefferson St, Jefferson St / I-25 W. ramp, Jefferson St / I-25 E. ramp, San Mateo Blvd / I-25 W. ramp, San Mateo Blvd / I-25 E. ramp, and Osuna Blvd / Jefferson St. Additionally, traffic counts were performed for the intersections of President Dr / Jefferson St., Jefferson Plaza / Jefferson St and BMW Drive / I-25 Frontage Rd.

- ◆ Determine Historic Growth Rates for background traffic volumes based on an analysis of the growth trend of recent AWDT Volumes obtained from 2001 thru 2005 MRCOG Traffic Flow Maps.
- ◆ Determine the 2009 NO BUILD Volumes for each intersection to be analyzed by growing the background traffic growth from the year of the counts to 2009.
- ◆ Add data from Trip Assignments Maps and Tables to the 2009 NO BUILD Volumes to obtain the 2009 BUILD Volumes for this project.
- ◆ Provide signalized and unsignalized intersection analyses for the following intersections:

INTERSECTION	TYPE CONTROL	NO BUILD ANALYSIS	BUILD ANALYSIS
Singer Blvd / Jefferson St	Traffic Signal	2009	2009
Jefferson St / I-25 W. ramp	Traffic Signal	2009	2009
Jefferson St / I-25 E. ramp	Traffic Signal	2009	2009
San Mateo Blvd / I-25 E. ramp	Traffic Signal	2009	2009
Osuna Blvd / I-25 W. ramp	Traffic Signal	2009	2009
Osuna Blvd / Jefferson St	Traffic Signal	2009	2009
Presidential Dr / Jefferson St	Stop Sign	2009	2009
Jefferson Plaza / Jefferson St	Stop Sign	2009	2009
BMW Drive / I-25 Frontage Rd	Stop Sign	2009	2009
Driveway 'A' / Jefferson St	Stop Sign	N/A	2009
Driveway 'B' / Jefferson St	Stop Sign	2009	2009
Driveway 'C' / Jefferson St	Stop Sign	N/A	2009

GENERAL AREA CHARACTERISTICS

This project is located at the northeast corner of the intersection of Bear Canyon Arroyo / Jefferson Street. The surrounding area is primarily zoned for commercial and industrial type of development. The Vicinity Map on Page A-1 of the Appendix shows the zoning of the surrounding properties in the area surrounding this site. The site is bound on the west by Jefferson St., on the south by the Bear Canyon Arroyo, and on the north by commercial property (See Vicinity Map on Pages A-1 and A-3 of the Appendix). There are no other major planned and approved developments in the general vicinity of the site. There is one moderate size project near McLeod / Jefferson St. which was studied earlier this year. The Traffic Impact Study for that project (Jefferson Pointe) indicated an insignificant volume of traffic distributed north of the project.

AREA STREET NETWORK

Access to this site will be primarily via Jefferson Street. Secondary access is from the BMW Drive on the I-25 frontage road.

Interstate 25 is a freeway providing north-south access through the City of Albuquerque. It has three lanes in each direction in the vicinity of the site.

Jefferson Street is classified as a Minor Arterial roadway on the Long Range Roadway System Map for the Albuquerque Metropolitan Planning Area. It is a four lane paved urban roadway with curbs and gutters on both sides. There are raised medians to the west and north of Interstate 25 on Jefferson Street to Osuna Rd. Jefferson Street south and east of I-25 is a four lane undivided urban street with curbs and gutters on both sides of the road.

The speed limit on Jefferson St is 35 M.P.H. The intersection of Singer Blvd / Jefferson St. was recently reconstructed to improve the capacity of the intersection.

Osuna Blvd is classified as a principal arterial on the Long Range Roadway System Map for the Albuquerque Metropolitan Planning Area. It is a four lane divided urban roadway in this vicinity. It is identified as San Mateo Blvd to the east of Interstate 25. The speed limit on Osuna / San Mateo Blvd is 45 M.P.H.

Singer Blvd, Jefferson Plaza and Presidential Dr are not classified on the Long Range Roadway System Map for the Albuquerque Metropolitan Planning Area.

EXISTING TRAFFIC VOLUMES

2005 Average Weekday Traffic Volumes (AWDT) for major streets in the site plan area are shown on Page A-4 in the Appendix.

Recent AM and PM Peak Hour turning movement counts were provided by the City of Albuquerque for the intersection of Singer Blvd / Jefferson St, Jefferson St / I-25 W. ramp, Jefferson St / I-25 E. ramp, San Mateo Blvd / I-25 W. ramp, San Mateo Blvd / I-25 E. ramp, and Osuna Blvd / Jefferson St.

Additionally, AM and PM Peak Hour turning movement counts for 1998 were obtained by field traffic counts taken recently for the following intersections:

*Presidential Dr / Jefferson St.
Jefferson Plaza / Jefferson St.
BMW Drive / I-25 Frontage Rd.*

The counts are included at the end of the Appendix.

PROPOSED DEVELOPMENT

The proposed conceptual site development plan associated with this property defines different ITE Land Uses as summarized in the following table:

Land Use Summary Table

Land Use Description	Size Proposed
Corporate Headquarters Building (714)	20,000 SF
General Office Building (710)	60,000 SF
Drive-In Bank (912)	4 drive up windows
High Turnover (Sit-Down) Office (932)	10,000 SF

See the conceptual site development plan on Page A-2 in the Appendix of this report to acquire more detailed information about the proposed development. This site plan is conceptual at this point in time and is subject to some changes as progress takes place in the design process. The plan should, however, provide a reliable basis upon which to analyze the impact of the development on the adjacent transportation system and provide guidelines for mitigating the impact and establishing access criteria.

There are four (4) proposed access points (driveways) for the new site (See Site Map on Page A-2). The primary access into the development is via the proposed three unsignalized driveways on Jefferson St. The other secondary access driveway is the BMW driveway onto the I-25 Frontage Rd. The middle driveway onto Jefferson St is existing and is a full access driveway. The other two driveways on Jefferson St. will be right-in / right-out only driveways. The driveway on the I-25 Frontage Rd. is a right-turn-in, right-turn-out driveway since the Frontage Rd. is one-way southbound.

TRIP GENERATION

Projected trips were calculated from data in the Institute of Transportation Engineers Trip Generation report (7th Edition, 2003). Trips for the development were determined based on land uses defined in the Land Use Summary Table above.

The resulting number of trips generated for the proposed development (100%) are summarized in the following table:

FOP Site (Jefferson St. North of Singer Blvd.)
Trip Generation Data

USE (ITE CODE)	24 HR VOL	A. M. PEAK HR.		P. M. PEAK HR.		
		GROSS	ENTER	EXIT	ENTER	EXIT
<i>DESCRIPTION</i>						
Summary Sheet	Units					
Corporate Headquarters Building (714)	20.00	170	31	2	4	33
General Office Building (710)	60.00	900	110	15	25	121
Drive-In Bank (912)	4.00	1,563	45	33	102	102
High Turnover (Sit-Down) Restaurant (932)	10.00	1,272	60	55	67	43
Subtotal		3,905	246	105	198	299

The Implementation Year Analysis for this study assumed a development of 100% of the project to be implemented. See Appendix Pages A-6 through A-10 for more detailed information regarding trip generation rates (including Trip Generation Summary Tables and Worksheets).

No adjustments were made to the trip generation rates for Pass-by Trips for these land uses.

TRIP DISTRIBUTION

Primary and Diverted Linked Trips:

Commercial Land Use

Primary and diverted linked trips for the commercial land use development were distributed proportionally to the 2009 projected population of Data Analysis Subzones within a two-mile radius of the proposed development. Population data for the years 2000 and 2025 were taken from the 2025 Socioeconomic Forecasts by Data Analysis Subzones for the Mid-Region of New Mexico, S-03-01, 2003, Appendix B and Appendix C, supplied by the Mid-Region Council of Governments (MRCOG). Population data from the years 2000 and 2025

was interpolated linearly to obtain 2009 population data to utilize for this analysis. Population Subzones were grouped based on the most likely major street(s) or route(s) to the subject development. The trip distribution worksheets and associated map of subareas and data analysis subzones is shown on Appendix Pages A-9 thru A-18.

Office Land Uses

Primary and diverted linked trips for the Office land use development were distributed proportionally to the 2009 projected population of Subareas citywide. Population data for the years 2005 and 2010 were taken from the 2025 Socioeconomic Forecasts by Data Analysis Subzones for the Mid-Region of New Mexico, S-03-01, 2003, Appendix D, supplied by the Mid-Region Council of Governments (MRCOG). Population data from the years 2005 and 2010 was interpolated linearly to obtain 2009 population data to utilize for this analysis. Population Subzones were grouped based on the most likely major street(s) or route(s) to the subject development. The trip distribution worksheets and associated map of subareas and data analysis subzones is shown on Appendix Pages A-9 thru A-18.

TRIP ASSIGNMENTS

Trip assignments for primary and diverted linked trips are first made on a percentage basis derived from data established in the trip distribution determination process and logical routing. Those percentages are then applied to the projected trips to determine individual traffic movements. Commercial percentage trip distribution and trip assignments maps are shown on Pages A-18 through A-20 in the Appendix of this report. Office percentage trip distribution and trip assignments maps are shown on Pages A-25 through A-27 in the Appendix of this report.

BACKGROUND TRAFFIC GROWTH

Background traffic growth rates were considered for each individual approach to an intersection that was targeted for analysis based on data from the 2001, 2002, 2003, 2004 and 2005 Traffic Flow maps prepared by the Mid-Region Council of Governments. Most of the Traffic Flow Data for those years taken from the MRCOG Traffic Flow Maps were Standard Data. The data from those years for each approach was plotted on a graph and a linear "regression trend line" calculated using the equation format $y=mx+b$. The growth rate was determined by calculating the average volume increase per year during the time period considered and dividing that volume into the most recent AWDT used in the analysis from which future volumes will be calculated. The rate of growth of that trend line was utilized as the annual growth rate for each approach if that calculated rate appeared feasible. However, there were some instances where the rate indicated a negative growth trend or appeared to be unreasonably high or low. In those cases, an appropriate growth rate from an adjacent segment of the same roadway was used, a shorter time span was used to determine the growth rate, or the growth rate was considered to be zero or a generic 3% if appropriate. Due to the potential for growth in the area, it was believed that a zero percent growth rate was inappropriate for this study. Therefore, a growth rate of 1.00% was used if the linear regression analysis showed the growth rate to be negative. Additionally, if the R^2 value of the trend line was low, other means of establishing a probable growth rate from the data accumulated was considered. Historical Growth Rate Graphs with linear regression trendlines are shown in the Appendix on Pages A-29 through A-38. An Historic Growth Rate Map can be found on Page A-39 of the Appendix. Additionally, the growth rate utilized

for each approach to an intersection is printed at the top of the Turning Movement sheets for each intersection (Appendix Pages A-43 through A-67).

PROJECTED PEAK HOUR TURNING MOVEMENTS FOR 2009 BUILDOUT

The calculated growth rates were applied to the most recent peak hour traffic counts (furnished by the City of Albuquerque and conducted for this study) to derive the 2009 AM and PM Peak Hour NO BUILD Volumes. To these volumes, the generated trips based on implementation of the proposed Fraternal Order of Police Conceptual Site Development Plan (100% development) were added to obtain BUILD volumes for the intersection analyses. See Appendix Pages A-43 through A-67 for further information regarding the turning movement counts. Turning Movement Volumes Maps for the 2009 NO BUILD Conditions, Trips Generated, and 2009 BUILD Conditions are shown on Pages A-68 thru A-71 in the Appendix of this report.

INTERSECTION CAPACITY ANALYSIS

Intersection capacity analyses were performed in accordance with the procedures for signalized and unsignalized intersections in the Highway Capacity Manual, Special Report 209, Transportation Research Board, 2000, using Synchro Version 6 Highway Capacity Software for signalized and unsignalized intersections. For signalized intersections, the operational method of analysis was used for 2010 conditions (NO BUILD and BUILD).

Generally speaking, the operational analyses utilized data obtained from the traffic count data furnished by the Mid-Region Council of Governments. The percent heavy commercial traffic was obtained from the Turning Movements for Total Intersection sheet from the traffic counts. Peak Hour Factors (PHF) were taken from the AM or PM Peak Hour Traffic Count Data Sheet. If the volume of traffic for the 2009 NO BUILD and / or 2009 BUILD analysis increased significantly above that of the existing traffic count, then it was considered appropriate to increase the Peak Hour Factors for those movements by up to 0.02. The arrival type was assumed to be a Type 3 Arrival unless on a major street with an adjacent upstream traffic signal that would platoon the heavier direction flow of traffic. In that case, the appropriate arrival type would be a Type 4 Arrival.

Capacity analyses were performed for the following traffic conditions.

- 2009 without development of the subject property (NO BUILD)
- 2009 with development as per the Conceptual Site Development Plan (BUILD)

The results of the 2009 NO BUILD and 2009 BUILD capacity analyses are summarized in the following sections - *Results and Discussion of Intersection Capacity Analyses*.

RESULTS OF SIGNALIZED INTERSECTION CAPACITY ANALYSES

IMPLEMENTATION YEAR (2009)

#1 - Singer Blvd. / Jefferson St. - Pages A-72 thru A-76

The results of the implementation year analysis of the signalized intersection of Singer Blvd / Jefferson St are summarized in the following tables:

Existing Geometry (Singer Blvd / Jefferson St.)

Approach	Left Turn Lanes	Thru/Lefts	Thru Lanes	Thru/Rights	Right Turn Lanes
EB Singer Blvd	2	0	0	1	0
WB Singer Blvd	2	0	1	1	0
NB Jefferson St.	1	0	2	0	1
SB Jefferson St.	1	0	1	1	0

Singer Blvd / Jefferson St.	2009 No Build		2009 BUILD	
	A.M.	P.M.	A.M.	P.M.
Existing Geometry	B-19.8	E-58.3	B-19.0	E-67.3
Existing Geometry – Add SB Right Turn Lane				D-54.5

The intersection of Singer Blvd / Jefferson St. is projected to operate at satisfactory levels-of-service for the projected 2009 AM Peak Hour BUILD Condition. The projected 2009 PM Peak Hour NO BUILD and BUILD Conditions are at or near capacity. The projected level-of-service for both conditions is LOS "E".

The critical lane movements at the intersection for the 2009 PM Peak Hour BUILD Condition are the northbound left turn movement, the southbound thru movement, the eastbound thru movement, and the westbound left turn movement. Implementing dual northbound left turn lanes does not provide enough benefit to rectify the situation due to the fact that the projected northbound left turn volume is 218 vehicles per hour for the 2009 PM Peak Hour Conditions. It appears from aerial photographs that there may be sufficient room to construct a new southbound right turn lane on Jefferson St. This improvement would provide enough benefit to raise the level-of-service at the intersection to "D" for the 2009 PM Peak Hour BUILD Condition. The projected volume for the eastbound thru movement is too small, and providing an additional eastbound thru lane would not provide significant benefit. There are already existing dual westbound left turn lanes on Singer Blvd. Therefore, an additional westbound left turn lane cannot be considered. Therefore, the recommendation of this report is to construct a new southbound right turn lane on Jefferson St. at Singer Blvd. to mitigate the impact of this development on the intersection.

It should be noted that this project contributes only about 5.8% of the total traffic to the intersection and only about 4.0% of the total southbound right turn volume during the projected 2009 PM Peak Hour period.

The following table summarizes the results of the queuing analysis for this intersection of Singer Blvd / Jefferson St.:

Queueing Analysis Summary Sheet

Project: Fraternal Order of Police
 Intersection: Singer Ave / Jefferson St

2009											
Eastbound			Left Turns			Thru Movements			Right Turns		
Approach	# Lanes	Vol.	Length (Ft.)	# Lanes	Vol.	Length (Ft.)	# Lanes	Vol.	Length (Ft.)		
<i>Existing Lane Length</i>	2	145	175	1	28	<i>Cont</i>	0	201	0		
AM NO BUILD Queue	2	151	125	1	29	75	0	209	275		
AM BUILD Queue	2	158	150	1	29	75	0	209	275		
<i>Existing Lane Length</i>	2	212	175	1	63	<i>Cont</i>	0	428	0		
PM NO BUILD Queue	2	220	200	1	66	125	0	445	525		
PM BUILD Queue	2	222	200	1	66	125	0	445	525		
Westbound											
Approach	# Lanes	Vol.	Length (Ft.)	# Lanes	Vol.	Length (Ft.)	# Lanes	Vol.	Length (Ft.)		
<i>Existing Lane Length</i>	2	56	165	2	19	<i>Cont</i>	0	21	0		
AM NO BUILD Queue	2	58	75	2	20	25	0	22	50		
AM BUILD Queue	2	58	75	2	20	25	0	22	50		
<i>Existing Lane Length</i>	2	193	165	2	35	<i>Cont</i>	0	53	0		
PM NO BUILD Queue	2	201	175	2	36	50	0	55	100		
PM BUILD Queue	2	201	175	2	36	50	0	55	100		
Northbound											
Approach	# Lanes	Vol.	Length (Ft.)	# Lanes	Vol.	Length (Ft.)	# Lanes	Vol.	Length (Ft.)		
<i>Existing Lane Length</i>	1	411	130	2	671	<i>Cont</i>	1	283	325		
AM NO BUILD Queue	1	427	475	2	698	450	1	294	350		
AM BUILD Queue	1	427	475	2	827	500	1	294	350		
<i>Existing Lane Length</i>	1	210	130	2	386	<i>Cont</i>	1	156	325		
PM NO BUILD Queue	1	218	300	2	401	300	1	162	225		
PM BUILD Queue	1	218	300	2	498	350	1	162	225		
Southbound											
Approach	# Lanes	Vol.	Length (Ft.)	# Lanes	Vol.	Length (Ft.)	# Lanes	Vol.	Length (Ft.)		
<i>Existing Lane Length</i>	1	34	150	2	387	<i>Cont</i>	0	134	0		
AM NO BUILD Queue	1	42	75	2	481	325	0	167	225		
AM BUILD Queue	1	42	75	2	502	325	0	169	225		
<i>Existing Lane Length</i>	1	28	150	2	593	<i>Cont</i>	0	134	0		
PM NO BUILD Queue	1	35	75	2	738	500	0	167	250		
PM BUILD Queue	1	35	75	2	800	525	0	174	250		

Cycle Length: **AM** **PM**
 110 120

#2 - Jefferson St I-25 W. ramp - Pages A-77 thru A-81

The results of the implementation year analysis of the signalized intersection of Jefferson St / I-25 W. ramp are summarized in the following tables:

Existing Geometry (/ Jefferson St.)

Approach	Left Turn Lanes	Thru/Lefts	Thru Lanes	Thru/Rights	Right Turn Lanes
SB I-25 W. ramp	1	0	2	0	1
WB Jefferson St.	1	0	2	0	0
EB Jefferson St.	0	0	1	1	0

Jefferson St / I-25 W. ramp	2009 No Build		2009 BUILD	
	A.M.	P.M.	A.M.	P.M.
Existing Geometry	C-27.7	C-25.4	C-32.2	C-24.6

This analysis is based on AM and PM Peak Hour turning movement volumes obtained from the Mid-Region Council of Governments. The results of the signalized intersection analysis indicate that the operation of the intersection is satisfactory. However, an observation of conditions in the field indicate that the intersection volumes are well above capacity of the intersection. The discrepancy between the analysis and the actual conditions is due to the fact that the traffic backup and queues are of such magnitude that the traffic demand is not accurately reflected by the traffic volumes reported in the MRCOG traffic count data. The operation of the intersection is probably level-of-service "F" in reality. Mitigation of the less-than desirable levels-of-service consists of reconstruction of the Jefferson St. / I-25 Interchange. It is a regional problem and should not be the responsibility of a private developer.

The following table summarizes the results of the queuing analysis for this intersection of Jefferson St / I-25 W. ramp:

Queueing Analysis Summary Sheet

Project: Fraternal Order of Police
 Intersection: Jefferson St / I-25 W. ramp

2009

Eastbound Approach	Left Turns			Thru Movements			Right Turns		
	# Lanes	Vol.	Length (Ft.)	# Lanes	Vol.	Length (Ft.)	# Lanes	Vol.	Length (Ft.)
<i>Existing Lane Length</i>	0	0	0	2	412	<i>Cont</i>	0	234	0
AM NO BUILD Queue	0	0	0	2	432	300	0	243	300
AM BUILD Queue	0	0	0	2	446	300	0	250	300
<i>Existing Lane Length</i>	0	0	0	2	737	<i>Cont</i>	0	518	0
PM NO BUILD Queue	0	0	0	2	774	525	0	539	625
PM BUILD Queue	0	0	0	2	805	525	0	570	650
Westbound									
Approach	# Lanes	Vol.	Length (Ft.)	# Lanes	Vol.	Length (Ft.)	# Lanes	Vol.	Length (Ft.)
<i>Existing Lane Length</i>	1	241	150	2	1,680	<i>Cont</i>	0	0	0
AM NO BUILD Queue	1	252	325	2	1,748	>1,000	0	0	0
AM BUILD Queue	1	252	325	2	1,877	>1,000	0	0	0
<i>Existing Lane Length</i>	1	272	150	2	946	<i>Cont</i>	0	0	0
PM NO BUILD Queue	1	286	375	2	987	625	0	0	0
PM BUILD Queue	1	286	375	2	1,084	675	0	0	0
Northbound									
Approach	# Lanes	Vol.	Length (Ft.)	# Lanes	Vol.	Length (Ft.)	# Lanes	Vol.	Length (Ft.)
<i>Existing Lane Length</i>	0	0	0	0	0	<i>Cont</i>	0	0	0
AM NO BUILD Queue	0	0	0	0	0	0	0	0	0
AM BUILD Queue	0	0	0	0	0	0	0	0	0
<i>Existing Lane Length</i>	0	0	0	0	0	<i>Cont</i>	0	0	0
PM NO BUILD Queue	0	0	0	0	0	0	0	0	0
PM BUILD Queue	0	0	0	0	0	0	0	0	0
Southbound									
Approach	# Lanes	Vol.	Length (Ft.)	# Lanes	Vol.	Length (Ft.)	# Lanes	Vol.	Length (Ft.)
<i>Existing Lane Length</i>	1	251	600	2	402	<i>Cont</i>	1	169	350
AM NO BUILD Queue	1	314	375	2	497	325	1	209	275
AM BUILD Queue	1	335	400	2	507	350	1	209	275
<i>Existing Lane Length</i>	1	288	600	2	583	<i>Cont</i>	1	114	350
PM NO BUILD Queue	1	364	450	2	721	475	1	141	225
PM BUILD Queue	1	409	500	2	769	525	1	141	225

AM
PM
 Cycle Length: 110 120

The westbound left turn lane cannot be lengthened since it's current length is restricted by the design of the grade separation structure at the interchange.

#3 - Jefferson S / I-25 E. ramp - Pages A-82 thru A-86

The results of the implementation year analysis of the signalized intersection of Jefferson St / I-25 E. ramp are summarized in the following tables:

Existing Geometry (Jefferson St / I-25 E. ramp)

Approach	Left Turn Lanes	Thru/Lefts	Thru Lanes	Thru/Rights	Right Turn Lanes
NB I-25 E. ramp	1	1	1	0	1
WB Jefferson St.	0	0	1	1	0
EB Jefferson St.	1	0	2	0	0

Jefferson St / I-25 E. ramp	2009 No Build		2009 BUILD	
	A.M.	P.M.	A.M.	P.M.
Existing Geometry	C-23.3	C-25.9	C-24.5	C-30.5

The conditions at the intersection of Jefferson St. / I-25 East Ramp are similar to those discussed previously for the West Ramp. The calculated reported levels-of-service are optimistically good. The actual levels-of-service being experienced in the field are LOS "F" for both the NO BUILD Conditions and the BUILD Conditions.

This intersection is part of a regional interchange and should be part of a public infrastructure project to reconstruct the interchange.

The following table summarizes the results of the queuing analysis for this intersection of Jefferson St / I-25 E. ramp:

Queueing Analysis Summary Sheet

Project: Fraternal Order of Police
 Intersection: Jefferson St / I-25 E. ramp

2009

Eastbound Approach	Left Turns			Thru Movements			Right Turns		
	# Lanes	Vol.	Length (Ft.)	# Lanes	Vol.	Length (Ft.)	# Lanes	Vol.	Length (Ft.)
<i>Existing Lane Length</i>	1	52	125	2	440	<i>Cont</i>	0	0	0
AM NO BUILD Queue	1	54	100	2	465	325	0	0	0
AM BUILD Queue	1	54	100	2	500	325	0	0	0
<i>Existing Lane Length</i>	1	316	125	2	673	<i>Cont</i>	0	0	0
PM NO BUILD Queue	1	329	425	2	714	475	0	0	0
PM BUILD Queue	1	329	425	2	790	525	0	0	0
Westbound									
Approach	# Lanes	Vol.	Length (Ft.)	# Lanes	Vol.	Length (Ft.)	# Lanes	Vol.	Length (Ft.)
<i>Existing Lane Length</i>	0	0	0	2	473	<i>Cont</i>	0	119	0
AM NO BUILD Queue	0	0	0	2	486	325	0	125	175
AM BUILD Queue	0	0	0	2	545	350	0	125	175
<i>Existing Lane Length</i>	0	0	0	2	446	<i>Cont</i>	0	257	0
PM NO BUILD Queue	0	0	0	2	463	350	0	271	350
PM BUILD Queue	0	0	0	2	530	375	0	271	350
Northbound									
Approach	# Lanes	Vol.	Length (Ft.)	# Lanes	Vol.	Length (Ft.)	# Lanes	Vol.	Length (Ft.)
<i>Existing Lane Length</i>	1	647	850	2	291	<i>Cont</i>	1	134	325
AM NO BUILD Queue	1	831	850	2	374	275	1	172	225
AM BUILD Queue	1	900	900	2	374	275	1	172	225
<i>Existing Lane Length</i>	1	439	850	2	474	<i>Cont</i>	1	186	325
PM NO BUILD Queue	1	564	650	2	609	425	1	239	325
PM BUILD Queue	1	594	675	2	609	425	1	239	325
Southbound									
Approach	# Lanes	Vol.	Length (Ft.)	# Lanes	Vol.	Length (Ft.)	# Lanes	Vol.	Length (Ft.)
<i>Existing Lane Length</i>	0	0	0	0	0	<i>Cont</i>	0	0	0
AM NO BUILD Queue	0	0	0	0	0	0	0	0	0
AM BUILD Queue	0	0	0	0	0	0	0	0	0
<i>Existing Lane Length</i>	0	0	0	0	0	<i>Cont</i>	0	0	0
PM NO BUILD Queue	0	0	0	0	0	0	0	0	0
PM BUILD Queue	0	0	0	0	0	0	0	0	0

AM
PM
 Cycle Length: 110 120

The eastbound left turn lane cannot be lengthened since it's current length is restricted by the design of the grade separation structure at the interchange. The northbound left turn queueing (850 feet) extends south from the stop bar to the gore point of the ramp.

#4 - San Mateo Blvd / I-25 E. ramp - Pages A-88 thru A-91

The results of the implementation year analysis of the signalized intersection of San Mateo Blvd / I-25 E. ramp are summarized in the following tables:

Existing Geometry (San Mateo Blvd / I-25 E. ramp)

Approach	Left Turn Lanes	Thru/Lefts	Thru Lanes	Thru/Rights	Right Turn Lanes
EB San Mateo Blvd	2	0	3	0	0
WB San Mateo Blvd	0	0	1	1	1
NB I-25 E. ramp	2	0	1	0	1

San Mateo Blvd / I-25 E. ramp	2009 No Build		2009 BUILD	
	A.M.	P.M.	A.M.	P.M.
Existing Geometry	F-98.4	F-93.7	F-103	F-102

The projected 2009 AM and PM Peak Hour NO BUILD Conditions operation of the intersection is at LOS "F" with an approximate delay of 94 to 98 seconds. Implementation of the proposed FOP Development will provide only minor increases in the overall delay at the intersection. The magnitude of the delay increase is approximately 5 seconds during the AM Peak Hour and approximately 8 seconds during the PM Peak Hour. Therefore, this study finds that the level of impact of this development on the intersection of San Mateo Blvd. / I-25 East Ramp to be insignificant and no recommendation is made.

Additionally, the proposed FOP Development traffic will comprise less than 2% of the AM Peak Hour Volumes and the PM Peak Hour Volumes at the intersection projected for the 2009 BUILD Conditions.

The following table summarizes the results of the queuing analysis for this intersection of San Mateo Blvd / I-25 E. ramp:

Queueing Analysis Summary Sheet

Project: Fraternal Order of Police
 Intersection: San Mateo Blvd / I-25 E. ramp

2009												
Eastbound				Left Turns			Thru Movements			Right Turns		
Approach	# Lanes	Vol.	Length (Ft.)	# Lanes	Vol.	Length (Ft.)	# Lanes	Vol.	Length (Ft.)	# Lanes	Vol.	Length (Ft.)
Existing Lane Length	2	173	110	3	1,291	Cont	0	0	0	0	0	0
AM NO BUILD Queue	2	189	150	3	1,410	575	0	0	0	0	0	0
AM BUILD Queue	2	202	175	3	1,429	600	0	0	0	0	0	0
Existing Lane Length	2	298	110	3	1,736	Cont	0	0	0	0	0	0
PM NO BUILD Queue	2	325	250	3	1,896	825	0	0	0	0	0	0
PM BUILD Queue	2	366	275	3	1,940	825	0	0	0	0	0	0
Westbound												
Approach	# Lanes	Vol.	Length (Ft.)	# Lanes	Vol.	Length (Ft.)	# Lanes	Vol.	Length (Ft.)	# Lanes	Vol.	Length (Ft.)
Existing Lane Length	0	0	0	2	2,423	Cont	1	517	400	1	538	575
AM NO BUILD Queue	0	0	0	2	2,520	>1,000	1	538	575	1	538	575
AM BUILD Queue	0	0	0	2	2,555	>1,000	1	538	575	1	538	575
Existing Lane Length	0	0	0	2	1,770	Cont	1	875	400	1	875	400
PM NO BUILD Queue	0	0	0	2	1,841	>1,000	1	910	>1,000	1	910	>1,000
PM BUILD Queue	0	0	0	2	1,877	>1,000	1	910	>1,000	1	910	>1,000
Northbound												
Approach	# Lanes	Vol.	Length (Ft.)	# Lanes	Vol.	Length (Ft.)	# Lanes	Vol.	Length (Ft.)	# Lanes	Vol.	Length (Ft.)
Existing Lane Length	2	382	240	1	276	Cont	1	224	40	1	224	40
AM NO BUILD Queue	2	472	325	1	341	400	1	277	325	1	277	325
AM BUILD Queue	2	472	325	1	341	400	1	277	325	1	277	325
Existing Lane Length	2	242	240	1	597	Cont	1	347	40	1	347	40
PM NO BUILD Queue	2	299	250	1	738	825	1	429	525	1	429	525
PM BUILD Queue	2	299	250	1	738	825	1	429	525	1	429	525
Southbound												
Approach	# Lanes	Vol.	Length (Ft.)	# Lanes	Vol.	Length (Ft.)	# Lanes	Vol.	Length (Ft.)	# Lanes	Vol.	Length (Ft.)
Existing Lane Length	0	0	0	0	0	Cont	0	0	0	0	0	0
AM NO BUILD Queue	0	0	0	0	0	0	0	0	0	0	0	0
AM BUILD Queue	0	0	0	0	0	0	0	0	0	0	0	0
Existing Lane Length	0	0	0	0	0	Cont	0	0	0	0	0	0
PM NO BUILD Queue	0	0	0	0	0	0	0	0	0	0	0	0
PM BUILD Queue	0	0	0	0	0	0	0	0	0	0	0	0

AM **PM**
 Cycle Length: 110 120

The eastbound left turn lanes provide a total of 520 lineal feet of turn lane. Effectively, there are 260 feet of dual eastbound left turn lanes. The existing westbound right turn lane length (400 feet) extends back to the next intersection. It then continues beyond that, but this report

only measures to the next intersection. It should be noted that the proposed FOP project does not contribute any traffic to the northbound approach. Therefore, no recommendation is made.

#5 - San Mateo Blvd / I-25 W. ramp - Pages A-92 thru A-95a

The results of the implementation year analysis of the signalized intersection of San Mateo Blvd / I-25 W. ramp are summarized in the following tables:

Existing Geometry (San Mateo Blvd / I-25 W. ramp)

Approach	Left Turn Lanes	Thru/Lefts	Thru Lanes	Thru/Rights	Right Turn Lanes
EB San Mateo Blvd	0	0	2	0	1
WB San Mateo Blvd	2	0	3	0	0
SB I-25 W. ramp	1	0	2	0	1

San Mateo Blvd / I-25 W. ramp	2009 No Build		2009 BUILD	
	A.M.	P.M.	A.M.	P.M.
Existing Geometry	C-34.4	D-39.3	D-37.7	D-42.8

This report indicates that the intersection of San Mateo Blvd. (Osuna) / I-25 W. Ramp will operate all acceptable levels-of-service for all conditions analyzed.

The following table summarizes the results of the queuing analysis for this intersection of San Mateo Blvd / I-25 W. ramp:

Queueing Analysis Summary Sheet

Project:
Intersection:

Fraternal Order of Police
Osuna Rd / I-25 W. ramp

2009												
Eastbound				Left Turns			Thru Movements			Right Turns		
Approach				# Lanes	Vol.	Length (Ft.)	# Lanes	Vol.	Length (Ft.)	# Lanes	Vol.	Length (Ft.)
<i>Existing Lane Length</i>				0	0	0	2	1,325	Cont	1	403	350
AM NO BUILD Queue				0	0	0	2	1,447	825	1	440	500
AM BUILD Queue				0	0	0	2	1,479	825	1	440	500
<i>Existing Lane Length</i>				0	0	0	2	1,697	Cont	1	471	350
PM NO BUILD Queue				0	0	0	2	1,853	>1,000	1	514	600
PM BUILD Queue				0	0	0	2	1,938	>1,000	1	514	600
<hr/>												
Westbound				# Lanes	Vol.	Length (Ft.)	# Lanes	Vol.	Length (Ft.)	# Lanes	Vol.	Length (Ft.)
<i>Existing Lane Length</i>				2	695	350*	3	1,246	Cont	0	0	0
AM NO BUILD Queue				2	759	475	3	1,361	575	0	0	0
AM BUILD Queue				2	780	475	3	1,375	575	0	0	0
<i>Existing Lane Length</i>				2	484	350*	3	1,184	Cont	0	0	0
PM NO BUILD Queue				2	529	375	3	1,293	575	0	0	0
PM BUILD Queue				2	551	400	3	1,307	600	0	0	0
<hr/>												
Northbound				# Lanes	Vol.	Length (Ft.)	# Lanes	Vol.	Length (Ft.)	# Lanes	Vol.	Length (Ft.)
<i>Existing Lane Length</i>				0	0	0	0	0	Cont	0	0	0
AM NO BUILD Queue				0	0	0	0	0	0	0	0	0
AM BUILD Queue				0	0	0	0	0	0	0	0	0
<i>Existing Lane Length</i>				0	0	0	0	0	Cont	0	0	0
PM NO BUILD Queue				0	0	0	0	0	0	0	0	0
PM BUILD Queue				0	0	0	0	0	0	0	0	0
<hr/>												
Southbound				# Lanes	Vol.	Length (Ft.)	# Lanes	Vol.	Length (Ft.)	# Lanes	Vol.	Length (Ft.)
<i>Existing Lane Length</i>				1	191	150	2	302	Cont	1	194	150
AM NO BUILD Queue				1	236	300	2	373	275	1	240	300
AM BUILD Queue				1	236	300	2	393	275	1	254	325
<i>Existing Lane Length</i>				1	155	150	2	182	Cont	1	145	150
PM NO BUILD Queue				1	192	275	2	225	200	1	179	250
PM BUILD Queue				1	192	275	2	240	200	1	189	275

AM
PM
 Cycle Length: 110 120

The westbound left turn lanes provide a total of 700 lineal feet of turn lane. Effectively, there are 350 feet of dual eastbound left turn lanes. It cannot be lengthened. There are minor queuing problems on the north leg of the intersection. The southbound right turn lane should

be extended by approximately 175 feet. The southbound left turn lane should be lengthened by a distance of approximately 150 feet. This project does not contribute traffic to the southbound left turn movement. Therefore, this report recommends that the southbound right turn lane be lengthened by approximately 175 feet.

#6 - Osuna Rd. / Jefferson St. - Pages A-96 thru A-99

The results of the implementation year analysis of the signalized intersection of Osuna Rd / Jefferson St. are summarized in the following tables:

Existing Geometry (Osuna Rd. / Jefferson St.)

Approach	Left Turn Lanes	Thru/Lefts	Thru Lanes	Thru/Rights	Right Turn Lanes
EB Osuna Rd.	2	0	2	1	0
WB Osuna Rd.	2	0	2	0	1
NB Jefferson St.	1	0	2	0	1
SB Jefferson St.	1	0	1	1	0

Osuna Rd. / Jefferson St.	2009 No Build		2009 BUILD	
	A.M.	P.M.	A.M.	P.M.
Existing Geometry	C-33.3	F-80.8	C-34.7	F-91.2
Exist. Geom. – Add EB Thru, WB Thru, SB RT Lanes				D-51.4

The intersection of Osuna Rd. / Jefferson St. is projected to operate at satisfactory levels-of-service for the projected 2009 AM Peak Hour BUILD Condition. The projected 2009 PM Peak Hour NO BUILD and BUILD Conditions are at or near capacity. The projected level-of-service for both conditions is LOS "F".

A previous Traffic Impact Study for the proposed Vista del Norte Commercial Development recommended that a fourth eastbound thru lane and a third westbound thru lane be constructed on Osuna Rd., and a southbound right turn lane be constructed on Jefferson St. There are probably serious right-of-way problems associated with construction of these improvements. If constructed, the projected 2009 PM Peak Hour BUILD level-of-service would be "D" with a 51.4 second average control delay.

The proposed FOP Development traffic will constitute 3.0% or less of the total projected 2009 AM and PM Peak Hour BUILD Volumes at the intersection of Osuna Rd. / Jefferson St.

The following table summarizes the results of the queuing analysis for this intersection of Osuna Blvd / Jefferson St.:

Queueing Analysis Summary Sheet

Project: Fraternal Order of Police
 Intersection: Osuna Rd / Jefferson St

2009												
Eastbound				Left Turns			Thru Movements			Right Turns		
Approach	# Lanes	Vol.	Length (Ft.)	# Lanes	Vol.	Length (Ft.)	# Lanes	Vol.	Length (Ft.)	# Lanes	Vol.	Length (Ft.)
<i>Existing Lane Length</i>	2	236	200	3	1,081	<i>Cont</i>	0	154	0	0	184	250
AM NO BUILD Queue	2	282	225	3	1,292	550	0	195	250	0	81	0
AM BUILD Queue	2	282	225	3	1,292	550	0	195	250	0	97	150
<i>Existing Lane Length</i>	2	248	200	3	1,487	<i>Cont</i>	0	111	175	0	97	150
PM NO BUILD Queue	2	296	250	3	1,777	775	0	111	175	0	97	150
PM BUILD Queue	2	296	250	3	1,777	775	0	111	175	0	111	175
Westbound												
Approach	# Lanes	Vol.	Length (Ft.)	# Lanes	Vol.	Length (Ft.)	# Lanes	Vol.	Length (Ft.)	# Lanes	Vol.	Length (Ft.)
<i>Existing Lane Length</i>	2	182	175	2	921	<i>Cont</i>	1	262	0	1	292	350
AM NO BUILD Queue	2	203	175	2	1,027	600	1	292	350	1	292	350
AM BUILD Queue	2	231	175	2	1,027	600	1	292	350	1	292	350
<i>Existing Lane Length</i>	2	88	175	2	1,016	<i>Cont</i>	1	201	0	1	224	300
PM NO BUILD Queue	2	98	100	2	1,133	725	1	224	300	1	224	300
PM BUILD Queue	2	122	125	2	1,133	725	1	224	300	1	224	300
Northbound												
Approach	# Lanes	Vol.	Length (Ft.)	# Lanes	Vol.	Length (Ft.)	# Lanes	Vol.	Length (Ft.)	# Lanes	Vol.	Length (Ft.)
<i>Existing Lane Length</i>	1	122	175	2	227	<i>Cont</i>	1	42	175	1	54	100
AM NO BUILD Queue	1	157	225	2	293	225	1	86	150	1	264	175
AM BUILD Queue	1	164	225	2	306	225	1	86	150	1	341	425
<i>Existing Lane Length</i>	1	291	175	2	557	<i>Cont</i>	1	426	525	1	341	425
PM NO BUILD Queue	1	375	475	2	719	475	1	426	525	1	341	425
PM BUILD Queue	1	390	475	2	754	500	1	426	525	1	426	525
Southbound												
Approach	# Lanes	Vol.	Length (Ft.)	# Lanes	Vol.	Length (Ft.)	# Lanes	Vol.	Length (Ft.)	# Lanes	Vol.	Length (Ft.)
<i>Existing Lane Length</i>	1	197	200	2	374	<i>Cont</i>	0	160	0	0	168	225
AM NO BUILD Queue	1	207	275	2	393	275	0	168	225	0	168	225
AM BUILD Queue	1	207	275	2	423	300	0	168	225	0	168	225
<i>Existing Lane Length</i>	1	335	200	2	342	<i>Cont</i>	0	303	0	0	318	400
PM NO BUILD Queue	1	352	450	2	359	275	0	318	400	0	318	400
PM BUILD Queue	1	352	450	2	382	300	0	318	400	0	318	400

AM **PM**
 Cycle Length: 110 120

The northbound left turn lane should be extended to a length of 300 feet to the existing median break south of Osuna Rd. if possible. Due to the existence of impact fees, this improvement is not recommended in this study.

RESULTS OF UNSIGNALIZED INTERSECTION CAPACITY ANALYSES

IMPLEMENTATION YEAR (2009)

#7 - Presidential Dr / Jefferson St – Pages A-100 thru A-104

The results of the analysis of the unsignalized intersection of Presidential Dr / Jefferson St are summarized in the following table:

	2009 NO BUILD		2009 BUILD	
	AM	PM	AM	PM
Presidential Dr / Jefferson St.				
Minor Street (Presidential Dr)				
WB Left	C-20.2	C-21.9	C-21.9	D-26.2
WB Right	C-20.2	C-21.9	C-21.9	D-26.2
Major Street (Jefferson St)				
SB Left	A-9.2	B-11.3	A-9.5	B-12.4

#8 - Jefferson Plaza / Jefferson St. – Pages A-105 thru A-109

The results of the analysis of the unsignalized intersection of Jefferson Plaza / Jefferson St. are summarized in the following table:

	2009 NO BUILD		2009 BUILD	
	AM	PM	AM	PM
Jefferson Plaza / Jefferson St.				
Minor Street (Jefferson Plaza)				
EB Left	D-22.5	E-37.4	D-28.0	E-46.1
EB Right	D-22.5	E-37.4	D-28.0	E-46.1
WB Left	C-24.5	C-18.7	D-26.5	C-21.3
WB Right	C-24.5	C-18.7	D-26.5	C-21.3
Major Street (Jefferson St)				
NB Left	B-13.0	B-10.5	B-13.8	B-10.9
SB Left	A-9.7	A-10.0	A-9.9	B-10.7

#9 – BMW Driveway / I-25 Frontage Rd – Pages A-110 thru A-114

The results of the analysis of the unsignalized intersection of BMW Driveway / I-25 Frontage Rd are summarized in the following table:

	2009 NO BUILD		2009 BUILD	
	AM	PM	AM	PM
BMW Driveway / I-25 Frontage Rd				
Minor Street (BMW Driveway)				
EB Left	B-10.4	B-11.8	B-10.6	B-13.8
EB Right	B-10.4	B-11.8	B-10.6	B-13.8
Major Street (I-25 Frontage Rd)				
SB Right	N/A	N/A	N/A	N/A

This intersection occurs on an New Mexico Department of Transportation Interstate frontage road and therefore was analyzed for auxiliary deceleration lane warrants. (See Appendix pages A-126 through A-127) According to NMDOT State Access Management Manual Criteria, this intersection warrants a right turn deceleration lane with a length of 400 feet and a taper ratio of 12.5:1. The length of the deceleration lane length can be reduced to 370 feet plus transition if the return radius into the driveway is 35 feet or greater.

#10 – Driveway ‘A’ / Jefferson St. – Pages A-115 thru A-117

The results of the analysis of the unsignalized intersection of Driveway ‘A’ / Jefferson St. are summarized in the following table:

	2009 BUILD	
	AM	PM
Driveway ‘A’ / Jefferson St		
Minor Street (Driveway ‘A’)		
WB Right	B-12.0	B-13.0
Major Street (Jefferson St)		
NB Right	N/A	N/A

Driveway “A” is proposed to be a right-turn-in, right-turn-out only unsignalized driveway.

#11 – Driveway ‘B’ / Jefferson St. – Pages A-118 thru A-122

The results of the analysis of the unsignalized intersection of Driveway ‘B’ / Jefferson St. are summarized in the following table:

	2009 NO BUILD		2009 BUILD	
	AM	PM	AM	PM
Driveway ‘B’ / Jefferson St				
Minor Street (Driveway ‘B’)				
EB Left	C-16.3	C-20.0	C-22.6	D-34.1
EB Thru	N/A	N/A	C-22.6	D-34.1
EB Right	C-16.3	C-20.0	C-22.6	D-34.1
Minor Street (Driveway ‘B’)				
WB Left	N/A	N/A	C-23.3	F-75.7
WB Thru	N/A	N/A	C-23.3	F-75.7
WB Right	N/A	N/A	C-23.3	F-75.7
Major Street (Jefferson St)				
NB Left	B-10.3	B-10.9	B-10.3	B-10.9
SB Left	N/A	N/A	A-2.9	A-2.6

Currently, the east leg of the driveway exists as a dirt road. The volumes on the east leg currently are almost non-existent. Driveway “B” is proposed to be a full access unsignalized driveway which aligns with an existing driveway on the west side of Jefferson St.

Since the projected delays for the new FOP driveway are at LOS “F”, this study recommends that the new driveway be constructed with at least two westbound approach lanes (one for westbound left turns and one for westbound thru / right turns) and one eastbound lane. Also,

a northbound right turn deceleration lane is warranted on Jefferson St. at Driveway "B". The length of the deceleration lane should be 150 feet plus transition.

#12 – Driveway 'C' / Jefferson St. – Pages A-123 thru A-125

The results of the analysis of the unsignalized intersection of Driveway 'C' / Jefferson St. are summarized in the following table:

	2009 BUILD	
	AM	PM
Driveway 'C' / Jefferson St		
Minor Street (Driveway 'C')		
WB Left	N/A	N/A
WB Right	B-12.4	B-12.4
Major Street (Jefferson St)		
NB Right	N/A	N/A

Driveway "C" is proposed to be a right-turn-in, right-turn-out only unsignalized driveway.

Driveways "A", "B", and "C" will be required to meet the minimum standards established by the City of Albuquerque Development Process Manual (D.P.M.).

It should be noted that Levels of Service (LOS) for unsignalized intersections cannot be compared directly with Levels of Service for signalized intersections. LOS for unsignalized intersections is based on reserve capacity, which is converted to generalized levels of delay; LOS for signalized intersections is based on actual delay in seconds..

LEVEL-OF-SERVICE CRITERIA FOR UNSIGNALIZED INTERSECTIONS

Average Delay (secs)	Level-of-Service
≤ 10	A
> 10 and ≤ 15	B
> 15 and ≤ 25	C
> 25 and ≤ 35	D
> 35 and ≤ 50	E
> 50	F

Generally speaking, a Level-of-Service D or better is an acceptable parameter for design purposes.

CONCLUSIONS

This analysis was conducted using the following methodology: Trip Generation was established using the Institute of Transportation Engineers' (ITE's) Trip Generation Manual (7th Edition). Generated Trips were distributed proportionately based on the Population Data Analysis Subzones or Population Subareas as was appropriate; Growth rate of background traffic was calculated from the 2001 thru 2005 AWDT's from MRCOG Traffic Flow Maps and used to project 2009 peak hour volumes at key intersections; and the intersection analyses were performed in accordance with the 2000 Highway Capacity Manual. The Traffic Impact Study showed a moderate increase in traffic congestion for the adjacent transportation network based on 100% buildout of the proposed project.

In summary, the proposed site plan consisting of commercial / office type of development will present no significant adverse impact to the adjacent transportation system provided that the following recommendations are followed:

RECOMMENDATIONS

FROM IMPLEMENTATION YEAR (2009) ANALYSIS

- All design and construction of the project shall provide for adequate sight distances and driveways at existing and proposed intersections and driveways constructed and/or altered by this project.
- **Singer Blvd. / Jefferson St.** – Construct a new southbound right turn lane on Jefferson St. at Singer Blvd. (The proposed FOP Development contributes about 5.8% of the total 2009 PM Peak Hour BUILD Condition traffic volume at this intersection and about 4.0% of the southbound right turn volume forecast for the 2009 PM Peak Hour BUILD Condition).
- **Osuna Rd. / I-25 West Ramp** – the southbound right turn lane on the exit ramp should be lengthened by a distance of 175 feet. (The proposed FOP Development contributes approximately 5.5% of the projected 2009 AM and PM Peak Hour BUILD Condition Volumes for the southbound right turn movement at this intersection).
- **Osuna Rd. / Jefferson St.** – see discussion on Page 17. No recommendation is made due to the presence of impact fees.
- **Driveways:**
 - Driveway "A" / Jefferson St. located near the north end of the project on Jefferson St. Driveway "A" is proposed to be a right-turn-in, right-turn-out only unsignalized driveway.
 - Driveway "B" / Jefferson St. located near the center of the frontage of the project along Jefferson St. is proposed to be a full access unsignalized intersection which aligns with the existing driveway on the west side of Jefferson St. Driveway "B" should be constructed with two westbound exiting lanes (one for left turns and one for thru / right turns) and one entering lane. Construct a northbound right turn deceleration lane on Jefferson St. at Driveway "B". The northbound right turn deceleration lane should be constructed to a length of 150 feet plus transition. Construct a southbound left turn lane on Jefferson St. at Driveway "B". The southbound left turn lane should be constructed to a length of 150 feet plus transition.
 - Driveway "C" / Jefferson St. located near the south end of the project on Jefferson St. Driveway "C" is proposed to be a right-turn-in, right-turn-out only unsignalized driveway.

- BMW Driveway / I-25 West Frontage Rd. is proposed to be a right-turn-in, right-turn-out only unsignalized driveway which serves and an existing access to the existing BMW dealership as well as a proposed access to the FOP Development. A southbound right turn deceleration lane is warranted on the I-25 West Frontage Rd. at the BMW driveway. The right turn deceleration lane should be constructed to a length of 370 feet plus a 12.5:1 taper transition provided that the return radii into the driveway is 35 feet or greater.
- Driveways "A", "B", and "C" should be construct to meet the minimum requirements of the City of Albuquerque's Development Process Manual. The BMW driveway should be constructed to comply with the requirements of the New Mexico Department of Transportation's State Access Management Manual.

Appendix

<u>SITE INFORMATION</u>	
Vicinity Map / Zone Atlas Page	A-1
Site Plan (Conceptual)	A-2
Vicinity Map / Aerial Photo	A-3
2005 AWDT Traffic Flow Map	A-4
Long Range Major Street Plan for the Albuquerque Urban Area	A-5
<u>TRIP GENERATION</u>	
Trip Generation Summary Table	A-6
Individual Trip Generation Worksheets	A-7 thru A-10
<u>TRIP DISTRIBUTION</u>	
DASZ Map for Commercial Trip Distribution	A-11
Trip Distribution Worksheets (Commercial)	A-12 thru A-17
Trip Distribution Map	A-18
Trip Assignments (Trips Entering)	A-19
Trip Assignments (Trips Exiting)	A-20
DASZ Map for Office Trip Distribution	A-21
Trip Distribution Worksheets (Office)	A-22 thru A-24
Trip Distribution Map	A-25
Trip Assignments (Trips Entering)	A-26
Trip Assignments (Trips Exiting)	A-27
<u>HISTORIC BACKGROUND TRAFFIC GROWTH RATE</u>	
Historic Traffic Growth Data Table	A-28
Individual Growth Charts	A-28a thru A-38
Historic Growth Map	A-39
<u>TURNING MOVEMENT COUNTS</u>	
Summary Table of Intersection Counts	A-40 thru A-43
Individual Intersection Turning Movement Counts Tables	A-44 thru A-67
Intersection Volumes Map	A-68
MAP – 2009 NO BUILD Turning Movement Volumes	A-69
MAP – Trips Generated Turning Movement Volumes	A-70
MAP – 2009 BUILD Turning Movement Volumes	A-71
<u>SIGNALIZED / UNSIGNALIZED INTERSECTION ANALYSES</u>	
Signalized Intersection Analyses for Singer Blvd / Jefferson St	A-72 thru A-76
Signalized Intersection Analyses for Jefferson St / I-25 W. ramp	A-77 thru A-81
Signalized Intersection Analyses for Jefferson St / I-25 E. ramp	A-82 thru A-86
Signalized Intersection Analyses for San Mateo Blvd / I-25 E. ramp	A-87 thru A-91
Signalized Intersection Analyses for Osuna Blvd / I-25 W. ramp	A-92 thru A-95
Signalized Intersection Analyses for Bear Osuna Blvd / Jefferson St	A-96 thru A-99
Unsignalized Intersection Analyses for Presidential Dr / Jefferson St	A-100 thru A-104
Unsignalized Intersection Analyses for Jefferson Plaza / Jefferson St	A-105 thru A-109
Unsignalized Intersection Analyses for BMW Drive / Jefferson St	A-110 thru A-114
Unsignalized Intersection Analyses for Driveway 'A' / Jefferson St	A-115 thru A-117
Unsignalized Intersection Analyses for Driveway 'B' / Jefferson St	A-118 thru A-122
Unsignalized Intersection Analyses for Driveway 'C' / Jefferson St.	A-123 thru A-125
<u>TRAFFIC COUNT AND INTERSECTION DATA</u>	
Determination of Auxiliary Lane Warrants (NM DOT)	A-126 thru A-127
Traffic Count Data	A-128 thru A-154
Intersection Data Sheets	A-155 thru A-163

APPENDIX

Fraternal Order of Police (Bear Canyon Arroyo / Jefferson St)
 Projected Turning Movements SUMMARY
PROPOSED DEVELOPMENT (2009) - 100% Development

INTERSECTION: Summary

Singer Ave / Jefferson St

(1) 3.5% Truck
 Existing (2006)
 2009 (NO BUILD - A.M.)
 2009 (BUILD - A.M.)
 % Contribution by Movement
 % Contribution by Approach
 % Contribution - Intersection

0.80			0.75			0.89			0.83			PHF
Eastbound (Singer Ave)			Westbound (Singer Ave)			Northbound (Jefferson St)			Southbound (Jefferson St)			
Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
146	28	203	57	19	21	415	678	286	36	411	142	
151	29	209	58	20	22	427	698	294	42	481	167	
158	29	209	58	20	22	427	827	294	42	502	169	
4.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	15.6%	0.0%	0.0%	4.2%	1.2%	
	1.8%			0.0%			8.3%			3.2%		
												5.8%

Existing (2006)
 2009 (NO BUILD - P.M.)
 2009 (BUILD - P.M.)
 % Contribution by Movement
 % Contribution by Approach
 % Contribution - Intersection

0.70			0.75			0.91			0.86			PHF
Eastbound (Singer Ave)			Westbound (Singer Ave)			Northbound (Jefferson St)			Southbound (Jefferson St)			
Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
214	64	432	195	35	54	212	390	158	30	629	142	
220	66	445	201	36	55	218	401	162	35	738	167	
222	66	445	201	36	55	218	498	162	35	800	174	
0.9%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	19.5%	0.0%	0.0%	7.8%	4.0%	
	0.3%			0.0%			11.0%			6.8%		
												5.8%

Jefferson St / I-25 W. ramp

(2) 5.6% Truck
 Existing (2006)
 2009 (NO BUILD - A.M.)
 2009 (BUILD - A.M.)
 % Contribution by Movement
 % Contribution by Approach
 % Contribution - Intersection

0.86			0.85			0.85			0.73			PHF
Eastbound (Jefferson St)			Westbound (Jefferson St)			Northbound (I-25 W. ramp)			Southbound (I-25 W. ramp)			
Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
0	416	236	243	1,697	0	0	0	0	266	426	179	
0	432	243	252	1,748	0	0	0	0	314	497	209	
0	446	250	252	1,877	0	0	0	0	335	507	209	
N/A	3.1%	2.8%	0.0%	6.9%	N/A	N/A	N/A	N/A	6.3%	2.0%	0.0%	
	3.0%			6.1%			N/A			2.9%		
												4.7%

Existing (2006)
 2009 (NO BUILD - P.M.)
 2009 (BUILD - P.M.)
 % Contribution by Movement
 % Contribution by Approach
 % Contribution - Intersection

0.94			0.96			0.85			0.97			PHF
Eastbound (Jefferson St)			Westbound (Jefferson St)			Northbound (I-25 W. ramp)			Southbound (I-25 W. ramp)			
Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
0	744	523	275	955	0	0	0	0	305	617	121	
0	774	539	286	987	0	0	0	0	364	721	141	
0	805	570	286	1,084	0	0	0	0	409	769	141	
N/A	3.9%	5.4%	0.0%	8.9%	N/A	N/A	N/A	N/A	11.0%	6.2%	0.0%	
	4.5%			7.1%			N/A			7.1%		
												6.2%

Fraternal Order of Police (Bear Canyon Arroyo / Jefferson St)

Projected Turning Movements SUMMARY
PROPOSED DEVELOPMENT (2009) - 100% Development

INTERSECTION: Summary

Jefferson St / I-25 E. ramp

(3)

3.7% Truck

Existing (2006)

2009 (NO BUILD - A.M.)

2009 (BUILD - A.M.)

% Contribution by Movement
 % Contribution by Approach
 % Contribution - Intersection

0.83			0.75			0.87			0.85			PHF
Eastbound (Jefferson St)			Westbound (Jefferson St)			Northbound (I-25 E. ramp)			Southbound (I-25 E. ramp)			
Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
53	444	0	0	476	120	693	312	144	0	0	0	
54	465	0	0	486	125	831	374	172	0	0	0	
54	500	0	0	545	125	900	374	172	0	0	0	
0.0%	7.0%	N/A	N/A	10.8%	0.0%	7.7%	0.0%	0.0%	N/A	N/A	N/A	
6.3%			8.8%			4.8%			N/A			
												6.1%

Existing (2006)

2009 (NO BUILD - P.M.)

2009 (BUILD - P.M.)

% Contribution by Movement
 % Contribution by Approach
 % Contribution - Intersection

0.84			0.95			0.95			0.85			PHF
Eastbound (Jefferson St)			Westbound (Jefferson St)			Northbound (I-25 E. ramp)			Southbound (I-25 E. ramp)			
Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
319	680	0	0	449	259	470	508	199	0	0	0	
329	714	0	0	463	271	564	609	239	0	0	0	
329	790	0	0	530	271	594	609	239	0	0	0	
0.0%	9.6%	N/A	N/A	12.6%	0.0%	5.1%	0.0%	0.0%	N/A	N/A	N/A	
6.8%			8.4%			2.1%			N/A			
												5.1%

San Mateo Blvd / I-25 E. ramp

(4)

4.4% Truck

Existing (2006)

2009 (NO BUILD - A.M.)

2009 (BUILD - A.M.)

% Contribution by Movement
 % Contribution by Approach
 % Contribution - Intersection

0.79			0.86			0.84			0.85			PHF
Eastbound (San Mateo Blvd)			Westbound (San Mateo Blvd)			Northbound (I-25 E. ramp)			Southbound (I-25 E. ramp)			
Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
177	1,321	0	0	2,447	522	405	292	237	0	0	0	
189	1,410	0	0	2,520	538	472	341	277	0	0	0	
202	1,429	0	0	2,555	538	472	341	277	0	0	0	
6.4%	1.3%	N/A	N/A	1.4%	0.0%	0.0%	0.0%	0.0%	N/A	N/A	N/A	
2.0%			1.1%			0.0%			N/A			
												1.2%

Existing (2006)

2009 (NO BUILD - P.M.)

2009 (BUILD - P.M.)

% Contribution by Movement
 % Contribution by Approach
 % Contribution - Intersection

0.96			0.94			0.97			0.85			PHF
Eastbound (San Mateo Blvd)			Westbound (San Mateo Blvd)			Northbound (I-25 E. ramp)			Southbound (I-25 E. ramp)			
Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
305	1,776	0	0	1,788	884	256	632	367	0	0	0	
325	1,896	0	0	1,841	910	299	738	429	0	0	0	
366	1,940	0	0	1,877	910	299	738	429	0	0	0	
11.2%	2.3%	N/A	N/A	1.9%	0.0%	0.0%	0.0%	0.0%	N/A	N/A	N/A	
3.7%			1.3%			0.0%			N/A			
												1.8%

Fraternal Order of Police (Bear Canyon Arroyo / Jefferson St)
 Projected Turning Movements SUMMARY
PROPOSED DEVELOPMENT (2009) - 100% Development

INTERSECTION: Summary

Osuna Rd / I-25 W. ramp

(5)
 4.1% Truck
 Existing (2006)
 2009 (NO BUILD - A.M.)
 2009 (BUILD - A.M.)
 % Contribution by Movement
 % Contribution by Approach
 % Contribution - Intersection

0.83			0.90			0.85			0.83			PHF
Eastbound (Osuna Rd)			Westbound (Osuna Rd)			Northbound (I-25 W. ramp)			Southbound (I-25 W. ramp)			
Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
0	1,355	412	711	1,275	0	0	0	0	202	320	205	
0	1,447	440	759	1,361	0	0	0	0	236	373	240	
0	1,479	440	780	1,375	0	0	0	0	236	393	254	
N/A	2.2%	0.0%	2.7%	1.0%	N/A	N/A	N/A	N/A	0.0%	5.1%	5.5%	
	1.7%		1.6%						3.9%			2.0%

Existing (2006)
 2009 (NO BUILD - P.M.)
 2009 (BUILD - P.M.)
 % Contribution by Movement
 % Contribution by Approach
 % Contribution - Intersection

0.84			0.89			0.85			0.86			PHF
Eastbound (Osuna Rd)			Westbound (Osuna Rd)			Northbound (I-25 W. ramp)			Southbound (I-25 W. ramp)			
Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
0	1,736	482	495	1,211	0	0	0	0	164	193	154	
0	1,853	514	529	1,293	0	0	0	0	192	225	179	
0	1,938	514	551	1,307	0	0	0	0	192	240	189	
N/A	4.4%	0.0%	4.0%	1.1%	N/A	N/A	N/A	N/A	0.0%	6.3%	5.3%	
	3.5%		1.9%						4.0%			3.0%

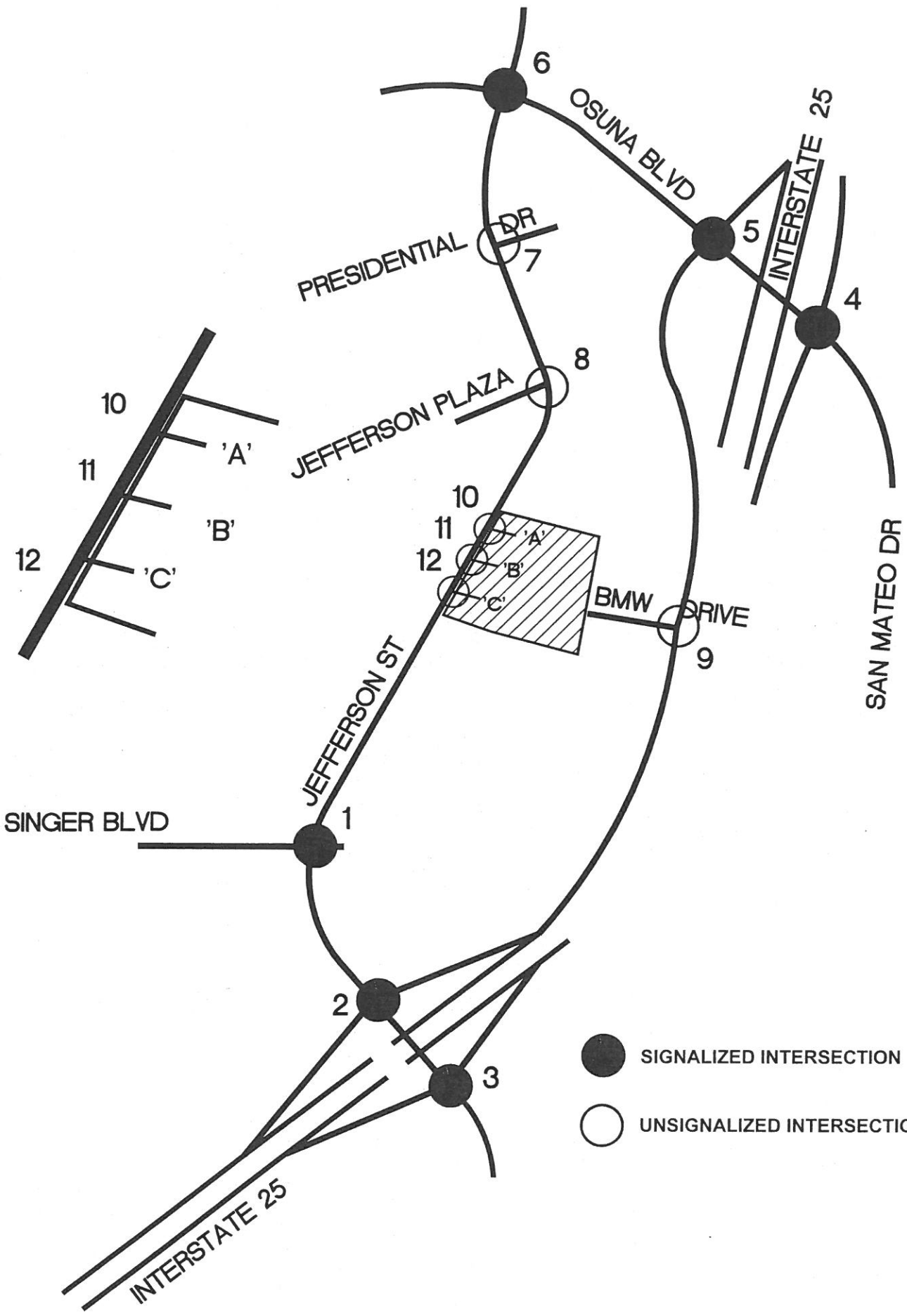
Osuna Rd / Jefferson St

(6)
 6.1% Truck
 Existing (2006)
 2009 (NO BUILD - A.M.)
 2009 (BUILD - A.M.)
 % Contribution by Movement
 % Contribution by Approach
 % Contribution - Intersection

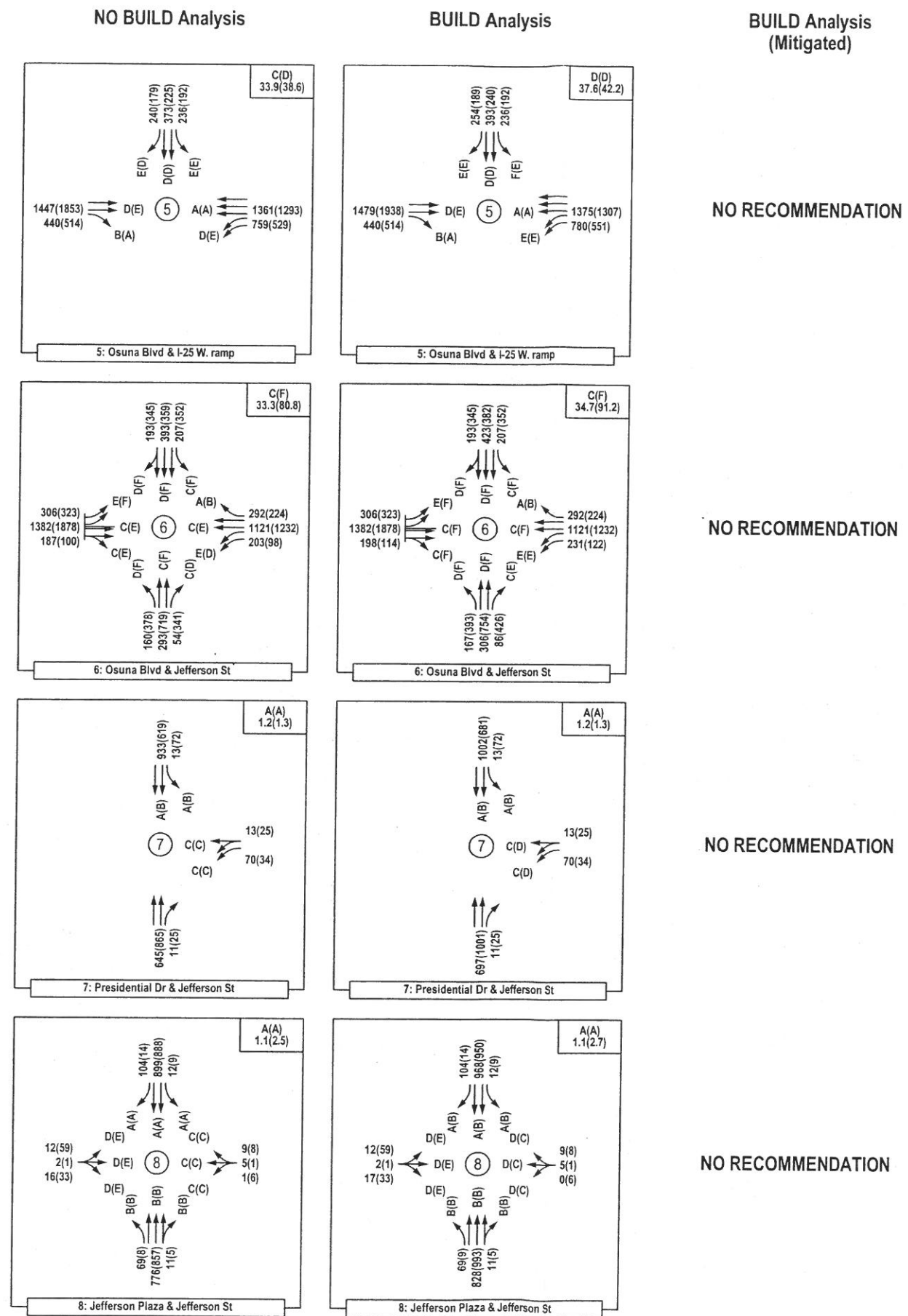
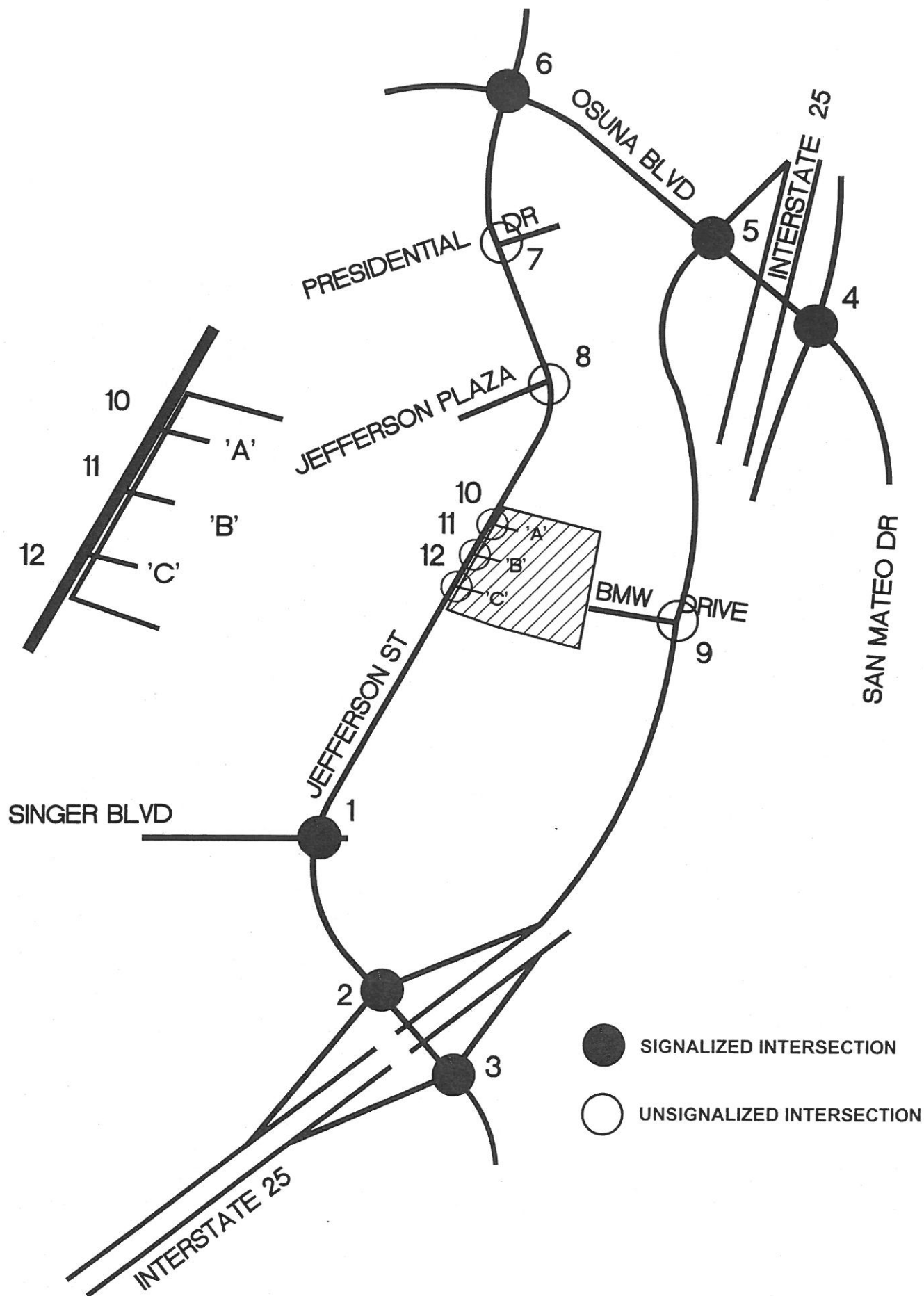
0.88			0.87			0.91			0.87			PHF
Eastbound (Osuna Rd)			Westbound (Osuna Rd)			Northbound (Jefferson St)			Southbound (Jefferson St)			
Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
254	1,165	166	190	963	274	136	253	47	201	381	163	
306	1,382	187	203	1,121	292	160	293	54	207	393	193	
306	1,382	198	231	1,121	292	167	306	86	207	423	193	
0.0%	0.0%	5.6%	12.1%	0.0%	0.0%	4.2%	4.2%	37.2%	0.0%	7.1%	0.0%	
	0.6%		1.7%			9.3%			3.6%			2.5%

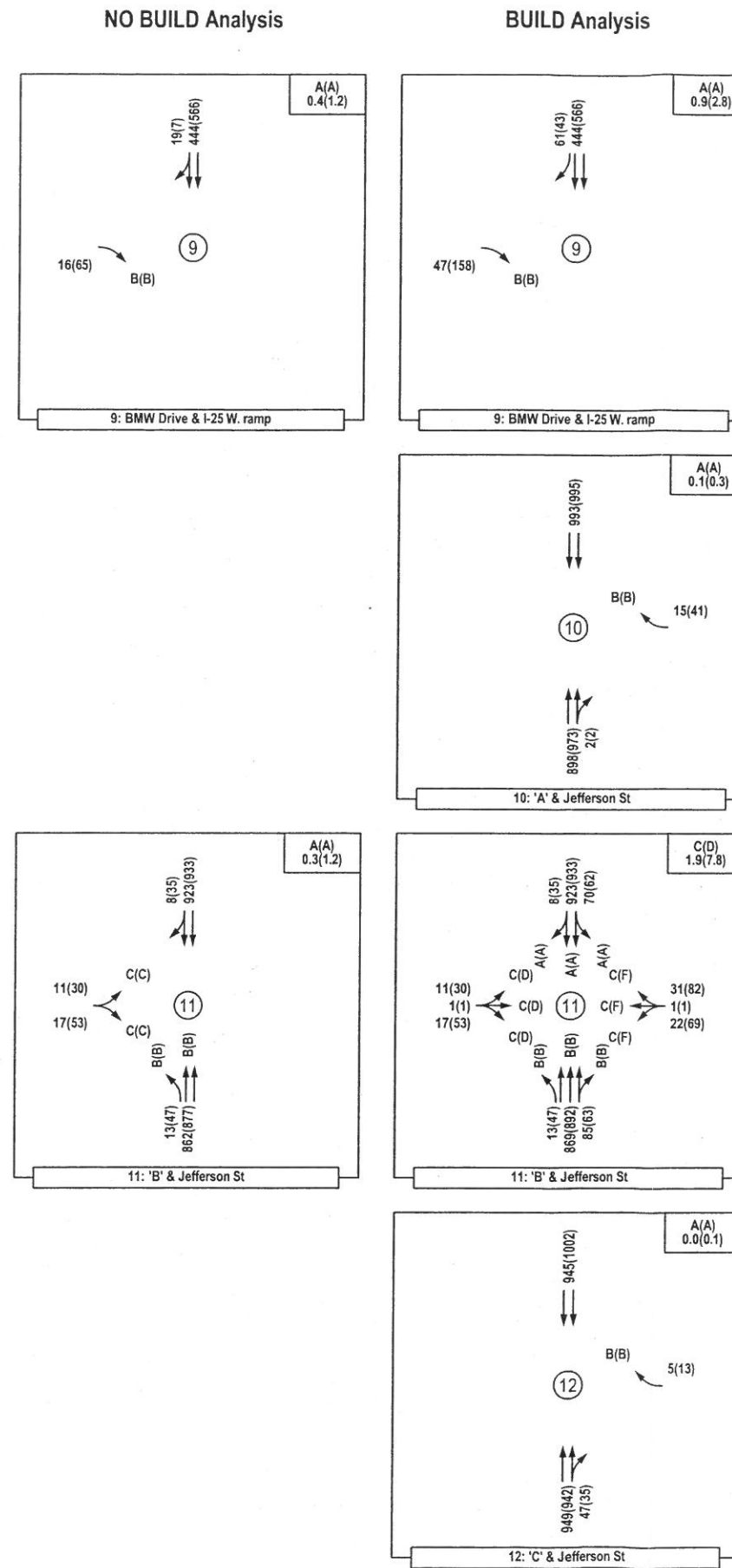
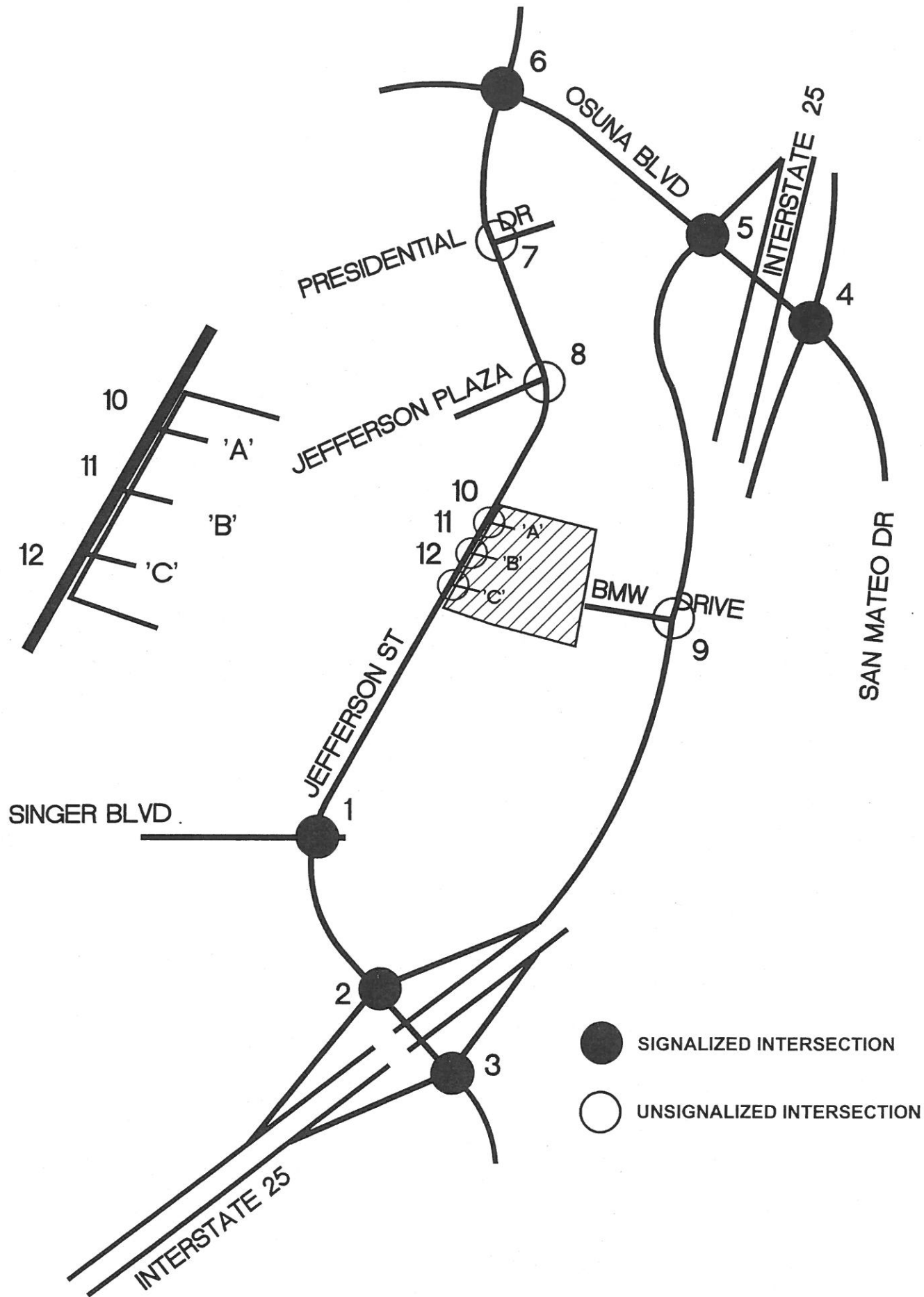
Existing (2006)
 2009 (NO BUILD - P.M.)
 2009 (BUILD - P.M.)
 % Contribution by Movement
 % Contribution by Approach
 % Contribution - Intersection

0.94			0.91			0.90			0.79			PHF
Eastbound (Osuna Rd)			Westbound (Osuna Rd)			Northbound (Jefferson St)			Southbound (Jefferson St)			
Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
267	1,603	87	92	1,063	210	325	622	295	342	349	309	
323	1,878	100	98	1,232	224	378	719	341	352	359	345	
323	1,878	114	122	1,232	224	393	754	426	352	382	345	
0.0%	0.0%	12.3%	19.7%	0.0%	0.0%	3.8%	4.6%	20.0%	0.0%	6.0%	0.0%	
	0.6%		1.5%			8.6%			2.1%			3.0%

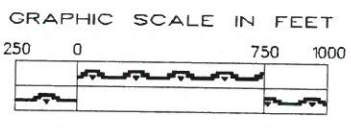
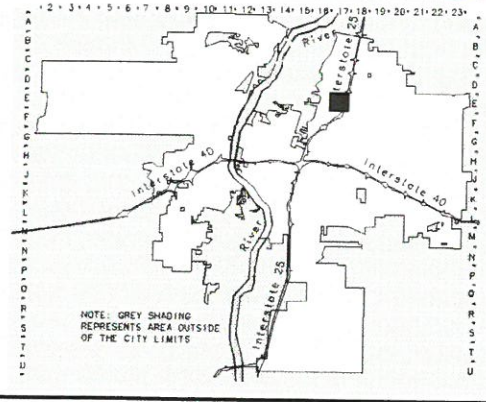
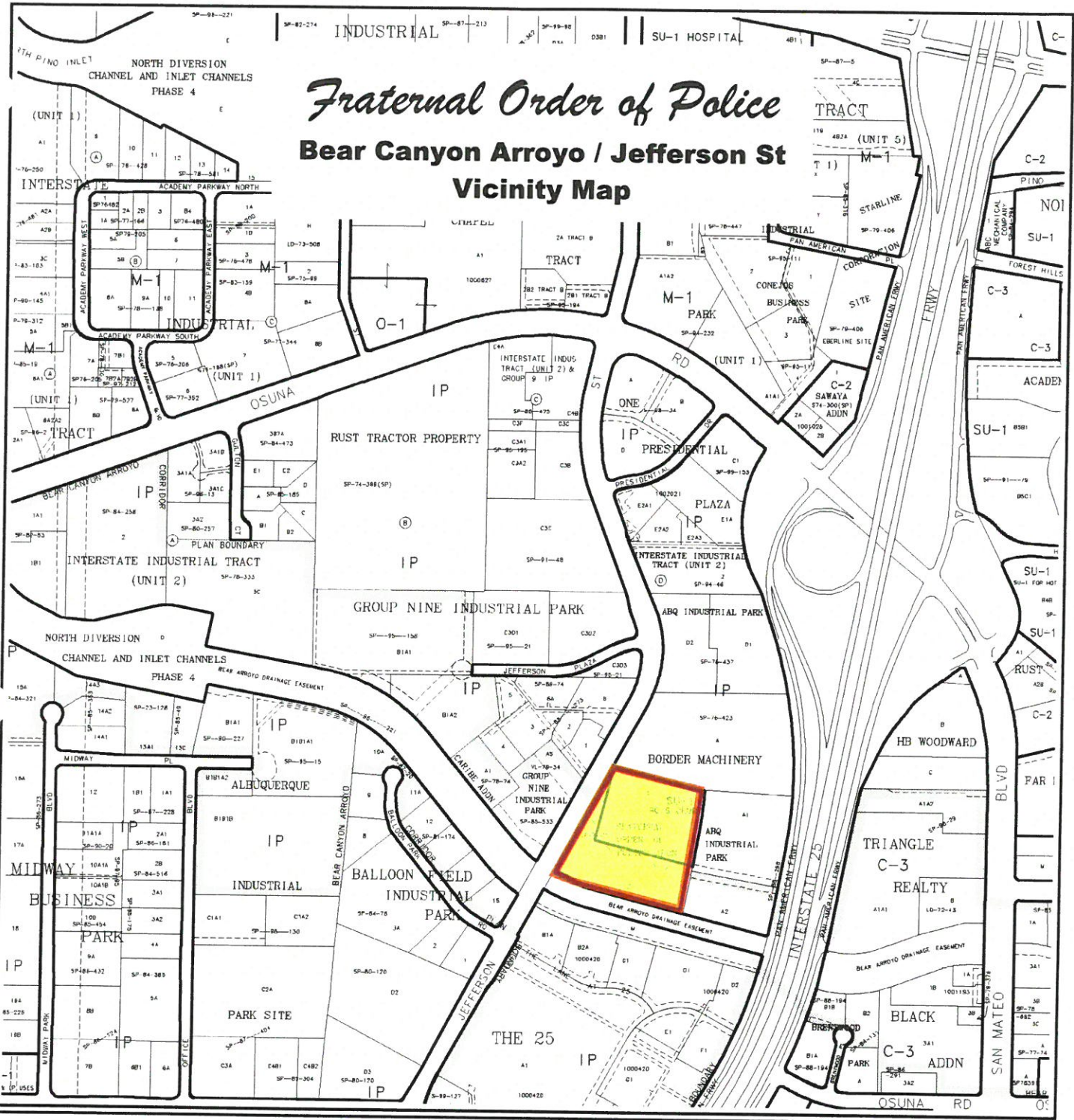


NTB





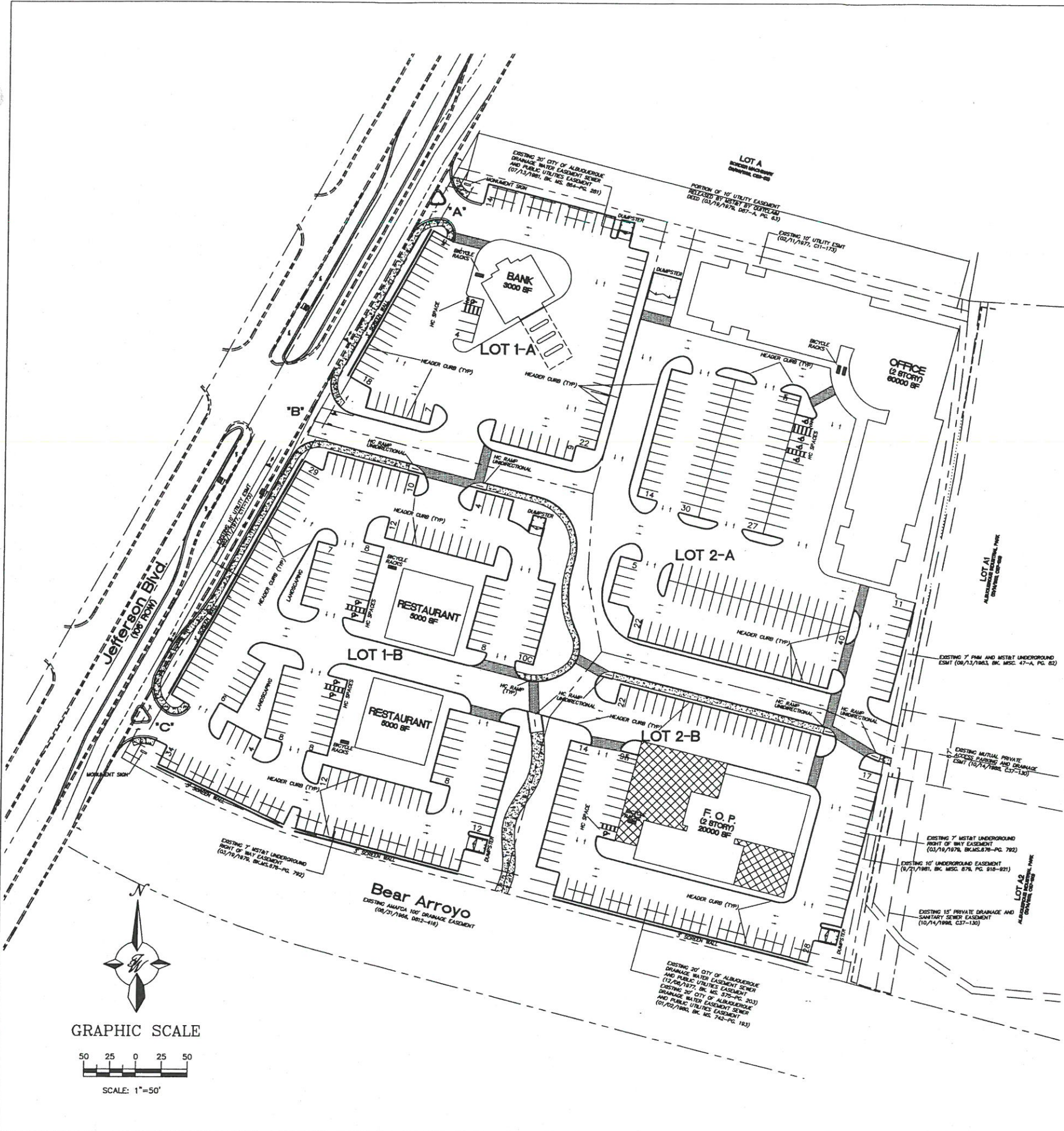
Fraternal Order of Police Bear Canyon Arroyo / Jefferson St Vicinity Map



Albuquerque **G**eographic **I**nformation **S**ystem
PLANNING DEPARTMENT
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Zone Atlas Page
E-17-Z

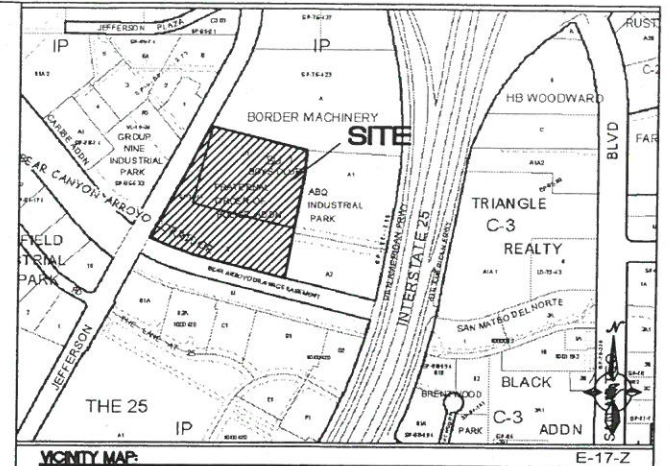
Map Amended through September 01, 2004



SITE DATA:

PROPOSED USAGE	COMMERCIAL
LOT AREAS	
LOT 1-A	66614 SF (1.53 AC)
LOT 1-B	136470 SF (3.13 AC)
LOT 2-A	135597 SF (3.11 AC)
LOT 2-B	82583 SF (1.90 AC)
TOTAL SITE	421264 SF (9.67 AC)
ZONING	SU-1 FOR IP
MAXIMUM FAR	0.25
MAXIMUM BUILDING HEIGHT	45'
MINIMUM BUILDING SETBACK	20'
LANDSCAPING REQUIREMENTS	
REQUIRED	15% OF PAVED SURFACE AND BUILDINGS

- GENERAL NOTES:**
- COMMON STORM DRAINAGE, PEDESTRIAN, AND VEHICULAR ACCESS ACROSS NEW TRACTS IS GRANTED BY THIS SITE PLAN AND WILL BE GRANTED ON THE REPLAT.
 - PEDESTRIAN ACCESS WILL BE PROVIDED ACROSS ALL LOTS INTERNALLY IN THE APPROVED SITE PLAN.
 - LIGHT POLES SHALL BE A MAXIMUM OF 25' FEET WITH FULL CUT OFF LIGHT FIXTURES. LIGHT FIXTURES SHALL BE A MAXIMUM OF 25' WITH FULL CUT OFF SHIELDS ON FIXTURES SO THAT NO FUGITIVE LIGHT SHALL ESCAPE BEYOND THE PROPERTY LINE. THE LIGHT FIXTURES SHALL BE FULLY SHIELDED WITH HORIZONTAL LAMPS.
 - THERE SHALL BE NO BACKLIT, PLASTIC, OR VINYL AWNINGS OR ILLUMINATED PLASTIC BANDING ON SIGNAGE.
 - NO FREESTANDING CELL TOWERS OR ANTENNA SHALL BE PERMITTED. ANY WIRELESS COMMUNICATIONS FACILITIES SHALL BE INTEGRATED INTO THE BUILDING ARCHITECTURE.
 - BUS STOPS ADJACENT TO THE PROPERTY,
-ROUTE 151
BUS STOPS AT SINGER AVE AND JEFFERSON BLVD AND OSUNA AVE AND JEFFERSON BLVD
 - TRAFFIC STOP SIGNS TO BE PLACED AT ALL INTERSECTIONS.



LEGAL DESCRIPTION:
FRATERNAL ORDER OF POLICE ADDITION, TRACTS 1 AND 2

LEGEND

=====	EXISTING CURB & GUTTER
-----	PROPOSED CURB & GUTTER
-----	BOUNDARY LINE
-----	EXISTING BOUNDARY LINE
-----	EASEMENT
-----	CENTERLINE
-----	RIGHT-OF-WAY
-----	LOT LINES
-----	SETBACK LINE
-----	STRIPING
-----	PROPOSED BUILDING
-----	EXISTING SIDEWALK
-----	PROPOSED SIDEWALK
-----	PROPOSED CROSSWALK (PATTERN CONCRETE)
-----	PROPOSED BIKERACK
-----	PROPOSED FIRE HYDRANT
-----	PROPOSED SCREEN WALL
-----	PROPOSED PARKING LOT LIGHTING

PROJECT NUMBER: 1004801

APPLICATION NUMBER: _____

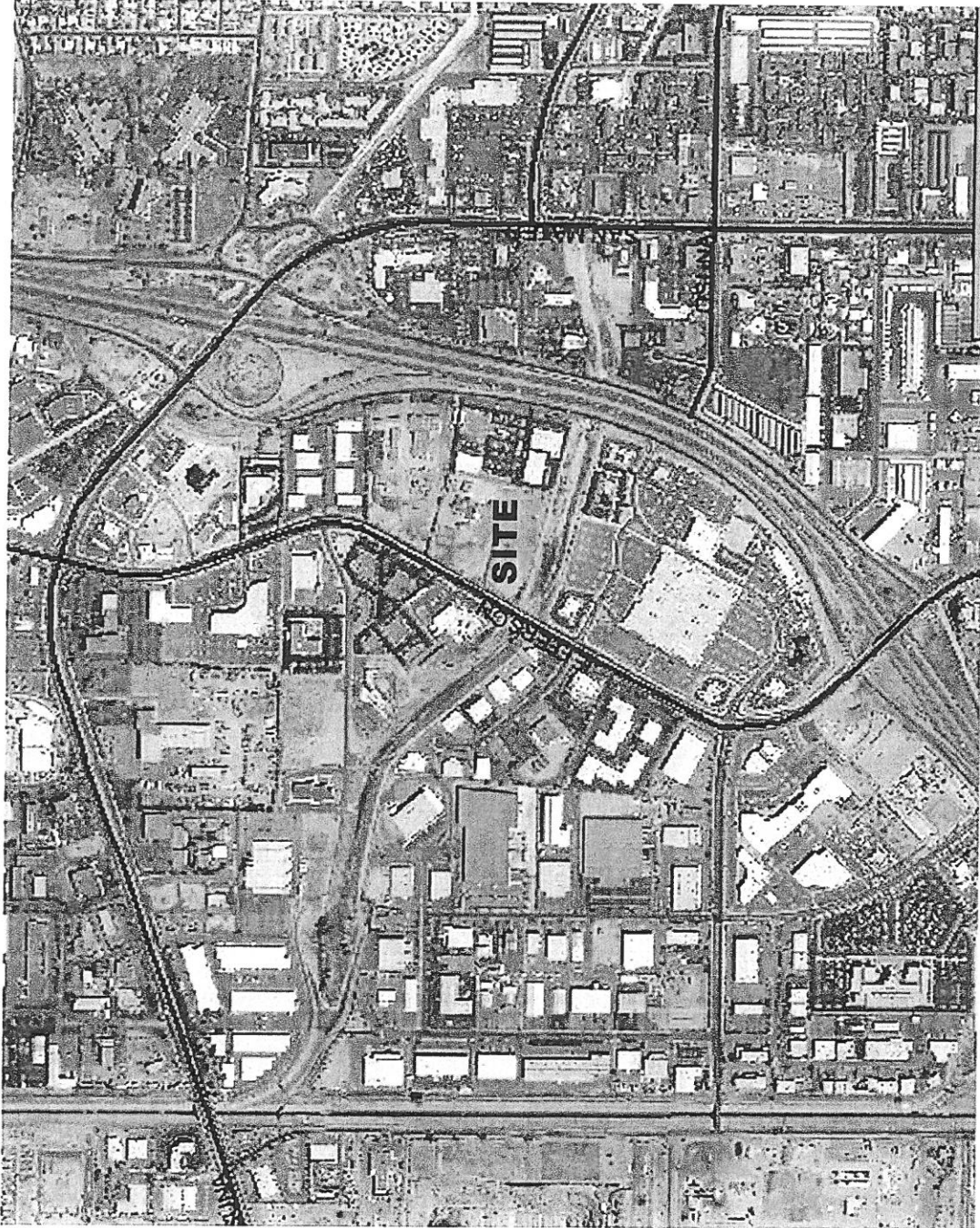
This plan is consistent with the specific Site Development Plan approved by the Environmental Planning Commission (EPC), dated _____ and the Findings and Conditions in the Official Notification of Decision are satisfied.

Is an Infrastructure List required? () Yes () No If Yes, then a set of approved DRC plans with a work order is required for any construction within Public Right-of-Way or for construction of public improvements.

DRB SITE DEVELOPMENT PLAN SIGNOFF APPROVAL:

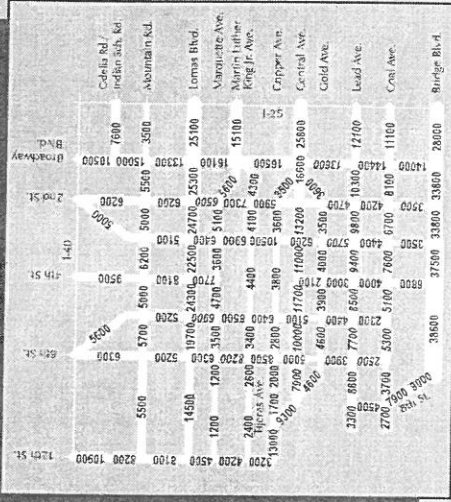
Traffic Engineer, Transportation Division	Date
Water Utility Development	Date
Parks & Recreation Department	Date
City Engineer	Date
* Environmental Health Department (conditional)	Date
Solid Waste Management	Date
DRB Chairperson, Planning Department	Date
* Environmental Health, if necessary	

ENGINEER'S SEAL	FRATERNAL ORDER OF POLICE	DRAWN BY DY
	SITE PLAN FOR BUILDING PERMIT	DATE 10-2-06
RONALD R. BOHANNAN P.E. #7868	TERRA WEST, LLC 5571 MIDWAY PARK PLACE NE ALBUQUERQUE, NEW MEXICO (505)858-3100	2516-SPB.dwg
		SHEET # 3 of 5

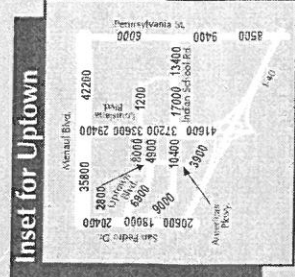


Fraternal Order of Police
(Bear Canyon Arroyo / Jefferson St)
Aerial Photo

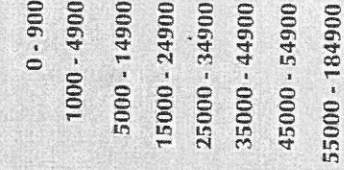
Inset for Downtown



Inset for Uptown

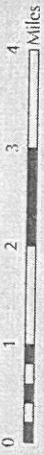


Average Weekday Traffic Flows



Standard Data Link Volume is based on traffic count data accepted by the NM Department of Transportation Traffic Monitoring System (TMS) as standard in accordance with the New Mexico State Traffic Monitoring Standards (NMSTMS).

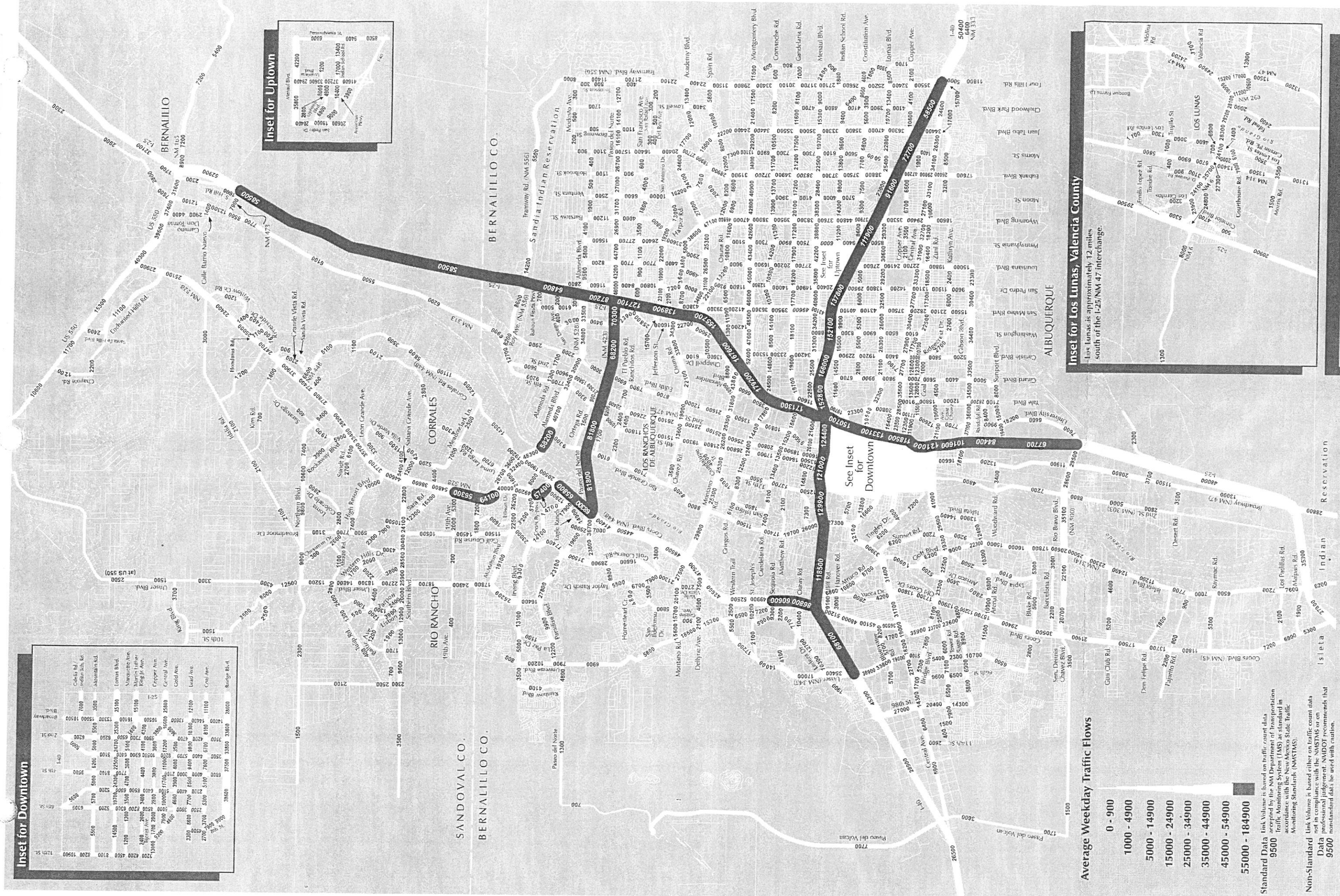
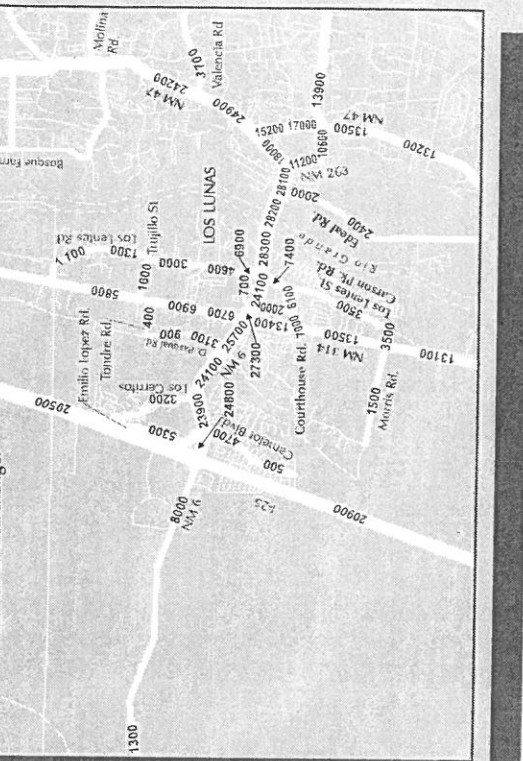
Non-Standard Link Volume is based either on traffic count data not in compliance with the NMSTMS or on Data professional judgement. NMDOT recommends that 9500 non-standard data be used with caution.



Map prepared by the Mid-Region Council of Governments in cooperation with the New Mexico Department of Transportation, the local governments in the Albuquerque Metropolitan Planning Area, and the U.S. Department of Transportation, Federal Highway Administration.

2005 Traffic Flows
for the Greater Albuquerque Area

Inset for Los Lunas, Valencia County
Los Lunas is approximately 12 miles south of the I-25/NM 47 interchange.

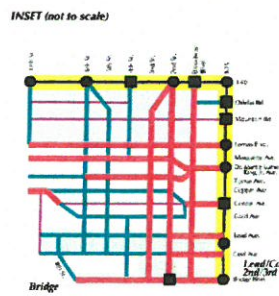
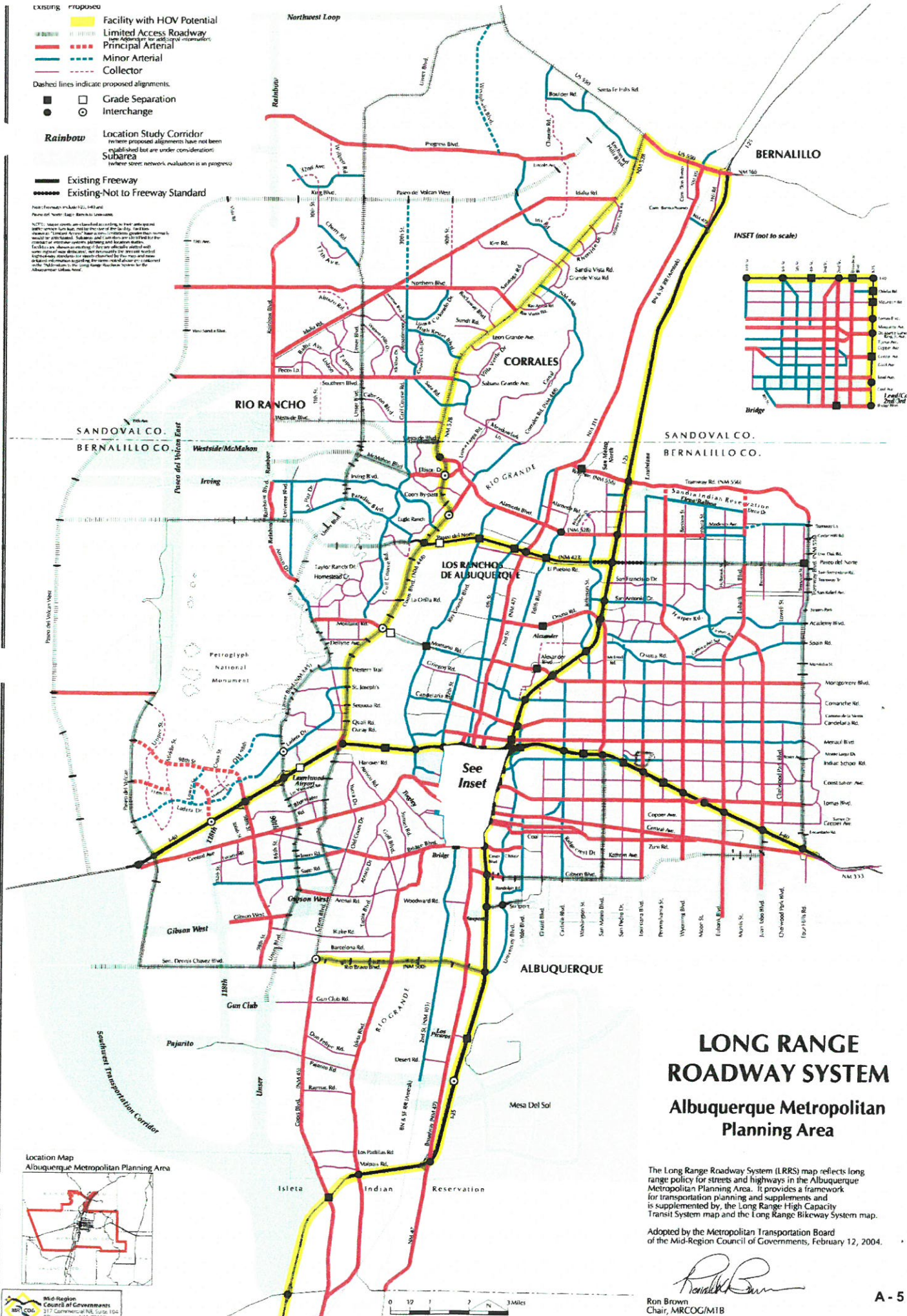


- existing proposed
- Facility with HOV Potential
 - Limited Access Roadway
 - Principal Arterial
 - Minor Arterial
 - Collector
- Dashed lines indicate proposed alignments.
- Grade Separation
 - Interchange
- Rainbow** Location Study Corridor
 (where street network evaluation is in progress)

Existing Freeway
 Existing-Not to Freeway Standard

North: True North (N 0° 0' 0" E)
 Point of North: East 1/4 Section 16, T10N, R10E

NCTE: Major streets are classified according to their relative width and traffic volume. Limited Access Roadways are those roads that are not intended for local travel. Subarea and Corridor Study areas are those areas of the study that are intended for detailed study. Facilities are shown as existing if they are already built or are planned to be built within the study area. Facilities are shown as proposed if they are planned to be built within the study area. Facilities are shown as under consideration if they are under consideration for future study. Facilities are shown as not under consideration if they are not under consideration for future study. Facilities are shown as not shown if they are not shown on the map. Facilities are shown as not shown if they are not shown on the map. Facilities are shown as not shown if they are not shown on the map.



Location Map
 Albuquerque Metropolitan Planning Area



Mid-Region Council of Governments
 317 Commercial NE, Suite 104
 Albuquerque, NM 87102
 505 247-1750

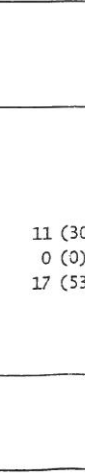
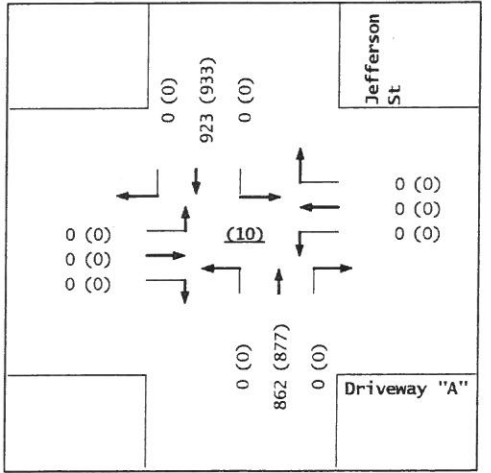
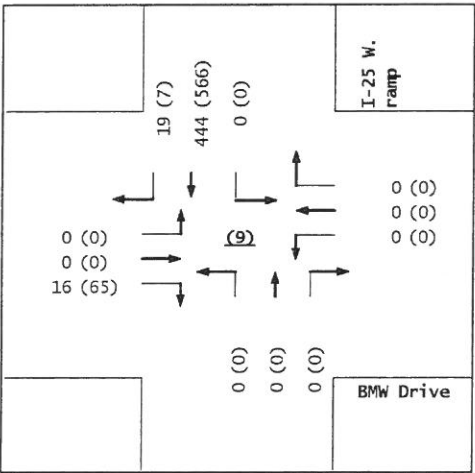
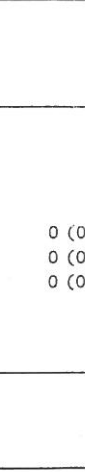
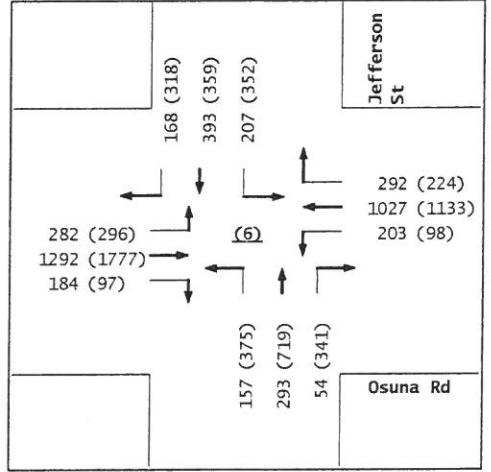
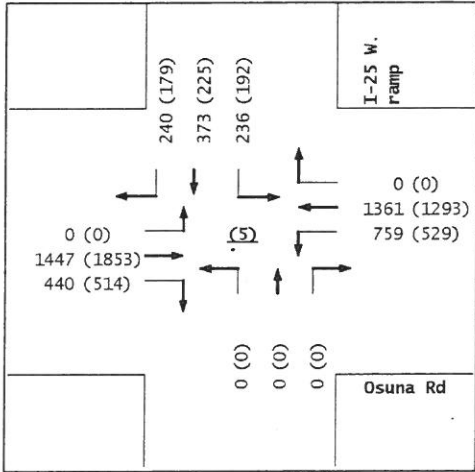
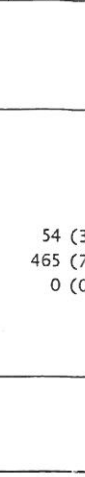
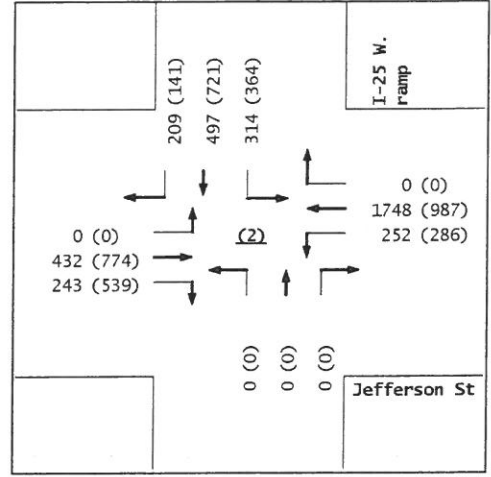
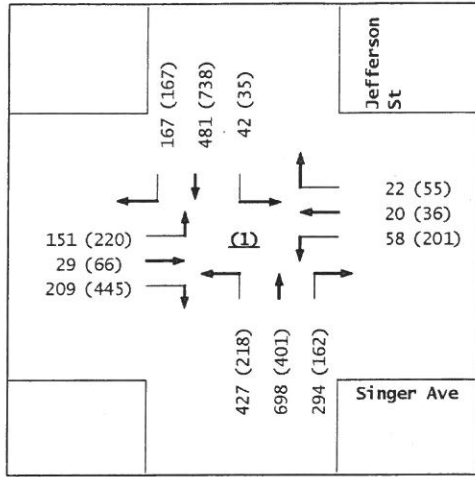
LONG RANGE ROADWAY SYSTEM

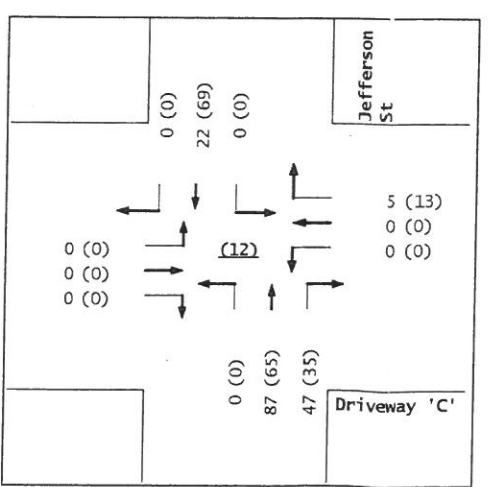
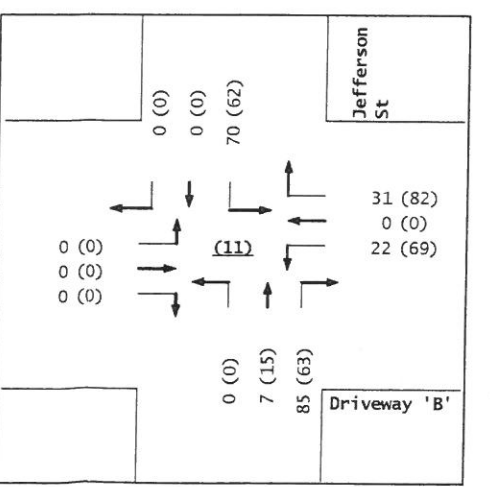
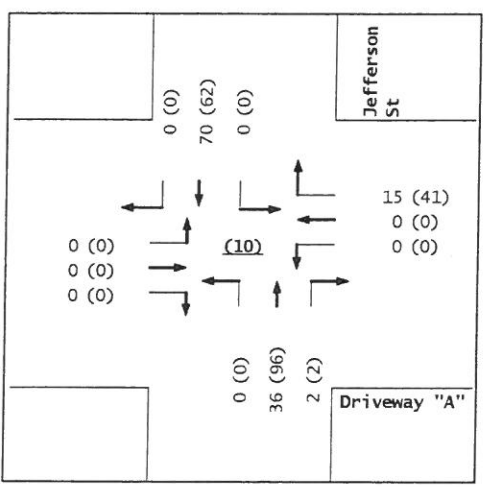
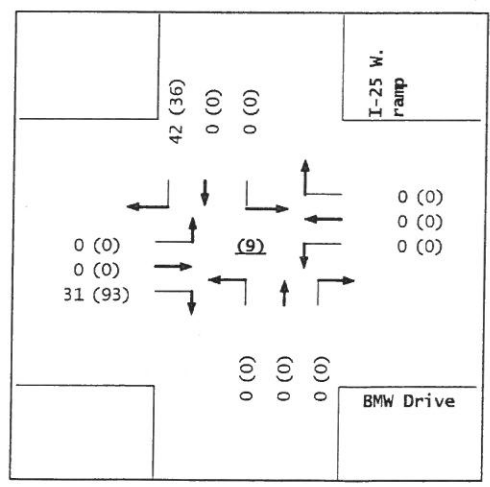
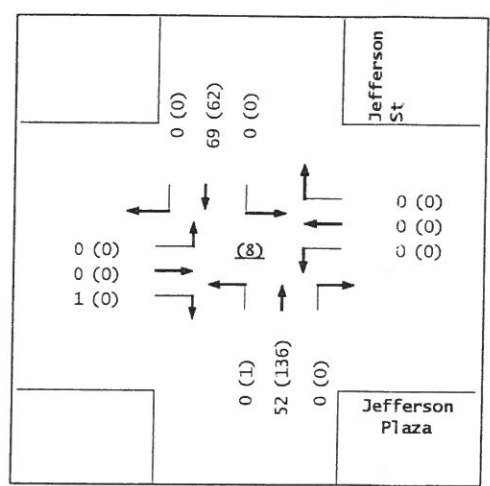
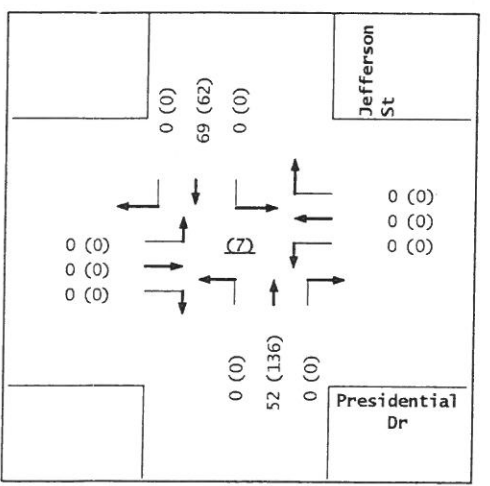
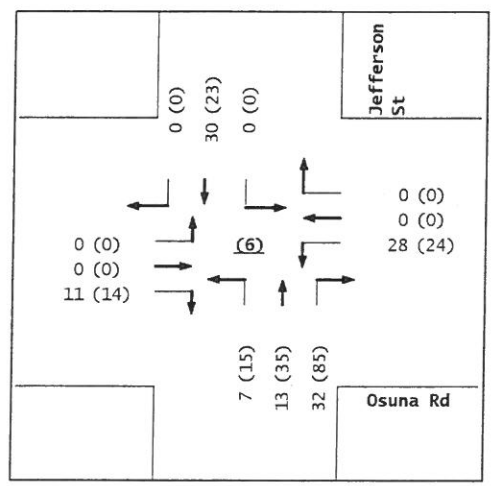
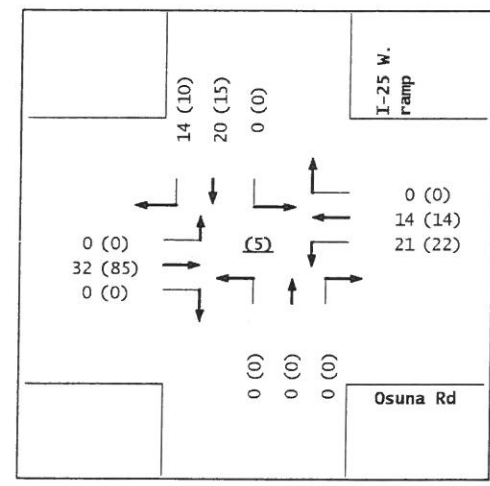
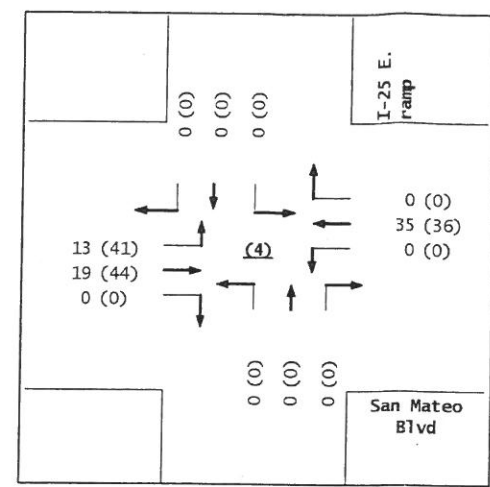
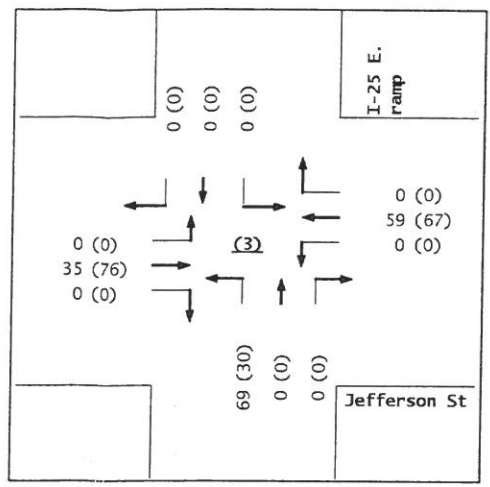
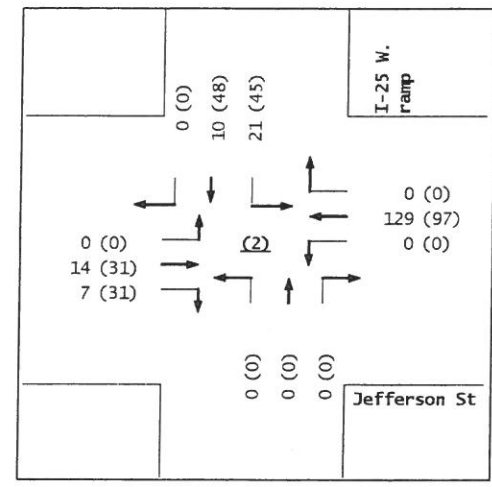
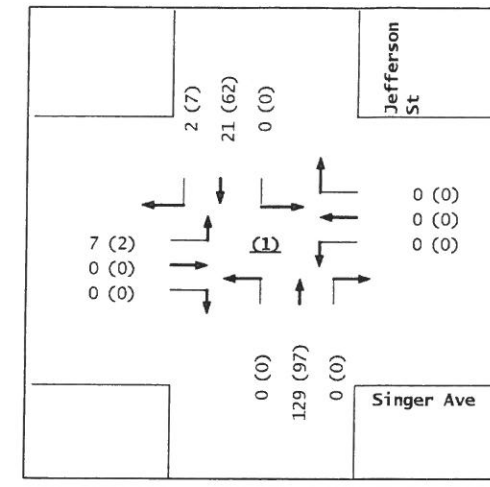
Albuquerque Metropolitan Planning Area

The Long Range Roadway System (LRRS) map reflects long range policy for streets and highways in the Albuquerque Metropolitan Planning Area. It provides a framework for transportation planning and supplements and is supplemented by the Long Range High Capacity Transit System map and the Long Range Bikeway System map.

Adopted by the Metropolitan Transportation Board of the Mid-Region Council of Governments, February 12, 2004.

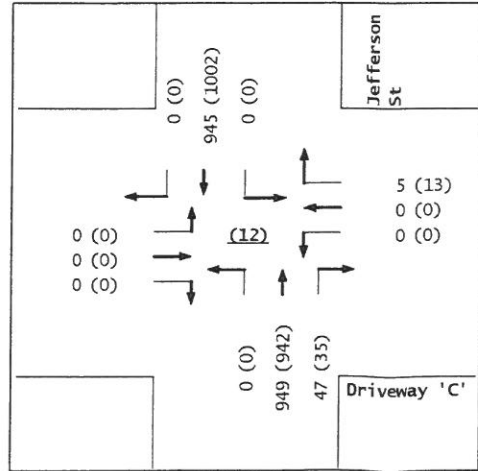
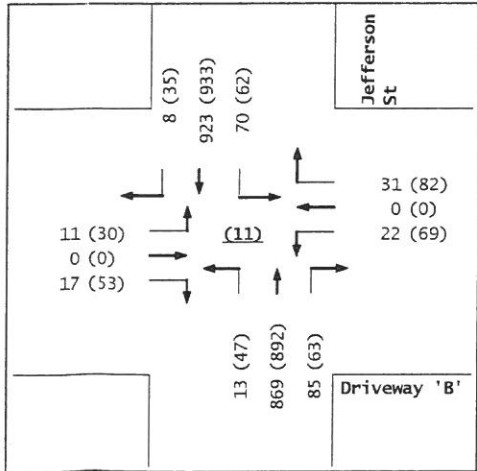
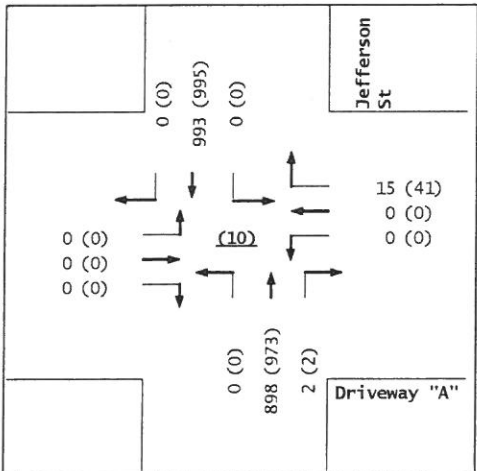
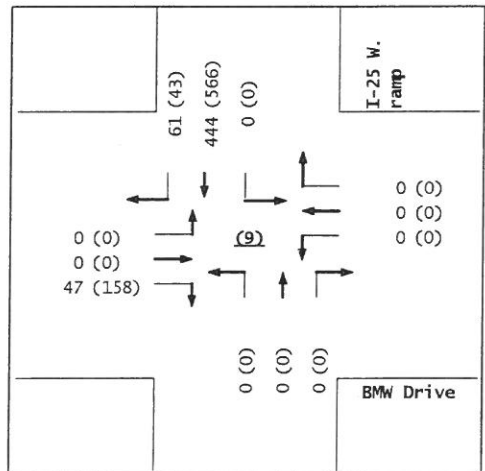
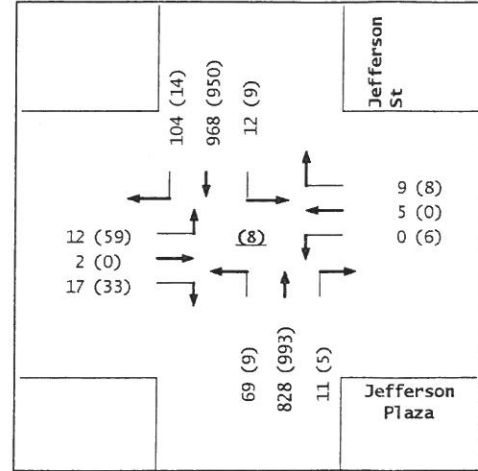
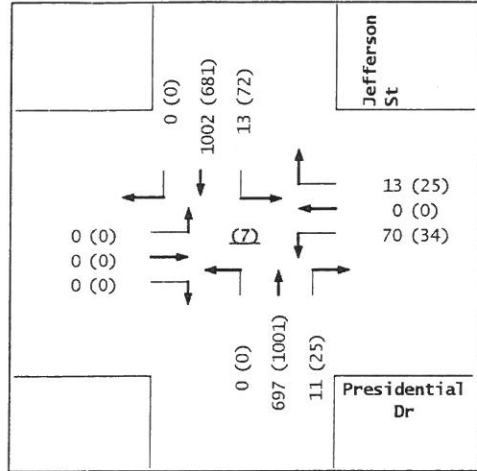
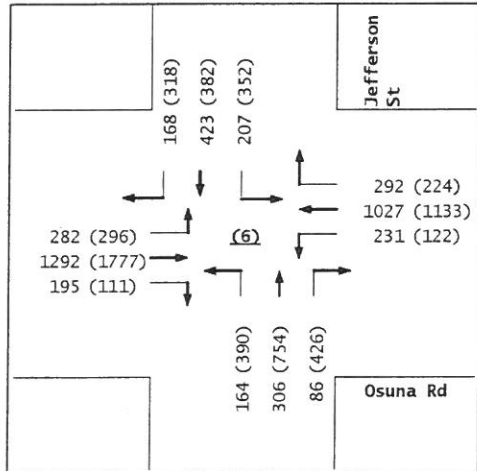
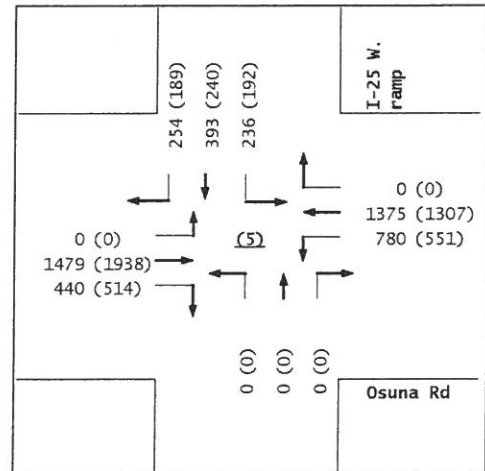
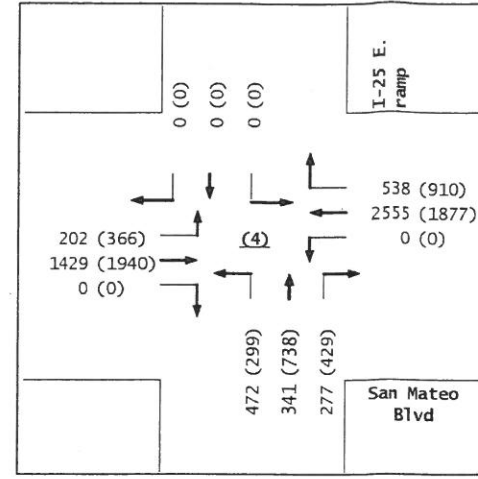
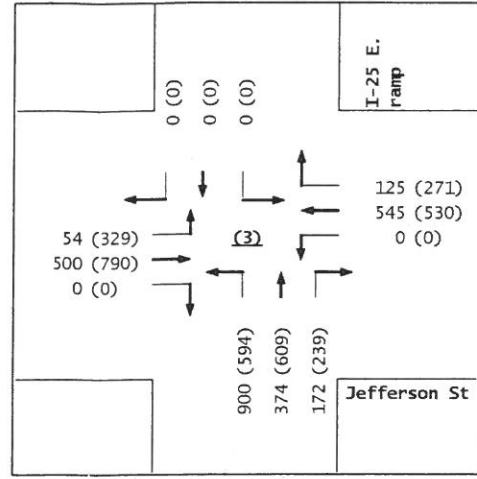
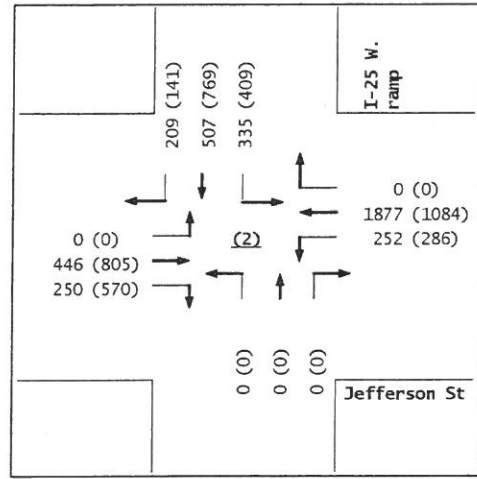
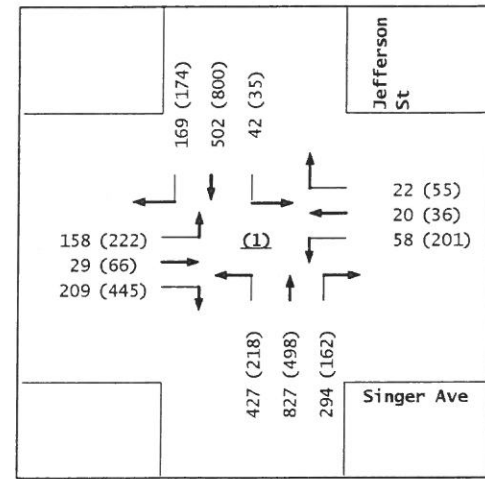
Ron Brown
 Ron Brown
 Chair, MRCOG/MTB





Fraternal Order of Police
 Bear Canyon Arroyo / Jefferson St
 Trips Generated Volumes - AM(PM)

Terry O. Brown, P.E.
 P.O. Box 92051
 Albuquerque, NM 87199-2051
 (505)883-8807 (Voice)



Fraternal Order of Police
 Bear Canyon Arroyo / Jefferson St
 2007 BUILD Volumes - AM(PM)

Terry O. Brown, P.E.
 P.O. Box 92051
 Albuquerque, NM 87199-2051
 (505)883-8807 (Voice)

FOP Site (Jefferson St. North of Singer Blvd.)
Trip Generation Data

COMMENT	USE (ITE CODE)	DESCRIPTION	24 HR VOL		A. M. PEAK HR.		P. M. PEAK HR.	
			GROSS	Units	ENTER	EXIT	ENTER	EXIT
	Summary Sheet							
FOP Building		Corporate Headquarters Building (714)	170	20.00	31	2	4	33
		General Office Building (710)	900	60.00	110	15	25	121
		Drive-In Bank (912)	1,563	4.00	45	33	102	102
		High Turnover (Sit-Down) Restaurant (932)	1,272	10.00	60	55	67	43
		Subtotal	3,905		246	105	198	299

FOP Site (Jefferson St. North of Singer Blvd.)
Trip Generation Data

USE (ITE CODE)	24 HOUR TWO-WAY VOLUME		A.M. PEAK HOUR		P.M. PEAK HOUR	
	GROSS	ENTER	ENTER	EXIT	ENTER	EXIT
Corporate Headquarters Building (714)	170	31	2	4	33	

Units
 20.00
 1,000 S.F.

ITE Trip Generation Equations:

Average Vehicle Trip Ends on a Weekday (24 HOUR TWO-WAY VOLUME)

$$\text{Ln}(T) = 0.97 \text{ Ln}(X) + 2.23$$

50% Enter, 50% Exit

Average Vehicle Trip Ends on a Weekday, Peak Hour of Adjacent Street Traffic, One Hour Between 7am and 9am (A.M. PEAK HOUR)

$$\text{Ln}(T) = 0.95 \text{ Ln}(X) + 0.66$$

93% Enter, 7% Exit

Average Vehicle Trip Ends on a Weekday, Peak Hour of Adjacent Street Traffic, One Hour Between 4pm and 6pm (P.M. PEAK HOUR)

$$\text{Ln}(T) = 0.87 \text{ Ln}(X) + 1.01$$

10% Enter, 90% Exit

Comments:
 FOP Building

Based on ITE Trip Generation Manual - 7th Edition

FOP Site (Jefferson St. North of Singer Blvd.)
Trip Generation Data

USE (ITE CODE)	24 HOUR TWO-WAY VOLUME		A.M. PEAK HOUR		P.M. PEAK HOUR		
	GROSS	ENTER	EXIT	ENTER	EXIT	ENTER	EXIT
Units 60.00 1,000 S.F.	900	110	15	25	121		

General Office Building (710)

ITE Trip Generation Equations:

Average Vehicle Trip Ends on a Weekday (24 HOUR TWO-WAY VOLUME)

$$\ln(T) = 0.77 \ln(X) + 3.65$$

50% Enter, 50% Exit

Average Vehicle Trip Ends on a Weekday, Peak Hour of Adjacent Street Traffic, One Hour Between 7am and 9am (A.M. PEAK HOUR)

$$\ln(T) = 0.8 \ln(X) + 1.55$$

88% Enter, 12% Exit

Average Vehicle Trip Ends on a Weekday, Peak Hour of Adjacent Street Traffic, One Hour Between 4pm and 6pm (P.M. PEAK HOUR)

$$T = 1.12 (X) + 78.81$$

17% Enter, 83% Exit

Comments:
 Tract No.

Based on ITE Trip Generation Manual - 7th Edition

FOP Site (Jefferson St. North of Singer Blvd.)
Trip Generation Data

USE (ITE CODE)	24 HOUR TWO-WAY VOLUME		A.M. PEAK HOUR		P.M. PEAK HOUR		
	GROSS	ENTER	EXIT	ENTER	EXIT	ENTER	EXIT
Drive-In Bank (912)	1,563	45	33	102	102	102	102

Units

4.00

Drive-In Windows

ITE Trip Generation Equations:

Average Vehicle Trip Ends on a Weekday (24 HOUR TWO-WAY VOLUME)

$$\ln(T) = 1.326 \ln(X) + 5.516$$

50% Enter, 50% Exit

Average Vehicle Trip Ends on a Weekday, Peak Hour of Adjacent Street Traffic, One Hour Between 7am and 9am (A.M. PEAK HOUR)

$$T = 19.38 (X) + 0$$

58% Enter, 42% Exit

Average Vehicle Trip Ends on a Weekday, Peak Hour of Adjacent Street Traffic, One Hour Between 4pm and 6pm (P.M. PEAK HOUR)

$$T = 51.08 (X) + 0$$

50% Enter, 50% Exit

Comments:

Tract No.

Based on ITE Trip Generation Manual - 7th Edition

FOP Site (Jefferson St. North of Singer Blvd.)
Trip Generation Data

USE (ITE CODE)	24 HOUR TWO-WAY VOLUME	A.M. PEAK HOUR		P.M. PEAK HOUR	
		ENTER	EXIT	ENTER	EXIT
High Turnover (Sit-Down) Restaurant (932)	1,272	60	55	67	43

Units
 10.00
 1,000 S.F.

ITE Trip Generation Equations:

Average Vehicle Trip Ends on a Weekday (24 HOUR TWO-WAY VOLUME)

$$T = 127.15 (X) + 0$$

50% Enter, 50% Exit

Average Vehicle Trip Ends on a Weekday, Peak Hour of Adjacent Street Traffic; One Hour Between 7am and 9am (A.M. PEAK HOUR)

$$T = 11.52 (X) + 0$$

52% Enter, 48% Exit

Average Vehicle Trip Ends on a Weekday, Peak Hour of Adjacent Street Traffic; One Hour Between 4pm and 6pm (P.M. PEAK HOUR)

$$T = 10.92 (X) + 0$$

61% Enter, 39% Exit

Comments:
 Tract No.

Based on ITE Trip Generation Manual - 7th Edition



DATA ANALYSIS SUBZONE (DASZ) MAP

Fraternal Order of Police (Bear Canyon Arroyo / Jefferson St)

Trip Distribution Table
Fraternal Order of Police (Bear Canyon Arroyo / Jefferson St)

Data Analysis Subzone Population Data for determination of Local Trip Distribution for Proposed Retail Commercial Trips

2000 and 2025 Data Taken from Mid-Region Council of Governments' 2025 Socioeconomic
 2025 Socioeconomic Forecasts by Data Analysis Subzones for the Mid-Region of New Mexico (S-03-01)

DASZ #	% Sub Area In Study	2000 Population		Interpolated Population for the Year 2009	Population In Study	Population / Distance	Percent Population	Interstate 25 North		San Mateo Blvd South		Jefferson St South	
		2000	2025					% Utilizing	Population	% Utilizing	Population	% Utilizing	Population
Boundary Specified on DASZ Map													
6046	10%	661	619	646	65	65	0.16%	0%	0.00%	0	0%	0.00%	0
6051	100%	0	0	0	0	0	0.00%	0%	0.00%	0	0%	0.00%	0
6052	100%	0	9	3	3	3	0.01%	50%	0.00%	2	0%	0.00%	0
6053	100%	0	14	5	5	5	0.01%	0%	0.00%	0	0%	0.00%	0
6054	100%	2	2	2	2	2	0.00%	50%	0.00%	1	0%	0.00%	0
6055	100%	0	7	3	3	3	0.01%	0%	0.00%	0	0%	0.00%	0
6056	100%	0	23	8	8	8	0.02%	50%	0.01%	4	0%	0.00%	0
6057	100%	6	6	6	6	6	0.01%	0%	0.00%	0	0%	0.00%	0
6058	100%	52	57	54	54	54	0.13%	50%	0.07%	27	0%	0.00%	0
6061	50%	411	610	483	242	242	0.60%	0%	0.00%	0	0%	0.00%	0
6062	95%	1359	1526	1,419	1,348	1,348	3.33%	0%	0.00%	0	0%	0.00%	0
6063	100%	0	2	1	1	1	0.00%	0%	0.00%	0	0%	0.00%	0
6064	100%	0	0	0	0	0	0.00%	0%	0.00%	0	0%	0.00%	0
6075	25%	99	97	98	25	25	0.06%	0%	0.00%	0	0%	0.00%	0
6076	60%	3	3	3	2	2	0.00%	0%	0.00%	0	0%	0.00%	0
6081	70%	280	467	347	243	243	0.60%	0%	0.00%	0	0%	0.00%	0
6082	85%	57	58	57	48	48	0.12%	0%	0.00%	0	0%	0.00%	0
6083	100%	322	2404	1,072	1,072	1,072	2.86%	0%	0.00%	0	0%	0.00%	0
6084	100%	565	2,145	1,134	1,134	1,134	2.80%	0%	0.00%	0	0%	0.00%	0
6091	100%	0	0	0	0	0	0.00%	0%	0.00%	0	0%	0.00%	0
6092	100%	0	0	0	0	0	0.00%	0%	0.00%	0	0%	0.00%	0
6093	100%	0	0	0	0	0	0.00%	0%	0.00%	0	0%	0.00%	0
6094	100%	0	2	1	1	1	0.00%	0%	0.00%	0	0%	0.00%	0
6095	100%	0	0	0	0	0	0.00%	0%	0.00%	0	0%	0.00%	0
6522	5%	0	0	0	0	0	0.00%	0%	0.00%	0	0%	0.00%	0
6526	35%	1,330	1,263	1,306	457	457	1.13%	50%	0.96%	229	0%	0.00%	0
6527	30%	0	2	1	0	0	0.00%	0%	0.00%	0	0%	0.00%	0
7012	80%	464	530	488	390	390	0.96%	0%	0.00%	0	0%	0.00%	0
7013	100%	1,097	1,137	1,111	1,111	1,111	2.75%	0%	0.00%	0	0%	0.00%	0
7014	15%	1,970	1,872	1,935	290	290	0.72%	0%	0.00%	0	0%	0.00%	556
7021	50%	1,308	1,466	1,365	683	683	1.69%	0%	0.00%	0	0%	0.00%	145
7022	100%	1,724	1,681	1,709	1,709	1,709	4.22%	0%	0.00%	0	0%	0.00%	342
													855

Trip Distribution Table
Fraternal Order of Police (Bear Canyon Arroyo / Jefferson St)

Data Analysis Subzone Population Data for determination of Local Trip Distribution for Proposed Retail Commercial Trips

2000 and 2025 Data Taken from Mid-Region Council of Governments' 2025 Socioeconomic
 2025 Socioeconomic Forecasts by Data Analysis Subzones for the Mid-Region of New Mexico (S-03-01)

DASZ #	% Sub Area in Study	2000 Population		2025 Population		Interpolated Population for the Year	Population / Distance	Percent Population	(IN)			(SS)			(JS)		
		2000	2025	2000	2025				% Utilizing	Population	% Population Utilizing	Population	% Utilizing	Population	% Population Utilizing	Population	% Utilizing
7031	55%	1996	1919	1,968	1,082	1,082	2.87%	0%	0.00%	0	0%	0.00%	0	100%	1,082	2.87%	1,082
7032	100%	1574	1667	1,607	1,607	1,607	3.17%	0%	0.00%	0	0%	0.00%	0	100%	1,607	3.97%	1,607
7051	100%	2944	2761	2,878	2,878	2,878	7.11%	0%	0.00%	0	0%	0.00%	0	50%	1,439	3.56%	1,439
7052	100%	6	6	6	6	6	0.01%	0%	0.00%	0	50%	0.01%	3	25%	2	0.00%	2
7053	100%	7	56	25	25	25	0.06%	0%	0.00%	0	50%	0.03%	13	50%	13	0.03%	13
7101	100%	2152	2020	2,104	2,104	2,104	6.20%	0%	0.00%	0	100%	5.20%	2,104	0%	0	0.00%	0
7102	100%	494	483	483	483	483	1.19%	0%	0.00%	0	100%	1.19%	483	0%	0	0.00%	0
7103	70%	1190	1122	1,166	816	816	2.02%	0%	0.00%	0	70%	1.41%	571	30%	245	0.60%	245
7105	90%	1933	1820	1,892	1,703	1,703	4.21%	0%	0.00%	0	0%	0.00%	0	100%	1,703	4.21%	1,703
7106	100%	1901	1786	1,860	1,860	1,860	4.50%	0%	0.00%	0	0%	0.00%	0	100%	1,860	4.60%	1,860
7107	100%	2270	2166	2,233	2,233	2,233	5.52%	0%	0.00%	0	0%	0.00%	0	100%	2,233	5.52%	2,233
7111	100%	1176	1184	1,179	1,179	1,179	2.91%	50%	1.46%	590	0%	0.00%	0	0%	0	0.00%	0
7112	100%	5	10	7	7	7	0.02%	50%	0.01%	4	0%	0.00%	0	0%	0	0.00%	0
7113	95%	893	1145	984	935	935	2.31%	50%	1.16%	468	0%	0.00%	0	0%	0	0.00%	0
7114	25%	1486	1408	1,458	365	365	0.90%	50%	0.45%	183	0%	0.00%	0	0%	0	0.00%	0
7115	90%	1541	1450	1,508	1,357	1,357	3.35%	50%	1.68%	679	0%	0.00%	0	0%	0	0.00%	0
7116	100%	1275	1372	1,310	1,310	1,310	3.24%	50%	1.62%	655	0%	0.00%	0	0%	0	0.00%	0
7126	20%	0	1209	435	87	87	0.22%	50%	0.11%	44	0%	0.00%	0	0%	0	0.00%	0
7151	100%	1029	964	1,006	1,006	1,006	2.49%	0%	0.00%	0	100%	2.49%	1,006	0%	0	0.00%	0
7152	100%	1418	1324	1,384	1,384	1,384	3.42%	0%	0.00%	0	100%	3.42%	1,384	0%	0	0.00%	0
7153	100%	1420	1396	1,390	1,390	1,390	3.44%	50%	1.72%	695	0%	0.00%	0	0%	0	0.00%	0
7154	100%	1262	1156	1,224	1,224	1,224	3.02%	0%	0.00%	0	100%	3.02%	1,224	0%	0	0.00%	0
7155	95%	902	836	878	834	834	2.05%	0%	0.00%	0	100%	2.05%	834	0%	0	0.00%	0
7156	100%	1525	1415	1,485	1,485	1,485	3.67%	50%	1.83%	743	0%	0.00%	0	0%	0	0.00%	0
7157	100%	736	1232	915	915	915	2.28%	35%	0.79%	320	30%	0.68%	275	0%	0	0.00%	0
7201	15%	1826	2475	2,060	309	309	0.76%	50%	0.38%	155	0%	0.00%	0	0%	0	0.00%	0
7611	45%	1891	1757	1,843	829	829	2.05%	0%	0.00%	0	0%	0.00%	0	100%	829	2.05%	829
7612	100%	940	919	932	932	932	2.30%	0%	0.00%	0	0%	0.00%	0	0%	0	0.00%	0
7621	100%	1321	1242	1,293	129	129	0.32%	0%	0.00%	0	0%	0.00%	0	100%	129	0.32%	129
7622	95%	1032	973	1,011	960	960	2.37%	0%	0.00%	0	0%	0.00%	0	100%	960	2.37%	960
7632	15%	876	826	858	129	129	0.29%	0%	0.00%	0	0%	0.00%	0	100%	129	0.32%	129
				52,639	40,465	40,465	100.00%			4,794		7,896		15,058		37.21%	15,058
										11,85%		19,51%					

Trip Distribution Table
Fraternal Order of Police (Bear Canyon Arroyo / Jefferson St)

Data Analysis Subzone Population Data for determination of Local Trip Distribution for Proposed Retail Commercial Trips

2000 and 2025 Data Taken from Mid-Region Council of Governments' 2025 Socioeconomic
 2025 Socioeconomic Forecasts by Data Analysis Subzones for the Mid-Region of New Mexico (S-03-01)

DASZ #	% Sub Area in Study	2000 Population		Interpolated Population for the Year 2009	Population in Study	Population / Distance	Percent Population	(IS) Interstate 25 South		(SW) Singer Blvd West	
		2000	2025					% Utilizing	Population	% Utilizing	Population
Boundary Specified on DASZ Map											
6046	10%	661	619	646	65	65	0.16%	0%	0	0%	0
6051	100%	0	0	0	0	0	0.00%	0%	0	0%	0
6052	100%	0	9	3	3	3	0.01%	0%	0	0%	0
6053	100%	0	14	5	5	5	0.01%	0%	0	0%	0
6054	100%	2	2	2	2	2	0.00%	0%	0	0%	0
6055	100%	0	7	3	3	3	0.01%	0%	0	0%	0
6056	100%	0	23	8	8	8	0.02%	0%	0	0%	0
6057	100%	6	6	6	6	6	0.01%	0%	0	0%	0
6058	100%	52	57	54	54	54	0.13%	0%	0	0%	0
6061	50%	411	610	483	242	242	0.60%	50%	121	0%	0
6062	95%	1359	1526	1,419	1,348	1,348	3.33%	40%	539	20%	270
6063	100%	0	2	1	1	1	0.00%	0%	0	0%	0
6064	100%	0	0	0	0	0	0.00%	0%	0	0%	0
6075	25%	99	97	98	25	25	0.06%	100%	25	100%	0
6076	60%	3	3	3	2	2	0.00%	100%	2	0%	0
6081	70%	280	467	347	243	243	0.60%	0%	0	0%	0
6082	85%	57	58	57	48	48	0.12%	0%	0	0%	0
6083	100%	322	2404	1,072	1,072	1,072	2.86%	0%	0	0%	0
6084	100%	565	2145	1,134	1,134	1,134	2.80%	0%	0	0%	0
6091	100%	0	0	0	0	0	0.00%	0%	0	0%	0
6092	100%	0	0	0	0	0	0.00%	0%	0	0%	0
6093	100%	0	0	0	0	0	0.00%	0%	0	0%	0
6094	100%	0	2	1	1	1	0.00%	0%	0	100%	1
6095	100%	0	0	0	0	0	0.00%	0%	0	100%	0
6522	5%	0	0	0	0	0	0.00%	0%	0	0%	0
6526	35%	1330	1263	1,306	457	457	1.13%	0%	0	0%	0
6527	30%	0	2	1	0	0	0.00%	0%	0	0%	0
7012	80%	464	530	488	390	390	0.96%	100%	390	0%	0
7013	100%	1097	1137	1,111	1,111	1,111	2.75%	50%	556	0%	0
7014	15%	1970	1872	1,935	290	290	0.72%	50%	145	0%	0
7021	50%	1308	1466	1,365	683	683	1.89%	50%	342	0%	0
7022	100%	1724	1681	1,709	1,709	1,709	4.22%	50%	855	0%	0

Trip Distribution Table
Fraternal Order of Police (Bear Canyon Arroyo / Jefferson St)

Data Analysis Subzone Population Data for determination of Local Trip Distribution for Proposed Retail Commercial Trips

2000 and 2025 Data Taken from Mid-Region Council of Governments' 2025 Socioeconomic
 2025 Socioeconomic Forecasts by Data Analysis Subzones for the Mid-Region of New Mexico (S-03-01)

DASZ #	% Sub Area in Study	2000 Population		2025 Population		Interpolated Population for the Year 2009	Population in Study	Population / Distance	Percent Population	(S)			(SW)			
		2000	2025	2000	2025					% Utilizing	Population	% Utilizing	Population	% Utilizing	Population	
7031	55%	1919	1919	1919	1919	1,968	1,082	1,082	2.67%	0%	0	0.00%	0	0%	0	0.00%
7032	100%	1574	1667	1667	1667	1,607	1,607	1,607	3.97%	0%	0	0.00%	0	0%	0	0.00%
7051	100%	2944	2761	2761	2761	2,878	2,878	2,878	7.11%	50%	1,439	3.56%	1,439	0%	0	0.00%
7052	100%	6	6	6	6	6	6	6	0.01%	25%	2	0.00%	2	0%	0	0.00%
7053	100%	7	56	25	25	25	25	25	0.06%	0%	0	0.00%	0	0%	0	0.00%
7101	100%	2152	2020	2020	2020	2,104	2,104	2,104	5.20%	0%	0	0.00%	0	0%	0	0.00%
7102	100%	494	463	463	463	483	483	483	1.19%	0%	0	0.00%	0	0%	0	0.00%
7103	70%	1190	1122	1122	1122	1,166	816	816	2.02%	0%	0	0.00%	0	0%	0	0.00%
7105	90%	1933	1820	1820	1820	1,892	1,703	1,703	4.21%	0%	0	0.00%	0	0%	0	0.00%
7106	100%	1901	1786	1786	1786	1,860	1,860	1,860	4.60%	0%	0	0.00%	0	0%	0	0.00%
7107	100%	2270	2166	2166	2166	2,233	2,233	2,233	5.62%	0%	0	0.00%	0	0%	0	0.00%
7111	100%	1176	1184	1184	1179	1,179	1,179	1,179	2.91%	0%	0	0.00%	0	0%	0	0.00%
7112	100%	5	10	7	7	7	7	7	0.02%	0%	0	0.00%	0	0%	0	0.00%
7113	95%	893	1145	984	985	984	935	935	2.31%	0%	0	0.00%	0	0%	0	0.00%
7114	25%	1486	1408	1408	1408	1,458	365	365	0.90%	0%	0	0.00%	0	0%	0	0.00%
7115	90%	1541	1450	1450	1450	1,508	1,357	1,357	3.35%	0%	0	0.00%	0	0%	0	0.00%
7116	100%	1275	1372	1372	1310	1,310	1,310	1,310	3.24%	0%	0	0.00%	0	0%	0	0.00%
7126	20%	0	1209	435	87	435	87	87	0.22%	0%	0	0.00%	0	0%	0	0.00%
7151	100%	1029	964	964	1,006	1,006	1,006	1,006	2.49%	0%	0	0.00%	0	0%	0	0.00%
7152	100%	1418	1324	1324	1,384	1,384	1,384	1,384	3.42%	0%	0	0.00%	0	0%	0	0.00%
7153	100%	1420	1336	1336	1,390	1,390	1,390	1,390	3.44%	0%	0	0.00%	0	0%	0	0.00%
7154	100%	1262	1156	1156	1,224	1,224	1,224	1,224	3.02%	0%	0	0.00%	0	0%	0	0.00%
7155	95%	902	836	836	878	878	834	834	2.06%	0%	0	0.00%	0	0%	0	0.00%
7156	100%	1525	1415	1415	1,485	1,485	1,485	1,485	3.87%	0%	0	0.00%	0	0%	0	0.00%
7157	100%	736	1232	915	915	915	915	915	2.26%	0%	0	0.00%	0	0%	0	0.00%
7201	15%	1826	2475	2060	309	309	309	309	0.76%	0%	0	0.00%	0	0%	0	0.00%
7611	45%	1891	1757	1843	829	829	829	829	2.05%	0%	0	0.00%	0	0%	0	0.00%
7612	100%	940	919	932	932	932	932	932	2.30%	0%	0	0.00%	0	0%	0	0.00%
7621	10%	1321	1242	1293	129	129	129	129	0.32%	0%	0	0.00%	0	0%	0	0.00%
7622	95%	1032	973	1,011	960	960	960	960	2.37%	0%	0	0.00%	0	0%	0	0.00%
7632	15%	876	826	858	129	129	129	129	0.32%	0%	0	0.00%	0	0%	0	0.00%
				52,639	40,465	40,465	40,465	40,465	100.00%				4,414		272	
																0.67%

Trip Distribution Table
Fraternal Order of Police (Bear Canyon Arroyo / Jefferson St)

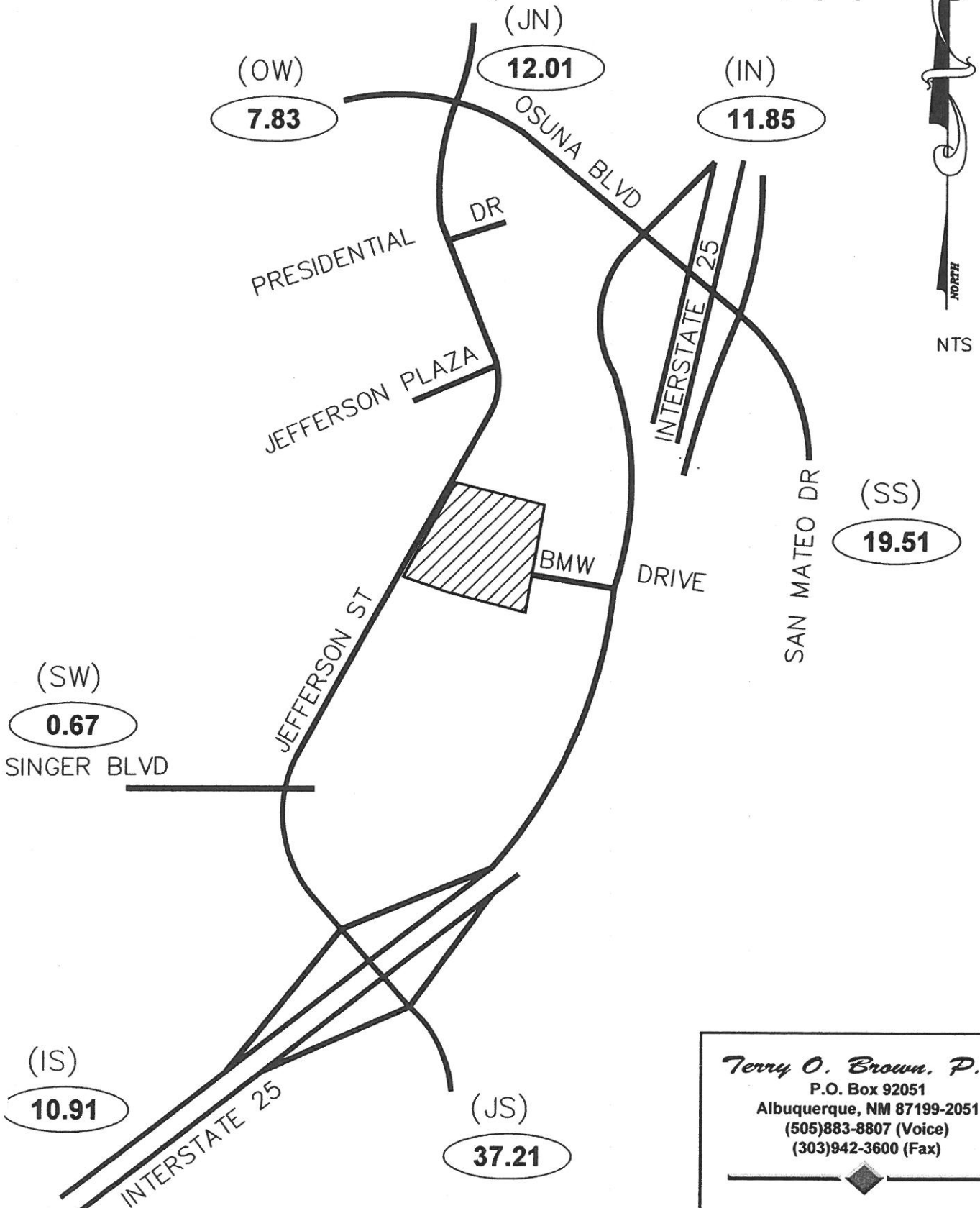
Data Analysis Subzone Population Data for determination of Local Trip Distribution for Proposed Retail Commercial Trips

2000 and 2025 Data Taken from Mid-Region Council of Governments' 2025 Socioeconomic
 2025 Socioeconomic Forecasts by Data Analysis Subzones for the Mid-Region of New Mexico (S-03-01)

DASZ #	% Sub Area in Study	2000 Population		2025 Population		Interpolated Population for the Year 2009	Population in Study	Population / Distance	Percent Population	(OW) Osuna Rd West		(JN) Jefferson St North		
		2000	2025	2025	2025					% Utilizing	Population	% Utilizing	Population	
Boundary Specified on DASZ Map														
6046	10%	661	619	646	65	65	65	0.16%	100%	0.16%	65	0%	0.00%	0
6051	100%	0	0	0	0	0	0	0.00%	0%	0.00%	0	100%	0.00%	0
6052	100%	0	9	3	3	3	3	0.01%	0%	0.00%	0	50%	0.00%	2
6053	100%	0	14	5	5	5	5	0.01%	0%	0.00%	0	100%	0.01%	5
6054	100%	2	2	2	2	2	2	0.00%	0%	0.00%	0	50%	0.00%	1
6055	100%	0	7	3	3	3	3	0.01%	0%	0.00%	0	100%	0.01%	3
6056	100%	0	23	8	8	8	8	0.02%	0%	0.00%	0	50%	0.01%	4
6057	100%	6	6	6	6	6	6	0.01%	80%	0.01%	5	20%	0.00%	1
6058	100%	52	57	54	54	54	54	0.13%	0%	0.00%	0	50%	0.07%	27
6061	50%	411	610	483	242	242	242	0.60%	50%	0.30%	121	0%	0.00%	0
6062	95%	1359	1526	1,419	1,348	1,348	1,348	3.33%	40%	1.33%	539	0%	0.00%	0
6063	100%	0	2	1	1	1	1	0.00%	0%	0.00%	0	0%	0.00%	0
6064	100%	0	0	0	0	0	0	0.00%	0%	0.00%	0	0%	0.00%	0
6075	25%	99	97	98	25	25	25	0.06%	0%	0.00%	0	0%	0.00%	0
6076	60%	3	3	3	2	2	2	0.00%	0%	0.00%	0	0%	0.00%	0
6081	70%	280	467	347	243	243	243	0.60%	80%	0.48%	194	20%	0.12%	49
6082	85%	57	58	57	48	48	48	0.12%	80%	0.09%	38	20%	0.02%	10
6083	100%	322	2404	1,072	1,072	1,072	1,072	2.65%	100%	2.65%	1,072	0%	0.00%	0
6084	100%	565	2145	1,134	1,134	1,134	1,134	2.80%	100%	2.80%	1,134	0%	0.00%	0
6091	100%	0	0	0	0	0	0	0.00%	50%	0.00%	0	0%	0.00%	0
6092	100%	0	0	0	0	0	0	0.00%	0%	0.00%	0	0%	0.00%	0
6093	100%	0	0	0	0	0	0	0.00%	0%	0.00%	0	0%	0.00%	0
6094	100%	0	2	1	1	1	1	0.00%	0%	0.00%	0	0%	0.00%	0
6095	100%	0	0	0	0	0	0	0.00%	0%	0.00%	0	0%	0.00%	0
6522	5%	0	0	0	0	0	0	0.00%	0%	0.00%	0	100%	0.00%	0
6526	35%	1330	1263	1,306	457	457	457	1.13%	0%	0.00%	0	50%	0.56%	229
6527	30%	0	2	1	0	0	0	0.00%	0%	0.00%	0	100%	0.00%	0
7012	80%	464	530	488	390	390	390	0.96%	0%	0.00%	0	0%	0.00%	0
7013	100%	1097	1137	1,111	1,111	1,111	1,111	2.75%	0%	0.00%	0	0%	0.00%	0
7014	100%	1970	1872	1,935	290	290	290	0.72%	0%	0.00%	0	0%	0.00%	0
7021	50%	1308	1466	1,365	683	683	683	1.69%	0%	0.00%	0	0%	0.00%	0
7022	100%	1724	1681	1,709	1,709	1,709	1,709	4.22%	0%	0.00%	0	0%	0.00%	0

Fraternal Order of Police

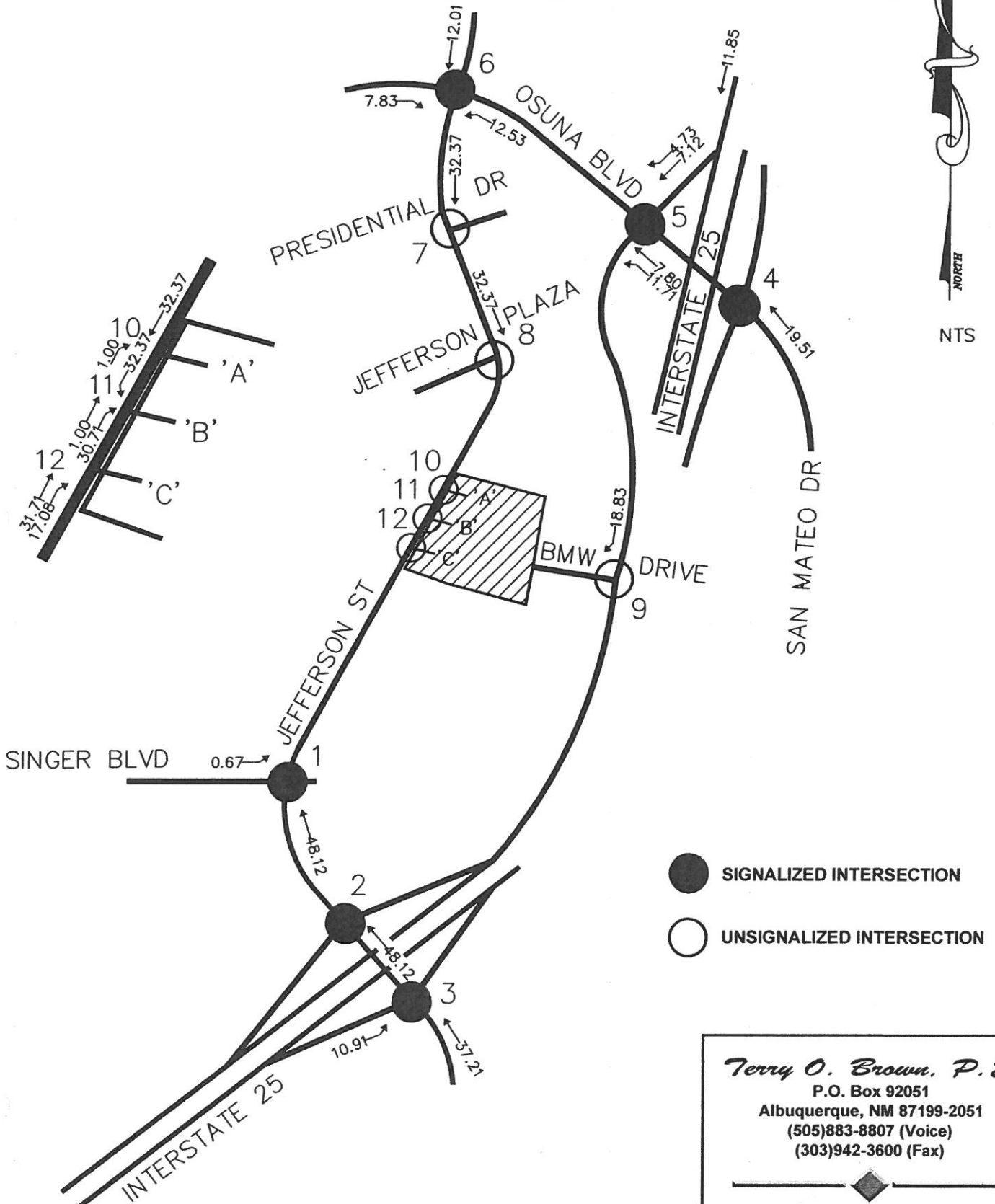
Bear Canyon Arroyo / Jefferson St Commercial Trip Distribution Map (%)



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Fraternal Order of Police

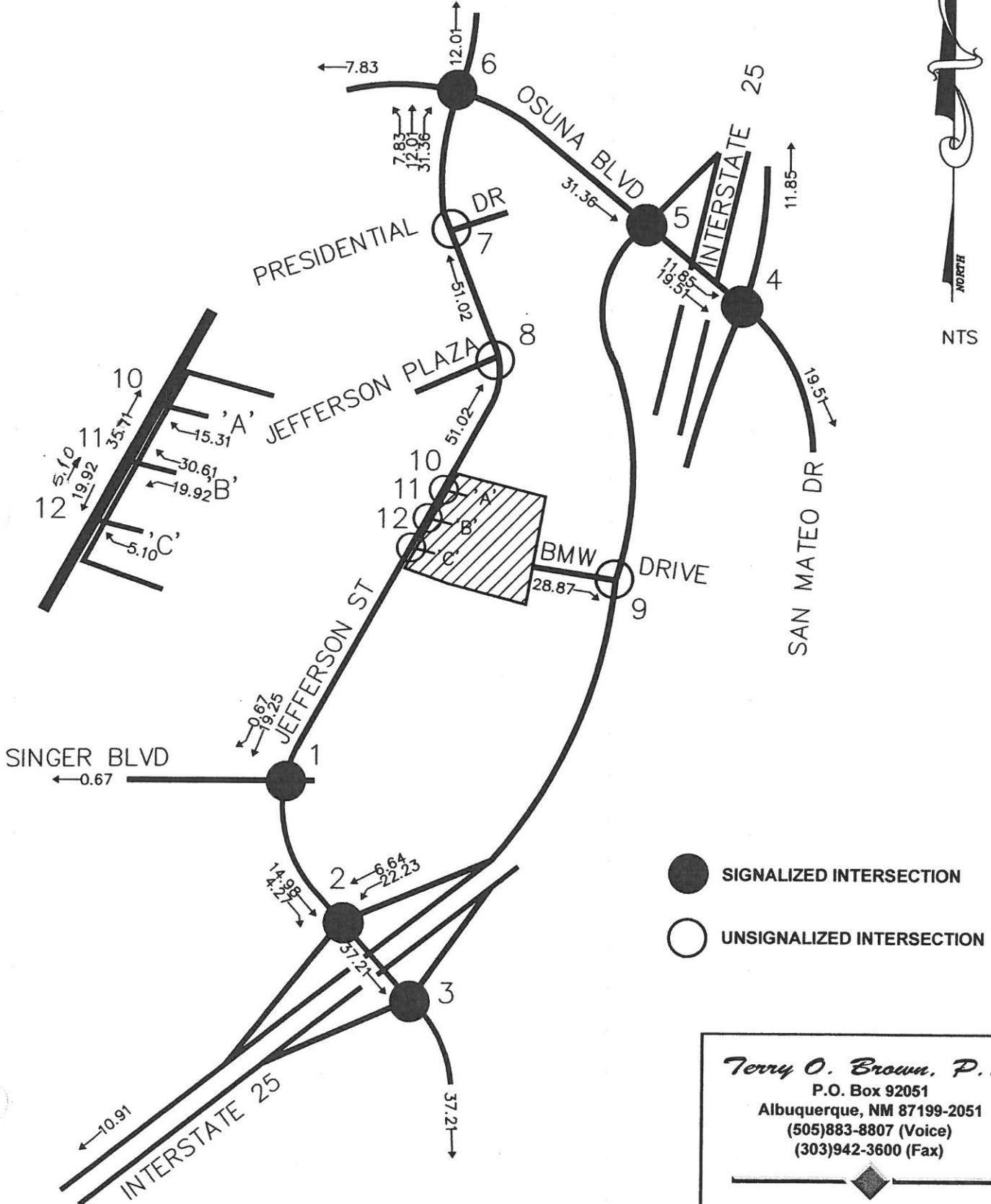
Bear Canyon Arroyo / Jefferson St Commercial Trip Assignments (% Entering)



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Bear Canyon Arroyo / Jefferson St Commercial Trip Assignments (% Exiting)

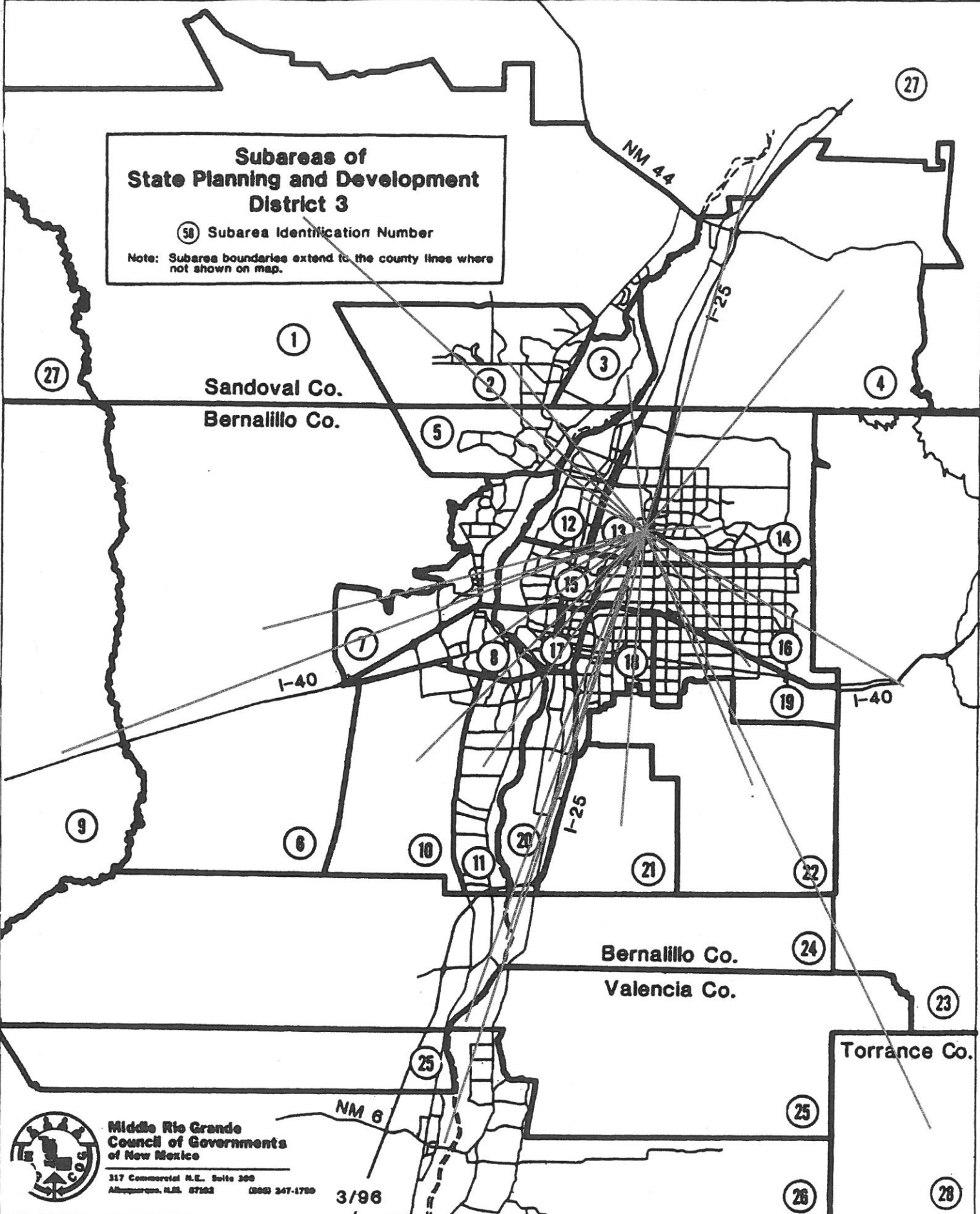


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**Subareas of
State Planning and Development
District 3**

⑤ Subarea Identification Number

Note: Subarea boundaries extend to the county lines where not shown on map.



**Middle Rio Grande
Council of Governments
of New Mexico**
317 Commercial N.E. Suite 300
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3/96

Fraternal Order of Police (Bear Canyon Arroyo / Jefferson St) Trip Distribution - Subarea Map

Trip Distribution Table

Fraternal Order of Police (Bear Canyon, Arroyo / Jefferson St)

Sub Area Population Data:

For determination of Trip Distribution for Proposed Office Development

2000 and 2025 Data Taken from Mid-Region Council of Governments' 2025 Socioeconomic

2025 Socioeconomic Forecasts by Data Analysis Subzones for the Mid-Region of New Mexico (S-03-01)

Sub Area I.D.#	% Sub Area in Study	2005 Population		2010 Population		2015 Population		2025 Population		Interpolated Population for the Year 2009	Population in Study	Dist. (Mi.)	Population / Distance	(IS) Interstate 25 South		(SW) Singer Blvd West		(OW) Osuna Rd West	
		2005	2010	2010	2015	2015	2025	% Utilizing	% Population / Dist Utilizing					% Utilizing	% Population / Dist Utilizing	% Utilizing	% Population / Dist Utilizing		
1	100%	26,972	39,738	53,201	77,230	37,185	2,009	22.91	88	0%	0.00%	0	0	0%	0.00%	0	0%	0.00%	0
2	100%	39,348	40,610	42,227	47,940	40,358	37,185	10.79	3,447	0%	0.00%	0	0	0%	0.00%	0	0%	0.00%	0
3	100%	7,865	8,728	9,356	9,591	8,555	8,555	7.77	1,101	0%	0.00%	0	0	0%	0.00%	0	0%	0.00%	0
4	100%	13,387	14,936	15,923	18,527	14,626	14,626	15.41	949	0%	0.00%	0	0	0%	0.00%	0	0%	0.00%	0
5	100%	35,968	44,203	48,059	54,241	42,556	42,556	7.91	5,383	0%	0.00%	0	0	0%	0.00%	0	0%	0.00%	0
6	100%	2,784	3,950	4,265	18,676	3,717	3,717	19.43	181	40%	0.07%	77	0	0%	0.00%	0	0%	0.00%	0
7	100%	48,565	59,615	64,196	75,089	57,405	57,405	9.11	6,300	50%	2.86%	3,150	0	0%	0.00%	0	0%	0.00%	0
8	100%	27,546	28,553	29,299	33,406	28,352	28,352	9.38	3,023	100%	2.74%	3,023	0	0%	0.00%	0	0%	0.00%	0
9	100%	1,678	1,888	2,055	2,438	1,846	1,846	30.82	60	100%	0.05%	60	0	0%	0.00%	0	0%	0.00%	0
10	100%	39,532	4,822	59,940	70,184	11,764	11,764	16.01	735	100%	0.67%	735	0	0%	0.00%	0	0%	0.00%	0
11	100%	32,051	33,202	37,130	38,279	32,972	32,972	14.14	2,332	100%	2.11%	2,332	0	0%	0.00%	0	0%	0.00%	0
12	100%	16,144	16,146	16,635	17,804	16,146	16,146	3.62	4,463	0%	0.00%	0	147	30%	1.21%	1,339	30%	1.21%	1,339
13*	100%	8,715	10,146	10,348	11,137	9,860	9,860	16.146	2,332	100%	2.11%	2,332	0	0%	0.00%	0	0%	0.00%	0
14	100%	93,104	94,279	96,147	99,871	94,044	94,044	3.28	28,646	2%	0.13%	147	0	15%	1.00%	1,104	18%	1.20%	1,324
15	100%	24,691	25,262	25,949	25,919	25,148	25,148	5.03	5,005	60%	0.00%	0	0	0%	0.00%	0	0%	0.00%	0
16	100%	108,882	108,353	107,806	106,703	108,459	108,459	6.30	17,221	2.72%	2.72%	3,003	0	40%	1.81%	2,002	0%	0.00%	0
17	100%	20,920	21,196	22,042	22,645	21,141	21,141	6.97	3,034	60%	9.37%	10,333	0	0%	0.00%	0	0%	0.00%	0
18	100%	42,078	41,670	41,542	42,625	41,752	41,752	6.16	6,773	100%	6.14%	6,773	0	0%	0.00%	0	0%	0.00%	0
19	100%	59,027	58,888	60,441	60,385	58,916	58,916	8.51	6,924	100%	6.28%	6,924	0	0%	0.00%	0	0%	0.00%	0
20	100%	9,482	9,699	9,756	9,893	9,656	9,656	12.33	783	100%	0.71%	783	0	0%	0.00%	0	0%	0.00%	0
21	100%	6	6	2,463	9,511	6	6	14.67	0	100%	0.00%	0	0	0%	0.00%	0	0%	0.00%	0
22	100%	4,231	3,629	3,701	3,704	3,749	3,749	13.67	274	100%	0.25%	274	0	0%	0.00%	0	0%	0.00%	0
23	100%	18,140	20,390	21,613	24,186	19,940	19,940	15.01	1,329	100%	1.20%	1,329	0	0%	0.00%	0	0%	0.00%	0
24	100%	2,393	2,554	2,697	3,054	2,522	2,522	21.31	118	100%	0.11%	118	0	0%	0.00%	0	0%	0.00%	0
25	100%	1,009	1,062	1,127	1,252	1,051	1,051	25.80	41	100%	0.04%	41	0	0%	0.00%	0	0%	0.00%	0
26	100%	75,506	85,654	96,202	117,341	83,624	83,624	31.76	2,633	100%	2.39%	2,633	0	0%	0.00%	0	0%	0.00%	0
27	100%	20,955	22,276	23,694	26,710	22,012	22,012	18.76	1,173	0%	0.00%	0	0	0%	0.00%	0	0%	0.00%	0
28	100%	19,524	21,690	23,476	26,318	21,257	21,257	32.76	649	100%	0.59%	649	0	0%	0.00%	0	0%	0.00%	0
29	100%	11,360	13,771	16,206	20,579	13,289	13,289	50.25	264	0%	0.00%	0	0	0%	0.00%	0	0%	0.00%	0
		811,863	836,916	947,476	1,075,238	831,905	793,557		110,297		41.18%	45,418	41.18%	4.03%	4,444	4.03%	4.444	2.41%	2,663
																			2,41%

* - Subarea in which the site is located.

Trip Distribution Table

Fraternal Order of Police (Bear Canyon Arroyo / Jefferson St)

Sub Area Population Data:

For determination of Trip Distribution for Proposed Office Development

2000 and 2025 Data Taken from Mid-Region Council of Governments' 2025 Socioeconomic

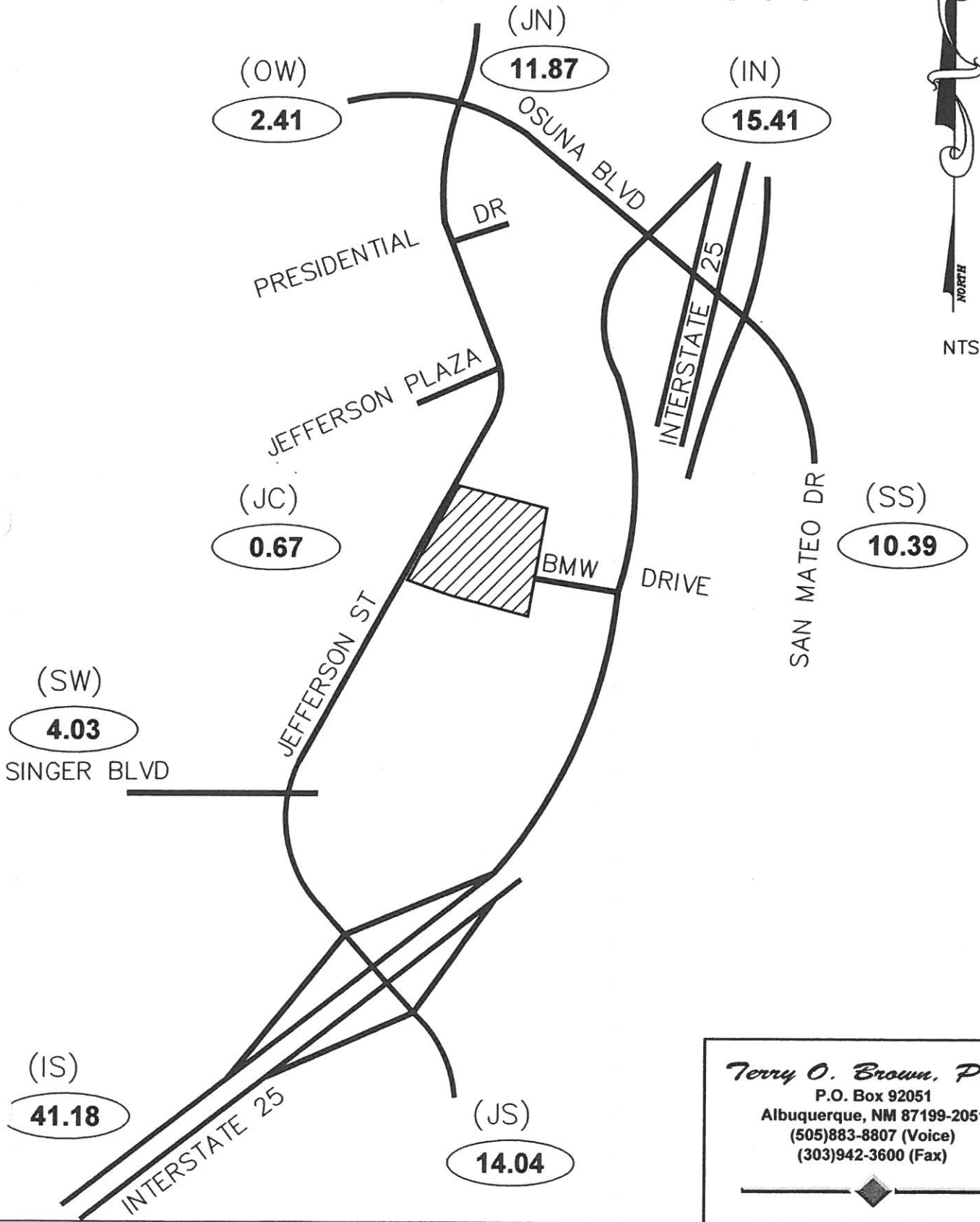
2025 Socioeconomic Forecasts by Data Analysis Subzones for the Mid-Region of New Mexico (S-03-01)

Sub Area I.D.#	% Sub Area In Study	Population					Interpolated Population for the Year	Population in Study	Dist. (Mi.)	Population / Distance	Jefferson St. North (JN)			Jefferson St. Central (JC)		
		2005	2010	2015	2020	2025					2009	% Utilizing	% Population / Dist Utilizing	Population	% Utilizing	% Population / Dist Utilizing
1	100%	26,972	39,738	53,201	77,230	37,185	2,009	22.91	88	0%	0.00%	0	0%	0.00%	0	
2	100%	39,348	40,610	42,227	47,940	40,358	37,185	10.79	3,447	0%	0.00%	0	0%	0.00%	0	
3	100%	7,865	8,728	9,336	9,591	8,555	8,555	7.77	1,101	0%	0.00%	0	0%	0.00%	0	
4	100%	13,387	14,936	15,923	18,527	14,628	14,628	15.41	949	0%	0.00%	0	0%	0.00%	0	
5	100%	35,968	44,203	48,059	54,241	42,556	42,556	7.91	5,383	100%	4.88%	5,383	0%	0.00%	0	
6	100%	2,784	3,950	4,265	18,676	3,717	3,717	19.43	191	30%	0.05%	57	0%	0.00%	0	
7	100%	48,565	59,615	64,196	75,089	57,405	57,405	9.11	6,300	50%	2.88%	3,150	0%	0.00%	0	
8	100%	27,546	28,553	29,299	33,406	28,322	28,322	9.38	3,023	0%	0.00%	0	0%	0.00%	0	
9	100%	1,678	1,888	2,055	2,438	1,846	1,846	30.82	60	0%	0.00%	0	0%	0.00%	0	
10	100%	39,532	4,822	59,940	70,184	11,764	11,764	16.01	735	0%	0.00%	0	0%	0.00%	0	
11	100%	32,051	33,202	37,130	38,279	32,972	32,972	14.14	2,332	0%	0.00%	0	0%	0.00%	0	
12	100%	16,144	16,146	16,635	17,804	16,146	16,146	3.62	4,463	40%	1.62%	1,765	0%	0.00%	0	
13*	100%	8,715	10,146	10,348	11,137	9,860	9,860	1.34	7,358	37%	2.47%	2,722	10%	0.67%	736	
14	100%	93,104	94,279	96,147	99,871	94,044	94,044	3.28	28,646	0%	0.00%	0	0%	0.00%	0	
15	100%	24,691	25,262	25,949	25,919	25,148	25,148	5.03	5,005	0%	0.00%	0	0%	0.00%	0	
16	100%	108,882	108,353	107,806	106,703	108,459	108,459	6.30	17,221	0%	0.00%	0	0%	0.00%	0	
17	100%	20,920	21,196	22,042	22,645	21,141	21,141	6.97	3,034	0%	0.00%	0	0%	0.00%	0	
18	100%	42,078	41,570	41,542	42,625	41,752	41,752	6.16	6,773	0%	0.00%	0	0%	0.00%	0	
19	100%	59,027	58,888	60,441	60,385	58,916	58,916	8.51	6,824	0%	0.00%	0	0%	0.00%	0	
20	100%	9,482	9,699	9,756	9,893	9,656	9,656	12.33	783	0%	0.00%	0	0%	0.00%	0	
21	100%	6	6	2,463	9,511	6	6	14.67	0	0%	0.00%	0	0%	0.00%	0	
22	100%	4,231	3,629	3,701	3,704	3,749	3,749	13.67	274	0%	0.00%	0	0%	0.00%	0	
23	100%	18,140	20,390	21,613	24,186	19,940	19,940	15.01	1,328	0%	0.00%	0	0%	0.00%	0	
24	100%	2,393	2,554	2,697	3,054	2,522	2,522	21.31	118	0%	0.00%	0	0%	0.00%	0	
25	100%	1,009	1,062	1,127	1,252	1,051	1,051	25.80	41	0%	0.00%	0	0%	0.00%	0	
26	100%	75,506	85,654	96,202	117,341	83,624	83,624	31.76	2,633	0%	0.00%	0	0%	0.00%	0	
27	100%	20,955	22,276	23,694	26,710	22,012	22,012	18.76	1,173	0%	0.00%	0	0%	0.00%	0	
28	100%	19,524	21,690	23,476	26,318	21,257	21,257	32.76	649	0%	0.00%	0	0%	0.00%	0	
29	100%	11,360	13,771	16,206	20,579	13,289	13,289	50.25	264	0%	0.00%	0	0%	0.00%	0	
		811,863	836,916	947,476	1,075,238	831,905	793,557		110,287		11.87%	13,058		0.67%	736	
												11.87%			0.67%	

* - Subarea in which the site is located.

Fraternal Order of Police

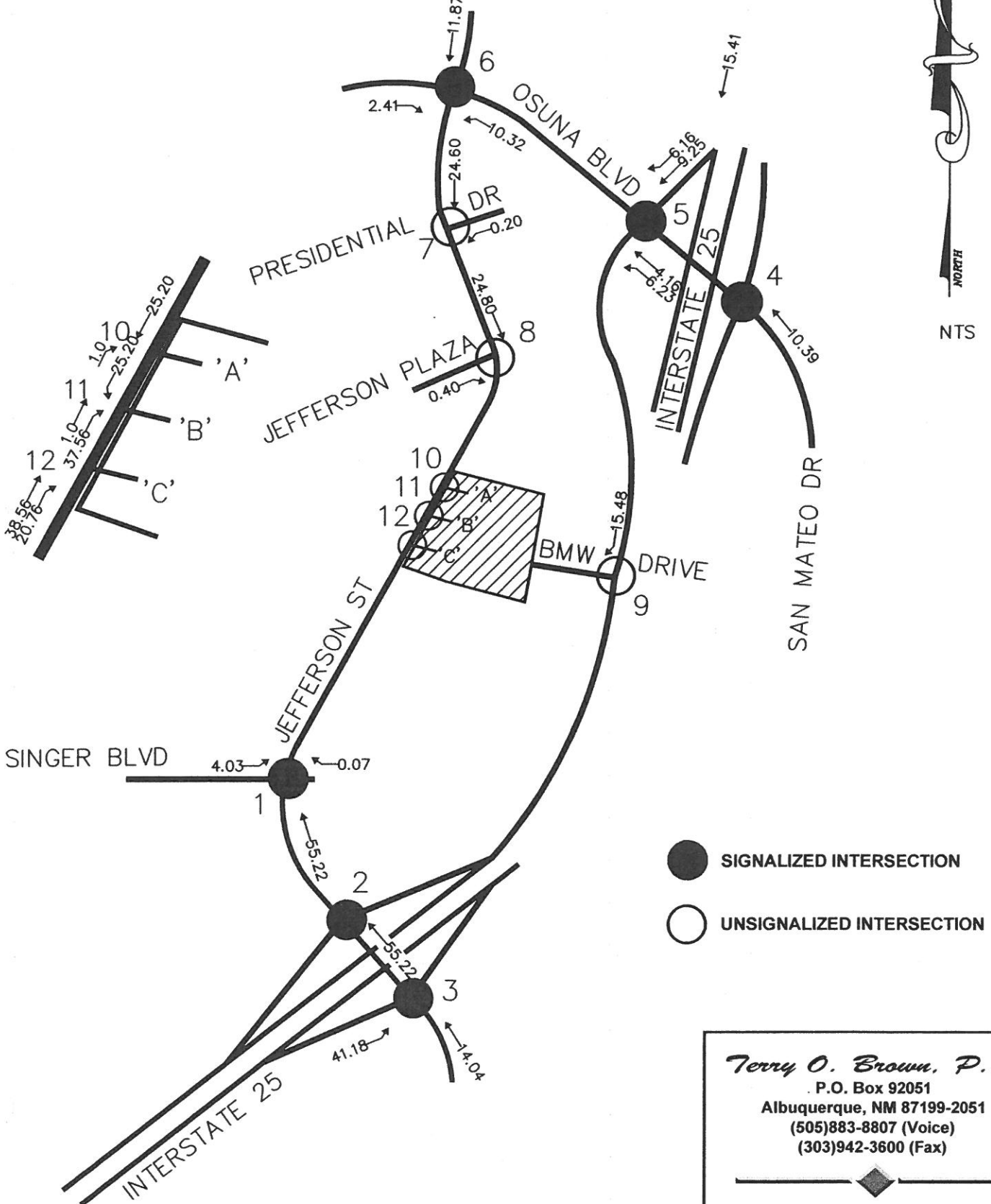
Bear Canyon Arroyo / Jefferson St Office Trip Distribution Map (%)



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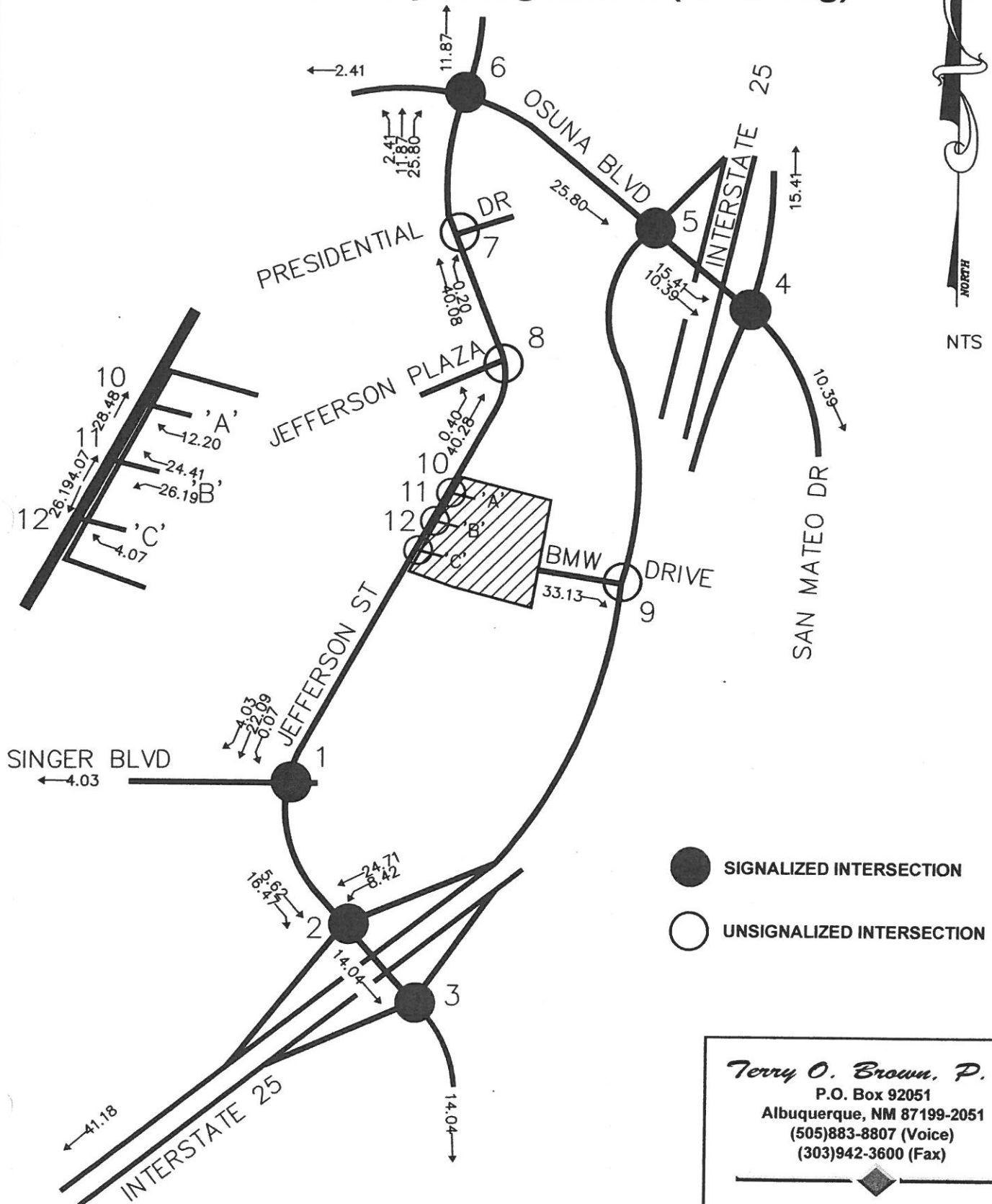
Bear Canyon Arroyo / Jefferson St Office Trip Assignments (% Entering)



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Bear Canyon Arroyo / Jefferson St Office Trip Assignments (% Exiting)

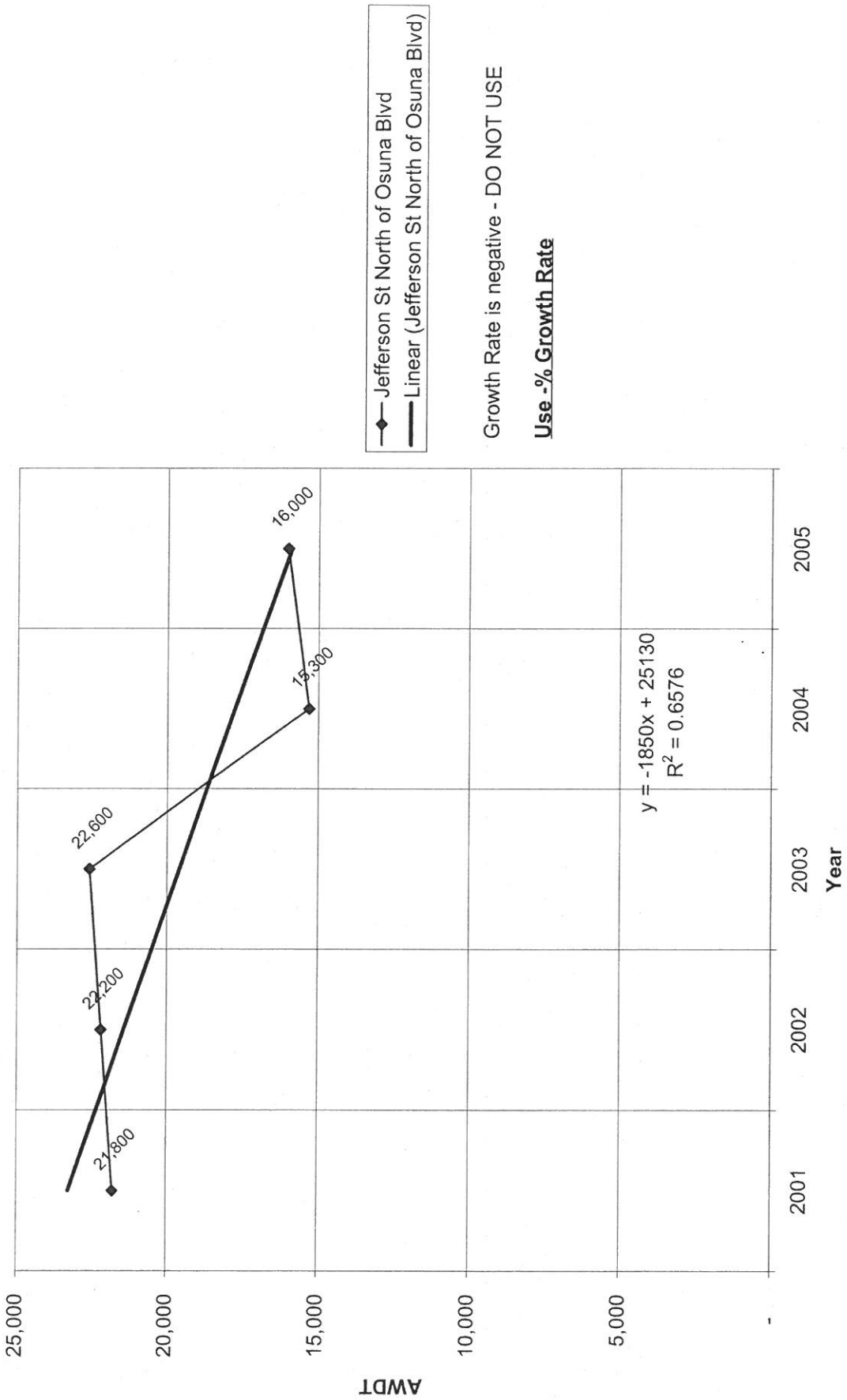


Fraternal Order of Police (Bear Canyon Arroyo / Jefferson St)
Historic Growth Rate Table

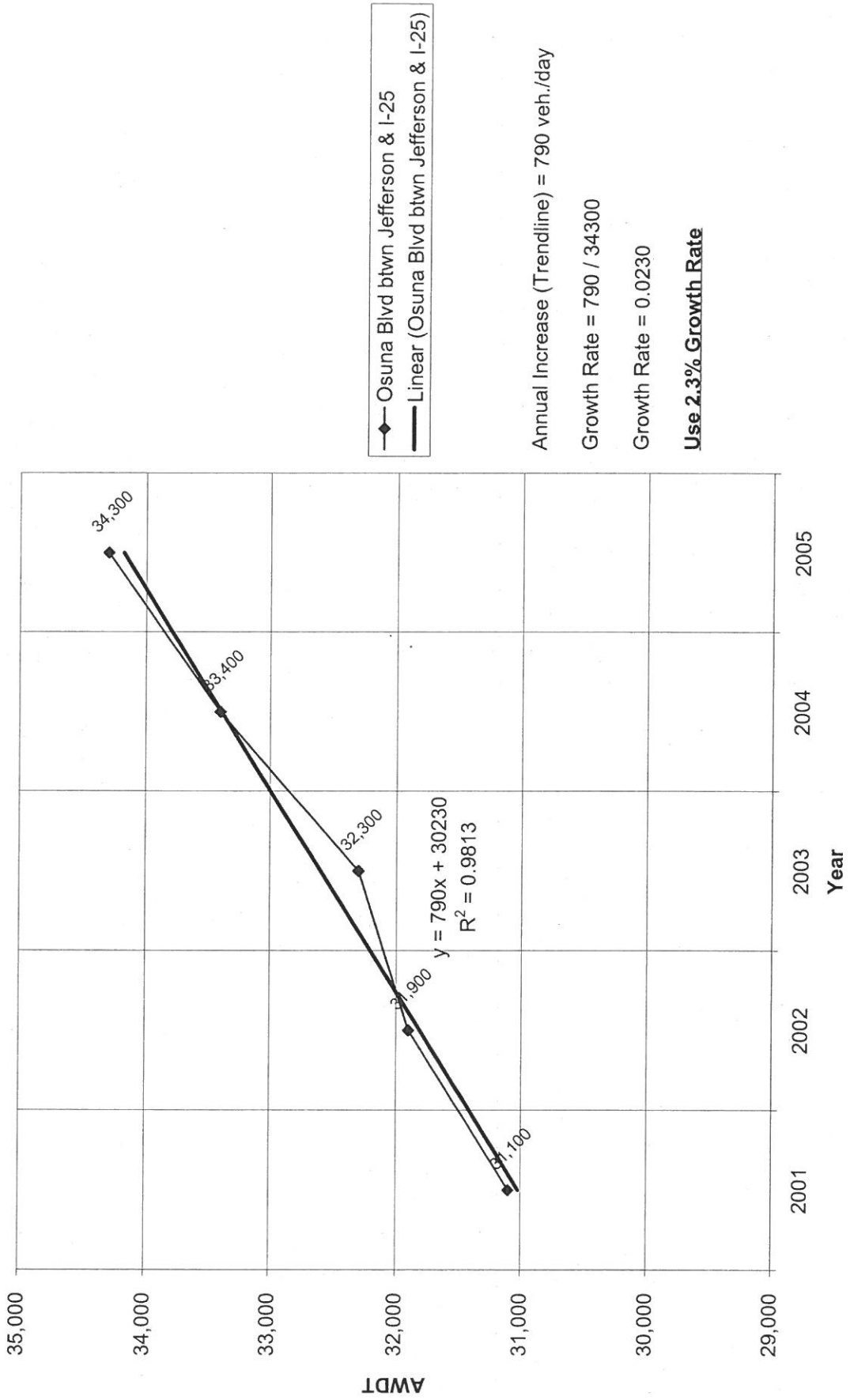
Traffic Flows from MRCOG Map

	2001	2002	2003	2004	2005
Jefferson St North of Osuna Blvd	21,800	22,200	22,600	15,300	16,000
Osuna Blvd btwn Jefferson & I-25	31,100	31,900	32,300	33,400	34,300
I-25 North of Osuna Blvd	102,800	130,500	134,600	140,000	138,900
San Mateo Blvd East of I-25	54,000	54,900	43,700	43,400	43,800
I-25 btwn Osuna Blvd & Jefferson St	117,400	140,500	151,200	155,700	155,700
Jefferson St East of I-25	13,800	14,000	14,200	14,100	14,200
I-25 South of Jefferson St	119,800	140,100	160,100	163,800	167,600
Singer Blvd West of Jefferson St	-	-	10,700	10,600	10,500
Jefferson St btwn Singer & Jeff. Plaza	19,200	19,600	19,900	24,800	25,600
Jefferson St btwn Jeff. Plaza & Osuna	16,100	15,000	15,200	15,700	22,700
Osuna Blvd West of Jefferson St	28,700	29,300	29,700	32,300	33,800

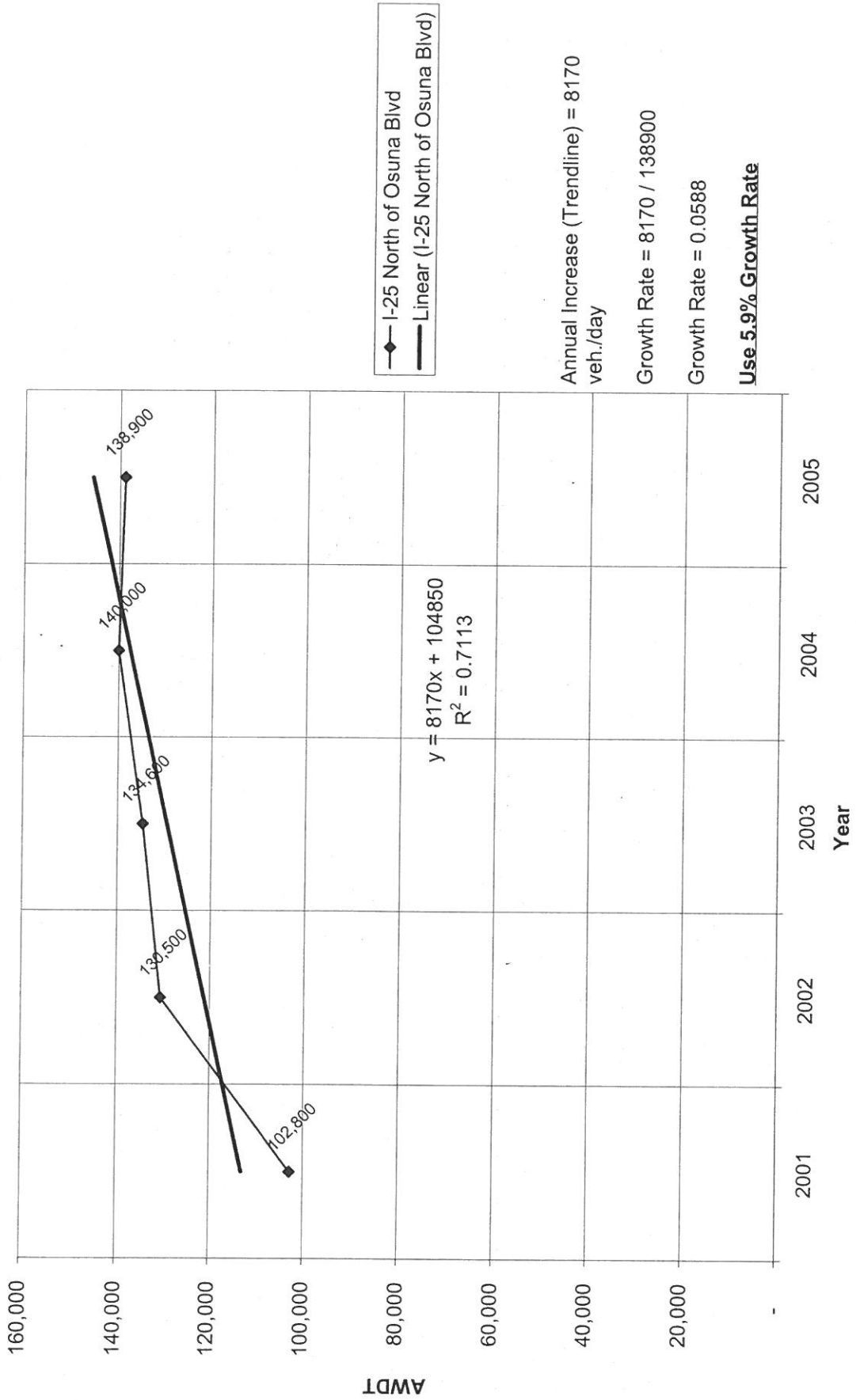
Historic Growth Chart Jefferson St North of Osuna Blvd (2001-2005)



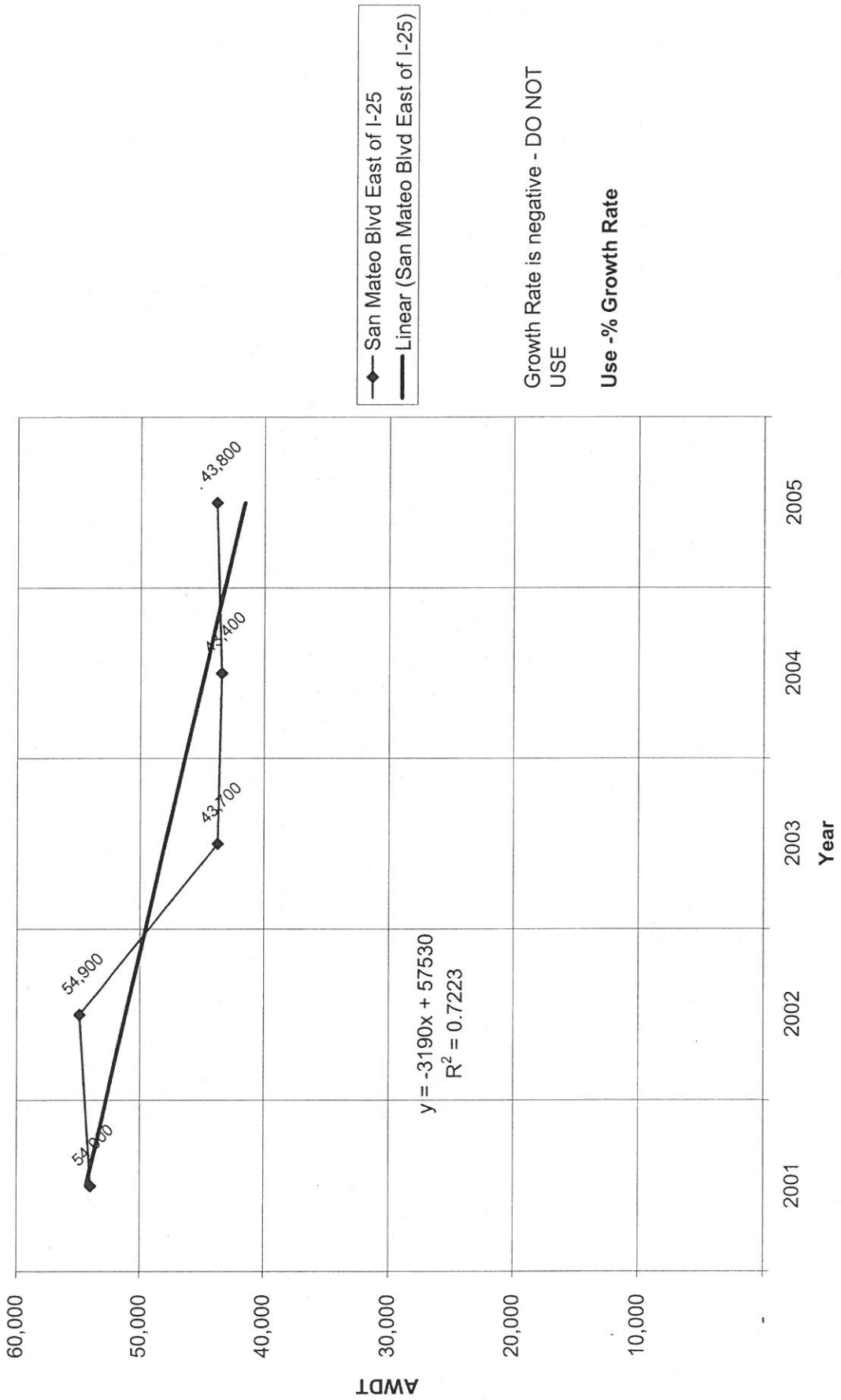
Historic Growth Chart Osuna Blvd btwn Jefferson & I-25 (2001-2005)



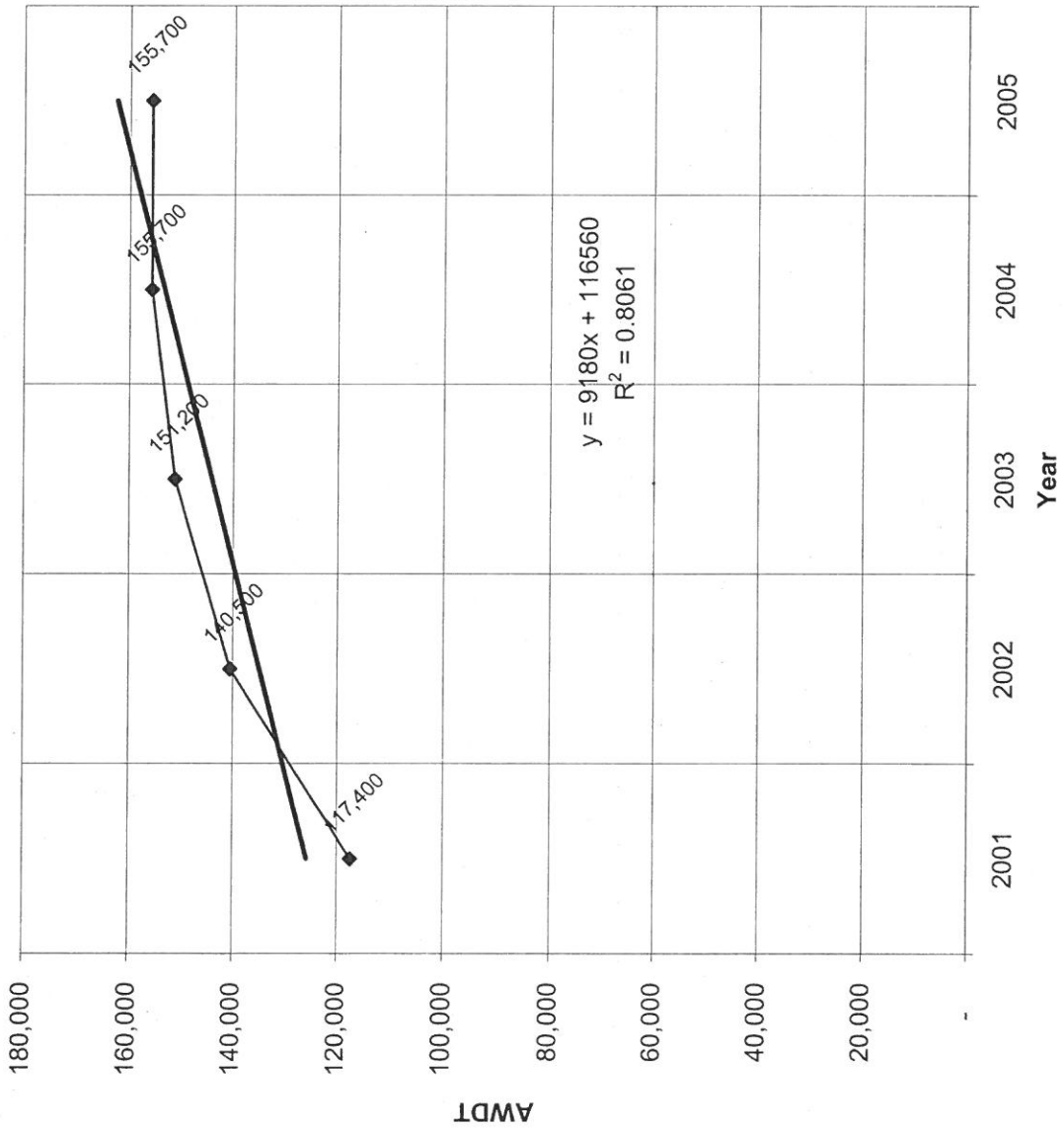
Historic Growth Chart I-25 North of Osuna Blvd (2001-2005)



Historic Growth Chart San Mateo Blvd East of I-25 (2001-2005)



Historic Growth Chart I-25 btwn Osuna Blvd & Jefferson St (2001-2005)



◆ I-25 btwn Osuna Blvd & Jefferson St
 — Linear (I-25 btwn Osuna Blvd & Jefferson St)

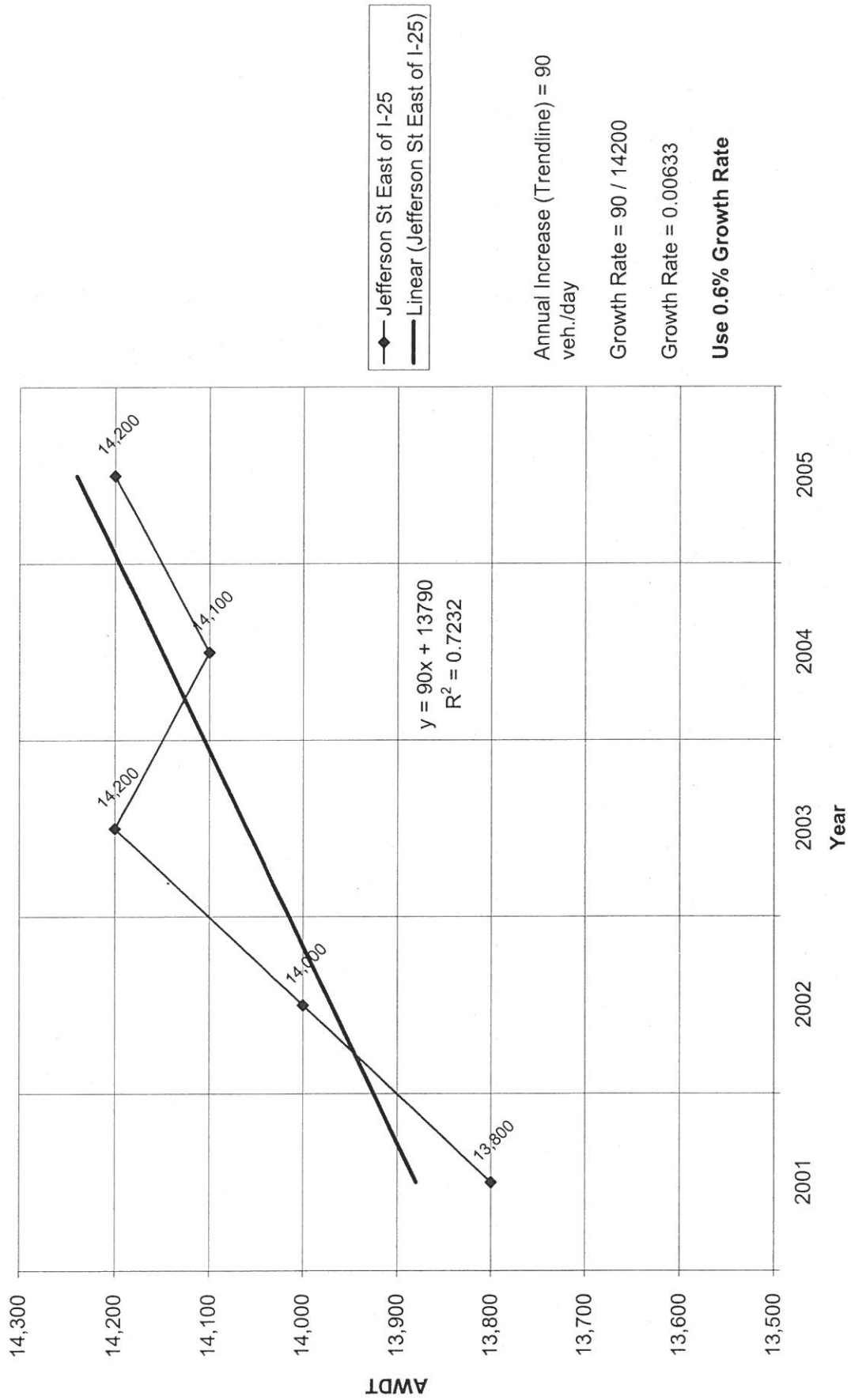
Annual Increase (Trendline) = 9180 veh./day

Growth Rate = 9180 / 155700

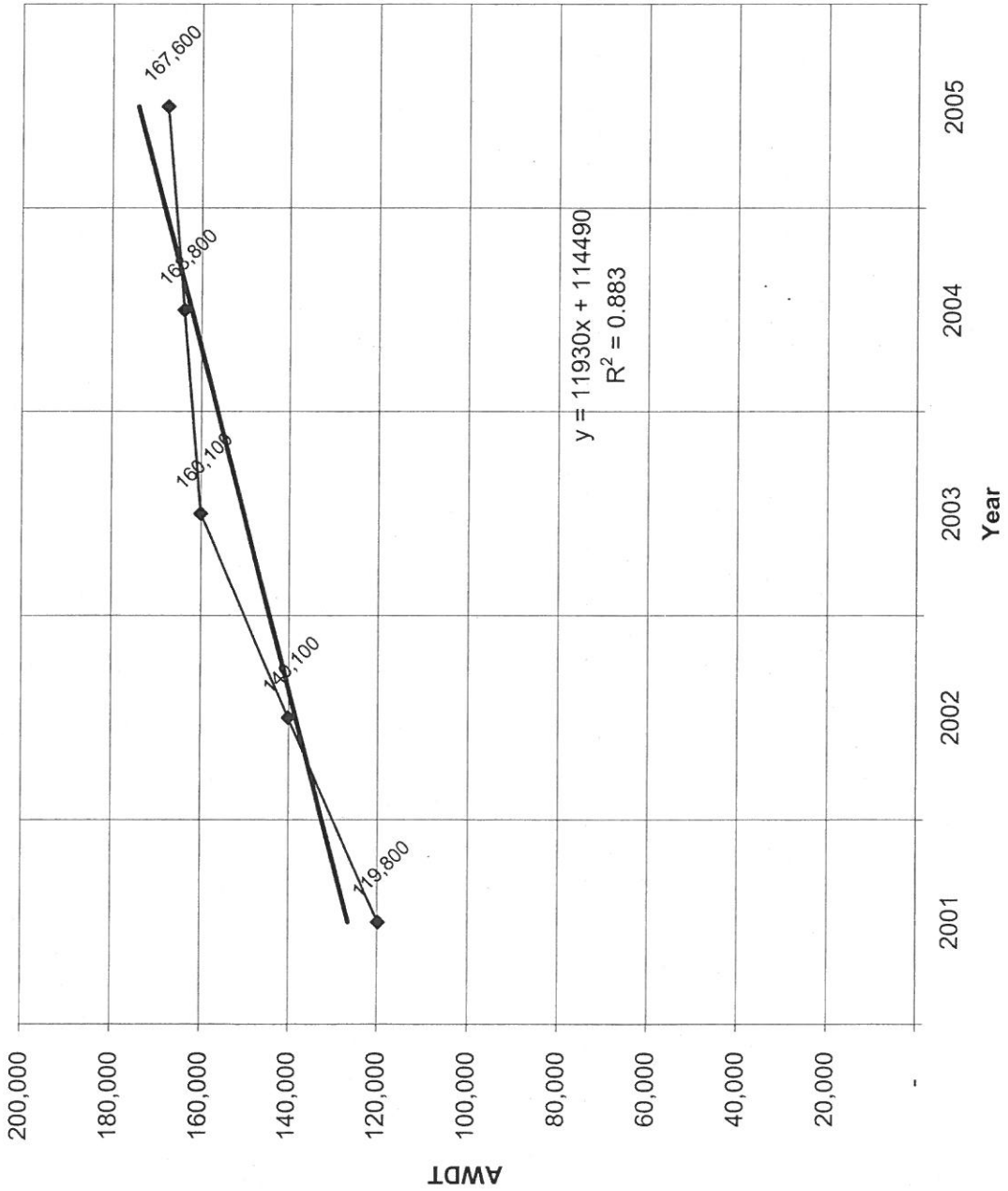
Growth Rate = 0.0589

Use 5.9% Growth Rate

Historic Growth Chart Jefferson St East of I-25 (2001-2005)



Historic Growth Chart I-25 South of Jefferson St (2001-2005)



◆ I-25 South of Jefferson St
 — Linear (I-25 South of Jefferson St)

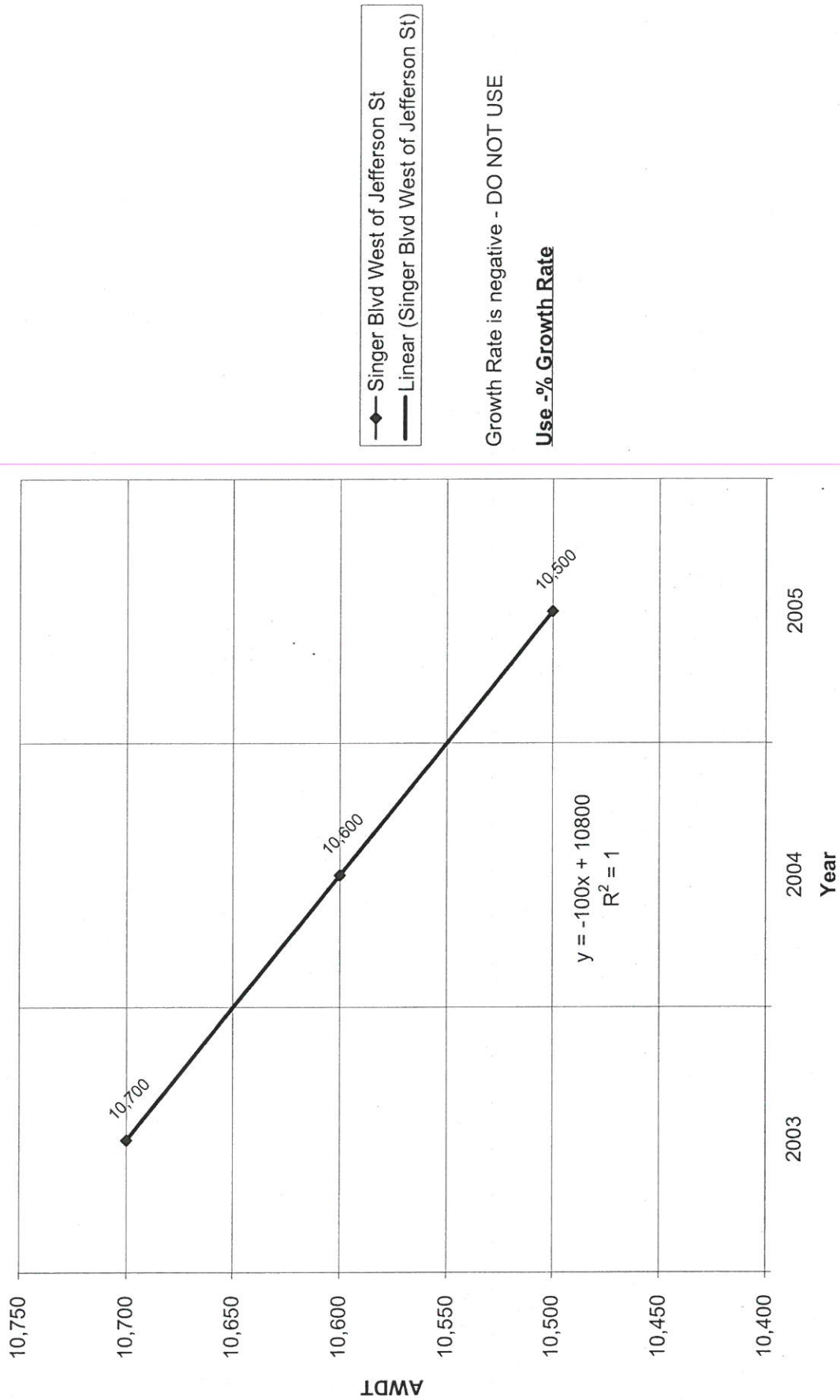
Annual Increase (Trendline) = 11930
 veh./day

Growth Rate = 11930 / 167600

Growth Rate = .0711

Use 7.1% Growth Rate

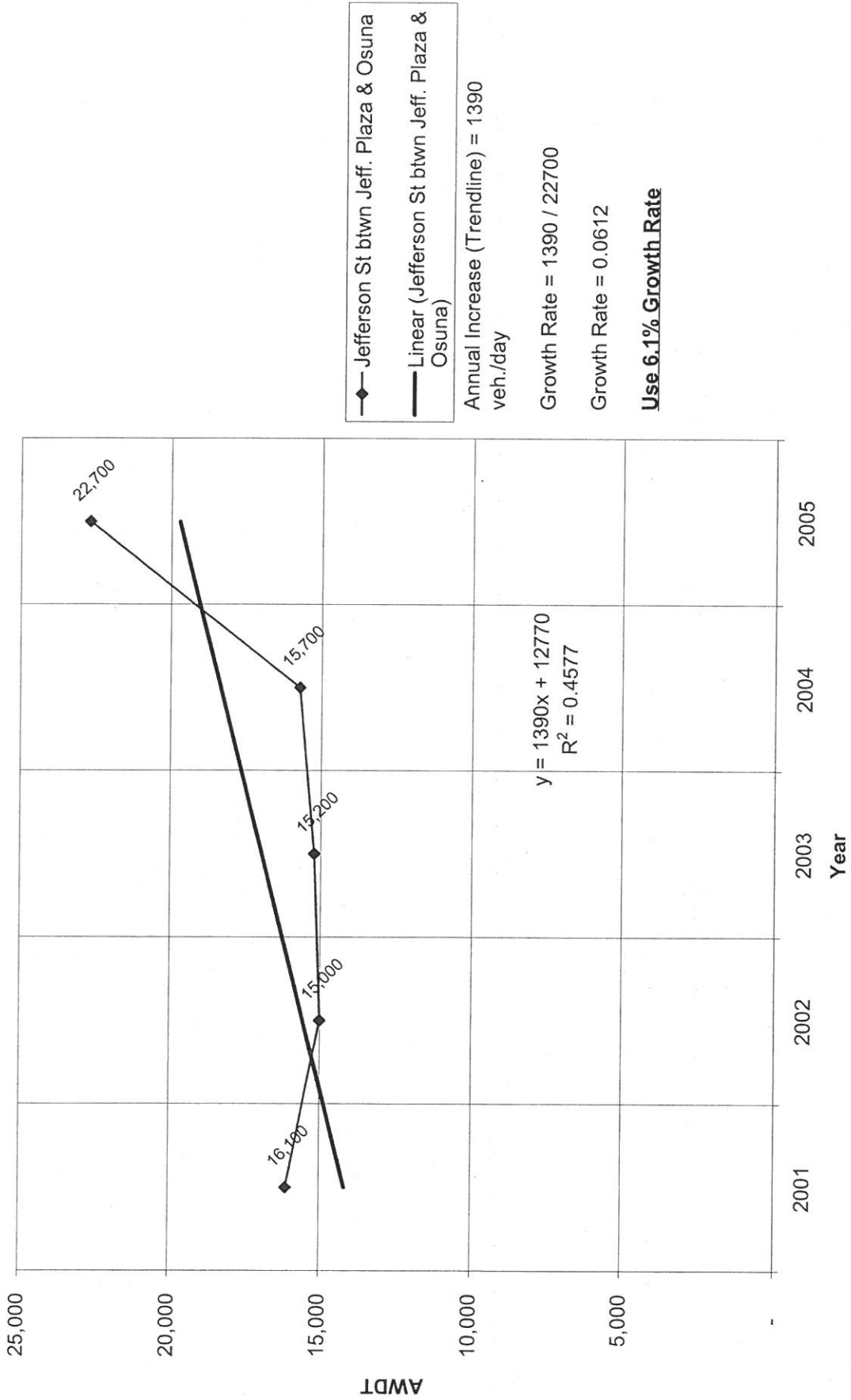
Historic Growth Chart Singer Blvd West of Jefferson St (2003-2005)



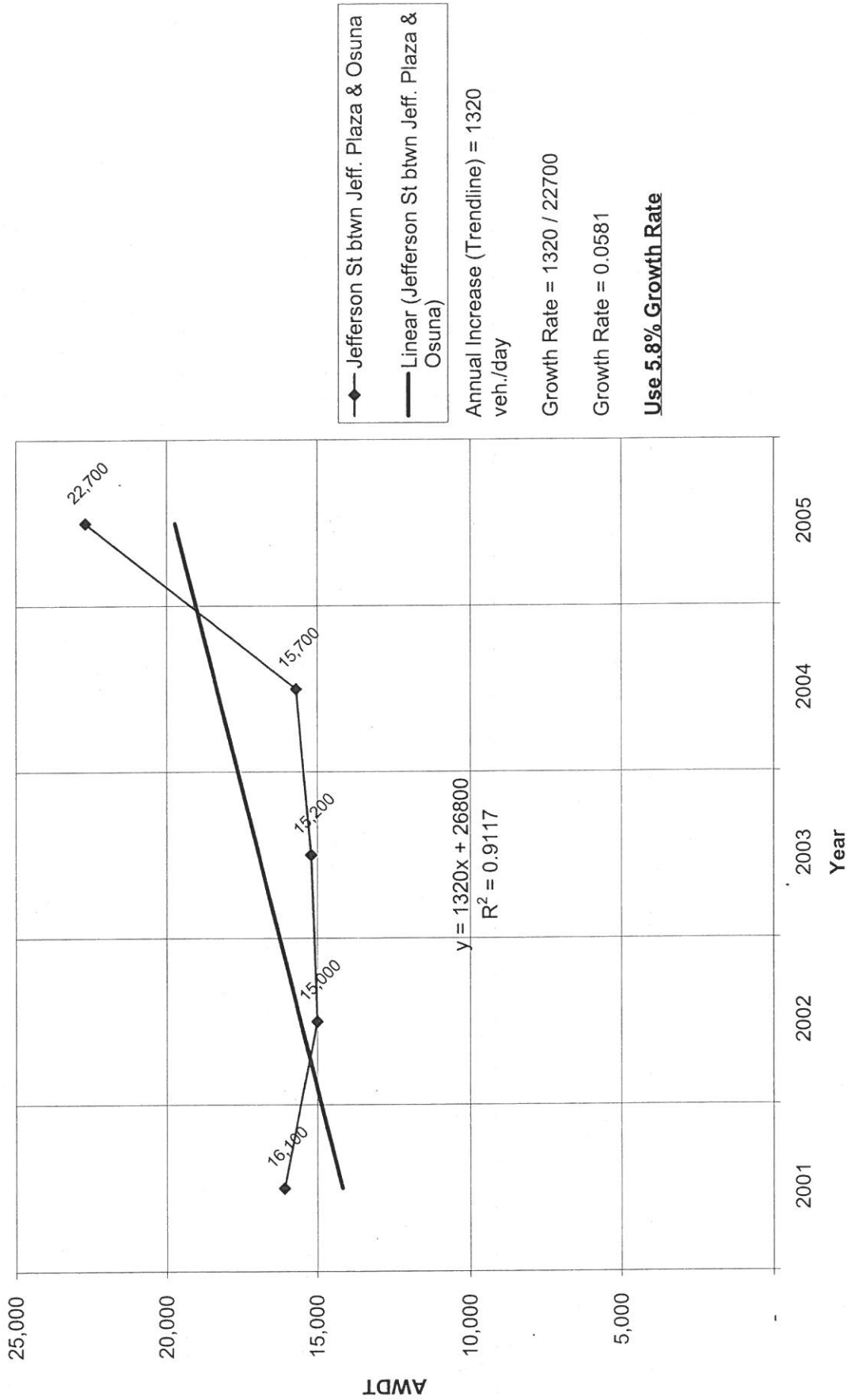
Growth Rate is negative - DO NOT USE

Use -% Growth Rate

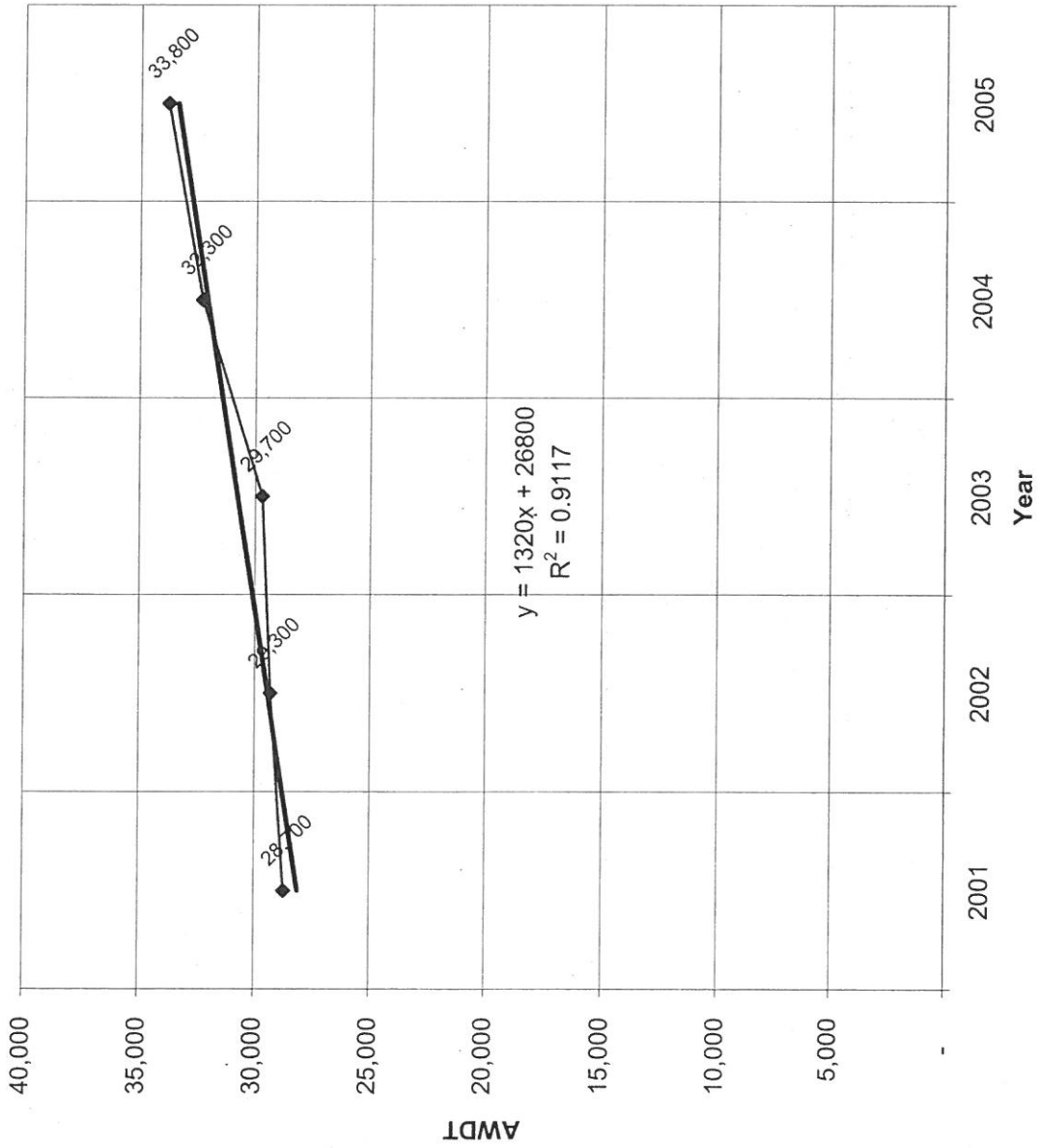
Historic Growth Chart Jefferson St btwn Singer & Jeff. Plaza (2001-2005)



Historic Growth Chart Jefferson St btwn Jeff. Plaza & Osuna (2001-2005)



Historic Growth Chart Osuna Blvd West of Jefferson St (2001-2005)



◆ Osuna Blvd West of Jefferson St
 — Linear (Osuna Blvd West of Jefferson St)

Annual Increase (Trendline) = 1320 veh./day

Growth Rate = 1320 / 33800

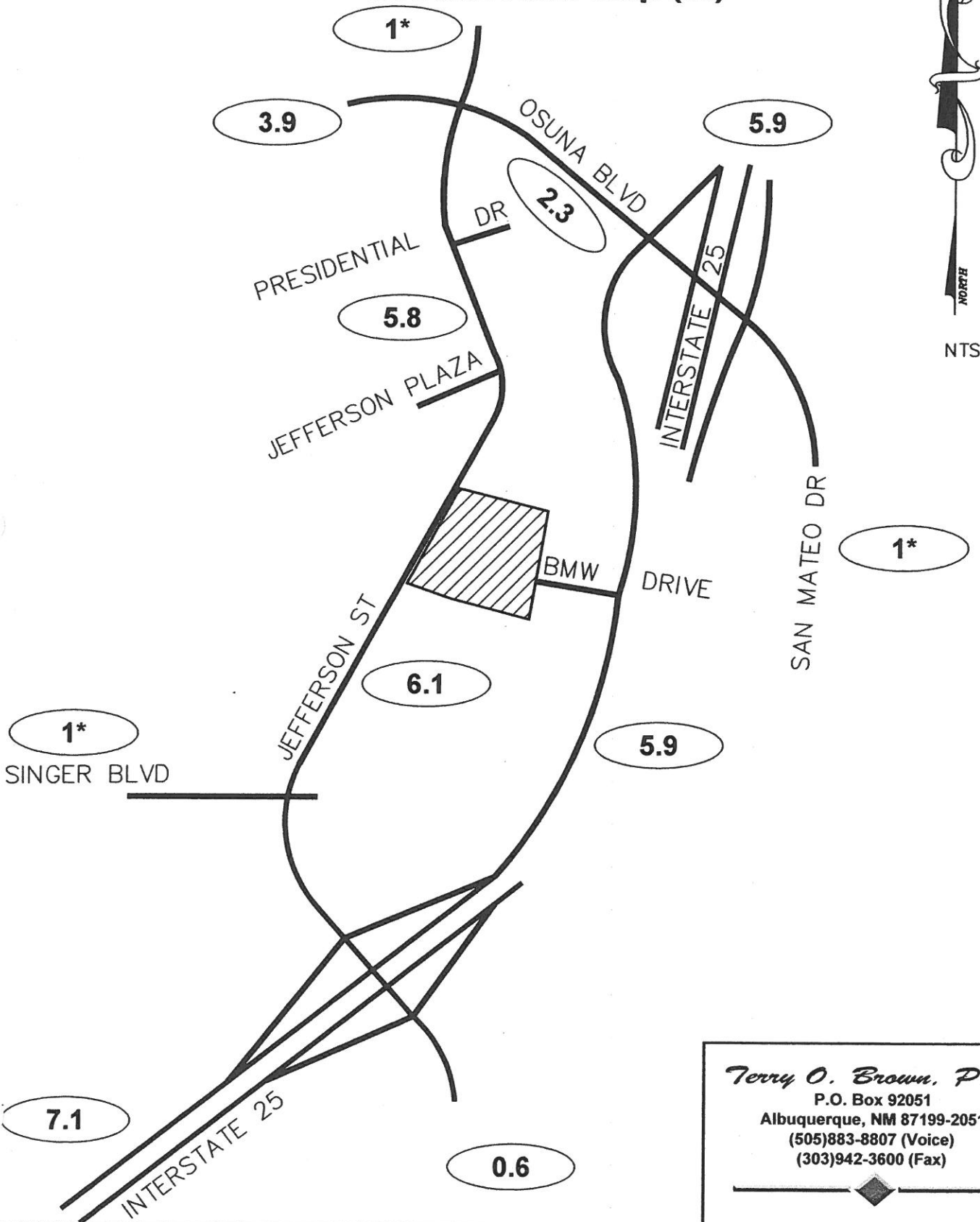
Growth Rate = 0.0390

Use 3.9% Growth Rate

Fraternal Order of Police

Bear Canyon Arroyo / Jefferson St

Growth Rate Map (%)



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Fraternal Order of Police (Bear Canyon Arroyo / Jefferson St)
 Projected Turning Movements SUMMARY
PROPOSED DEVELOPMENT (2009) - 100% Development

INTERSECTION: Summary

Singer Ave / Jefferson St

(1) 3.5% Truck
 Existing (2006)
 2009 (NO BUILD - A.M.)
 2009 (BUILD - A.M.)

0.80			0.75			0.89			0.83			PHF
Eastbound (Singer Ave)			Westbound (Singer Ave)			Northbound (Jefferson St)			Southbound (Jefferson St)			
Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
146	28	203	57	19	21	415	678	286	36	411	142	
151	29	209	58	20	22	427	698	294	42	481	167	
158	29	209	58	20	22	427	827	294	42	502	169	

Existing (2006)
 2009 (NO BUILD - P.M.)
 2009 (BUILD - P.M.)

0.70			0.75			0.91			0.86			PHF
Eastbound (Singer Ave)			Westbound (Singer Ave)			Northbound (Jefferson St)			Southbound (Jefferson St)			
Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
214	64	432	195	35	54	212	390	158	30	629	142	
220	66	445	201	36	55	218	401	162	35	738	167	
222	66	445	201	36	55	218	498	162	35	800	174	

Jefferson St / I-25 W. ramp

(2) 5.6% Truck
 Existing (2006)
 2009 (NO BUILD - A.M.)
 2009 (BUILD - A.M.)

0.86			0.85			0.85			0.73			PHF
Eastbound (Jefferson St)			Westbound (Jefferson St)			Northbound (I-25 W. ramp)			Southbound (I-25 W. ramp)			
Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
0	416	236	243	1,697	0	0	0	0	266	426	179	
0	432	243	252	1,748	0	0	0	0	314	497	209	
0	446	250	252	1,877	0	0	0	0	335	507	209	

Existing (2006)
 2009 (NO BUILD - P.M.)
 2009 (BUILD - P.M.)

0.94			0.96			0.85			0.97			PHF
Eastbound (Jefferson St)			Westbound (Jefferson St)			Northbound (I-25 W. ramp)			Southbound (I-25 W. ramp)			
Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
0	744	523	275	955	0	0	0	0	305	617	121	
0	774	539	286	987	0	0	0	0	364	721	141	
0	805	570	286	1,084	0	0	0	0	409	769	141	

Jefferson St / I-25 E. ramp

(3) 3.7% Truck
 Existing (2006)
 2009 (NO BUILD - A.M.)
 2009 (BUILD - A.M.)

0.83			0.75			0.87			0.85			PHF
Eastbound (Jefferson St)			Westbound (Jefferson St)			Northbound (I-25 E. ramp)			Southbound (I-25 E. ramp)			
Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
53	444	0	0	476	120	693	312	144	0	0	0	
54	465	0	0	486	125	831	374	172	0	0	0	
54	500	0	0	545	125	900	374	172	0	0	0	

Existing (2006)
 2009 (NO BUILD - P.M.)
 2009 (BUILD - P.M.)

0.84			0.95			0.95			0.85			PHF
Eastbound (Jefferson St)			Westbound (Jefferson St)			Northbound (I-25 E. ramp)			Southbound (I-25 E. ramp)			
Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
319	680	0	0	449	259	470	508	199	0	0	0	
329	714	0	0	463	271	564	609	239	0	0	0	
329	790	0	0	530	271	594	609	239	0	0	0	

San Mateo Blvd / I-25 E. ramp

(4) 4.4% Truck
 Existing (2006)
 2009 (NO BUILD - A.M.)
 2009 (BUILD - A.M.)

0.79			0.86			0.84			0.85			PHF
Eastbound (San Mateo Blvd)			Westbound (San Mateo Blvd)			Northbound (I-25 E. ramp)			Southbound (I-25 E. ramp)			
Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
177	1,321	0	0	2,447	522	405	292	237	0	0	0	
189	1,410	0	0	2,520	538	472	341	277	0	0	0	
202	1,429	0	0	2,555	538	472	341	277	0	0	0	

Existing (2006)
 2009 (NO BUILD - P.M.)
 2009 (BUILD - P.M.)

0.96			0.94			0.97			0.85			PHF
Eastbound (San Mateo Blvd)			Westbound (San Mateo Blvd)			Northbound (I-25 E. ramp)			Southbound (I-25 E. ramp)			
Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
305	1,776	0	0	1,788	884	256	632	367	0	0	0	
325	1,896	0	0	1,841	910	299	738	429	0	0	0	
366	1,940	0	0	1,877	910	299	738	429	0	0	0	

Fraternal Order of Police (Bear Canyon Arroyo / Jefferson St)
 Projected Turning Movements SUMMARY
PROPOSED DEVELOPMENT (2009) - 100% Development

INTERSECTION: Summary

Osuna Rd / I-25 W. ramp

(5) 4.1% Truck
 Existing (2006)
 2009 (NO BUILD - A.M.)
 2009 (BUILD - A.M.)

0.83			0.90			0.85			0.83			PHF
Eastbound (Osuna Rd)			Westbound (Osuna Rd)			Northbound (I-25 W. ramp)			Southbound (I-25 W. ramp)			
Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
0	1,355	412	711	1,275	0	0	0	0	202	320	205	
0	1,447	440	759	1,361	0	0	0	0	236	373	240	
0	1,479	440	780	1,375	0	0	0	0	236	393	254	

Existing (2006)
 2009 (NO BUILD - P.M.)
 2009 (BUILD - P.M.)

0.84			0.89			0.85			0.86			PHF
Eastbound (Osuna Rd)			Westbound (Osuna Rd)			Northbound (I-25 W. ramp)			Southbound (I-25 W. ramp)			
Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
0	1,736	482	495	1,211	0	0	0	0	164	193	154	
0	1,853	514	529	1,293	0	0	0	0	192	225	179	
0	1,938	514	551	1,307	0	0	0	0	192	240	189	

Osuna Rd / Jefferson St

(6) 6.1% Truck
 Existing (2006)
 2009 (NO BUILD - A.M.)
 2009 (BUILD - A.M.)

0.88			0.87			0.91			0.87			PHF
Eastbound (Osuna Rd)			Westbound (Osuna Rd)			Northbound (Jefferson St)			Southbound (Jefferson St)			
Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
254	1,165	166	190	963	274	136	253	47	201	381	163	
306	1,382	187	203	1,121	292	160	293	54	207	393	193	
306	1,382	198	231	1,121	292	167	306	86	207	423	193	

Existing (2006)
 2009 (NO BUILD - P.M.)
 2009 (BUILD - P.M.)

0.94			0.91			0.90			0.79			PHF
Eastbound (Osuna Rd)			Westbound (Osuna Rd)			Northbound (Jefferson St)			Southbound (Jefferson St)			
Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
267	1,603	87	92	1,063	210	325	622	295	342	349	309	
323	1,878	100	98	1,232	224	378	719	341	352	359	345	
323	1,878	114	122	1,232	224	393	754	426	352	382	345	

Presidential Dr / Jefferson St

(7) 3.0% Truck
 Existing (2006)
 2009 (NO BUILD - A.M.)
 2009 (BUILD - A.M.)

0.85			0.85			0.90			0.94			PHF
Eastbound (Presidential Dr)			Westbound (Presidential Dr)			Northbound (Jefferson St)			Southbound (Jefferson St)			
Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
0	0	0	60	0	11	0	549	9	11	795	0	
0	0	0	70	0	13	0	645	11	13	933	0	
0	0	0	70	0	13	0	697	11	13	1,002	0	

Existing (2006)
 2009 (NO BUILD - P.M.)
 2009 (BUILD - P.M.)

0.85			0.85			0.85			0.89			PHF
Eastbound (Presidential Dr)			Westbound (Presidential Dr)			Northbound (Jefferson St)			Southbound (Jefferson St)			
Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
0	0	0	29	0	21	0	737	21	61	527	0	
0	0	0	34	0	25	0	865	25	72	619	0	
0	0	0	34	0	25	0	1,001	25	72	681	0	

Jefferson Plaza / Jefferson St

(8) 3.0% Truck
 Existing (2006)
 2009 (NO BUILD - A.M.)
 2009 (BUILD - A.M.)

0.81			0.75			0.94			0.77			PHF
Eastbound (Jefferson Plaza)			Westbound (Jefferson Plaza)			Northbound (Jefferson St)			Southbound (Jefferson St)			
Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
10	2	14	0	4	8	59	661	9	10	766	89	
12	2	16	0	5	9	69	776	11	12	899	104	
12	2	17	0	5	9	69	828	11	12	968	104	

Existing (2006)
 2009 (NO BUILD - P.M.)
 2009 (BUILD - P.M.)

0.75			0.75			0.94			0.87			PHF
Eastbound (Jefferson Plaza)			Westbound (Jefferson Plaza)			Northbound (Jefferson St)			Southbound (Jefferson St)			
Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
50	0	28	5	0	7	7	730	4	8	756	12	
59	0	33	6	0	8	8	857	5	9	888	14	
59	0	33	6	0	8	9	993	5	9	950	14	

Fraternal Order of Police (Bear Canyon Arroyo / Jefferson St)
 Projected Turning Movements SUMMARY
PROPOSED DEVELOPMENT (2009) - 100% Development

INTERSECTION: Summary

BMW Drive / I-25 W. ramp

(9) 3.0% Truck
 Existing (2006)
 2009 (NO BUILD - A.M.)
 2009 (BUILD - A.M.)

0.75			0.85			0.85			0.77			PHF
Eastbound (BMW Drive)			Westbound (BMW Drive)			Northbound (I-25 W. ramp)			Southbound (I-25 W. ramp)			
Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
0	0	14	0	0	0	0	0	0	0	377	16	
0	0	16	0	0	0	0	0	0	0	444	19	
0	0	47	0	0	0	0	0	0	0	444	61	

Existing (2006)
 2009 (NO BUILD - P.M.)
 2009 (BUILD - P.M.)

0.75			0.85			0.85			0.75			PHF
Eastbound (BMW Drive)			Westbound (BMW Drive)			Northbound (I-25 W. ramp)			Southbound (I-25 W. ramp)			
Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
0	0	55	0	0	0	0	0	0	0	481	6	
0	0	65	0	0	0	0	0	0	0	566	7	
0	0	158	0	0	0	0	0	0	0	566	43	

Driveway "A" / Jefferson St

(10) 3.0% Truck
 Existing (2006)
 2009 (NO BUILD - A.M.)
 2009 (BUILD - A.M.)

0.85			0.85			0.94			0.94			PHF
Eastbound (Driveway "A")			Westbound (Driveway "A")			Northbound (Jefferson St)			Southbound (Jefferson St)			
Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
0	0	0	0	0	0	0	729	0	0	780	0	
0	0	0	0	0	0	0	862	0	0	923	0	
0	0	0	0	0	15	0	898	2	0	993	0	

Existing (2006)
 2009 (NO BUILD - P.M.)
 2009 (BUILD - P.M.)

0.85			0.85			0.94			0.94			PHF
Eastbound (Driveway "A")			Westbound (Driveway "A")			Northbound (Jefferson St)			Southbound (Jefferson St)			
Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
0	0	0	0	0	0	0	741	0	0	789	0	
0	0	0	0	0	0	0	877	0	0	933	0	
0	0	0	0	0	41	0	973	2	0	995	0	

Fraternal Order of Police (Bear Canyon Arroyo / Jefferson St)
 Projected Turning Movements SUMMARY
PROPOSED DEVELOPMENT (2009) - 100% Development

INTERSECTION: Summary

Driveway 'B' / Jefferson St (11)
3.0% Truck

0.85			0.85			0.94			0.94			PHF
Eastbound (Driveway 'B')			Westbound (Driveway 'B')			Northbound (Jefferson St)			Southbound (Jefferson St)			
Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
Existing (2006)	9	0	14	0	0	0	11	729	0	0	780	7
2009 (NO BUILD - A.M.)	11	0	17	0	0	0	13	862	0	0	923	8
2009 (BUILD - A.M.)	11	0	17	22	0	31	13	869	85	70	923	8

0.85			0.85			0.94			0.94			PHF
Eastbound (Driveway 'B')			Westbound (Driveway 'B')			Northbound (Jefferson St)			Southbound (Jefferson St)			
Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
Existing (2006)	25	0	45	0	0	0	40	741	0	0	789	30
2009 (NO BUILD - P.M.)	30	0	53	0	0	0	47	877	0	0	933	35
2009 (BUILD - P.M.)	30	0	53	69	0	82	47	892	63	62	933	35

Driveway 'C' / Jefferson St (12)
3.0% Truck

0.85			0.85			0.94			0.94			PHF
Eastbound (Driveway 'C')			Westbound (Driveway 'C')			Northbound (Jefferson St)			Southbound (Jefferson St)			
Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
Existing (2006)	0	0	0	0	0	0	0	729	0	0	780	0
2009 (NO BUILD - A.M.)	0	0	0	0	0	0	0	862	0	0	923	0
2009 (BUILD - A.M.)	0	0	0	0	0	5	0	949	47	0	945	0

0.85			0.85			0.94			0.94			PHF
Eastbound (Driveway 'C')			Westbound (Driveway 'C')			Northbound (Jefferson St)			Southbound (Jefferson St)			
Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
Existing (2006)	0	0	0	0	0	0	0	741	0	0	789	0
2009 (NO BUILD - P.M.)	0	0	0	0	0	0	0	877	0	0	933	0
2009 (BUILD - P.M.)	0	0	0	0	0	13	0	942	35	0	1,002	0

Fraternal Order of Police (Bear Canyon Arroyo / Jefferson St)
 Projected Turning Movements Worksheet
Singer Ave / Jefferson St

INTERSECTION: E-W Street: **Singer Ave** (1)
 N-S Street: **Jefferson St**
 Year of Existing Counts: 2005
 Implementation Year: 2009

Growth Rates

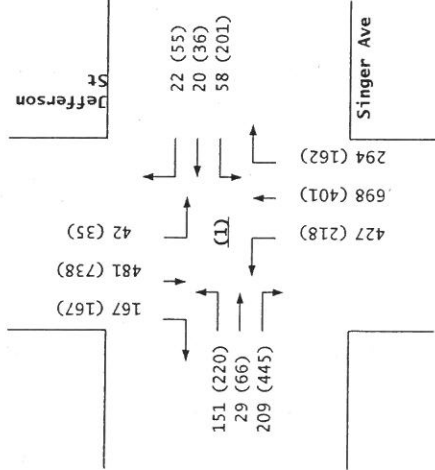
	1.00%			1.00%			1.00%			6.10%		
	Eastbound (Singer Ave)			Westbound (Singer Ave)			Northbound (Jefferson St)			Southbound (Jefferson St)		
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Existing Volumes	145	28	201	56	19	21	411	671	283	34	387	134
Background Traffic Growth	6	1	8	2	1	1	16	27	11	8	94	33
Subtotal (NO BUILD - A.M.)	151	29	209	58	20	22	427	698	294	42	481	167
Percent Commercial Trips Generated(Entering)	0.67%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	48.12%	0.00%	0.00%	0.00%	0.00%
Percent Commercial Trips Generated(Exiting)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	19.25%	0.67%
Percent Office Trips Generated(Entering)	4.03%	0.00%	0.00%	0.00%	0.00%	0.07%	0.00%	55.22%	0.00%	0.00%	0.00%	0.00%
Percent Office Trips Generated(Exiting)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.07%	22.09%	4.03%
Total Trips Generated	7	0	0	0	0	0	0	129	0	0	21	2
Total AM Peak Hour BUILD Volumes	158	29	209	58	20	22	427	827	294	42	502	169

	1.00%			1.00%			1.00%			6.10%		
	Eastbound (Singer Ave)			Westbound (Singer Ave)			Northbound (Jefferson St)			Southbound (Jefferson St)		
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Existing Volumes	212	63	428	193	35	53	210	386	156	28	593	134
Background Traffic Growth	8	3	17	8	1	2	8	15	6	7	145	33
Subtotal (NO BUILD - P.M.)	220	66	445	201	36	55	218	401	162	35	738	167
Percent Commercial Trips Generated(Entering)	0.67%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	48.12%	0.00%	0.00%	0.00%	0.00%
Percent Commercial Trips Generated(Exiting)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	19.25%	0.67%
Percent Office Trips Generated(Entering)	4.03%	0.00%	0.00%	0.00%	0.00%	0.07%	0.00%	55.22%	0.00%	0.00%	0.00%	0.00%
Percent Office Trips Generated(Exiting)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.07%	22.09%	4.03%
Total Trips Generated	2	0	0	0	0	0	0	97	0	0	62	7
Total PM Peak Hour BUILD Volumes	222	66	445	201	36	55	218	498	162	35	800	174

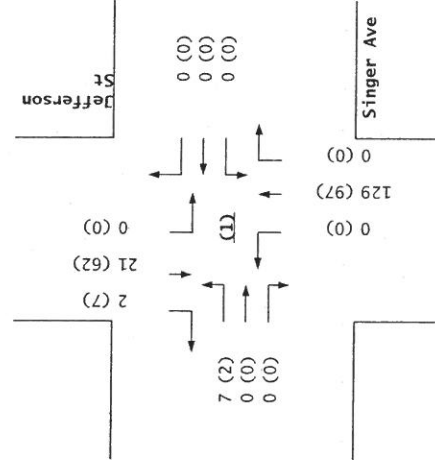
Number of Commercial Trips Generated	Entering	Exiting	
	105	88	A.M. 100% Commercial Development
	169	145	P.M.
Number of Office Trips Generated	Entering	Exiting	
	141	17	A.M. 100% Office Development
	29	154	P.M.

	1.00%			1.00%			1.00%			6.10%		
	Eastbound (Singer Ave)			Westbound (Singer Ave)			Northbound (Jefferson St)			Southbound (Jefferson St)		
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
2006 AM Peak Hr. Volumes	146	28	203	57	19	21	415	678	286	36	411	142
2006 PM Peak Hr. Volumes	214	64	432	195	35	54	212	390	158	30	629	142

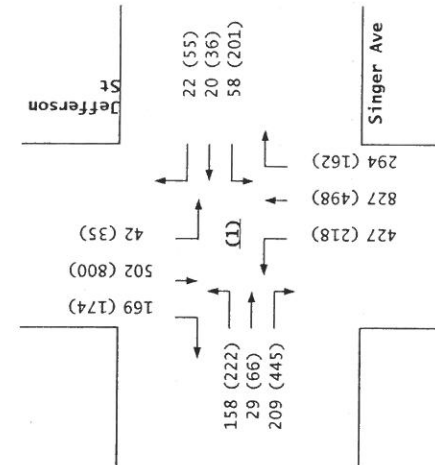
2009
NO BUILD



Trips



2009
BUILD



Singer Ave / Jefferson St

Fraternal Order of Police (Bear Canyon Arroyo / Jefferson St)
 Projected Turning Movements Worksheet
Jefferson St / I-25 W. ramp

INTERSECTION : E-W Street: **Jefferson St** (2)
 N-S Street: **I-25 W. ramp**
 Year of Existing Counts: 2005
 Implementation Year: 2009
 Growth Rates: 1.00% 1.00% 7.10% 5.90%

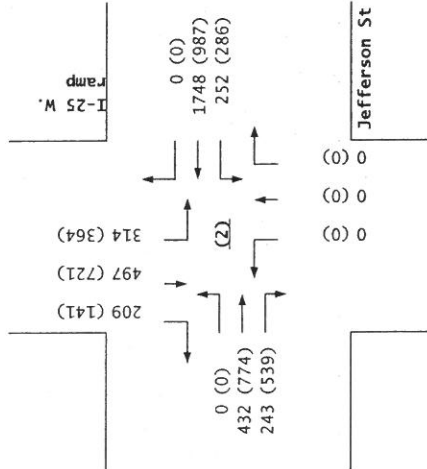
	Eastbound (Jefferson St)			Westbound (Jefferson St)			Northbound (I-25 W. ramp)			Southbound (I-25 W. ramp)		
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Existing Volumes	0	412	234	241	1,680	0	0	0	0	251	402	169
Background Traffic Growth	0	16	9	10	67	0	0	0	0	59	95	40
Subtotal	0	428	243	251	1,747	0	0	0	0	310	497	209
Jefferson Pointe	0	4	0	1	1	0	0	0	0	4	0	0
Subtotal (NO BUILD - A.M.)	0	432	243	252	1,748	0	0	0	0	314	497	209
Percent Commercial Trips Generated(Entering)	0.00%	0.00%	0.00%	0.00%	48.12%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Percent Commercial Trips Generated(Exiting)	0.00%	14.98%	4.27%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	22.23%	6.64%	0.00%
Percent Office Trips Generated(Entering)	0.00%	0.00%	0.00%	0.00%	55.22%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Percent Office Trips Generated(Exiting)	0.00%	5.62%	16.47%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	8.42%	24.71%	0.00%
Total Trips Generated	0	14	7	0	129	0	0	0	0	21	10	0
Total AM Peak Hour BUILD Volumes	0	446	250	252	1,877	0	0	0	0	335	507	209

	Eastbound (Jefferson St)			Westbound (Jefferson St)			Northbound (I-25 W. ramp)			Southbound (I-25 W. ramp)		
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Existing Volumes	0	737	518	272	946	0	0	0	0	288	583	114
Background Traffic Growth	0	29	21	11	38	0	0	0	0	68	138	27
Subtotal	0	766	539	283	984	0	0	0	0	356	721	141
Jefferson Pointe	0	8	0	3	3	0	0	0	0	8	0	0
Subtotal (NO BUILD - P.M.)	0	774	539	286	987	0	0	0	0	364	721	141
Percent Commercial Trips Generated(Entering)	0.00%	0.00%	0.00%	0.00%	48.12%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Percent Commercial Trips Generated(Exiting)	0.00%	14.98%	4.27%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	22.23%	6.64%	0.00%
Percent Office Trips Generated(Entering)	0.00%	0.00%	0.00%	0.00%	55.22%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Percent Office Trips Generated(Exiting)	0.00%	5.62%	16.47%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	8.42%	24.71%	0.00%
Total Trips Generated	0	31	31	0	97	0	0	0	0	45	48	0
Total PM Peak Hour BUILD Volumes	0	805	570	286	1,084	0	0	0	0	409	769	141

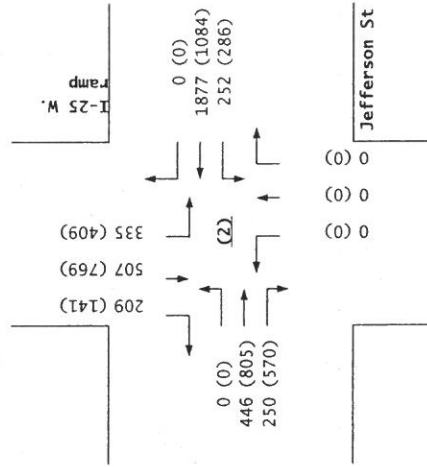
Number of Commercial Trips Generated: Entering 105, Exiting 88, A.M. 100% Commercial Development
 Number of Office Trips Generated: Entering 169, Exiting 145, P.M. 100% Office Development
 Number of Office Trips Generated: Entering 141, Exiting 17, A.M. 100% Office Development
 Number of Office Trips Generated: Entering 29, Exiting 154, P.M.

	Eastbound (Jefferson St)			Westbound (Jefferson St)			Northbound (I-25 W. ramp)			Southbound (I-25 W. ramp)		
2006 AM Peak Hr. Volumes	0	416	236	243	1,697	0	0	0	0	266	426	179
2006 PM Peak Hr. Volumes	0	744	523	275	955	0	0	0	0	305	617	121

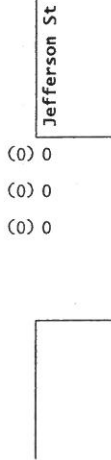
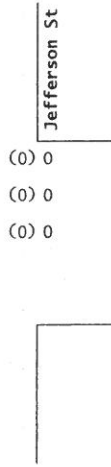
2009
NO BUILD



2009
BUILD



Jefferson St / I-25 W. ramp



Fraternal Order of Police (Bear Canyon Arroyo / Jefferson St)
 Projected Turning Movements Worksheet
Jefferson St / I-25 E. ramp

INTERSECTION : E-W Street: **Jefferson St** (3)
 N-S Street: **I-25 E. ramp**
 Year of Existing Counts: 2005
 Implementation Year: 2009
 Growth Rates: 1.00% 0.60% 7.10% 5.90%

	1.00%			0.60%			7.10%			5.90%		
	Eastbound (Jefferson St)			Westbound (Jefferson St)			Northbound (I-25 E. ramp)			Southbound (I-25 E. ramp)		
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Existing Volumes	52	440	0	0	473	119	647	291	134	0	0	0
Background Traffic Growth	2	18	0	0	11	3	184	83	38	0	0	0
Subtotal	54	458	0	0	484	122	831	374	172	0	0	0
Jefferson Pointe	0	7	0	0	2	3	0	0	0	0	0	0
Subtotal (NO BUILD - A.M.)	54	465	0	0	486	125	831	374	172	0	0	0
Percent Commercial Trips Generated(Entering)	0.00%	0.00%	0.00%	0.00%	37.21%	0.00%	10.91%	0.00%	0.00%	0.00%	0.00%	0.00%
Percent Commercial Trips Generated(Exiting)	0.00%	37.21%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Percent Office Trips Generated(Entering)	0.00%	0.00%	0.00%	0.00%	14.04%	0.00%	41.18%	0.00%	0.00%	0.00%	0.00%	0.00%
Percent Office Trips Generated(Exiting)	0.00%	14.04%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Total Trips Generated	0	35	0	0	59	0	69	0	0	0	0	0
Total AM Peak Hour BUILD Volumes	54	500	0	0	545	125	900	374	172	0	0	0

	1.00%			0.60%			7.10%			5.90%		
	Eastbound (Jefferson St)			Westbound (Jefferson St)			Northbound (I-25 E. ramp)			Southbound (I-25 E. ramp)		
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Existing Volumes	316	673	0	0	446	257	439	474	186	0	0	0
Background Traffic Growth	13	27	0	0	11	6	125	135	53	0	0	0
Subtotal	329	700	0	0	457	263	564	609	239	0	0	0
Jefferson Pointe	0	14	0	0	6	8	0	0	0	0	0	0
Subtotal (NO BUILD - P.M.)	329	714	0	0	463	271	564	609	239	0	0	0
Percent Commercial Trips Generated(Entering)	0.00%	0.00%	0.00%	0.00%	37.21%	0.00%	10.91%	0.00%	0.00%	0.00%	0.00%	0.00%
Percent Commercial Trips Generated(Exiting)	0.00%	37.21%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Percent Office Trips Generated(Entering)	0.00%	0.00%	0.00%	0.00%	14.04%	0.00%	41.18%	0.00%	0.00%	0.00%	0.00%	0.00%
Percent Office Trips Generated(Exiting)	0.00%	14.04%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Total Trips Generated	0	76	0	0	67	0	30	0	0	0	0	0
Total PM Peak Hour BUILD Volumes	329	790	0	0	530	271	594	609	239	0	0	0

Number of Commercial Trips Generated	Entering	Exiting		
	105	88	A.M.	100% Commercial Development
	169	145	P.M.	
Number of Office Trips Generated	141	17	A.M.	100% Office Development
	29	154	P.M.	

	1.00%			0.60%			7.10%			5.90%		
	Eastbound (Jefferson St)			Westbound (Jefferson St)			Northbound (I-25 E. ramp)			Southbound (I-25 E. ramp)		
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
2006 AM Peak Hr. Volumes	53	444	0	0	476	120	693	312	144	0	0	0
2006 PM Peak Hr. Volumes	319	680	0	0	449	259	470	508	199	0	0	0

Fraternal Order of Police (Bear Canyon Arroyo / Jefferson St)
 Projected Turning Movements Worksheet
San Mateo Blvd / I-25 E. ramp

INTERSECTION : E-W Street: **San Mateo Blvd** (4)
 N-S Street: **I-25 E. ramp**
 Year of Existing Counts: 2005
 Implementation Year: 2009

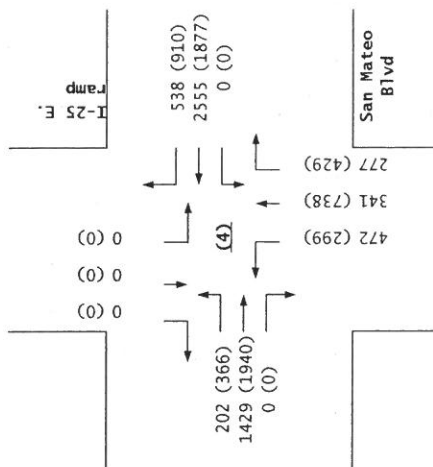
	2.30%			1.00%			5.90%			5.90%		
	Eastbound (San Mateo Blvd)			Westbound (San Mateo Blvd)			Northbound (I-25 E. ramp)			Southbound (I-25 E. ramp)		
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Existing Volumes	173	1,291	0	0	2,423	517	382	276	224	0	0	0
Background Traffic Growth	16	119	0	0	97	21	90	65	53	0	0	0
Subtotal (NO BUILD - A.M.)	189	1,410	0	0	2,520	538	472	341	277	0	0	0
Percent Commercial Trips Generated(Entering)	0.00%	0.00%	0.00%	0.00%	19.51%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Percent Commercial Trips Generated(Exiting)	11.85%	19.51%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Percent Office Trips Generated(Entering)	0.00%	0.00%	0.00%	0.00%	10.39%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Percent Office Trips Generated(Exiting)	15.41%	10.39%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Total Trips Generated	13	19	0	0	35	0	0	0	0	0	0	0
Total AM Peak Hour BUILD Volumes	202	1,429	0	0	2,555	538	472	341	277	0	0	0

	2.30%			1.00%			5.90%			5.90%		
	Eastbound (San Mateo Blvd)			Westbound (San Mateo Blvd)			Northbound (I-25 E. ramp)			Southbound (I-25 E. ramp)		
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Existing Volumes	298	1,736	0	0	1,770	875	242	597	347	0	0	0
Background Traffic Growth	27	160	0	0	71	35	57	141	82	0	0	0
Subtotal (NO BUILD - P.M.)	325	1,896	0	0	1,841	910	299	738	429	0	0	0
Percent Commercial Trips Generated(Entering)	0.00%	0.00%	0.00%	0.00%	19.51%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Percent Commercial Trips Generated(Exiting)	11.85%	19.51%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Percent Office Trips Generated(Entering)	0.00%	0.00%	0.00%	0.00%	10.39%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Percent Office Trips Generated(Exiting)	15.41%	10.39%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Total Trips Generated	41	44	0	0	36	0	0	0	0	0	0	0
Total PM Peak Hour BUILD Volumes	366	1,940	0	0	1,877	910	299	738	429	0	0	0

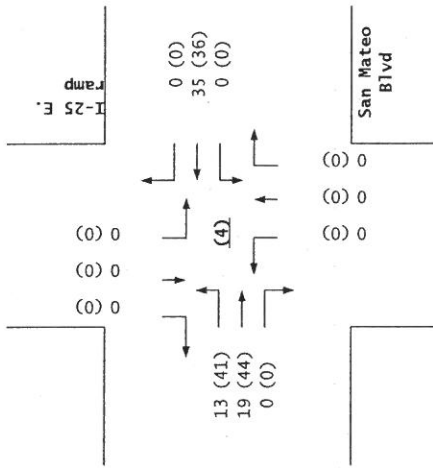
	Entering	Exiting		
Number of Commercial Trips Generated	105	88	A.M.	100% Commercial Development
	169	145	P.M.	
Number of Office Trips Generated	141	17	A.M.	100% Office Development
	29	154	P.M.	

	2.30%			1.00%			5.90%			5.90%		
	Eastbound (San Mateo Blvd)			Westbound (San Mateo Blvd)			Northbound (I-25 E. ramp)			Southbound (I-25 E. ramp)		
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
2006 AM Peak Hr. Volumes	177	1321	0	0	2,447	522	405	292	237	0	0	0
2006 PM Peak Hr. Volumes	305	1,776	0	0	1,788	884	256	632	367	0	0	0

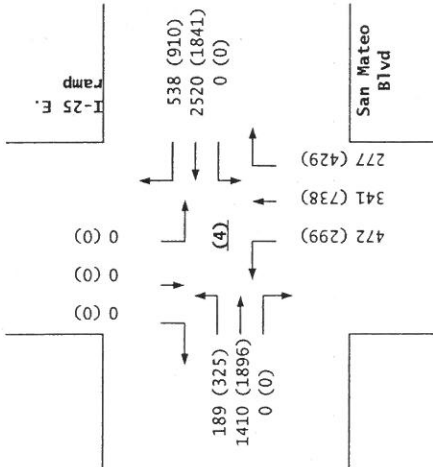
2009
BUILD



Trips



2009
NO BUILD



San Mateo Blvd / I-25 E. ramp

Fraternal Order of Police (Bear Canyon Arroyo / Jefferson St)
 Projected Turning Movements Worksheet
Osuna Rd / I-25 W. ramp

INTERSECTION : E-W Street: **Osuna Rd** (5)
 N-S Street: **I-25 W. ramp**
 Year of Existing Counts: **2005**
 Implementation Year: **2009**
 Growth Rates

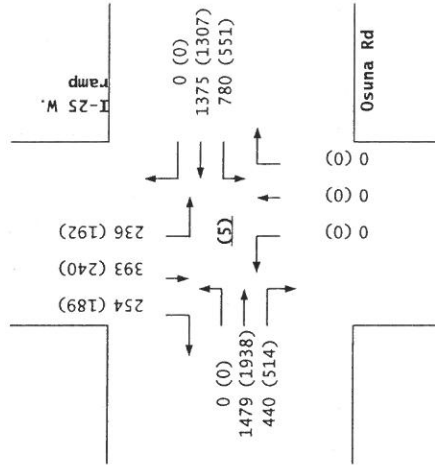
	2.30%			2.30%			5.90%			5.90%		
	Eastbound (Osuna Rd)			Westbound (Osuna Rd)			Northbound (I-25 W. ramp)			Southbound (I-25 W. ramp)		
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Existing Volumes	0	1,325	403	695	1,246	0	0	0	0	191	302	194
Background Traffic Growth	0	122	37	64	115	0	0	0	0	45	71	46
Subtotal (NO BUILD - A.M.)	0	1,447	440	759	1,361	0	0	0	0	236	373	240
Percent Commercial Trips Generated(Entering)	0.00%	0.00%	0.00%	11.71%	7.80%	0.00%	0.00%	0.00%	0.00%	0.00%	7.12%	4.73%
Percent Commercial Trips Generated(Exiting)	0.00%	31.36%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Percent Office Trips Generated(Entering)	0.00%	0.00%	0.00%	6.23%	4.16%	0.00%	0.00%	0.00%	0.00%	0.00%	9.25%	6.16%
Percent Office Trips Generated(Exiting)	0.00%	25.80%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Total Trips Generated	0	32	0	21	14	0	0	0	0	0	20	14
Total AM Peak Hour BUILD Volumes	0	1,479	440	780	1,375	0	0	0	0	236	393	254

	2.30%			2.30%			5.90%			5.90%		
	Eastbound (Osuna Rd)			Westbound (Osuna Rd)			Northbound (I-25 W. ramp)			Southbound (I-25 W. ramp)		
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Existing Volumes	0	1,697	471	484	1,184	0	0	0	0	155	182	145
Background Traffic Growth	0	156	43	45	109	0	0	0	0	37	43	34
Subtotal (NO BUILD - P.M.)	0	1,853	514	529	1,293	0	0	0	0	192	225	179
Percent Commercial Trips Generated(Entering)	0.00%	0.00%	0.00%	11.71%	7.80%	0.00%	0.00%	0.00%	0.00%	0.00%	7.12%	4.73%
Percent Commercial Trips Generated(Exiting)	0.00%	31.36%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Percent Office Trips Generated(Entering)	0.00%	0.00%	0.00%	6.23%	4.16%	0.00%	0.00%	0.00%	0.00%	0.00%	9.25%	6.16%
Percent Office Trips Generated(Exiting)	0.00%	25.80%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Total Trips Generated	0	85	0	22	14	0	0	0	0	0	15	10
Total PM Peak Hour BUILD Volumes	0	1,938	514	551	1,307	0	0	0	0	192	240	189

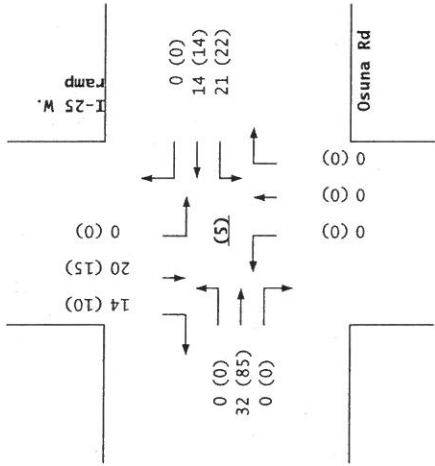
Number of Commercial Trips Generated: Entering 105, Exiting 88, A.M. 100% Commercial Development
 Number of Office Trips Generated: Entering 169, Exiting 145, P.M. 100% Office Development
 Entering 141, Exiting 17, A.M. 100% Office Development
 Entering 29, Exiting 154, P.M.

	2.30%			2.30%			5.90%			5.90%		
	Eastbound (Osuna Rd)			Westbound (Osuna Rd)			Northbound (I-25 W. ramp)			Southbound (I-25 W. ramp)		
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
2006 AM Peak Hr. Volumes	0	1355	412	711	1,275	0	0	0	0	202	320	205
2006 PM Peak Hr. Volumes	0	1,736	482	495	1,211	0	0	0	0	164	193	154

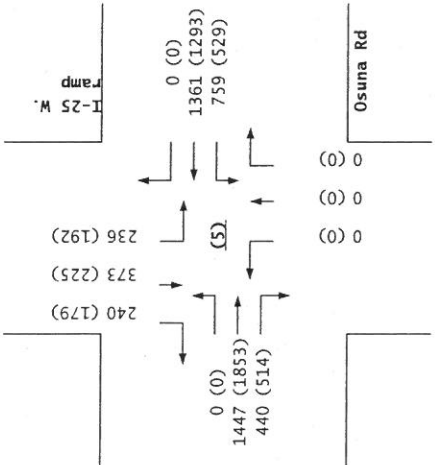
2009
BUILD



Trips



2009
NO BUILD



Osuna Rd / I-25 W. ramp

Fraternal Order of Police (Bear Canyon Arroyo / Jefferson St)
 Projected Turning Movements Worksheet
Osuna Rd / Jefferson St

INTERSECTION : E-W Street: **Osuna Rd** (6)
 N-S Street: **Jefferson St**
 Year of Existing Counts: 2004
 Implementation Year: 2009

Growth Rates: 3.90% 2.30% 5.80% 1.00%

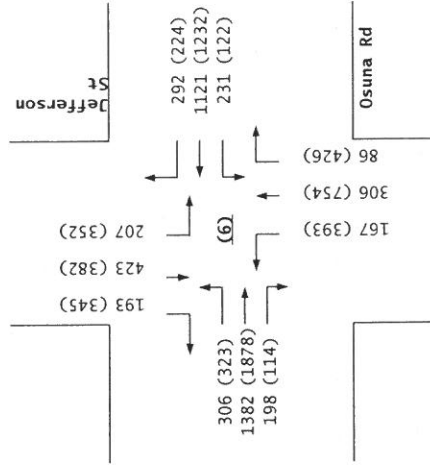
	Eastbound (Osuna Rd)			Westbound (Osuna Rd)			Northbound (Jefferson St)			Southbound (Jefferson St)		
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Existing Volumes	236	1,081	154	182	921	262	122	227	42	197	374	160
Background Traffic Growth	46	211	30	21	106	30	35	66	12	10	19	8
<i>Subtotal</i>	282	1,292	184	203	1,027	292	157	293	54	207	393	168
Vista del Norte Commercial Trips	24	90	3	0	94	0	3	0	0	0	0	25
Subtotal (NO BUILD - A.M.)	306	1,382	187	203	1,121	292	160	293	54	207	393	193
Percent Commercial Trips Generated(Entering)	0.00%	0.00%	7.83%	12.53%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	12.01%	0.00%
Percent Commercial Trips Generated(Exiting)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	7.83%	12.01%	31.36%	0.00%	0.00%	0.00%
Percent Office Trips Generated(Entering)	0.00%	0.00%	2.41%	10.32%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	11.87%	0.00%
Percent Office Trips Generated(Exiting)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	2.41%	11.87%	25.80%	0.00%	0.00%	0.00%
Total Trips Generated	0	0	11	28	0	0	7	13	32	0	30	0
Total AM Peak Hour BUILD Volumes	306	1,382	198	231	1,121	292	167	306	86	207	423	193

	Eastbound (Osuna Rd)			Westbound (Osuna Rd)			Northbound (Jefferson St)			Southbound (Jefferson St)		
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Existing Volumes	248	1,487	81	88	1,016	201	291	557	264	335	342	303
Background Traffic Growth	48	290	16	10	117	23	84	162	77	17	17	15
<i>Subtotal</i>	296	1,777	97	98	1,133	224	375	719	341	352	359	318
Vista del Norte Commercial Trips	27	101	3	0	99	0	3	0	0	0	0	27
Subtotal (NO BUILD - P.M.)	323	1,878	100	98	1,232	224	378	719	341	352	359	345
Percent Commercial Trips Generated(Entering)	0.00%	0.00%	7.83%	12.53%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	12.01%	0.00%
Percent Commercial Trips Generated(Exiting)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	7.83%	12.01%	31.36%	0.00%	0.00%	0.00%
Percent Office Trips Generated(Entering)	0.00%	0.00%	2.41%	10.32%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	11.87%	0.00%
Percent Office Trips Generated(Exiting)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	2.41%	11.87%	25.80%	0.00%	0.00%	0.00%
Total Trips Generated	0	0	14	24	0	0	15	35	85	0	23	0
Total PM Peak Hour BUILD Volumes	323	1,878	114	122	1,232	224	393	754	426	352	382	345

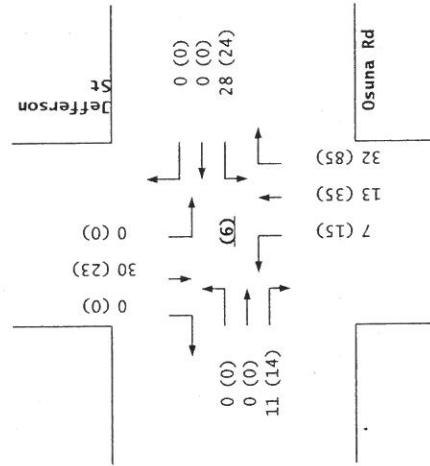
Number of Commercial Trips Generated: Entering 105, Exiting 88 A.M. 100% Commercial Development
 169, 145 P.M.
 Number of Office Trips Generated: 141, 17 A.M. 100% Office Development
 29, 154 P.M.

	Eastbound (Osuna Rd)			Westbound (Osuna Rd)			Northbound (Jefferson St)			Southbound (Jefferson St)		
2006 AM Peak Hr. Volumes	254	1165	166	190	963	274	136	253	47	201	381	163
2006 PM Peak Hr. Volumes	267	1,603	87	92	1,063	210	325	622	295	342	349	309

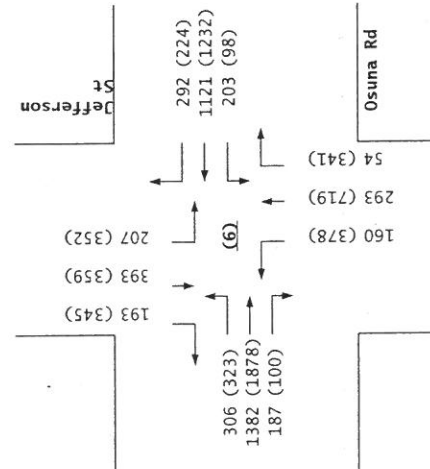
2009
BUILD



Trips



2009
NO BUILD



Osuna Rd / Jefferson St

Fraternal Order of Police (Bear Canyon Arroyo / Jefferson St)
 Projected Turning Movements Worksheet
Presidential Dr / Jefferson St

INTERSECTION : E-W Street: **Presidential Dr** (7)
 N-S Street: **Jefferson St**
 Year of Existing Counts: 2006
 Implementation Year: 2009
 Growth Rates

	5.80%			5.80%			5.80%			5.80%		
	Eastbound (Presidential Dr)			Westbound (Presidential Dr)			Northbound (Jefferson St)			Southbound (Jefferson St)		
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Existing Volumes	0	0	0	60	0	11	0	549	9	11	795	0
Background Traffic Growth	0	0	0	10	0	2	0	96	2	2	138	0
Subtotal (NO BUILD - A.M.)	0	0	0	70	0	13	0	645	11	13	933	0
Percent Commercial Trips Generated(Entering)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	32.37%	0.00%
Percent Commercial Trips Generated(Exiting)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	51.02%	0.00%	0.00%	0.00%	0.00%
Percent Office Trips Generated(Entering)	0.00%	0.00%	0.00%	0.20%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	24.60%	0.00%
Percent Office Trips Generated(Exiting)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	40.08%	0.20%	0.00%	0.00%	0.00%
Total Trips Generated	0	0	0	0	0	0	0	52	0	0	69	0
Total AM Peak Hour BUILD Volumes	0	0	0	70	0	13	0	697	11	13	1,002	0

	5.80%			5.80%			5.80%			5.80%		
	Eastbound (Presidential Dr)			Westbound (Presidential Dr)			Northbound (Jefferson St)			Southbound (Jefferson St)		
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Existing Volumes	0	0	0	29	0	21	0	737	21	61	527	0
Background Traffic Growth	0	0	0	5	0	4	0	128	4	11	92	0
Subtotal (NO BUILD - P.M.)	0	0	0	34	0	25	0	865	25	72	619	0
Percent Commercial Trips Generated(Entering)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	32.37%	0.00%
Percent Commercial Trips Generated(Exiting)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	51.02%	0.00%	0.00%	0.00%	0.00%
Percent Office Trips Generated(Entering)	0.00%	0.00%	0.00%	0.20%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	24.60%	0.00%
Percent Office Trips Generated(Exiting)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	40.08%	0.20%	0.00%	0.00%	0.00%
Total Trips Generated	0	0	0	0	0	0	0	136	0	0	62	0
Total PM Peak Hour BUILD Volumes	0	0	0	34	0	25	0	1,001	25	72	681	0

Number of Commercial Trips Generated: Entering 105, Exiting 88, A.M. 100% Commercial Development
 Number of Office Trips Generated: Entering 141, Exiting 17, A.M. 100% Office Development
 Entering 29, Exiting 154, P.M.

	5.80%			5.80%			5.80%			5.80%		
	Eastbound (Presidential Dr)			Westbound (Presidential Dr)			Northbound (Jefferson St)			Southbound (Jefferson St)		
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
2006 AM Peak Hr. Volumes	0	0	0	60	0	11	0	549	9	11	795	0
2006 PM Peak Hr. Volumes	0	0	0	29	0	21	0	737	21	61	527	0

Fraternal Order of Police (Bear Canyon Arroyo / Jefferson St)
 Projected Turning Movements Worksheet
Jefferson Plaza / Jefferson St

INTERSECTION : E-W Street: **Jefferson Plaza** (8)
 N-S Street: **Jefferson St**
 Year of Existing Counts: 2006
 Implementation Year: 2009
 Growth Rates: 5.80% 5.80% 5.80% 5.80%

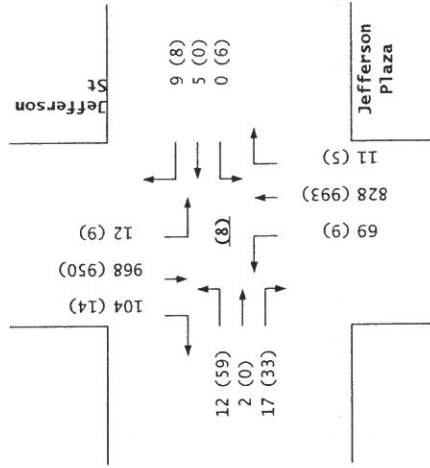
	5.80%			5.80%			5.80%			5.80%		
	Eastbound (Jefferson Plaza)			Westbound (Jefferson Plaza)			Northbound (Jefferson St)			Southbound (Jefferson St)		
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Existing Volumes	10	2	14	0	4	8	59	661	9	10	766	89
Background Traffic Growth	2	0	2	0	1	1	10	115	2	2	133	15
Subtotal (NO BUILD - A.M.)	12	2	16	0	5	9	69	776	11	12	899	104
Percent Commercial Trips Generated(Entering)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	32.37%	0.00%
Percent Commercial Trips Generated(Exiting)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	51.02%	0.00%	0.00%	0.00%	0.00%
Percent Office Trips Generated(Entering)	0.00%	0.00%	0.40%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	24.80%	0.00%
Percent Office Trips Generated(Exiting)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.40%	40.28%	0.00%	0.00%	0.00%	0.00%
Total Trips Generated	0	0	1	0	0	0	0	52	0	0	69	0
Total AM Peak Hour BUILD Volumes	12	2	17	0	5	9	69	828	11	12	968	104

	5.80%			5.80%			5.80%			5.80%		
	Eastbound (Jefferson Plaza)			Westbound (Jefferson Plaza)			Northbound (Jefferson St)			Southbound (Jefferson St)		
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Existing Volumes	50	0	28	5	0	7	7	730	4	8	756	12
Background Traffic Growth	9	0	5	1	0	1	1	127	1	1	132	2
Subtotal (NO BUILD - P.M.)	59	0	33	6	0	8	8	857	5	9	888	14
Percent Commercial Trips Generated(Entering)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	32.37%	0.00%
Percent Commercial Trips Generated(Exiting)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	51.02%	0.00%	0.00%	0.00%	0.00%
Percent Office Trips Generated(Entering)	0.00%	0.00%	0.40%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	24.80%	0.00%
Percent Office Trips Generated(Exiting)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.40%	40.28%	0.00%	0.00%	0.00%	0.00%
Total Trips Generated	0	0	0	0	0	0	1	136	0	0	62	0
Total PM Peak Hour BUILD Volumes	59	0	33	6	0	8	9	993	5	9	950	14

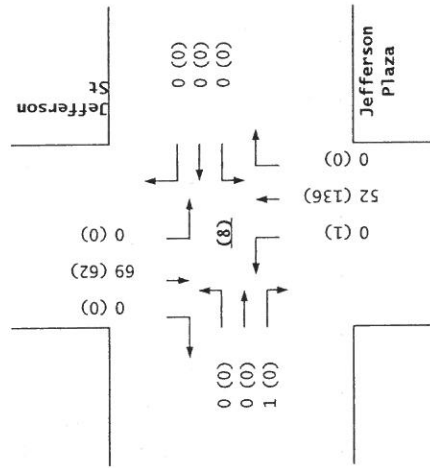
Number of Commercial Trips Generated: Entering 105, Exiting 88, A.M. 100% Commercial Development
 Number of Office Trips Generated: Entering 141, Exiting 17, A.M. 100% Office Development
 Entering 29, Exiting 154, P.M.

	5.80%			5.80%			5.80%			5.80%		
	Eastbound (Jefferson Plaza)			Westbound (Jefferson Plaza)			Northbound (Jefferson St)			Southbound (Jefferson St)		
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
2006 AM Peak Hr. Volumes	10	2	14	0	4	8	59	661	9	10	766	89
2006 PM Peak Hr. Volumes	50	0	28	5	0	7	7	730	4	8	756	12

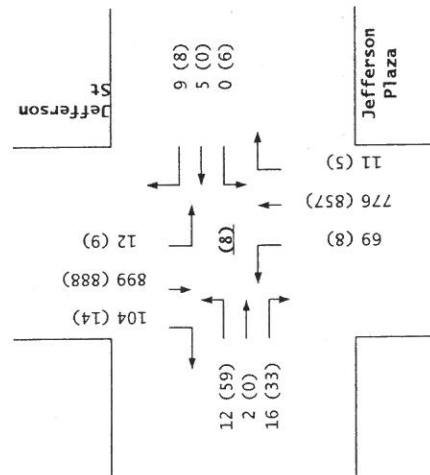
2009
BUILD



Trips



2009
NO BUILD



Jefferson Plaza / Jefferson St

Fraternal Order of Police (Bear Canyon Arroyo / Jefferson St)
 Projected Turning Movements Worksheet
BMW Drive / I-25 W. ramp

INTERSECTION: E-W Street: **BMW Drive** (9)
 N-S Street: **I-25 W. ramp**
 Year of Existing Counts: 2006
 Implementation Year: 2009

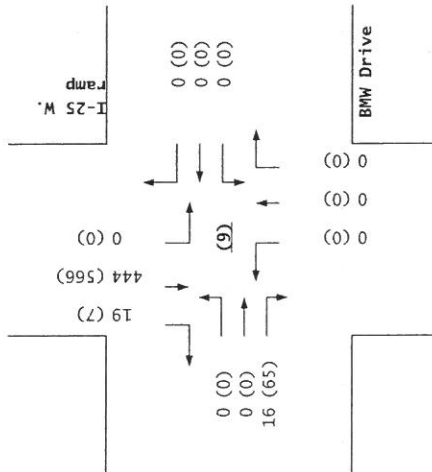
	5.90%			5.90%			5.90%			5.90%		
	Eastbound (BMW Drive)			Westbound (BMW Drive)			Northbound (I-25 W. ramp)			Southbound (I-25 W. ramp)		
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Existing Volumes	0	0	14	0	0	0	0	0	0	0	377	16
Background Traffic Growth	0	0	2	0	0	0	0	0	0	0	67	3
Subtotal (NO BUILD - A.M.)	0	0	16	0	0	0	0	0	0	0	444	19
Percent Commercial Trips Generated(Entering)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	18.83%
Percent Commercial Trips Generated(Exiting)	0.00%	0.00%	28.87%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Percent Office Trips Generated(Entering)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	15.48%
Percent Office Trips Generated(Exiting)	0.00%	0.00%	33.13%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Total Trips Generated	0	0	31	0	0	0	0	0	0	0	0	42
Total AM Peak Hour BUILD Volumes	0	0	47	0	0	0	0	0	0	0	444	61

	5.90%			5.90%			5.90%			5.90%		
	Eastbound (BMW Drive)			Westbound (BMW Drive)			Northbound (I-25 W. ramp)			Southbound (I-25 W. ramp)		
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Existing Volumes	0	0	55	0	0	0	0	0	0	0	481	6
Background Traffic Growth	0	0	10	0	0	0	0	0	0	0	85	1
Subtotal (NO BUILD - P.M.)	0	0	65	0	0	0	0	0	0	0	566	7
Percent Commercial Trips Generated(Entering)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	18.83%
Percent Commercial Trips Generated(Exiting)	0.00%	0.00%	28.87%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Percent Office Trips Generated(Entering)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	15.48%
Percent Office Trips Generated(Exiting)	0.00%	0.00%	33.13%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Total Trips Generated	0	0	93	0	0	0	0	0	0	0	0	36
Total PM Peak Hour BUILD Volumes	0	0	158	0	0	0	0	0	0	0	566	43

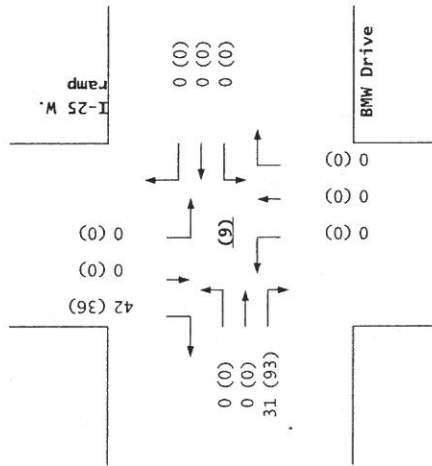
Number of Commercial Trips Generated	Entering	Exiting		
	105	88	A.M.	100% Commercial Development
	169	145	P.M.	
Number of Office Trips Generated	Entering	Exiting		
	141	17	A.M.	100% Office Development
	29	154	P.M.	

	5.90%			5.90%			5.90%			5.90%		
	Eastbound (BMW Drive)			Westbound (BMW Drive)			Northbound (I-25 W. ramp)			Southbound (I-25 W. ramp)		
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
2006 AM Peak Hr. Volumes	0	0	14	0	0	0	0	0	0	0	377	16
2006 PM Peak Hr. Volumes	0	0	55	0	0	0	0	0	0	0	481	6

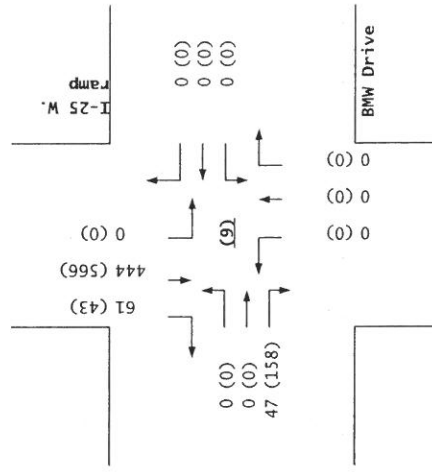
2009
NO BUILD



Trips



2009
BUILD



BMW Drive / I-25 W. ramp

Fraternal Order of Police (Bear Canyon Arroyo / Jefferson St)
 Projected Turning Movements Worksheet
Driveway "A" / Jefferson St

INTERSECTION : E-W Street: **Driveway "A"** (10)
 N-S Street: **Jefferson St**
 Year of Existing Counts: 2006
 Implementation Year: 2009

Growth Rates 6.10% 6.10% 6.10% 6.10%

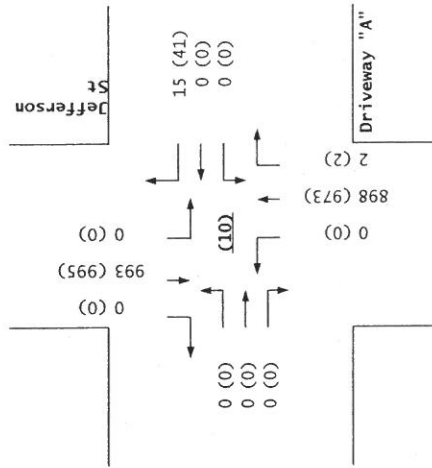
	6.10%			6.10%			6.10%			6.10%		
	Eastbound (Driveway "A")			Westbound (Driveway "A")			Northbound (Jefferson St)			Southbound (Jefferson St)		
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Existing Volumes	0	0	0	0	0	0	0	729	0	0	780	0
Background Traffic Growth	0	0	0	0	0	0	0	133	0	0	143	0
Subtotal (NO BUILD - A.M.)	0	0	0	0	0	0	0	862	0	0	923	0
Percent Commercial Trips Generated(Entering)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	1.00%	0.00%	32.37%	0.00%
Percent Commercial Trips Generated(Exiting)	0.00%	0.00%	0.00%	0.00%	0.00%	15.31%	0.00%	35.71%	0.00%	0.00%	0.00%	0.00%
Percent Office Trips Generated(Entering)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	1.00%	0.00%	25.20%	0.00%
Percent Office Trips Generated(Exiting)	0.00%	0.00%	0.00%	0.00%	0.00%	12.20%	0.00%	28.48%	0.00%	0.00%	0.00%	0.00%
Total Trips Generated	0	0	0	0	0	15	0	36	2	0	70	0
Total AM Peak Hour BUILD Volumes	0	0	0	0	0	15	0	898	2	0	993	0

	6.10%			6.10%			6.10%			6.10%		
	Eastbound (Driveway "A")			Westbound (Driveway "A")			Northbound (Jefferson St)			Southbound (Jefferson St)		
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Existing Volumes	0	0	0	0	0	0	0	741	0	0	789	0
Background Traffic Growth	0	0	0	0	0	0	0	136	0	0	144	0
Subtotal (NO BUILD - P.M.)	0	0	0	0	0	0	0	877	0	0	933	0
Percent Commercial Trips Generated(Entering)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	1.00%	0.00%	32.37%	0.00%
Percent Commercial Trips Generated(Exiting)	0.00%	0.00%	0.00%	0.00%	0.00%	15.31%	0.00%	35.71%	0.00%	0.00%	0.00%	0.00%
Percent Office Trips Generated(Entering)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	1.00%	0.00%	25.20%	0.00%
Percent Office Trips Generated(Exiting)	0.00%	0.00%	0.00%	0.00%	0.00%	12.20%	0.00%	28.48%	0.00%	0.00%	0.00%	0.00%
Total Trips Generated	0	0	0	0	0	41	0	96	2	0	62	0
Total PM Peak Hour BUILD Volumes	0	0	0	0	0	41	0	973	2	0	995	0

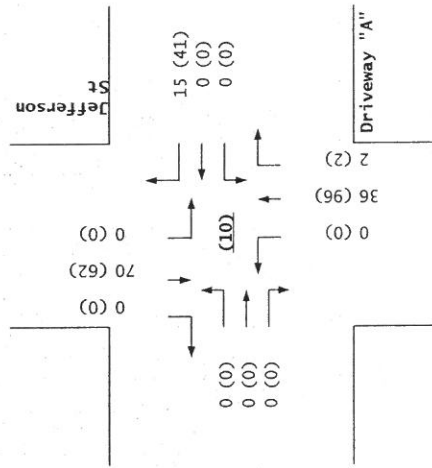
Number of Commercial Trips Generated: Entering 105, Exiting 88, A.M. 100% Commercial Development
 Number of Office Trips Generated: Entering 141, Exiting 17, A.M. 100% Office Development
 Entering 29, Exiting 154, P.M.

	6.10%			6.10%			6.10%			6.10%		
	Eastbound (Driveway "A")			Westbound (Driveway "A")			Northbound (Jefferson St)			Southbound (Jefferson St)		
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
2006 AM Peak Hr. Volumes	0	0	0	0	0	0	0	729	0	0	780	0
2006 PM Peak Hr. Volumes	0	0	0	0	0	0	0	741	0	0	789	0

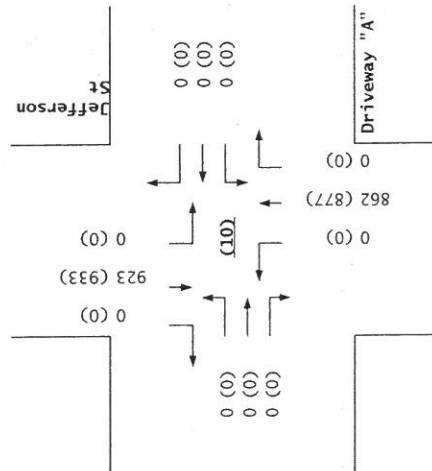
2009
BUILD



Trips



2009
NO BUILD



Driveway "A" / Jefferson St

Fraternal Order of Police (Bear Canyon Arroyo / Jefferson St)
 Projected Turning Movements Worksheet
Driveway 'B' / Jefferson St

INTERSECTION : E-W Street: Driveway 'B' (11)
 N-S Street: Jefferson St
 Year of Existing Counts: 2006
 Implementation Year: 2009

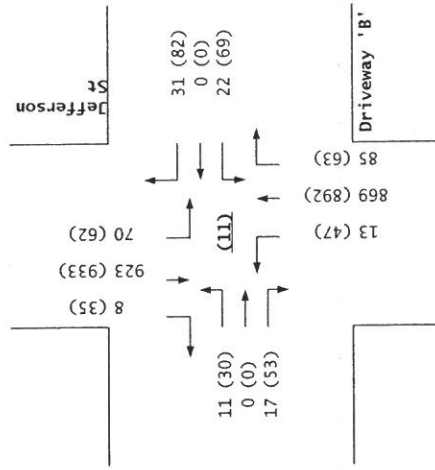
	6.10%			6.10%			6.10%			6.10%		
	Eastbound (Driveway 'B')			Westbound (Driveway 'B')			Northbound (Jefferson St)			Southbound (Jefferson St)		
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Existing Volumes	9	0	14	0	0	0	11	729	0	0	780	7
Background Traffic Growth	2	0	3	0	0	0	2	133	0	0	143	1
Subtotal	11	0	17	0	0	0	13	862	0	0	923	8
Jefferson Pointe	0	0	0	0	0	0	0	0	0	0	0	0
Subtotal (NO BUILD - A.M.)	11	0	17	0	0	0	13	862	0	0	923	8
Percent Commercial Trips Generated(Entering)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	1.00%	30.71%	32.37%	0.00%	0.00%
Percent Commercial Trips Generated(Exiting)	0.00%	0.00%	0.00%	19.92%	0.00%	30.61%	0.00%	5.10%	0.00%	0.00%	0.00%	0.00%
Percent Office Trips Generated(Entering)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	1.00%	37.56%	25.20%	0.00%	0.00%
Percent Office Trips Generated(Exiting)	0.00%	0.00%	0.00%	26.19%	0.00%	24.41%	0.00%	4.07%	0.00%	0.00%	0.00%	0.00%
Total Trips Generated	0	0	0	22	0	31	0	7	85	70	0	0
Total AM Peak Hour BUILD Volumes	11	0	17	22	0	31	13	869	85	70	923	8

	6.10%			6.10%			6.10%			6.10%		
	Eastbound (Driveway 'B')			Westbound (Driveway 'B')			Northbound (Jefferson St)			Southbound (Jefferson St)		
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Existing Volumes	25	0	45	0	0	0	40	741	0	0	789	30
Background Traffic Growth	5	0	8	0	0	0	7	136	0	0	144	5
Subtotal	30	0	53	0	0	0	47	877	0	0	933	35
Jefferson Pointe	0	0	0	0	0	0	0	0	0	0	0	0
Subtotal (NO BUILD - P.M.)	30	0	53	0	0	0	47	877	0	0	933	35
Percent Commercial Trips Generated(Entering)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	1.00%	30.71%	32.37%	0.00%	0.00%
Percent Commercial Trips Generated(Exiting)	0.00%	0.00%	0.00%	19.92%	0.00%	30.61%	0.00%	5.10%	0.00%	0.00%	0.00%	0.00%
Percent Office Trips Generated(Entering)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	1.00%	37.56%	25.20%	0.00%	0.00%
Percent Office Trips Generated(Exiting)	0.00%	0.00%	0.00%	26.19%	0.00%	24.41%	0.00%	4.07%	0.00%	0.00%	0.00%	0.00%
Total Trips Generated	0	0	0	69	0	82	0	15	63	62	0	0
Total PM Peak Hour BUILD Volumes	30	0	53	69	0	82	47	892	63	62	933	35

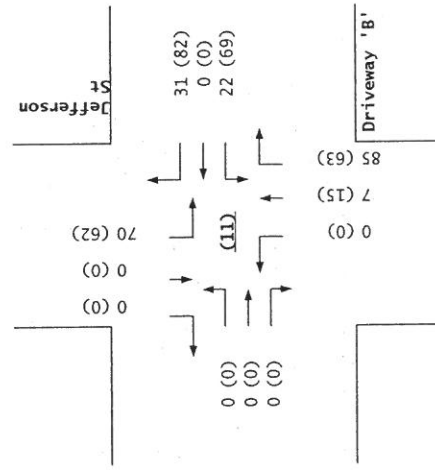
Number of Commercial Trips Generated	Entering 105	Exiting 88	A.M.	100% Commercial Development
	169	145	P.M.	
Number of Office Trips Generated	Entering 141	Exiting 17	A.M.	100% Office Development
	29	154	P.M.	

	6.10%			6.10%			6.10%			6.10%		
	Eastbound (Driveway 'B')			Westbound (Driveway 'B')			Northbound (Jefferson St)			Southbound (Jefferson St)		
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
2006 AM Peak Hr. Volumes	9	0	14	0	0	0	11	729	0	0	780	7
2006 PM Peak Hr. Volumes	25	0	45	0	0	0	40	741	0	0	789	30

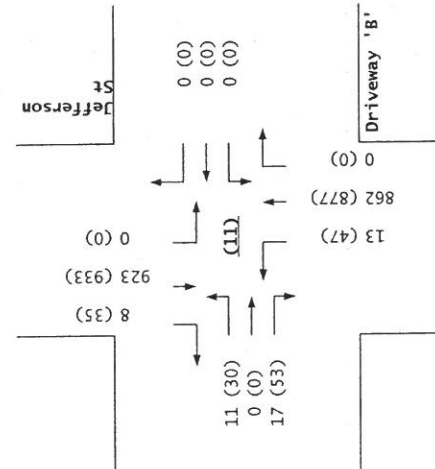
2009
BUILD



Trips



2009
NO BUILD



Driveway 'B' / Jefferson St

Fraternal Order of Police (Bear Canyon Arroyo / Jefferson St)
 Projected Turning Movements Worksheet
Driveway 'C' / Jefferson St

INTERSECTION : E-W Street: **Driveway 'C'** (12)
 N-S Street: **Jefferson St**
 Year of Existing Counts: 2006
 Implementation Year: 2009

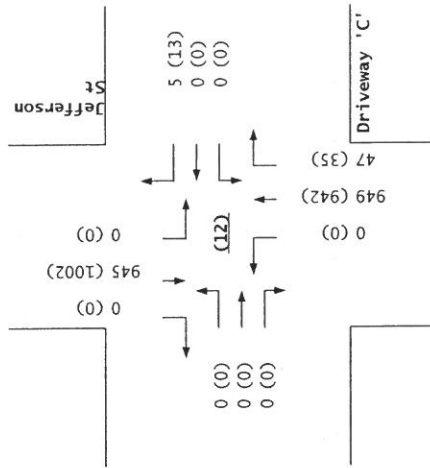
	6.10%			6.10%			6.10%			6.10%		
	Eastbound (Driveway 'C')			Westbound (Driveway 'C')			Northbound (Jefferson St)			Southbound (Jefferson St)		
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Existing Volumes	0	0	0	0	0	0	0	729	0	0	780	0
Background Traffic Growth	0	0	0	0	0	0	0	133	0	0	143	0
Subtotal	0	0	0	0	0	0	0	862	0	0	923	0
Jefferson Pointe	0	0	0	0	0	0	0	0	0	0	0	0
Subtotal (NO BUILD - A.M.)	0	0	0	0	0	0	0	862	0	0	923	0
Percent Commercial Trips Generated(Entering)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	31.71%	17.08%	0.00%	0.00%	0.00%
Percent Commercial Trips Generated(Exiting)	0.00%	0.00%	0.00%	0.00%	0.00%	5.10%	0.00%	0.00%	0.00%	0.00%	19.92%	0.00%
Percent Office Trips Generated(Entering)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	38.56%	20.76%	0.00%	0.00%	0.00%
Percent Office Trips Generated(Exiting)	0.00%	0.00%	0.00%	0.00%	0.00%	4.07%	0.00%	0.00%	0.00%	0.00%	26.19%	0.00%
Total Trips Generated	0	0	0	0	0	5	0	87	47	0	22	0
Total AM Peak Hour BUILD Volumes	0	0	0	0	0	5	0	949	47	0	945	0

	6.10%			6.10%			6.10%			6.10%		
	Eastbound (Driveway 'C')			Westbound (Driveway 'C')			Northbound (Jefferson St)			Southbound (Jefferson St)		
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Existing Volumes	0	0	0	0	0	0	0	741	0	0	789	0
Background Traffic Growth	0	0	0	0	0	0	0	136	0	0	144	0
Subtotal	0	0	0	0	0	0	0	877	0	0	933	0
Jefferson Pointe	0	0	0	0	0	0	0	0	0	0	0	0
Subtotal (NO BUILD - P.M.)	0	0	0	0	0	0	0	877	0	0	933	0
Percent Commercial Trips Generated(Entering)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	31.71%	17.08%	0.00%	0.00%	0.00%
Percent Commercial Trips Generated(Exiting)	0.00%	0.00%	0.00%	0.00%	0.00%	5.10%	0.00%	0.00%	0.00%	0.00%	19.92%	0.00%
Percent Office Trips Generated(Entering)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	38.56%	20.76%	0.00%	0.00%	0.00%
Percent Office Trips Generated(Exiting)	0.00%	0.00%	0.00%	0.00%	0.00%	4.07%	0.00%	0.00%	0.00%	0.00%	26.19%	0.00%
Total Trips Generated	0	0	0	0	0	13	0	65	35	0	69	0
Total PM Peak Hour BUILD Volumes	0	0	0	0	0	13	0	942	35	0	1,002	0

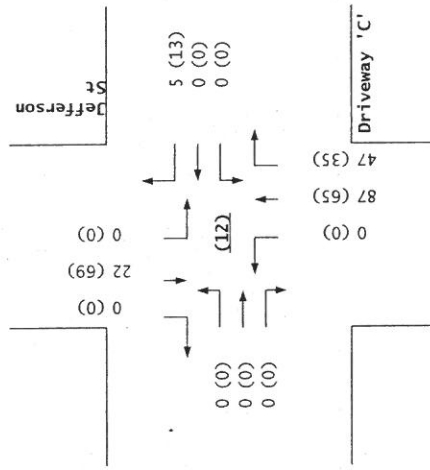
Number of Commercial Trips Generated	105	88	A.M.	100% Commercial Development
	169	145	P.M.	
Number of Office Trips Generated	141	17	A.M.	100% Office Development
	29	154	P.M.	

	6.10%			6.10%			6.10%			6.10%		
	Eastbound (Driveway 'C')			Westbound (Driveway 'C')			Northbound (Jefferson St)			Southbound (Jefferson St)		
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
2006 AM Peak Hr. Volumes	0	0	0	0	0	0	0	729	0	0	780	0
2006 PM Peak Hr. Volumes	0	0	0	0	0	0	0	741	0	0	789	0

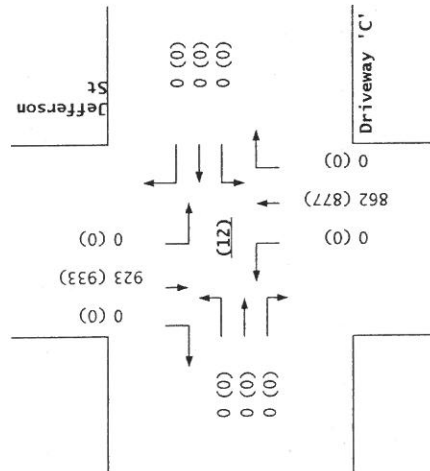
2009
BUILD



Trips



2009
NO BUILD

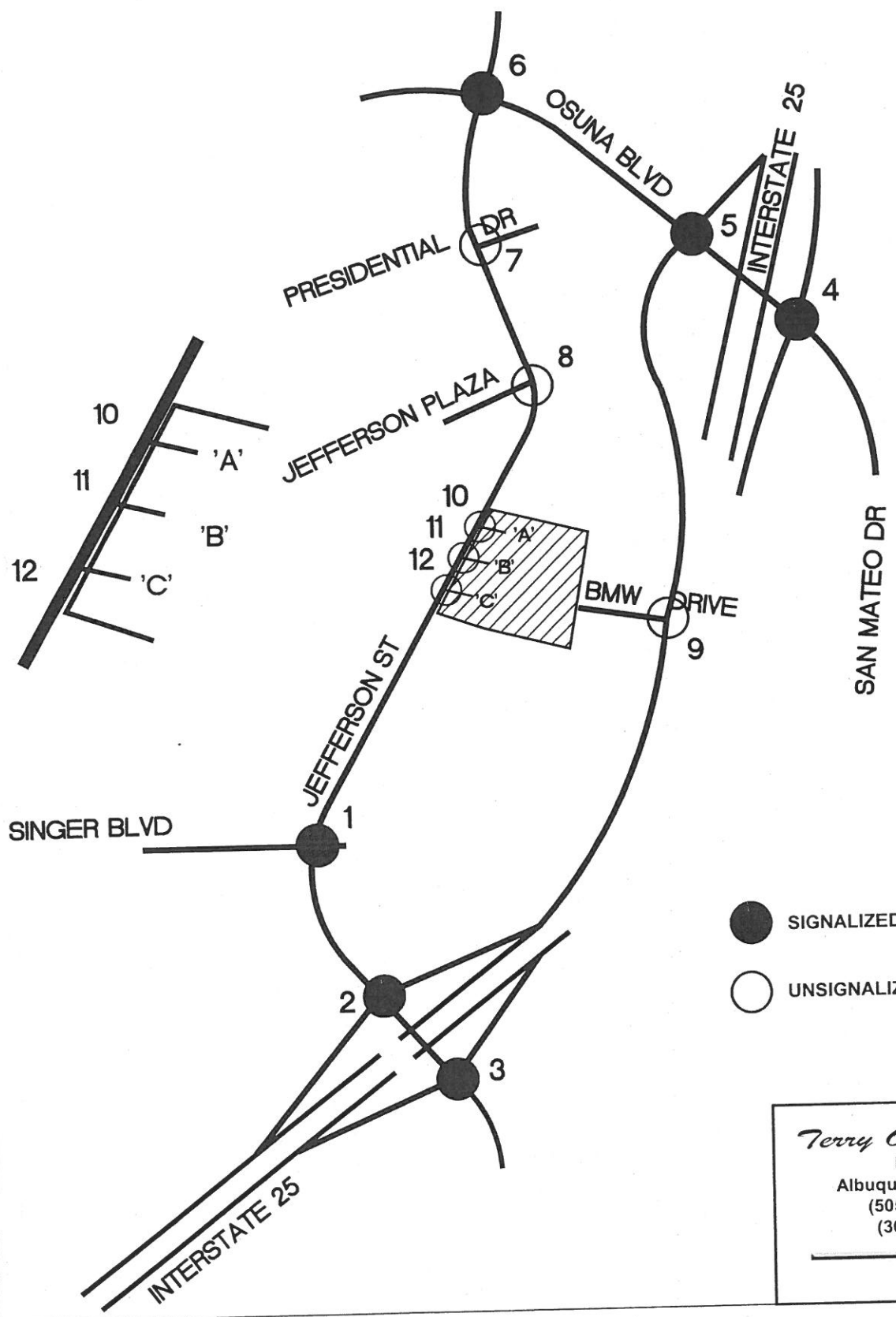




Driveway 'C' / Jefferson St

Fraternal Order of Police

Bear Canyon Arroyo / Jefferson St

Volumes Map

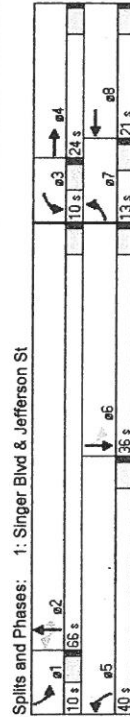


-  SIGNALIZED INTERSECTION
-  UNSIGNALIZED INTERSECTION

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P.O. Box 92051
Albuquerque, NM 87199-2051
(505)883-8807 (Voice)
(303)942-3600 (Fax)

Analysis of Intersection #1
Singer Blvd / Jefferson St

Lane Group	EBL	EBT	WBL	WBT	NBL	NBT	NBR	SBL	SBT
Lane Configurations	151	29	58	20	427	698	294	42	481
Volume (vph)	151	29	58	20	427	698	294	42	481
Turn Type	Prot	pm+pt	pm+pt	pm+pt	pm+pt	pm+pt	Perm	pm+pt	Perm
Protected Phases	7	4	3	8	5	2	2	1	6
Permitted Phases	7	4	3	8	5	2	2	1	6
Detector Phases	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Initial (s)	10.0	21.0	10.0	21.0	10.0	21.0	10.0	21.0	10.0
Minimum Split (s)	13.0	24.0	10.0	21.0	40.0	66.0	66.0	10.0	36.0
Total Split (s)	11.8% 21.8% 9.1% 18.1% 36.4% 80.0% 60.0% 9.1% 32.7%								
Yellow Time (s)	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lead/Lag	Lead	Lag	Lead	Lag	Lead	Lag	Lag	Lead	Lag
Lead-Lag Optimizer?									
Recall Mode	Min	Min	Min	Min	C-Min	C-Min	C-Min	Min	C-Min
Act Effect Green (s)	10.7	13.4	7.8	10.5	79.9	69.0	69.0	66.2	48.4
Actuated g/C Ratio	0.10	0.12	0.07	0.10	0.73	0.63	0.63	0.51	0.44
v/c Ratio	0.58	0.70	0.32	0.17	0.86	0.36	0.30	0.12	0.52
Control Delay	55.3	17.7	52.9	26.1	39.6	6.2	0.5	10.7	19.4
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	55.3	17.7	52.9	26.1	39.6	6.2	0.5	10.7	19.4
LOS	E	B	D	C	D	A	A	B	B
Approach Delay	32.3				41.6	15.1			18.9
Approach LOS	C				D	B			B
Intersection Summary									
Cycle Length: 110									
Actuated Cycle Length: 110									
Offset: 98 (69%); Referenced to phase 2:NBTL and 6:SBTL, Start of Green									
Natural Cycle: 80									
Control Type: Actuated-Coordinated									
Maximum v/c Ratio: 0.86									
Intersection Signal Delay: 20.0									
Intersection Capacity Utilization 74.2%									
Analysis Period (min) 15									



Splits and Phases: 1: Singer Blvd & Jefferson St

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Ideal Flow (vphpl)	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Total Lost time (s)	0.97	1.00	0.97	0.95	1.00	0.95	1.00	0.95	1.00	1.00	0.95	0.95
Lane Util. Factor	1.00	0.87	1.00	0.92	1.00	0.92	1.00	0.95	1.00	1.00	0.95	1.00
Flt Protected	0.95	1.00	0.95	1.00	0.95	1.00	0.95	1.00	1.00	0.95	1.00	1.00
Satd. Flow (prot)	3367	1586	3367	3202	3367	3202	1736	3471	1553	1736	3337	3337
Flt Permitted	0.95	1.00	0.95	1.00	0.95	1.00	0.23	1.00	1.00	0.35	1.00	1.00
Satd. Flow (perm)	3367	1586	3367	3202	3367	3202	419	3471	1553	648	3337	3337
Volume (vph)	151	29	209	58	20	22	427	698	294	42	481	167
Peak-hour factor, PHF	0.80	0.80	0.80	0.75	0.75	0.75	0.89	0.89	0.89	0.83	0.83	0.83
Adj. Flow (vph)	189	36	261	77	27	29	480	784	330	51	580	201
RTOR Reduction (vph)	0	229	0	0	26	0	0	0	123	0	25	0
Lane Group Flow (vph)	189	68	0	77	30	0	480	784	207	51	756	0
Heavy Vehicles (%)	4%	4%	4%	4%	4%	4%	4%	4%	4%	4%	4%	4%
Turn Type	Prot	4	4	3	8	8	pm+pt	pm+pt	Perm	pm+pt	Perm	pm+pt
Protected Phases	7	4	4	3	8	8	5	2	2	1	6	6
Actuated Green, G (s)	8.7	11.4	11.4	5.8	8.5	8.5	77.8	67.0	67.0	52.1	46.3	46.3
Effective Green, g (s)	10.7	13.4	13.4	7.8	10.5	10.5	79.8	69.0	69.0	56.1	48.3	48.3
Actuated g/C Ratio	0.10	0.12	0.12	0.07	0.10	0.10	0.73	0.63	0.63	0.51	0.44	0.44
Clearance Time (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Vehicle Extension (s)	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Lane Grp Cap (vph)	328	193	239	306	306	306	645	2177	974	408	1465	408
v/s Ratio Prot	c0.06	c0.04	c0.06	c0.02	c0.01	c0.01	c0.19	0.23	0.23	0.01	0.23	0.23
v/c Ratio	0.58	0.35	0.35	0.32	0.10	0.10	0.74	0.36	0.36	0.12	0.52	0.52
Uniform Delay, d1	47.5	44.3	44.3	48.6	45.4	45.4	13.5	9.9	8.8	13.6	22.4	22.4
Progression Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.48	0.57	0.22	1.09	0.78	0.78
Incremental Delay, d2	2.4	1.1	1.1	0.8	0.1	0.1	1.9	0.2	0.2	0.1	1.2	1.2
Delay (s)	49.9	45.4	45.4	49.4	45.6	45.6	21.9	5.9	2.1	15.0	18.6	18.6
Level of Service	D	D	D	D	D	D	C	A	A	B	B	B
Approach Delay (s)	47.2			47.8			9.9			18.4		
Approach LOS	D			D			A			B		
Intersection Summary												
HCM Average Control Delay	19.8											
HCM Volume to Capacity ratio	0.68											
Actuated Cycle Length (s)	110.0											
Intersection Capacity Utilization	74.2%											
Analysis Period (min)	15											
C Critical Lane Group												

Intersection Summary

2009 AM Peak NOBUILD Conditions

EBL	EBT	WBL	WBT	NBL	NBT	NBR	SBL	SBT
158	29	58	20	427	827	294	42	502
7	4	3	8	5	2	2	6	6
7	4	3	8	5	2	2	6	6
5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
10.0	21.0	10.0	21.0	21.0	21.0	21.0	10.0	21.0
13.0	24.0	10.0	21.0	39.0	66.0	66.0	10.0	37.0
11.8%	21.8%	9.1%	19.1%	35.5%	60.0%	60.0%	9.1%	33.6%
4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lead	Lead	Lead	Lead	Lead	Lead	Lead	Lead	Lead
Min	Min	Min	Min	Min	Min	Min	Min	Min
10.8	13.5	7.8	10.5	79.8	69.0	66.0	56.7	48.9
0.10	0.12	0.07	0.10	0.73	0.63	0.63	0.52	0.44
0.60	0.70	0.32	0.17	0.87	0.43	0.30	0.14	0.54
55.9	17.6	52.8	26.1	36.2	5.6	0.3	10.8	19.5
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55.9	17.6	52.8	26.1	36.2	5.6	0.3	10.8	19.5
E	B	D	C	D	A	A	B	B
32.9			41.6		13.6			19.0
C			D		B			B

Recall Mode

Act/Effort Green (s)

Actuated g/C Ratio

v/c Ratio

Control Delay

Queue Delay

Total Delay

LOS

Approach Delay

Approach LOS

Intersection Summary

Cycle Length: 110

Actuated Cycle Length: 110

Offset: 101 (92%), Referenced to phase 2:NBTL and 6:SBTL, Start of Green

Natural Cycle: 80

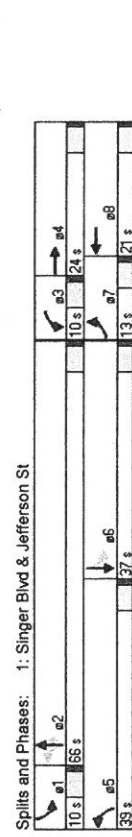
Control Type: Actuated-Coordinated

Maximum v/c Ratio: 0.87

Intersection Signal Delay: 19.1

Intersection Capacity Utilization 74.9%

Analysis Period (min) 15



EBL	EBT	WBL	WBT	NBL	NBT	NBR	SBL	SBT
158	29	58	20	427	827	294	42	502
7	4	3	8	5	2	2	6	6
7	4	3	8	5	2	2	6	6
5.8	11.5	8.8	8.5	5.8	8.5	77.7	66.9	52.6
10.8	13.5	7.8	10.5	7.8	10.5	79.7	68.9	56.6
0.10	0.12	0.07	0.10	0.07	0.10	0.72	0.63	0.51
5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
331	195	239	306	629	2174	973	372	1482
c0.06	c0.04	0.02	0.01	c0.19	0.27	0.13	0.01	0.23
0.60	0.35	0.32	0.10	0.36	0.43	0.21	0.14	0.53
47.5	44.2	48.6	45.4	14.9	10.5	8.9	13.4	22.3
1.00	1.00	1.00	1.00	1.35	0.49	0.08	1.10	0.78
2.9	1.1	0.8	0.1	1.9	0.2	0.1	1.2	0.1
50.4	45.3	49.4	45.6	22.0	5.3	0.9	14.8	18.6
D	D	D	D	C	A	A	B	B
47.4			47.8		9.1			18.4
D			D		A			B

Protected Phases

Permitted Phases

Actuated Green, G (s)

Effective Green, g (s)

Actuated g/C Ratio

Clearance Time (s)

Vehicle Extension (s)

Lane Grp Cap (vph)

v/s Ratio Prot

v/s Ratio Perm

v/c Ratio

Uniform Delay, d1

Progression Factor

Incremental Delay, d2

Delay (s)

Level of Service

Approach Delay (s)

Approach LOS

Intersection Summary

HCM Average Control Delay

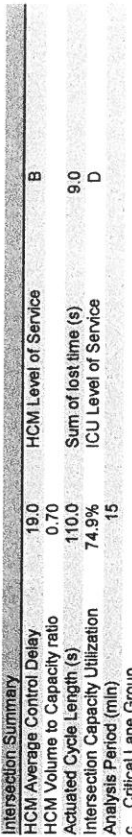
HCM Volume to Capacity ratio

Actuated Cycle Length (s)

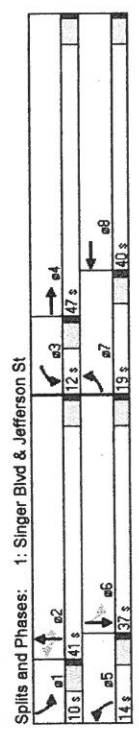
Intersection Capacity Utilization

Analysis Period (min)

c Critical Lane Group



EBL	EBT	WBL	WBT	NBL	NBT	NBR	SBL	SBT
220	66	201	36	218	401	162	35	738
7	4	3	8	5	2	2	1	6
7	4	3	8	5	2	2	1	6
5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
10.0	21.0	10.0	21.0	10.0	21.0	10.0	21.0	10.0
19.0	47.0	12.0	40.0	14.0	41.0	10.0	37.0	17.3%
4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Min	Min	Min	Min	Min	Min	Min	Min	Min
15.4	44.0	9.0	37.6	46.0	38.0	38.0	41.0	34.0
0.14	0.40	0.08	0.34	0.44	0.35	0.35	0.37	0.31
0.67	1.01	0.97	0.11	1.00	0.37	0.27	0.11	0.99
52.4	63.7	99.3	11.5	104.4	24.8	6.9	13.7	52.2
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.4	63.7	99.3	11.5	104.4	24.8	6.9	13.7	52.2
D	E	F	B	F	C	A	B	D
60.3	72.0	E	E	43.4	D			50.8
Intersection Summary								
Cycle Length: 110								
Actuated Cycle Length: 110								
Offset: 85 (77%); Referenced to phase 2:NBL and 6:SBTL, Start of Green								
Natural Cycle: 70								
Control Type: Actuated-Coordinated								
Maximum v/c Ratio: 1.01								
Intersection Signal Delay: 54.3								
Intersection Capacity Utilization 87.8%								
Analysis Period (min): 15								

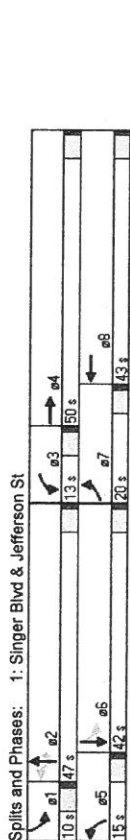


EBL	EBT	WBL	WBT	NBL	NBT	NBR	SBL	SBT	SBR
1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
0.97	1.00	0.97	0.95	1.00	0.95	1.00	1.00	1.00	0.95
1.00	0.97	1.00	0.91	1.00	1.00	0.85	1.00	0.97	1.00
3367	1588	3367	3157	1736	3471	1553	1736	3375	3375
3367	1588	3367	3157	1736	3471	1553	1736	3375	3375
220	66	445	201	36	55	218	401	162	35
0.70	0.70	0.70	0.75	0.75	0.91	0.91	0.91	0.86	0.86
314	94	636	268	48	73	240	441	178	41
0	86	0	0	48	0	0	0	117	0
314	644	0	268	73	0	240	441	61	41
4%	4%	4%	4%	4%	4%	4%	4%	4%	4%
Turn Type									
Protected Phases 7 4 3 8 5 2 2 1 6									
Permitted Phases 7 4 3 8 5 2 2 1 6									
Actuated Green, G (s) 13.4 42.0 7.0 35.6 45.0 36.0 36.0 37.0 32.0									
Effective Green, g (s) 15.4 44.0 9.0 37.6 48.0 38.0 38.0 41.0 34.0									
Actuated g/C Ratio 0.14 0.40 0.08 0.34 0.44 0.35 0.35 0.37 0.31									
Clearance Time (s) 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0									
Vehicle Extension (s) 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0									
Lane Grp Cap (vph) 471 635 275 1079 240 1199 538 361 1043									
v/s Ratio Prot 0.09 c0.41 c0.10 0.13 c0.34 0.04 0.04 0.04 0.31									
v/s Ratio Perm 0.67 1.01 0.97 0.07 1.00 0.37 0.11 0.11 0.99									
Uniform Delay, d1 44.9 33.0 50.4 24.4 30.4 27.0 24.5 22.2 37.9									
Progression Factor 1.00 1.00 1.00 1.00 1.98 0.88 1.54 0.71 0.71									
Incremental Delay, d2 3.6 39.1 46.9 0.0 55.5 0.8 0.4 0.1 24.6									
Delay (s) 48.4 72.1 97.2 24.4 115.8 24.6 38.3 16.0 51.6									
Level of Service D E F C C D D B D									
Approach Delay (s) 65.0 E 74.6 E 52.9 D 50.3 D									
Approach LOS E E E E									
Intersection Summary									
HCM Average Control Delay 58.3 HCM Level of Service E									
HCM Volume to Capacity ratio 1.00									
Actuated Cycle Length (s) 110.0 Sum of lost time (s) 9.0									
Intersection Capacity Utilization 87.8% ICU Level of Service E									
Analysis Period (min) 15									
c Critical Lane Group									

EBL	EFT	WBL	WBT	NBL	NBT	NBR	SBL	SBT
222	66	201	36	218	498	162	35	800
7	4	3	8	5	2	2	1	6
7	4	3	8	5	2	2	1	6
5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
10.0	21.0	10.0	21.0	10.0	21.0	10.0	21.0	10.0
20.0	50.0	13.0	43.0	15.0	47.0	47.0	10.0	42.0
16.7% 41.7% 10.8% 35.8% 12.5% 39.2% 39.2% 8.3% 35.0%								
4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lead	Lag	Lead	Lag	Lead	Lag	Lead	Lag	Lead
Min	Min	Min	Min	Min	Min	Min	Min	Min
16.3	47.0	10.0	40.7	54.0	44.0	46.0	39.0	39.0
0.14	0.39	0.08	0.34	0.45	0.37	0.37	0.38	0.32
0.69	1.04	0.95	0.11	1.02	0.43	0.26	0.13	1.02
57.9	75.9	98.1	12.4	110.3	27.8	7.8	16.4	68.3
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.9	75.9	98.1	12.4	110.3	27.8	7.8	16.4	68.3
E	E	F	B	F	C	A	B	E
E	E	F	B	F	C	A	B	E
70.4	71.4	E	E	44.6	E	E	E	66.5
E	E	E	E	D	E	E	E	E

Recall Mode
Act Effort Green (s)
v/c Ratio
Control Delay
Queue Delay
Total Delay
LOS
Approach Delay
Approach LOS

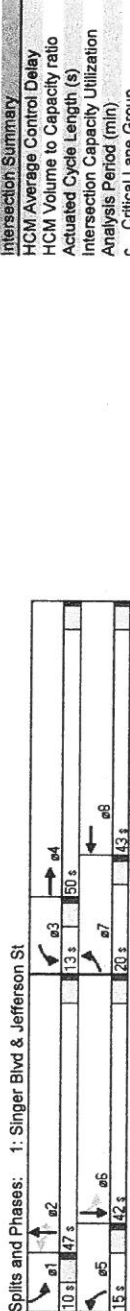
Intersection Summary
Cycle Length: 120
Actuated Cycle Length: 120
Offset: 3 (3%); Referenced to phase 2:NBTL and 6:SBTL, Start of Green
Natural Cycle: 80
Control Type: Actuated-Coordinated
Maximum v/c Ratio: 1.04
Intersection Signal Delay: 62.3
Intersection Capacity Utilization 69.7%
Analysis Period (min) 15



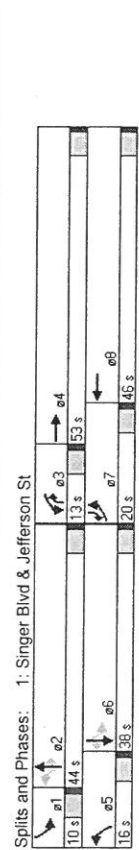
EBL	EFT	WBL	WBT	NBL	NBT	NBR	SBL	SBT
1900	1900	1900	1900	1900	1900	1900	1900	1900
3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
0.97	1.00	0.87	0.95	1.00	0.91	1.00	0.85	1.00
1.00	0.87	1.00	0.91	1.00	0.91	1.00	0.85	1.00
3367	1588	3367	1588	3367	1588	3367	1588	3367
0.95	1.00	0.95	1.00	0.95	1.00	0.95	1.00	0.95
3367	1588	3367	1588	3367	1588	3367	1588	3367
222	66	445	201	36	55	218	498	162
0.70	0.70	0.70	0.75	0.75	0.91	0.91	0.91	0.86
317	94	638	268	48	73	240	547	178
0	78	0	0	48	0	0	113	0
317	652	0	268	73	0	240	547	65
4%	4%	4%	4%	4%	4%	4%	4%	4%
7	4	3	8	5	2	2	1	6
14.3	45.0	8.0	38.7	52.0	42.0	42.0	42.0	37.0
16.3	47.0	10.0	40.7	54.0	44.0	44.0	46.0	39.0
0.14	0.39	0.08	0.34	0.45	0.37	0.37	0.38	0.32
5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
457	622	281	1071	235	1273	569	323	1098
c0.09	c0.41	c0.08	0.02	c0.10	0.16	0.04	0.04	0.33
0.69	1.05	0.96	0.07	1.02	0.43	0.11	0.13	1.02
49.5	36.5	54.8	26.8	35.1	28.6	25.1	23.6	40.5
1.00	1.00	1.00	1.00	1.78	0.93	1.83	0.82	0.95
4.5	49.4	40.9	0.0	60.9	0.9	0.4	0.2	30.4
54.0	85.9	95.7	26.8	123.3	27.6	46.4	19.4	69.0
D	F	F	C	F	C	D	B	E
D	F	F	C	F	C	D	B	E
76.3	E	74.3	E	54.9	D	67.3	E	E

Volume (vph)
Peak-hour factor, PHF
Adj. Flow (vph)
RTOR Reduction (vph)
Lane Group Flow (vph)
Heavy Vehicles (%)
Turn Type
Protected Phases
Permitted Phases
Actuated Green, G (s)
Effective Green, g (s)
Actuated g/C Ratio
Clearance Time (s)
Vehicle Extension (s)
Lane Grp Cap (vph)
v/s Ratio Prot
v/s Ratio Perm
v/c Ratio
Uniform Delay, d1
Progression Factor
Incremental Delay, d2
Delay (s)
Level of Service
Approach Delay (s)
Approach LOS

Intersection Summary
HCM Average Control Delay
HCM Volume to Capacity ratio
Actuated Cycle Length (s)
Intersection Capacity Utilization
Analysis Period (min)
c Critical Lane Group

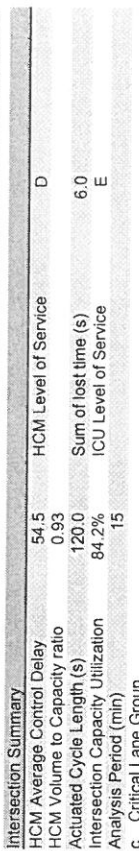


	EBL	EBT	WBL	WBT	NBL	NBT	NBR	SBL	SBT	SBR
Lane Group	EBL	EBT	WBL	WBT	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Volume (vph)	222	66	201	36	218	498	162	35	800	174
Turn Type	Prot	Prot	Prot	Prot	pm+pt	pm+pt	pm+pt	pm+pt	pm+ov	pm+ov
Protected Phases	7	4	3	8	5	2	3	1	6	7
Permitted Phases	7	4	3	8	5	2	3	1	6	7
Detector Phases	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Initial (s)	10.0	21.0	10.0	21.0	10.0	21.0	10.0	21.0	10.0	21.0
Minimum Split (s)	20.0	53.0	13.0	46.0	16.0	44.0	13.0	10.0	38.0	20.0
Total Split (%)	16.7%	44.2%	10.8%	38.3%	13.3%	36.7%	10.8%	8.3%	31.7%	16.7%
Yellow Time (s)	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lead/Lag	Lead	Lag	Lead	Lag	Lead	Lag	Lead	Lag	Lead	Lag
Lead-Lag Optimize?										
Recall Mode	Min	Min	Min	Min	Min	Min	Min	Min	C-Min	Min
Act Effct Green (s)	16.3	49.5	10.4	43.6	51.1	41.0	54.4	41.7	34.6	53.9
Actuated g/C Ratio	0.14	0.41	0.09	0.36	0.43	0.34	0.45	0.35	0.29	0.45
v/c Ratio	0.69	0.98	0.92	0.10	0.94	0.46	0.22	0.14	0.93	0.25
Control Delay	57.9	56.7	89.9	11.5	90.2	31.1	5.6	17.9	54.0	5.5
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	57.9	56.7	89.9	11.5	90.2	31.1	5.6	17.9	54.0	5.5
LOS	E	E	F	B	F	C	A	B	D	A
Approach Delay	57.1		65.5		E	D			44.4	D
Approach LOS	E		E		E	D			D	D



Splits and Phases: 1: Singer Blvd & Jefferson St
 Cycle Length: 120
 Actuated Cycle Length: 120
 Offset: 3 (3%), Referenced to phase 2:NBT and 6:SBTL, Start of Green
 Natural Cycle: 75
 Control Type: Actuated-Coordinated
 Maximum v/c Ratio: 0.98
 Intersection Signal Delay: 49.5
 Intersection Capacity Utilization 84.2%
 Analysis Period (min) 15
 Intersection LOS: D
 ICU Level of Service E

	EBL	EBT	WBL	WBT	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Volume (vph)	222	66	201	36	218	498	162	35	800	174
Turn Type	Prot	Prot	Prot	Prot	pm+pt	pm+pt	pm+pt	pm+pt	pm+ov	pm+ov
Protected Phases	7	4	3	8	5	2	3	1	6	7
Permitted Phases	7	4	3	8	5	2	3	1	6	7
Actuated Green, G (s)	14.3	47.5	8.4	41.6	49.1	39.0	47.4	37.7	32.6	46.9
Effective Green, g (s)	16.3	49.5	10.4	43.6	51.1	41.0	51.4	41.7	34.6	50.9
Actuated g/C Ratio	0.14	0.41	0.09	0.36	0.43	0.34	0.43	0.35	0.29	0.42
Clearance Time (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Vehicle Extension (s)	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Lane Grp Cap (vph)	457	655	292	1147	256	1186	704	300	1001	698
v/s Ratio Prot	c0.09	c0.40	c0.08	0.02	c0.11	0.16	0.01	0.01	0.27	0.02
v/c Ratio Perm	0.69	0.98	0.92	0.06	0.94	0.46	0.11	0.14	0.93	0.12
Uniform Delay, d1	49.5	34.7	54.4	24.9	32.9	30.9	20.6	26.3	41.5	21.0
Progression Factor	1.00	1.00	1.00	1.00	1.76	0.96	1.76	0.81	0.94	1.83
Incremental Delay, d2	4.5	29.6	31.7	0.0	36.5	1.2	0.1	0.2	14.7	0.1
Delay (s)	54.0	64.3	86.1	24.9	94.6	30.8	36.3	21.6	53.6	38.5
Level of Service	D	E	F	C	F	C	D	C	D	D
Approach Delay (s)	61.2		67.1		47.7				49.9	D
Approach LOS	E		E		D				D	D

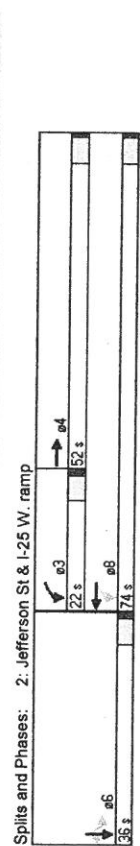


Intersection Summary
 HCM Average Control Delay 54.5
 HCM Volume to Capacity ratio 0.93
 Actuated Cycle Length (s) 120.0
 Intersection Capacity Utilization 84.2%
 Analysis Period (min) 15
 HCM Level of Service D
 Sum of lost time (s) 6.0
 ICU Level of Service E

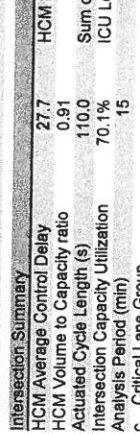
Analysis of Intersection #2

Jefferson St / I-25 West ramp

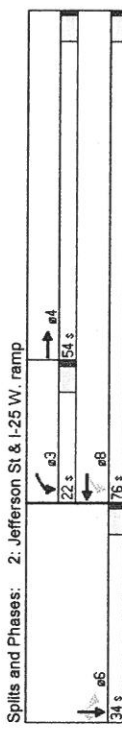
Lane Group	EBT	WBL	WBT	SBL	SBT	SBR
Lane Configurations	↑↑	↑↑	↑↑	↑↑	↑↑	↑↑
Volume (vph)	432	252	1748	314	497	209
Turn Type	pm-pt			Perm	Perm	Perm
Protected Phases	4	3	8	6	6	6
Permitted Phases						
Detector Phases	4	3	8	6	6	6
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	21.0	10.0	21.0	21.0	21.0	21.0
Total Split (s)	52.0	22.0	74.0	36.0	36.0	36.0
Total Split (%)	47.3%	20.0%	67.3%	32.7%	32.7%	32.7%
Yellow Time (s)	4.0	4.0	4.0	4.0	4.0	4.0
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0
Lead/Lag						
Lead-Lag Optimize?						
Recall Mode	Min	Min	Min	C-Min	C-Min	C-Min
Act Effect Green (s)	51.4	69.6	69.6	34.4	34.4	34.4
Actuated g/C Ratio	0.47	0.63	0.63	0.31	0.31	0.31
v/c Ratio	0.50	0.67	0.95	0.81	0.64	0.59
Control Delay	19.2	17.0	26.3	46.7	34.6	35.0
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	19.2	17.0	26.4	46.7	34.6	35.0
LOS	B	B	C	D	C	C
Approach Delay	19.2		25.2		38.4	
Approach LOS	B		C		D	
Intersection Summary						
Cycle Length: 110						
Actuated Cycle Length: 110						
Offset: 16 (15%), Referenced to phase 2: and 6: SBT _L , Start of Green						
Natural Cycle: 75						
Control Type: Actuated-Coordinated						
Maximum v/c Ratio: 0.95						
Intersection Signal Delay: 28.2						
Intersection Capacity Utilization 70.1%						
Analysis Period (min) 15						



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	↑↑	↑↑	↑↑	↑↑	↑↑	↑↑	↑↑	↑↑	↑↑	↑↑	↑↑	↑↑
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Lane Util. Factor	0.95	0.95	0.95	1.00	0.95	1.00	0.95	1.00	0.95	1.00	0.95	1.00
Fit Protected	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Satd. Flow (prot)	3221	3221	3221	1703	3406	1703	3406	1703	3406	1703	3406	1524
Fit Permitted	1.00	1.00	1.00	0.24	1.00	0.24	1.00	0.24	1.00	0.24	1.00	0.24
Satd. Flow (perm)	3221	3221	3221	432	3406	432	3406	432	3406	432	3406	1524
Volume (vph)	0	432	243	252	1748	0	0	0	0	0	314	497
Peak-hour factor, PHF	0.86	0.86	0.86	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.73
Adj. Flow (vph)	0	502	283	296	2056	0	0	0	0	0	430	681
RTOR Reduction (vph)	0	68	0	0	0	0	0	0	0	0	0	0
Lane Group Flow (vph)	0	717	0	296	2056	0	0	0	0	0	430	681
Heavy Vehicles (%)	6%	6%	6%	6%	6%	6%	6%	6%	6%	6%	6%	6%
Turn Type		4	3	8	pm-pt						6	6
Protected Phases												
Permitted Phases												
Actuated Green, G (s)		49.4	67.6	67.6	67.6						32.4	32.4
Effective Green, g (s)		51.4	69.6	69.6	69.6						34.4	34.4
Actuated g/C Ratio		0.47	0.63	0.63	0.63						0.31	0.31
Clearance Time (s)		5.0	5.0	5.0	5.0						5.0	5.0
Vehicle Extension (s)		3.0	3.0	3.0	3.0						3.0	3.0
Lane Grp. Cap. (vph)		1505	449	2155	449						533	1065
v/s Ratio Prot		0.22	0.09	0.60	0.60						0.20	0.20
v/s Ratio Perm		0.33	0.33	0.33	0.33						0.25	0.18
v/c Ratio		0.48	0.66	0.95	0.95						0.81	0.64
Uniform Delay, d1		20.1	11.6	18.7	18.7						34.7	32.5
Progression Factor		1.08	1.07	0.81	0.81						0.96	0.96
Incremental Delay, d2		0.2	3.2	9.9	9.9						11.8	2.8
Delay (s)		21.9	15.6	25.0	25.0						45.2	33.9
Level of Service		C	B	C	C						D	C
Approach Delay (s)		21.9		23.8							37.6	
Approach LOS		C		C							D	
Intersection Summary												
HCM Average Control Delay	27.7											
HCM Volume to Capacity ratio	0.91											
Actuated Cycle Length (s)	110.0											
Intersection Capacity Utilization	70.1%											
Analysis Period (min)	15											
c Critical Lane Group	C											

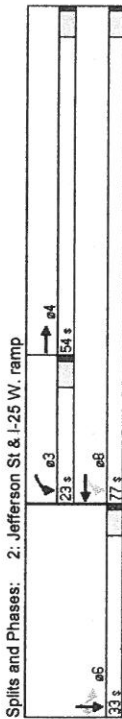


Lane Group	EBT	WBL	WBT	SBL	SBL	SBT	SBR
Lane Configurations	4	3	8	6	6	6	6
Volume (vph)	446	252	1877	335	507	209	Permitted
Turn Type	pm-pt						
Protected Phases	4	3	8	6	6	6	6
Permitted Phases	4	3	8	6	6	6	6
Detector Phases	4	3	8	6	6	6	6
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	21.0	10.0	21.0	21.0	21.0	21.0	21.0
Total Split (s)	54.0	22.0	76.0	34.0	34.0	34.0	34.0
Total Split (%)	49.1%	20.0%	69.1%	30.9%	30.9%	30.9%	30.9%
Yellow Time (s)	4.0	4.0	4.0	4.0	4.0	4.0	4.0
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lead/Lag	Lag	Lead					
Lead-Lag Optimize?							
Recall Mode	Min	Min	Min	C-Min	C-Min	C-Min	C-Min
Act Effct Green (s)	55.1	73.0	73.0	31.0	31.0	31.0	31.0
Actuated g/C Ratio	0.50	0.66	0.66	0.28	0.28	0.28	0.28
v/c Ratio	0.48	0.66	0.98	0.96	0.72	0.65	0.65
Control Delay	20.1	15.5	28.9	69.3	39.3	40.0	40.0
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	20.1	15.5	28.9	69.3	39.3	40.0	40.0
LOS	C	B	C	E	D	D	D
Approach Delay	20.1		27.3		49.0		
Approach LOS	C		C		D		
Intersection Summary							
Cycle Length: 110							
Actuated Cycle Length: 110							
Offset: 16 (15%), Referenced to phase 2: and 6.SBTL, Start of Green							
Natural Cycle: 80							
Control Type: Actuated-Coordinated							
Maximum v/c Ratio: 0.98							
Intersection Signal Delay: 32.6							
Intersection Capacity Utilization 74.8%							
Analysis Period (min) 15							



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Ideal Flow (vphpl)	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Total Lost time (s)	0.95	1.00	0.95	1.00	0.95	1.00	0.95	1.00	0.95	1.00	0.95	1.00
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Fit Protected	3222	3222	3222	1703	3406	1703	3406	1703	3406	1703	3406	1524
Satd. Flow (prot)	1.00	0.24	1.00	0.24	1.00	0.24	1.00	0.24	1.00	0.24	1.00	0.24
Fit Permitted	3222	438	3406	438	3406	438	3406	438	3406	438	3406	1524
Satd. Flow (perm)	0	446	250	252	1877	0	0	0	0	0	335	507
Volume (vph)	0	446	250	252	1877	0	0	0	0	0	335	507
Peak-hour factor, PHF	0.86	0.86	0.86	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.73
Adj. Flow (vph)	0	519	291	296	2208	0	0	0	0	0	459	695
RTOR Reduction (vph)	0	66	0	0	0	0	0	0	0	0	0	0
Lane Group Flow (vph)	0	744	0	296	2208	0	0	0	0	0	459	695
Heavy Vehicles (%)	6%	6%	6%	6%	6%	6%	6%	6%	6%	6%	6%	6%
Turn Type		pm-pt										
Protected Phases	4	3	8								6	6
Permitted Phases	4	3	8								6	6
Actuated Green, G (s)	53.1	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	29.0	29.0
Effective Green, g (s)	55.1	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	31.0	31.0
Actuated g/C Ratio	0.50	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.28	0.28
Clearance Time (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Vehicle Extension (s)	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Lane Grp Cap (vph)	1614	462	2260	462	2260	462	2260	462	2260	462	960	429
v/s Ratio Prot	0.23	0.09	c0.65								0.20	0.18
v/c Ratio Perm	0.46	0.64	0.98								c0.27	0.65
Uniform Delay, d1	17.8	10.1	17.7								38.8	35.6
Progression Factor	1.26	1.09	0.83								0.97	0.96
Incremental Delay, d2	0.2	2.7	12.8								30.6	4.5
Delay (s)	22.7	13.7	27.5								68.1	38.9
Level of Service	C	B	C								E	D
Approach Delay (s)	22.7		25.9								48.5	
Approach LOS	C		A								D	
Intersection Summary												
HCM Average Control Delay	32.2											
HCM Volume to Capacity ratio	0.97											
Actuated Cycle Length (s)	110.0											
Intersection Capacity Utilization	74.8%											
Analysis Period (min)	15											
c Critical Lane Group												

EBT	WBL	WBT	SBL	SBL	SBR
774	286	987	364	721	141
4	3	8	6	6	6
4	3	8	6	6	6
5.0	5.0	5.0	5.0	5.0	5.0
21.0	10.0	21.0	21.0	21.0	21.0
54.0	23.0	77.0	33.0	33.0	33.0
49.1% 20.9% 70.0% 30.0% 30.0% 30.0%					
4.0	4.0	4.0	4.0	4.0	4.0
1.0	1.0	1.0	1.0	1.0	1.0
Lead/Lag					
Lead-Lag Optimize?					
Min	Min	Min	C-Min	C-Min	C-Min
49.7	71.3	32.7	32.7	32.7	32.7
0.45	0.65	0.65	0.30	0.30	0.30
0.94	0.84	0.47	0.74	0.73	0.26
21.7	48.5	6.3	45.2	40.0	8.1
0.0	0.0	0.0	0.0	0.0	0.0
21.7	48.5	6.3	45.2	40.0	8.1
C	D	A	D	D	A
21.7	15.8	B	B	37.9	D
Approach LOS					
Intersection Summary					
Cycle Length: 110					
Actuated Cycle Length: 110					
Offset: 41 (37%), Referenced to phase 2: and 6:SBTL, Start of Green					
Natural Cycle: 70					
Control Type: Actuated-Coordinated					
Maximum v/c Ratio: 0.94					
Intersection Signal Delay: 24.8					
Intersection Capacity Utilization 84.7%					
Analysis Period (min) 15					
Intersection LOS: C					
ICU Level of Service E					



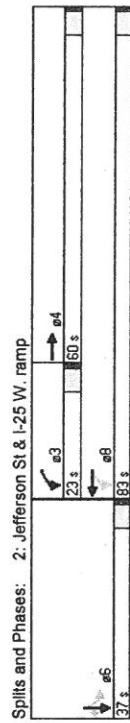
Splits and Phases: 2: Jefferson St & I-25 W. ramp

EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBR
1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
0.95	1.00	0.95	1.00	0.95	1.00	0.95	1.00	0.95	1.00	0.95
0.94	1.00	0.95	1.00	0.95	1.00	0.95	1.00	0.95	1.00	0.95
3196	1703	3406	1703	3406	1703	3406	1703	3406	1524	1524
1.00	0.08	1.00	0.08	1.00	0.08	1.00	0.08	1.00	0.08	1.00
3196	136	3406	136	3406	136	3406	136	3406	1524	1524
0	774	539	286	987	0	0	0	0	364	721
0.94	0.94	0.94	0.96	0.96	0.96	0.85	0.85	0.85	0.97	0.97
0	823	573	298	1028	0	0	0	0	375	743
0	49	0	0	0	0	0	0	0	0	0
0	1347	0	298	1028	0	0	0	0	375	743
6%	6%	6%	6%	6%	6%	6%	6%	6%	6%	6%
Heavy Vehicles (%)										
Turn Type										
Protected Phases										
Permitted Phases										
Actuated Green, G (s)										
Effective Green, g (s)										
Actuated g/C Ratio										
Clearance Time (s)										
Vehicle Extension (s)										
Lane Grp Cap (vph)										
v/s Ratio Prot										
v/c Ratio										
Uniform Delay, d1										
Progression Factor										
Incremental Delay, d2										
Delay (s)										
Level of Service										
Approach Delay (s)										
Approach LOS										
Intersection Summary										
HCM Average Control Delay										
HCM Volume to Capacity ratio										
Actuated Cycle Length (s)										
Intersection Capacity Utilization										
Analysis Period (min)										
Critical Lane Group										

2009 PM Peak NOBUILD Conditions

2009 PM Peak NOBUILD Conditions

Lane Group	EBT	WBL	WBT	SBL	SBR	SBL	SBR
Lane Configurations	↑↑	↑↑	↑↑	↑↑	↑↑	↑↑	↑↑
Volume (vph)	805	286	1084	409	769	141	Perm
Turn Type	pm+pt						
Protected Phases	4	3	8	8	6	6	6
Permitted Phases							
Detector Phases	4	3	8	8	6	6	6
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	21.0	10.0	21.0	21.0	21.0	21.0	37.0
Total Split (s)	60.0	23.0	83.0	37.0	37.0	37.0	37.0
Total Split (%)	50.0%	19.2%	69.2%	30.8%	30.8%	30.8%	30.8%
Yellow Time (s)	4.0	4.0	4.0	4.0	4.0	4.0	4.0
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lead/Lag	Lead						
Lead-Lag Optimize?							
Recall Mode	Min	Min	Min	C-Min	C-Min	C-Min	C-Min
Act Effect Green (s)	55.0	77.2	77.2	36.8	36.8	36.8	36.8
Actuated g/C Ratio	0.46	0.64	0.64	0.31	0.31	0.31	0.31
v/c Ratio	0.97	0.90	0.51	0.81	0.76	0.27	
Control Delay	23.5	81.5	4.5	43.6	35.1	5.5	
Queue Delay	0.0	0.0	0.2	0.0	0.0	0.0	
Total Delay	23.5	81.5	4.7	43.6	35.1	5.5	
LOS	C	E	A	D	D	D	A
Approach Delay	23.5		16.6		34.6		
Approach LOS	C		B		C		
Intersection Summary							
Cycle Length: 120							
Actuated Cycle Length: 120							
Offset: 75 (63%); Referenced to phase 2: and 6:SBTL, Start of Green							
Natural Cycle: 65							
Control Type: Actuated-Coordinated							
Maximum v/c Ratio: 0.97							
Intersection Signal Delay: 24.7							
Intersection Capacity Utilization 89.0%							
Analysis Period (min) 15							

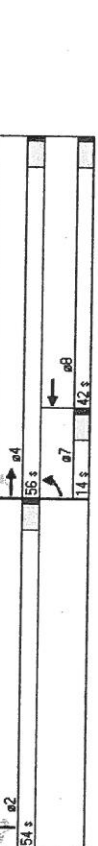


Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	↑↑	↑↑	↑↑	↑↑	↑↑	↑↑						
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)	3.0	3.0	3.0	3.0	3.0	3.0						
Lane Util. Factor	0.95	1.00	0.95	1.00	0.95	1.00	0.95	1.00	0.95	1.00	0.95	1.00
Flt Protected	1.00	1.00	1.00	1.00	1.00	1.00						
Satd. Flow (prot)	3194	3194	1703	3406	1703	3406						
Flt Permitted	1.00	0.07	1.00									
Satd. Flow (perm)	3194	124	3406									
Volume (vph)	0	805	570	286	1084	0	0	0	0	409	769	141
Peak-hour factor, PHF	0.94	0.94	0.94	0.96	0.96	0.96	0.85	0.85	0.85	0.97	0.97	0.97
Adj. Flow (vph)	0	856	606	298	1129	0	0	0	0	422	793	145
RTOR Reduction (vph)	0	39	0	0	0	0	0	0	0	0	0	0
Lane Group Flow (vph)	0	1423	0	298	1129	0	0	0	0	422	793	65
Heavy Vehicles (%)	6%	6%	6%	6%	6%	6%	6%	6%	6%	6%	6%	6%
Turn Type		4	3	8	pm+pt					6	6	6
Protected Phases					8							
Permitted Phases												
Actuated Green, G (s)		53.0	75.2	75.2	75.2					34.8	34.8	34.8
Effective Green, g (s)		55.0	77.2	77.2	77.2					36.8	36.8	36.8
Actuated g/C Ratio		0.46	0.64	0.64	0.64					0.31	0.31	0.31
Clearance Time (s)		5.0	5.0	5.0	5.0					5.0	5.0	5.0
Vehicle Extension (s)		3.0	3.0	3.0	3.0					3.0	3.0	3.0
Lane Grp. Cap. (vph)		1464	332	2191						522	1045	467
v/s Ratio Prot		c0.45	c0.14	0.33						c0.25	0.23	
v/c Ratio		0.97	0.43	0.43						0.81	0.76	0.14
Uniform Delay, d1		31.7	38.0	11.4						38.4	37.6	30.1
Progression Factor		0.66	1.08	0.34						0.78	0.78	0.47
Incremental Delay, d2		3.0	21.0	0.2						11.7	4.7	0.6
Delay (s)		23.8	62.2	4.1						41.7	34.1	14.9
Level of Service		C	E	A						D	C	B
Approach Delay (s)		23.8		16.2			0.0			34.4		
Approach LOS		C		B			A			C		
Intersection Summary												
HCM Average Control Delay	24.6											
HCM Volume to Capacity ratio	0.90											
Actuated Cycle Length (s)	120.0											
Intersection Capacity Utilization	89.0%											
Analysis Period (min)	15											
c Critical Lane Group												

Analysis of Intersection #3
Jefferson St / I-25 East ramp

	EBL	EBT	WBT	NBL	NBT	NBR
Lane Configurations	54	465	488	831	374	172
Volume (vph)						
Turn Type	pm+pt					Perm
Protected Phases	4	8	8	2	2	2
Permitted Phases	7	4	8	2	2	2
Detector Phases						
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	10.0	21.0	21.0	21.0	21.0	21.0
Total Split (s)	14.0	56.0	42.0	54.0	54.0	54.0
Total Split (%)	12.7%	50.9%	38.2%	49.1%	49.1%	49.1%
Yellow Time (s)	4.0	4.0	4.0	4.0	4.0	4.0
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0
Lead/Lag						
Lead						
Lag						
Lead-Lag Optimize?						
Recall Mode	Min	Min	Min	C-Min	C-Min	C-Min
Act Effect Green (s)	45.4	45.4	32.5	56.6	56.6	56.6
Actuated g/C Ratio	0.41	0.41	0.30	0.53	0.53	0.53
v/c Ratio	0.26	0.39	0.80	0.57	0.53	0.22
Control Delay	14.3	14.9	40.5	22.1	19.2	2.9
Queue Delay	0.0	0.0	0.0	0.6	0.1	0.0
Total Delay	14.3	14.9	40.5	22.8	19.3	2.9
LOS	B	B	D	C	B	A
Approach Delay						
Approach LOS	B	B	D	D	B	B

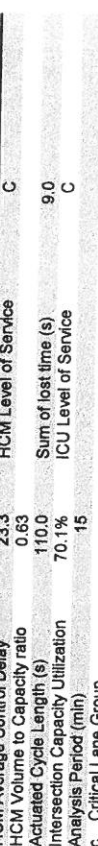
Intersection Summary
 Cycle Length: 110
 Offset: 78 (71%), Referenced to phase 2:NBL and 6:, Start of Green
 Natural Cycle: 60
 Control Type: Actuated-Coordinated
 Maximum v/c Ratio: 0.80
 Intersection Signal Delay: 23.6
 Intersection Capacity Utilization 70.1%
 Analysis Period (min) 15
 Intersection LOS: C
 ICU Level of Service C



Splits and Phases: 3: Jefferson St & I-25 E.ramp

	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Ideal Flow (vphpl)	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Total Lost time (s)	1.00	0.95	1.00	0.97	1.00	0.95	0.91	0.91	1.00	0.85	0.85	0.85
Lane Util. Factor	1.00	1.00	1.00	0.97	1.00	0.95	0.95	0.97	1.00	0.85	0.85	0.85
Fit Protected	0.95	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.85	0.85	0.85
Satd. Flow (prot)	1736	3471	3364	3364	3364	3364	1579	3240	1553	1553	1553	1553
Fit Permitted	0.11	1.00	1.00	1.00	1.00	1.00	0.95	0.97	1.00	0.85	0.85	0.85
Satd. Flow (perm)	206	3471	3364	3364	3364	3364	1579	3240	1553	1553	1553	1553
Volume (vph)	54	465	0	0	488	125	831	374	172	0	0	0
Peak-hour factor, PHF	0.83	0.83	0.83	0.75	0.75	0.87	0.87	0.87	0.87	0.85	0.85	0.85
Adj. Flow (vph)	66	560	0	0	648	167	955	430	198	0	0	0
RTOR Reduction (vph)	0	0	0	0	23	0	0	0	93	0	0	0
Lane Group Flow (vph)	65	560	0	0	792	0	478	907	105	0	0	0
Heavy Vehicles (%)	4%	4%	4%	4%	4%	4%	4%	4%	4%	4%	4%	4%
Turn Type	pm+pt											
Protected Phases	7	4										
Permitted Phases	4	4	8						2			
Actuated Green, G (s)	43.4	43.4	30.5						56.6			
Effective Green, g (s)	45.4	45.4	32.5						58.6			
Actuated g/C Ratio	0.41	0.41	0.30						0.53			
Clearance Time (s)	5.0	5.0	5.0						5.0			
Vehicle Extension (s)	3.0	3.0	3.0						3.0			
Lane Grp Cap (vph)	223	1433	984						841			
v/s Ratio Prot	0.03	c0.16	c0.24						c0.30			
v/c Ratio	0.29	0.39	0.80						0.57			
Uniform Delay, d1	22.7	22.6	35.7						17.2			
Progression Factor	0.70	0.65	1.00						1.00			
Incremental Delay, d2	0.6	0.1	4.5						2.8			
Delay (s)	16.4	14.8	40.2						20.0			
Level of Service	B	B	D						C			
Approach Delay (s)												
Approach LOS	B	B	D						C			

Intersection Summary
 HCM Average Control Delay 23.3
 HCM Volume to Capacity ratio 0.63
 Actuated Cycle Length (s) 110.0
 Intersection Capacity Utilization 70.1%
 Analysis Period (min) 15
 Sum of lost time (s) 9.0
 ICU Level of Service C
 Critical Lane Group: C

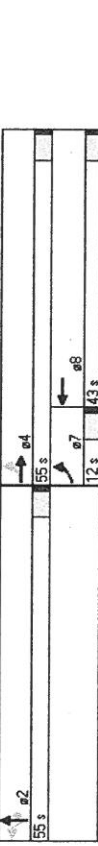


Splits and Phases: 3: Jefferson St & I-25 E.ramp

Timings
3: Jefferson St & I-25 E.ramp

	EBL	EBT	WBT	NBL	NBT	NBR	
Lane Group	EBL	EBT	WBT	NBL	NBT	NBR	
Lane Configurations	54	500	545	900	374	172	
Volume (vph)	54	500	545	900	374	172	
Turn Type	pm+pt			Perm	Perm	Perm	
Protected Phases	7	4	8	2	2	2	
Permitted Phases	4	4	8	2	2	2	
Detector Phases	5.0	5.0	5.0	5.0	5.0	5.0	
Minimum Initial (s)	10.0	21.0	21.0	21.0	21.0	21.0	
Minimum Split (s)	12.0	55.0	43.0	55.0	55.0	55.0	
Total Split (s)	10.9%	50.0%	39.1%	50.0%	50.0%	50.0%	
Total Split (%)	4.0	4.0	4.0	4.0	4.0	4.0	
Yellow Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	
All-Red Time (s)	Lead						
Lead/Lag	Min	Min	Min	C-Min	C-Min	C-Min	
Lead-Lag Optimize?	47.3	47.3	35.2	56.7	56.7	56.7	
Recall Mode	0.43	0.43	0.32	0.52	0.52	0.52	
Act Effect Green (s)	0.28	0.40	0.81	0.64	0.57	0.22	
Actuated g/C Ratio	14.9	16.2	39.6	24.9	20.8	2.9	
v/c Ratio	0.0	0.0	0.0	0.6	0.1	0.0	
Control Delay	14.9	16.2	39.6	25.4	20.9	2.9	
Queue Delay	B	B	D	C	C	C	
Total Delay	16.1	16.1	39.6	20.1	20.1	20.1	
LOS	B	B	D	C	C	C	
Approach Delay	B	B	D	C	C	C	
Approach LOS	B	B	D	C	C	C	

Intersection Summary
Cycle Length: 110
Actuated Cycle Length: 110
Offset: 74 (67%), Referenced to phase 2:NBTL and 6:, Start of Green
Natural Cycle: 60
Control Type: Actuated-Coordinated
Maximum v/c Ratio: 0.81
Intersection Signal Delay: 24.7
Intersection Capacity Utilization 74.8%
Analysis Period (min) 15

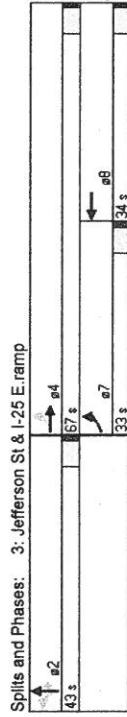


HCM Signalized Intersection Capacity Analysis
3: Jefferson St & I-25 E.ramp

	EBL	EBT	WBT	NBL	NBT	NBR	
Lane Configurations	EBL	EBT	WBT	NBL	NBT	NBR	
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	
Total Lost time (s)	3.0	3.0	3.0	3.0	3.0	3.0	
Lane Util. Factor	1.00	0.95	0.95	0.91	0.91	1.00	
FL Protected	1.00	1.00	0.97	1.00	1.00	0.85	
Satd. Flow (prot)	1736	3471	3374	1579	3237	1553	
Fit Permitted	0.10	1.00	1.00	0.95	0.97	1.00	
Satd. Flow (perm)	191	3471	3374	1579	3237	1553	
Volume (vph)	54	500	0	545	125	900	
Peak-hour factor, PHF	0.83	0.83	0.75	0.75	0.87	0.87	
Adj. Flow (vph)	65	602	0	727	167	1034	
RTOR Reduction (vph)	0	0	0	19	0	0	
Lane Group Flow (vph)	65	602	0	875	0	517	
Heavy Vehicles (%)	4%	4%	4%	4%	4%	4%	
Turn Type	pm+pt						
Protected Phases	7	4	8	2	2	2	
Permitted Phases	4	45.3	33.2	54.7	54.7	54.7	
Actuated Green, G (s)	47.3	47.3	35.2	56.7	56.7	56.7	
Effective Green, g (s)	0.43	0.43	0.32	0.52	0.52	0.52	
Actuated g/C Ratio	5.0	5.0	5.0	5.0	5.0	5.0	
Clearance Time (s)	3.0	3.0	3.0	3.0	3.0	3.0	
Vehicle Extension (s)	210	1493	1080	814	1669	801	
Lane Grp Cap (vph)	0.03	c0.17	c0.26	c0.33	0.29	0.07	
v/s Ratio Prot	0.11	0.31	0.40	0.81	0.57	0.13	
v/c Ratio	22.1	21.6	34.3	19.2	18.3	13.8	
Uniform Delay, d1	0.74	0.74	1.00	1.00	1.00	1.00	
Progression Factor	0.6	0.1	4.7	3.8	1.4	0.3	
Incremental Delay, d2	17.0	16.1	39.0	23.0	19.7	14.1	
Delay (s)	B	B	D	C	B	B	
Level of Service	B	B	D	C	B	B	
Approach Delay (s)	16.2	16.2	39.0	20.0	20.0	20.0	
Approach LOS	B	B	D	C	B	B	

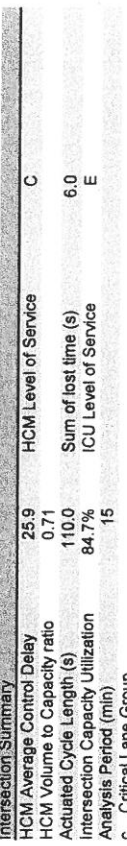
Intersection Summary
HCM Average Control Delay: 24.5
HCM Level of Service: C
HCM Volume to Capacity ratio: 0.68
Actuated Cycle Length (s): 110.0
Sum of lost time (s): 9.0
Intersection Capacity Utilization: 74.8%
ICU Level of Service: D
Analysis Period (min): 15
Critical Lane Group

EBL	EBT	WBT	NBL	NBT	NBR
329	714	463	564	609	239
pm+pt			Perm	Perm	Perm
7	4	8	2	2	2
4	8	2	2	2	2
5.0	5.0	5.0	5.0	5.0	5.0
10.0	21.0	21.0	21.0	21.0	21.0
33.0	67.0	34.0	43.0	43.0	43.0
30.0%	60.9%	30.9%	39.1%	39.1%	39.1%
4.0	4.0	4.0	4.0	4.0	4.0
1.0	1.0	1.0	1.0	1.0	1.0
Lead		Leg			
Min	Min	Min	C-Min	C-Min	C-Min
59.2	59.2	28.4	44.8	44.8	44.8
0.54	0.54	0.26	0.41	0.41	0.41
0.78	0.46	0.83	0.62	0.63	0.35
27.4	6.1	41.5	32.8	29.8	10.8
0.0	0.0	0.0	0.0	0.0	0.0
27.4	6.1	41.5	32.8	29.8	10.8
C	A	D	C	C	B
12.8	41.5		27.4		C
B	D				
Intersection Summary					
Cycle Length: 110					
Actuated Cycle Length: 110					
Offset: 85 (77%), Referenced to phase 2:NBL and 6.: Start of Green					
Natural Cycle: 55					
Control Type: Actuated-Coordinated					
Maximum v/c Ratio: 0.83					
Intersection Signal Delay: 25.3					
Intersection Capacity Utilization 84.7%					
Analysis Period (min) 15					
Intersection LOS: C					
ICU Level of Service E					



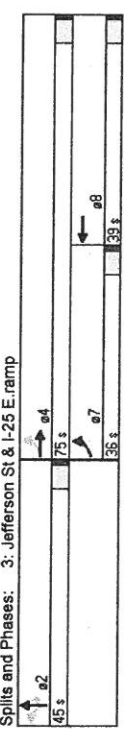
Splits and Phases: 3: Jefferson St & I-25 E.ramp

EBL	EBT	WBT	NBL	NBT	NBR
3.0	3.0	3.0	3.0	3.0	3.0
1.00	0.95	0.95	1.00	1.00	1.00
1.00	0.95	1.00	1.00	1.00	1.00
1738	3471	3279	1579	3287	1553
0.13	1.00	1.00	0.95	0.99	1.00
233	3471	3279	1579	3287	1553
329	714	0	463	271	564
0.84	0.84	0.84	0.95	0.95	0.95
392	850	0	487	252	641
0	0	0	79	0	0
392	850	0	693	0	398
4%	4%	4%	4%	4%	4%
7	4	8	2	2	2
4	8	2	2	2	2
57.2	57.2	26.4	42.8	42.8	42.8
59.2	59.2	28.4	44.8	44.8	44.8
0.54	0.54	0.26	0.41	0.41	0.41
5.0	5.0	5.0	5.0	5.0	5.0
3.0	3.0	3.0	3.0	3.0	3.0
505	1868	847	643	1339	632
0.20	0.24	0.21	0.25	0.25	0.10
0.22	0.46	0.82	0.62	0.63	0.25
0.78	0.46	0.82	0.62	0.63	0.25
26.8	15.5	38.4	25.8	25.9	21.5
0.82	0.37	1.00	1.00	1.00	1.00
3.8	0.1	6.2	4.4	2.2	0.9
25.8	5.9	44.5	30.3	28.1	22.4
C	A	D	C	C	C
12.2	44.5		27.7		C
B	D				
Intersection Summary					
HCM Average Control Delay 25.9					
HCM Volume to Capacity ratio 0.71					
Actuated Cycle Length (s) 110.0					
Intersection Capacity Utilization 84.7%					
Analysis Period (min) 15					
ICU Level of Service E					



Splits and Phases: 3: Jefferson St & I-25 E.ramp

Movement	EBL	EBT	WBT	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	329	790	530	594	609	239	Perm	Perm	Perm	Perm	Perm	Perm
Volume (vph)	329	790	530	594	609	239						
Actuated Green, G (s)	66.6	33.8	47.4	47.4	47.4	31.6						
Effective Green, g (s)	66.6	33.8	47.4	47.4	47.4	31.6						
Actuated g/C Ratio	0.56	0.56	0.28	0.40	0.40	0.40						
v/c Ratio	0.80	0.49	0.86	0.65	0.68	0.36						
Control Delay	31.6	12.3	46.6	37.4	34.0	13.9						
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0						
Total Delay	31.6	12.3	46.6	37.4	34.0	13.9						
LOS	C	B	D	D	D	C						
Approach Delay	18.0	46.6			31.6							
Approach LOS	B	D			C							
Intersection Summary												
Cycle Length	120											
Actuated Cycle Length	120											
Offset: 16 (13%), Referenced to phase 2:NBL and 6: Start of Green												
Natural Cycle: 55												
Control Type: Actuated-Coordinated												
Maximum v/c Ratio: 0.86												
Intersection Signal Delay: 30.1												
Intersection LOS: C												
Intersection Capacity Utilization 89.0%												
Analysis Period (min) 15												



Splits and Phases: 3: Jefferson St & I-25 E.ramp

Movement	EBL	EBT	WBT	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	329	790	530	594	609	239	Perm	Perm	Perm	Perm	Perm	Perm
Volume (vph)	329	790	530	594	609	239						
Actuated Green, G (s)	66.6	33.8	47.4	47.4	47.4	31.6						
Effective Green, g (s)	66.6	33.8	47.4	47.4	47.4	31.6						
Actuated g/C Ratio	0.56	0.56	0.28	0.40	0.40	0.40						
v/c Ratio	0.80	0.49	0.86	0.65	0.68	0.36						
Control Delay	31.6	12.3	46.6	37.4	34.0	13.9						
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0						
Total Delay	31.6	12.3	46.6	37.4	34.0	13.9						
LOS	C	B	D	D	D	C						
Approach Delay	18.0	46.6			31.6							
Approach LOS	B	D			C							
Intersection Summary												
Cycle Length	120											
Actuated Cycle Length	120											
Offset: 16 (13%), Referenced to phase 2:NBL and 6: Start of Green												
Natural Cycle: 55												
Control Type: Actuated-Coordinated												
Maximum v/c Ratio: 0.86												
Intersection Signal Delay: 30.1												
Intersection LOS: C												
Intersection Capacity Utilization 89.0%												
Analysis Period (min) 15												

Splits and Phases: 3: Jefferson St & I-25 E.ramp

Movement	EBL	EBT	WBT	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	329	790	530	594	609	239	Perm	Perm	Perm	Perm	Perm	Perm
Volume (vph)	329	790	530	594	609	239						
Actuated Green, G (s)	66.6	33.8	47.4	47.4	47.4	31.6						
Effective Green, g (s)	66.6	33.8	47.4	47.4	47.4	31.6						
Actuated g/C Ratio	0.56	0.56	0.28	0.40	0.40	0.40						
v/c Ratio	0.80	0.49	0.86	0.65	0.68	0.36						
Control Delay	31.6	12.3	46.6	37.4	34.0	13.9						
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0						
Total Delay	31.6	12.3	46.6	37.4	34.0	13.9						
LOS	C	B	D	D	D	C						
Approach Delay	18.0	46.6			31.6							
Approach LOS	B	D			C							
Intersection Summary												
Cycle Length	120											
Actuated Cycle Length	120											
Offset: 16 (13%), Referenced to phase 2:NBL and 6: Start of Green												
Natural Cycle: 55												
Control Type: Actuated-Coordinated												
Maximum v/c Ratio: 0.86												
Intersection Signal Delay: 30.1												
Intersection LOS: C												
Intersection Capacity Utilization 89.0%												
Analysis Period (min) 15												

Splits and Phases: 3: Jefferson St & I-25 E.ramp

Movement	EBL	EBT	WBT	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	329	790	530	594	609	239	Perm	Perm	Perm	Perm	Perm	Perm
Volume (vph)	329	790	530	594	609	239						
Actuated Green, G (s)	66.6	33.8	47.4	47.4	47.4	31.6						
Effective Green, g (s)	66.6	33.8	47.4	47.4	47.4	31.6						
Actuated g/C Ratio	0.56	0.56	0.28	0.40	0.40	0.40						
v/c Ratio	0.80	0.49	0.86	0.65	0.68	0.36						
Control Delay	31.6	12.3	46.6	37.4	34.0	13.9						
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0						
Total Delay	31.6	12.3	46.6	37.4	34.0	13.9						
LOS	C	B	D	D	D	C						
Approach Delay	18.0	46.6			31.6							
Approach LOS	B	D			C							
Intersection Summary												
Cycle Length	120											
Actuated Cycle Length	120											
Offset: 16 (13%), Referenced to phase 2:NBL and 6: Start of Green												
Natural Cycle: 55												
Control Type: Actuated-Coordinated												
Maximum v/c Ratio: 0.86												
Intersection Signal Delay: 30.1												
Intersection LOS: C												
Intersection Capacity Utilization 89.0%												
Analysis Period (min) 15												

Splits and Phases: 3: Jefferson St & I-25 E.ramp

Movement	EBL	EBT	WBT	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	329	790	530	594	609	239	Perm	Perm	Perm	Perm	Perm	Perm
Volume (vph)	329	790	530	594	609	239						
Actuated Green, G (s)	66.6	33.8	47.4	47.4	47.4	31.6						
Effective Green, g (s)	66.6	33.8	47.4	47.4	47.4	31.6						
Actuated g/C Ratio	0.56	0.56	0.28	0.40	0.40	0.40						
v/c Ratio	0.80	0.49	0.86	0.65	0.68	0.36						
Control Delay	31.6	12.3	46.6	37.4	34.0	13.9						
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0						
Total Delay	31.6	12.3	46.6	37.4	34.0	13.9						
LOS	C	B	D	D	D	C						
Approach Delay	18.0	46.6			31.6							
Approach LOS	B	D			C							
Intersection Summary												
Cycle Length	120											
Actuated Cycle Length	120											
Offset: 16 (13%), Referenced to phase 2:NBL and 6: Start of Green												
Natural Cycle: 55												
Control Type: Actuated-Coordinated												
Maximum v/c Ratio: 0.86												
Intersection Signal Delay: 30.1												
Intersection LOS: C												
Intersection Capacity Utilization 89.0%												
Analysis Period (min) 15												

Splits and Phases: 3: Jefferson St & I-25 E.ramp

Movement	EBL	EBT	WBT	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	329	790	530	594	609	239	Perm	Perm	Perm	Perm	Perm	Perm
Volume (vph)	329	790	530	594	609	239						
Actuated Green, G (s)	66.6	33.8	47.4	47.4	47.4	31.6						
Effective Green, g (s)	66.6	33.8	47.4	47.4	47.4	31.6						
Actuated g/C Ratio	0.56	0.56	0.28	0.40	0.40	0.40						
v/c Ratio	0.80	0.49	0.86	0.65	0.68	0.36						
Control Delay	31.6	12.3	46.6	37.4	34.0	13.9						
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0						
Total Delay	31.6	12.3	46.6	37.4	34.0	13.9						
LOS	C	B	D	D	D	C						
Approach Delay	18.0	46.6			31.6							
Approach LOS	B	D			C							
Intersection Summary												
Cycle Length	120											
Actuated Cycle Length	120											
Offset: 16 (13%), Referenced to phase 2:NBL and 6: Start of Green												
Natural Cycle: 55												
Control Type: Actuated-Coordinated												
Maximum v/c Ratio: 0.86												
Intersection Signal Delay: 30.1												
Intersection LOS: C												
Intersection Capacity Utilization 89.0%												
Analysis Period (min) 15												

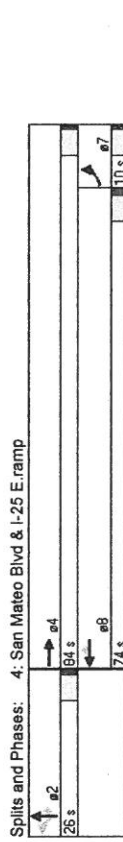
Splits and Phases: 3: Jefferson St & I-25 E.ramp

Movement	EBL	EBT	WBT	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	329	790	530	594	609	239	Perm	Perm	Perm	Perm	Perm	Perm
Volume (vph)	329	790	530	594	609	239						
Actuated Green, G (s)	66.6	33.8	47.4	47.4	47.4	31.6						
Effective Green, g (s)	66.6	33.8	47.4	47.4	47.4	31.6						
Actuated g/C Ratio	0.56	0.56	0.28	0.40	0.40	0.40						
v/c Ratio	0.80	0.49	0.86	0.65	0.68	0.36						
Control Delay	31.6	12.3	46.6	37.4	34.0	13.9						
Queue Delay	0.0	0.0	0									

Analysis of Intersection #4

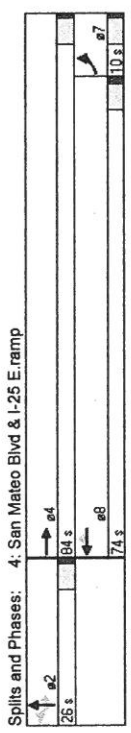
San Mateo Blvd / I-25 East ramp

EBL	EBT	WBT	WBR	NBL	NBT	NBR
189	1410	2520	538	472	341	277
7	4	8	8	2	2	2
7	4	8	8	2	2	2
5.0	5.0	5.0	5.0	5.0	5.0	5.0
10.0	21.0	21.0	21.0	21.0	21.0	21.0
10.0	84.0	74.0	74.0	26.0	26.0	26.0
9.1% 76.4% 67.3% 87.3% 23.6% 23.6% 23.6%						
4.0	4.0	4.0	4.0	4.0	4.0	4.0
1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lead-Lag Optimize?						
Min	Min	Min	Min	Min	Min	Min
7.0	81.0	71.0	71.0	23.0	23.0	23.0
0.06	0.74	0.65	0.65	0.21	0.21	0.21
1.12	0.49	1.37	0.67	0.80	1.08	0.92
107.0	1.1	189.7	15.0	47.6	103.1	66.1
0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.0	1.1	189.7	15.0	47.6	103.1	66.1
F	A	F	B	D	F	E
Approach Delay 13.6 158.9						
Approach LOS B F E						
Intersection Summary						
Cycle Length: 110						
Actuated Cycle Length: 110						
Offset: 47 (43%), Referenced to phase 2:NBTL and 6., Start of Green						
Natural Cycle: 130						
Control Type: Actuated-Coordinated						
Maximum v/c Ratio: 1.37						
Intersection Signal Delay: 99.3						
Intersection Capacity Utilization: 108.7%						
Analysis Period (min): 15						

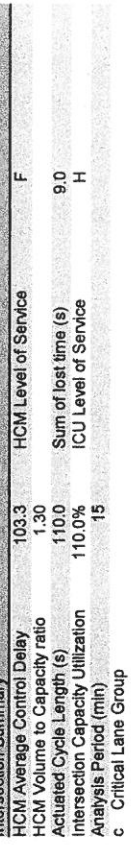


EBL	EBT	WBT	WBR	NBL	NBT	NBR
1900	1900	1900	1900	1900	1900	1900
3.0	3.0	3.0	3.0	3.0	3.0	3.0
0.97	0.91	0.91	0.97	1.00	1.00	1.00
1.00	1.00	1.00	0.85	1.00	0.85	1.00
3367	4988	3325	1413	3367	1827	1553
0.95	1.00	1.00	1.00	0.96	1.00	1.00
3367	4988	3325	1413	3367	1827	1553
189	1410	0	2520	538	472	341
0.79	0.79	0.79	0.86	0.86	0.84	0.84
239	1785	0	2930	628	562	406
0	0	0	0	24	0	0
239	1785	0	2930	602	562	406
4%	4%	4%	4%	4%	4%	4%
Turn Type Prot 7 4 Perm Perm Perm						
Protected Phases 8 2 2						
Permitted Phases 8 2 2						
Actuated Green, G (s) 5.0 79.0 69.0 69.0 21.0 21.0 21.0						
Effective Green, g (s) 7.0 81.0 71.0 71.0 23.0 23.0 23.0						
Actuated g/C Ratio 0.06 0.74 0.65 0.65 0.21 0.21 0.21						
Clearance Time (s) 5.0 5.0 5.0 5.0 5.0 5.0 5.0						
Vehicle Extension (s) 3.0 3.0 3.0 3.0 3.0 3.0 3.0						
Lane Grp Cap (vph) 214 3673 2146 912 704 382 325						
v/s Ratio Prot c0.07 0.36 c0.88						
v/s Ratio Perm 1.12 0.49 0.43 0.17 0.43 0.17 0.19						
Uniform Delay, d1 51.5 6.0 1.37 0.66 0.80 1.06 0.91						
Progression Factor 1.02 0.18 19.5 12.0 41.3 43.5 42.5						
Incremental Delay, d2 59.0 0.0 167.5 1.7 9.0 63.0 31.4						
Delay (s) 111.4 1.1 187.0 13.8 47.1 103.6 70.3						
Level of Service F A F B D F E						
Approach Delay (s) 14.1 156.5 70.7						
Approach LOS B F E						
Intersection Summary						
HCM Average Control Delay 98.4 HCM Level of Service F						
HCM Volume to Capacity ratio 1.28						
Actuated Cycle Length (s) 110.0 Sum of lost time (s) 9.0						
Intersection Capacity Utilization 108.7% ICU Level of Service G						
Analysis Period (min) 15						
c Critical Lane Group						

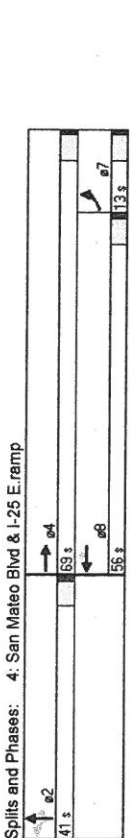
	EBL	EBT	WBT	WBR	NBL	NBT	NBR
Lane Group	W	W	W	W	W	W	W
Lane Configurations	AAA	AAA	AAA	AAA	AAA	AAA	AAA
Ideal Flow (vphpl)	202	1429	2555	538	472	341	277
Total Flow (vph)	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Turn Type	Prot	Perm	Perm	Perm	Perm	Perm	Perm
Protected Phases	7	4	8	8	2	2	2
Permitted Phases	7	4	8	8	2	2	2
Detector Phases	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Initial (s)	10.0	21.0	21.0	21.0	21.0	21.0	21.0
Minimum Split (s)	10.0	84.0	74.0	26.0	26.0	26.0	26.0
Total Split (s)	9.1% 76.4% 67.3% 23.6% 23.6% 23.6%						
Yellow Time (s)	4.0	4.0	4.0	4.0	4.0	4.0	4.0
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lag	Lead Lag						
Lead-Lag Optimizes?	Min Min Min C-Min C-Min C-Min C-Min						
Recall Mode	7.0	81.0	71.0	71.0	23.0	23.0	23.0
Act/Effect Green (s)	0.06	0.74	0.65	0.65	0.21	0.21	0.21
Actuated g/C Ratio	1.20	0.49	1.38	0.87	0.80	1.06	0.93
v/c Ratio	137.5	1.1	198.2	15.0	46.9	102.5	66.7
Control Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Queue Delay	137.5	1.1	198.2	15.0	46.9	102.5	66.7
Total Delay	F	A	F	B	D	F	E
LOS	Approach Delay 18.0 166.3 B F E						
Approach LOS	Intersection Summary						
Cycle Length: 110	Cycle Length: 110						
Actuated Cycle Length: 110	Actuated Cycle Length: 110						
Offset: 46 (42%), Referenced to phase 2:NBTL and 6:, Start of Green	Offset: 46 (42%), Referenced to phase 2:NBTL and 6:, Start of Green						
Natural Cycle: 130	Natural Cycle: 130						
Control Type: Actuated-Coordinated	Control Type: Actuated-Coordinated						
Maximum v/c Ratio: 1.38	Maximum v/c Ratio: 1.38						
Intersection Signal Delay: 104.2	Intersection Signal Delay: 104.2						
Intersection Capacity Utilization 110.0%	Intersection Capacity Utilization 110.0%						
Analysis Period (min) 15	Analysis Period (min) 15						



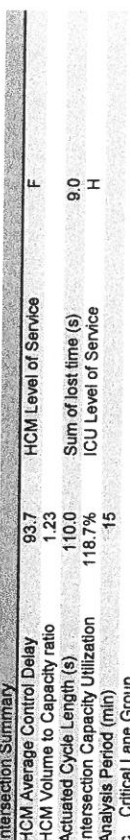
	EBL	EBT	WBT	WBR	NBL	NBT	NBR
Lane Group	W	W	W	W	W	W	W
Lane Configurations	AAA	AAA	AAA	AAA	AAA	AAA	AAA
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900
Total Flow (vph)	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Turn Type	Prot	Perm	Perm	Perm	Perm	Perm	Perm
Protected Phases	7	4	8	8	2	2	2
Permitted Phases	7	4	8	8	2	2	2
Detector Phases	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Initial (s)	10.0	21.0	21.0	21.0	21.0	21.0	21.0
Minimum Split (s)	10.0	84.0	74.0	26.0	26.0	26.0	26.0
Total Split (s)	9.1% 76.4% 67.3% 23.6% 23.6% 23.6%						
Yellow Time (s)	4.0	4.0	4.0	4.0	4.0	4.0	4.0
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lag	Lead Lag						
Lead-Lag Optimizes?	Min Min Min C-Min C-Min C-Min C-Min						
Recall Mode	7.0	81.0	71.0	71.0	23.0	23.0	23.0
Act/Effect Green (s)	0.06	0.74	0.65	0.65	0.21	0.21	0.21
Actuated g/C Ratio	1.20	0.49	1.38	0.87	0.80	1.06	0.93
v/c Ratio	137.5	1.1	198.2	15.0	46.9	102.5	66.7
Control Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Queue Delay	137.5	1.1	198.2	15.0	46.9	102.5	66.7
Total Delay	F	A	F	B	D	F	E
LOS	Approach Delay 18.0 166.3 B F E						
Approach LOS	Intersection Summary						
Cycle Length: 110	Cycle Length: 110						
Actuated Cycle Length: 110	Actuated Cycle Length: 110						
Offset: 46 (42%), Referenced to phase 2:NBTL and 6:, Start of Green	Offset: 46 (42%), Referenced to phase 2:NBTL and 6:, Start of Green						
Natural Cycle: 130	Natural Cycle: 130						
Control Type: Actuated-Coordinated	Control Type: Actuated-Coordinated						
Maximum v/c Ratio: 1.38	Maximum v/c Ratio: 1.38						
Intersection Signal Delay: 104.2	Intersection Signal Delay: 104.2						
Intersection Capacity Utilization 110.0%	Intersection Capacity Utilization 110.0%						
Analysis Period (min) 15	Analysis Period (min) 15						



Lane Group	EBL	EBT	WBT	WBR	NBL	NBT	NBR
Lane Configurations	↔	↔	↔	↔	↔	↔	↔
Volume (vph)	325	1896	1841	910	299	738	429
Prot	7	4	8	8	2	2	2
Permitted Phases							
Detector Phases	7	4	8	8	2	2	2
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	10.0	21.0	21.0	21.0	21.0	21.0	21.0
Total Split (s)	13.0	69.0	56.0	56.0	41.0	41.0	41.0
Total Split (%)	11.8%	62.7%	50.9%	50.9%	37.3%	37.3%	37.3%
Yellow Time (s)	4.0	4.0	4.0	4.0	4.0	4.0	4.0
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lead/Lag							
Lead-Lag Optimize?							
Recall Mode	Min	Min	Min	Min	C-Min	C-Min	C-Min
Act Effect Green (s)	10.0	66.0	53.0	38.0	38.0	38.0	38.0
Actuated g/C Ratio	0.09	0.60	0.48	0.48	0.35	0.35	0.35
v/c Ratio	1.11	0.66	1.27	1.27	0.26	1.21	0.81
Control Delay	90.7	3.8	155.6	158.1	23.3	135.4	38.7
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	90.7	3.8	155.6	158.1	23.3	135.4	38.7
LOS	F	A	F	F	C	F	D
Approach Delay		16.6	156.4			84.3	
Approach LOS		B	F			F	
Intersection Summary							
Cycle Length: 110							
Actuated Cycle Length: 110							
Offset: 38 (35%), Referenced to phase 2:NBTL and 6: Start of Green							
Natural Cycle: 120							
Control Type: Actuated-Coordinated							
Maximum v/c Ratio: 1.27							
Intersection Signal Delay: 92.3							
Intersection Capacity Utilization 118.7%							
Analysis Period (min): 15							

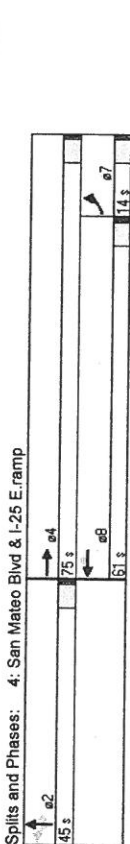


Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	↔	↔	↔	↔	↔	↔	↔	↔	↔	↔	↔	↔
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)	3.0	3.0		3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Lane Util. Factor	0.97	0.91		0.91	0.97	0.97	1.00	1.00	1.00	1.00	1.00	1.00
Fit Protected	1.00	1.00		1.00	0.85	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Satd. Flow (prot)	3367	4988		3307	1413	3367	1827	1553	1553	1553	1553	1553
Fit Permitted	0.95	1.00		1.00	1.00	0.95	1.00	1.00	1.00	1.00	1.00	1.00
Satd. Flow (perm)	3367	4988		3307	1413	3367	1827	1553	1553	1553	1553	1553
Volume (vph)	325	1896	0	0	1841	910	299	738	429	0	0	0
Peak-hour factor, PHF	0.96	0.96	0.96	0.94	0.94	0.94	0.97	0.97	0.97	0.85	0.85	0.85
Adj. Flow (vph)	339	1975	0	0	1959	968	308	761	442	0	0	0
RTOR Reduction (vph)	0	0	0	0	2	25	0	0	0	8	0	0
Lane Group Flow (vph)	339	1975	0	0	2030	870	308	761	434	0	0	0
Heavy Vehicles (%)	4%	4%	4%	4%	4%	4%	4%	4%	4%	4%	4%	4%
Turn Type	Prot	7	4		8	8	2	2	2			
Permitted Phases												
Actuated Green, G (s)	8.0	64.0		51.0	51.0	36.0	36.0	36.0	36.0			
Effective Green, g (s)	10.0	66.0		53.0	53.0	38.0	38.0	38.0	38.0			
Actuated g/C Ratio	0.09	0.60		0.48	0.48	0.35	0.35	0.35	0.35			
Clearance Time (s)	5.0	5.0		5.0	5.0	5.0	5.0	5.0	5.0			
Vehicle Extension (s)	3.0	3.0		3.0	3.0	3.0	3.0	3.0	3.0			
Lane Grp Cap (vph)	306	2983		1593	681	1163	631	536	536			
v/s Ratio Prot	c0.10	0.40		0.61			c0.42					
v/c Ratio	1.11	0.66		1.27	1.28	0.26	1.21	0.81	0.81			
Uniform Delay, d1	50.0	14.6		26.5	28.5	25.9	36.0	32.7	32.7			
Progression Factor	0.75	0.25		1.00	1.00	0.87	0.91	0.87	0.87			
Incremental Delay, d2	53.5	0.0		128.5	136.1	0.4	104.3	10.0	10.0			
Delay (s)	91.2	3.7		157.0	164.6	23.1	136.9	38.4	38.4			
Level of Service	F	A		F	F	C	F	D	D			
Approach Delay (s)	16.5			159.3			84.9					0.0
Approach LOS	B			F			F					A
Intersection Summary												
HCM Average Control Delay	93.7 HCM Level of Service F											
HCM Volume to Capacity ratio	1.23											
Actuated Cycle Length (s)	110.0 Sum of lost time (s) 9.0											
Intersection Capacity Utilization	118.7% ICU Level of Service H											
Analysis Period (min)	15											
c Critical Lane Group												

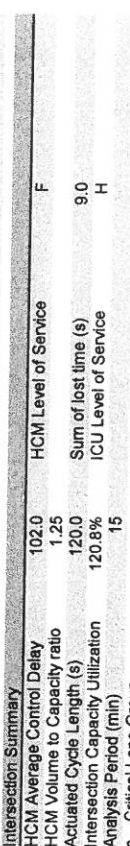


EBL	EBT	WBT	WBR	NBL	NBT	NBR
366	1940	1877	910	299	738	429
Prot	7	4	8	8	2	2
Volume (vph)	366	1940	1877	910	299	738
Actuated Green (s)	11.0	72.0	58.0	58.0	42.0	42.0
Actuated g/C Ratio	0.09	0.60	0.48	0.48	0.35	0.35
Control Delay	146.8	6.4	163.0	164.4	30.8	135.1
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	146.8	6.4	163.0	164.4	30.8	135.1
Approach Delay	F	A	F	F	C	F
Approach LOS	C	C	F	F	F	F

Intersection Summary
Cycle Length: 120
Actuated Cycle Length: 120
Offset: 24 (20%), Referenced to phase 2: NBT and 6.: Start of Green
Natural Cycle: 130
Control Type: Actuated-Coordinated
Maximum v/c Ratio: 1.29
Intersection Signal Delay: 99.8
Intersection Capacity Utilization 120.8%
Analysis Period (min) 15



EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
0.97	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91
3367	4988	3310	1413	3367	1827	1553	3310	1413	3367	1827	1553
366	1940	0	1877	910	299	738	429	0	0	0	0
0.96	0.96	0.96	0.94	0.94	0.94	0.97	0.97	0.97	0.97	0.97	0.97
381	2021	0	1997	968	308	761	442	0	0	0	0
381	2021	0	2	25	0	0	0	0	0	0	0
4%	4%	4%	4%	4%	4%	4%	4%	4%	4%	4%	4%
7	4	4	8	8	2	2	2	2	2	2	2
9.0	70.0	0	56.0	56.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0
11.0	72.0	0	58.0	58.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0
0.09	0.60	0	0.48	0.48	0.35	0.35	0.35	0.35	0.35	0.35	0.35
5.0	5.0	0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
3.0	3.0	0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
309	2993	0	1600	683	1178	639	544	0	0	0	0
c0.11	0.41	0.62	c0.62	0.09	0.28	0.28	0.28	0.28	0.28	0.28	0.28
1.23	0.66	1.29	1.29	0.26	1.19	0.80	0.80	0.80	0.80	0.80	0.80
54.5	16.1	31.0	31.0	27.9	39.0	35.2	35.2	35.2	35.2	35.2	35.2
0.83	0.38	1.00	1.00	1.00	1.07	1.08	1.08	1.08	1.08	1.08	1.08
107.6	0.1	133.5	141.1	0.4	97.6	9.0	9.0	9.0	9.0	9.0	9.0
152.8	6.2	164.5	172.1	30.5	139.4	47.1	47.1	47.1	47.1	47.1	47.1
F	A	F	F	F	C	F	D	D	D	D	D
29.5	C	166.8	166.8	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2
102.0	HCM Level of Service	102.0	HCM Level of Service	102.0	HCM Level of Service	102.0	HCM Level of Service	102.0	HCM Level of Service	102.0	HCM Level of Service
1.25	HCM Volume to Capacity ratio	1.25	HCM Volume to Capacity ratio	1.25	HCM Volume to Capacity ratio	1.25	HCM Volume to Capacity ratio	1.25	HCM Volume to Capacity ratio	1.25	HCM Volume to Capacity ratio
120.0	Actuated Cycle Length (s)	120.0	Actuated Cycle Length (s)	120.0	Actuated Cycle Length (s)	120.0	Actuated Cycle Length (s)	120.0	Actuated Cycle Length (s)	120.0	Actuated Cycle Length (s)
120.8%	Intersection Capacity Utilization	120.8%	Intersection Capacity Utilization	120.8%	Intersection Capacity Utilization	120.8%	Intersection Capacity Utilization	120.8%	Intersection Capacity Utilization	120.8%	Intersection Capacity Utilization
15	Analysis Period (min)	15	Analysis Period (min)	15	Analysis Period (min)	15	Analysis Period (min)	15	Analysis Period (min)	15	Analysis Period (min)

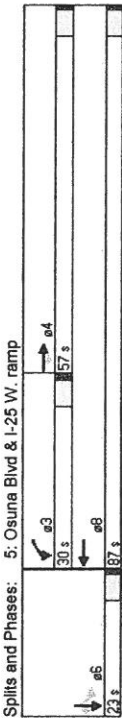


Analysis of Intersection #5
Osuna Blvd / I-25 West ramp

Timings

EBT	EBR	WBL	WBT	SBL	SBT	SBR
1447	440	759	1361	236	373	240
Perm	Perm	Prot	Prot	Perm	Perm	Perm
4	4	3	8	6	6	6
4	4	3	8	6	6	6
5.0	5.0	5.0	5.0	5.0	5.0	5.0
21.0	21.0	10.0	21.0	21.0	21.0	21.0
57.0	57.0	30.0	87.0	23.0	23.0	23.0
51.8%	51.8%	27.3%	79.1%	20.9%	20.9%	20.9%
4.0	4.0	4.0	4.0	4.0	4.0	4.0
1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lag	Lag	Lead	Lead			
Min	Min	Min	Min	C-Min	C-Min	C-Min
54.0	54.0	27.0	84.0	20.0	20.0	20.0
0.49	0.49	0.25	0.76	0.18	0.18	0.18
1.02	0.88	1.02	0.40	0.90	0.71	0.84
45.6	15.4	46.8	6.7	75.8	49.4	53.2
0.0	0.0	0.0	0.0	0.0	0.0	0.0
45.6	15.4	46.8	6.7	75.8	49.4	53.2
D	B	D	A	E	D	D
38.6			21.1		57.8	
D			C		E	

Intersection Summary
 Cycle Length: 110
 Actuated Cycle Length: 110
 Offset: 109 (99%), Referenced to phase 2: and 6:SBTL, Start of Green
 Natural Cycle: 110
 Control Type: Actuated-Coordinated
 Maximum v/c Ratio: 1.02
 Intersection Signal Delay: 34.8
 Intersection Capacity Utilization: 108.7%
 Analysis Period (min): 15

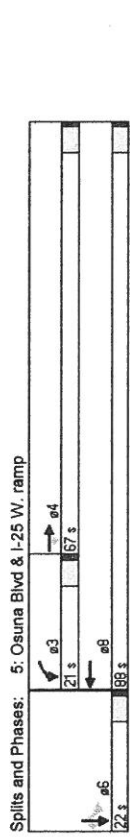


Splits and Phases: 5: Osuna Blvd & I-25 W. ramp

EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
0.95	1.00	0.97	0.91	1.00	0.95	1.00	0.85	1.00	1.00	0.95	1.00
1.00	1.00	1.00	0.85	1.00	1.00	1.00	0.95	1.00	1.00	1.00	1.00
3471	1553	3367	4988	3471	1553	3367	4988	1736	3471	1553	3471
1.00	1.00	0.95	1.00	1.00	0.95	1.00	1.00	1.00	1.00	0.95	1.00
3471	1553	3367	4988	3471	1553	3367	4988	1736	3471	1553	3471
0	1447	440	759	1361	0	0	0	0	236	373	240
0.83	0.83	0.83	0.90	0.90	0.85	0.85	0.85	0.85	0.83	0.83	0.83
0	1743	530	843	1512	0	0	0	0	284	449	289
0	0	11	0	0	0	0	0	0	0	0	0
0	1743	519	843	1512	0	0	0	0	284	449	289
4%	4%	4%	4%	4%	4%	4%	4%	4%	4%	4%	4%
4	4	3	8	8	4	4	4	4	6	6	6
52.0	52.0	25.0	82.0	82.0	54.0	54.0	27.0	84.0	18.0	18.0	18.0
54.0	54.0	27.0	84.0	84.0	0.49	0.49	0.25	0.76	0.18	0.18	0.18
5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
1704	762	826	3809	3809	c0.50	c0.25	0.30	0.30	316	631	282
c0.50									c0.16	0.13	
1.02	0.68	1.02	0.40	0.40	28.0	21.4	41.5	4.4	0.90	0.71	0.80
0.65	0.53	0.74	1.51	1.51	25.8	2.1	15.2	0.0	44.0	42.3	43.1
44.0	13.5	46.0	6.7	6.7	108.7%	108.7%	108.7%	108.7%	100.0	100.0	100.0
D	B	D	A	A	D	D	A	A	E	D	E
36.9			20.8		D		C		60.2		

Intersection Summary
 HCM Average Control Delay: 34.4
 HCM Volume to Capacity ratio: 1.00
 Actuated Cycle Length (s): 110.0
 Intersection Capacity Utilization: 108.7%
 Analysis Period (min): 15
 Critical Lane Group: C

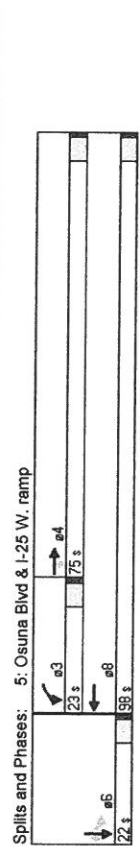
Lane Group	EBT	EBR	WBL	WBT	SBL	SBT	SBR
Lane Configurations	1853	514	529	1293	192	225	179
Volume (vph)	1900	1900	1900	1900	1900	1900	1900
Turn Type	Perm	Prot	Prot	Perm	Perm	Perm	Perm
Protected Phases	4	4	3	8	6	6	6
Detector Phases	4	4	3	8	6	6	6
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Spilt (s)	21.0	21.0	21.0	21.0	21.0	21.0	21.0
Total Spilt (s)	67.0	67.0	21.0	88.0	22.0	22.0	22.0
Total Spilt (%)	60.9%	60.9%	19.1%	80.0%	20.0%	20.0%	20.0%
Yellow Time (s)	4.0	4.0	4.0	4.0	4.0	4.0	4.0
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lead/Lag	Lag	Lead	Lead	Lead	Lead	Lead	Lead
Lead-Lag Optimize?							
Recall Mode	Min	Min	Min	Min	C-Min	C-Min	C-Min
Act Effct Green (s)	64.0	64.0	18.9	85.9	18.1	18.1	18.1
Actuated g/C Ratio	0.58	0.58	0.17	0.78	0.16	0.16	0.16
v/c Ratio	1.09	0.65	1.03	0.37	0.78	0.46	0.63
Control Delay	62.8	7.2	59.9	7.4	63.2	44.1	32.8
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	62.8	7.2	59.9	7.4	63.2	44.1	32.8
LOS	E	A	E	A	E	D	C
Approach Delay	50.7			22.6			46.8
Approach LOS	D			C			D
Intersection Summary							
Cycle Length: 110							
Actuated Cycle Length: 110							
Offset: 15 (14%), Referenced to phase 2; and 6:SBTL, Start of Green							
Natural Cycle: 130							
Control Type: Actuated-Coordinated							
Maximum v/c Ratio: 1.09							
Intersection Signal Delay: 39.9							
Intersection Capacity Utilization 118.7%							
Analysis Period (min) 15							



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Lane Util. Factor	0.95	1.00	0.97	0.91	1.00	0.95	1.00	1.00	0.95	1.00	0.95	1.00
Fit Protected	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Satd. Flow (prot)	3471	1553	3367	4988	1736	3471	1553	3367	4988	1736	3471	1553
Fit Permitted	1.00	1.00	1.00	0.95	1.00	0.95	1.00	1.00	0.95	1.00	0.95	1.00
Satd. Flow (perm)	3471	1553	3367	4988	1736	3471	1553	3367	4988	1736	3471	1553
Volume (vph)	0	1853	514	529	1293	0	0	0	0	192	225	179
Peak-hour factor, PHF	0.84	0.84	0.84	0.89	0.89	0.89	0.85	0.85	0.85	0.86	0.86	0.86
Adj. Flow (vph)	0	2206	612	594	1453	0	0	0	0	223	262	208
RTOR Reduction (vph)	0	0	33	0	0	0	0	0	0	0	0	0
Lane Group Flow (vph)	0	2206	579	594	1453	0	0	0	0	223	262	133
Heavy Vehicles (%)	4%	4%	4%	4%	4%	4%	4%	4%	4%	4%	4%	4%
Turn Type	Perm	Perm	Prot	Prot	Perm	Perm	Perm	Perm	Perm	Perm	Perm	Perm
Protected Phases	4	4	3	8	6	6	6	6	6	6	6	6
Permitted Phases	4	4	3	8	6	6	6	6	6	6	6	6
Actuated Green, G (s)	62.0	62.0	16.9	83.9	16.1	16.1	16.1	16.1	16.1	16.1	16.1	16.1
Effective Green, g (s)	64.0	64.0	18.9	85.9	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1
Actuated g/C Ratio	0.58	0.58	0.17	0.78	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16
Clearance Time (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Vehicle Extension (s)	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Lane Grp Cap (vph)	2019	904	579	3895	286	571	256	286	571	256	286	571
v/s Ratio Prot	c0.64			c0.18			0.08					0.08
v/s Ratio Perm	1.09	0.64	1.03	0.37	0.78	0.46	0.52	0.78	0.46	0.52	0.46	0.52
Uniform Delay, d1	23.0	15.3	45.6	3.7	44.0	41.5	42.0	44.0	41.5	42.0	41.5	42.0
Progression Factor	0.71	0.46	0.86	1.91	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Incremental Delay, d2	44.2	0.4	18.6	0.0	18.7	2.6	7.3	18.7	2.6	7.3	2.6	7.3
Delay (s)	60.5	7.4	57.9	7.1	62.8	44.2	49.3	62.8	44.2	49.3	44.2	49.3
Level of Service	E	A	E	A	E	D	D	E	D	D	D	D
Approach Delay (s)	49.0			21.9			51.7					51.7
Approach LOS	D			C			D					D
Intersection Summary												
HCM Average Control Delay	39.3 HCM Level of Service D											
HCM Volume to Capacity ratio	1.02											
Actuated Cycle Length (s)	110.0											
Intersection Capacity Utilization	118.7% ICU Level of Service H											
Analysis Period (min)	15											
c Critical Lane Group												

EBT	EBR	WBL	WBT	SBL	SBT	SBR
1938	514	551	1307	192	240	189
Perm	Prot	Prot	Prot	Perm	Perm	Perm
4	4	3	8	6	6	6
4	4	3	8	6	6	6
5.0	5.0	5.0	5.0	5.0	5.0	5.0
21.0	21.0	10.0	21.0	21.0	21.0	21.0
75.0	75.0	23.0	98.0	22.0	22.0	22.0
62.5%	62.5%	19.2%	81.7%	18.3%	18.3%	18.3%
4.0	4.0	4.0	4.0	4.0	4.0	4.0
1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lag	Lag	Lead	Lead			
Min	Min	Min	Min	C-Min	C-Min	C-Min
72.0	72.0	20.8	95.6	18.4	18.4	18.4
0.60	0.60	0.17	0.80	0.15	0.15	0.15
1.11	0.64	1.07	0.37	0.84	0.52	0.69
64.0	7.1	75.9	8.3	75.3	50.5	39.6
0.0	0.0	0.0	0.0	0.0	0.0	0.0
64.0	7.1	75.9	8.3	75.3	50.5	39.6
E	A	E	A	E	D	D
52.1			28.3		54.8	
D			C		D	

Intersection Summary
Cycle Length: 120
Actuated Cycle Length: 120
Offset: 112 (93%), Referenced to phase 2; and 6:SBTL, Start of Green
Natural Cycle: 130
Control Type: Actuated-Coordinated
Maximum v/c Ratio: 1.11
Intersection Signal Delay: 43.8
Intersection Capacity Utilization 120.8%
Analysis Period (min) 15



EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
0.95	1.00	0.97	0.91	1.00	0.85	1.00	0.95	1.00	0.95	1.00	0.85
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
3471	1553	3367	4988	3471	1553	3367	4988	1736	3471	1553	3471
0	1938	514	551	1307	0	0	0	0	192	240	189
0.84	0.84	0.84	0.89	0.89	0.89	0.85	0.85	0.85	0.86	0.86	0.86
0	2307	612	619	1469	0	0	0	0	223	279	220
0	0	22	0	0	0	0	0	0	0	0	0
0	2307	590	619	1469	0	0	0	0	223	279	141
4%	4%	4%	4%	4%	4%	4%	4%	4%	4%	4%	4%
4	4	3	8	8	4	4	4	4	6	6	6
70.0	70.0	18.6	93.6	72.0	72.0	20.6	95.6	16.4	16.4	16.4	16.4
0.60	0.60	0.17	0.80	0.60	0.60	0.17	0.80	0.15	0.15	0.15	0.15
5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
2083	932	578	3974	2083	932	578	3974	266	532	238	266
0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38
1.11	0.63	1.07	0.37	1.11	0.63	1.07	0.37	0.84	0.84	0.84	0.84
24.0	15.5	49.7	3.5	24.0	15.5	49.7	3.5	49.4	46.8	47.3	49.4
0.41	0.44	0.80	2.28	0.41	0.44	0.80	2.28	1.00	1.00	1.00	1.00
50.4	0.3	35.7	0.0	50.4	0.3	35.7	0.0	25.9	3.7	10.4	25.9
60.2	7.1	75.5	8.0	60.2	7.1	75.5	8.0	75.2	50.4	57.8	75.2
E	A	E	A	E	A	E	A	E	D	E	E
49.1			28.1	49.1			28.1	0.0	60.3		60.3
D			C	D			A				

Intersection Summary
HCM Average Control Delay 42.8 HCM Level of Service D
HCM Volume to Capacity ratio 1.06
Actuated Cycle Length (s) 120.0 Sum of lost time (s) 9.0
Intersection Capacity Utilization 120.8% ICU Level of Service H
Analysis Period (min) 15
Critical Lane Group

A-95a

Analysis of Intersection #6
Osuna Blvd / Jefferson St

	EBL	EBT	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT
Lane Group	7	4	3	8	8	1	5	2	2	3
Protected Phases										
Permitted Phases										
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	10.0	21.0	10.0	21.0	10.0	21.0	10.0	21.0	10.0	21.0
Total Split (s)	17.0	53.0	13.0	49.0	66.0	14.0	27.0	40.0	17.0	30.0
Total Split (%)	15.5%	48.2%	11.8%	44.5%	60.0%	12.7%	24.5%	36.4%	15.5%	27.3%
Maximum Green (s)	12.0	48.0	8.0	44.0	9.0	22.0	12.0	25.0	12.0	25.0
Yellow Time (s)	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lead/Lag	Lead	Lag	Lead	Lag	Lead	Lag	Lead	Lag	Lead	Lag
Lead-Lag Optimize?										
Vehicle Extension (s)	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Minimum Gap (s)	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Time Before Reduce (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time To Reduce (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Recall Mode	Min	Min	Min	Min	Min	Min	Min	Min	Min	Min
Walk Time (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Flash Dont Walk (s)	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
Pedestrian Calls (#/hr)	0	0	0	0	0	0	0	0	0	0
90th %ile Green (s)	12.0	48.0	8.0	44.0	9.0	22.0	12.0	25.0	12.0	25.0
90th %ile Term Code	Max	Max	Max	Max	Max	Max	Max	Max	Max	Max
70th %ile Green (s)	12.0	48.0	8.0	44.0	9.0	22.0	12.0	25.0	12.0	25.0
70th %ile Term Code	Max	Max	Max	Max	Max	Max	Max	Max	Max	Max
50th %ile Green (s)	12.0	48.0	8.0	44.0	9.0	22.0	12.0	25.0	12.0	25.0
50th %ile Term Code	Max	Max	Max	Max	Max	Max	Max	Max	Max	Max
30th %ile Green (s)	14.0	48.0	10.0	44.0	9.0	20.0	12.0	23.0	12.0	23.0
30th %ile Term Code	Max	Hold	Max	Max	Max	Max	Max	Max	Max	Max
10th %ile Green (s)	12.9	44.8	9.8	41.7	9.2	24.6	10.8	26.2	10.8	26.2
10th %ile Term Code	Gap	Hold	Gap	Gap	Gap	Coord	Gap	Coord	Gap	Coord
Intersection Summary										
Cycle Length:	110									
Actuated Cycle Length:	110									
Offset:	96 (87%), Referenced to phase 2:NBTL and 6:SBTL, Start of Green									
Control Type:	Actuated-Coordinated									

	EBL	EBT	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT
Lane Configurations	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Ideal Flow (vphpl)	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Total Lost time (s)	0.97	0.91	1.00	0.95	1.00	0.95	1.00	0.95	1.00	0.95
Lane Util. Factor	1.00	0.98	1.00	1.00	0.85	1.00	0.95	1.00	0.85	1.00
Flt Protected	0.95	1.00	0.95	1.00	0.95	1.00	0.95	1.00	0.95	1.00
Satd. Flow (prot)	3303	4806	3303	3406	1524	1703	3406	1524	1703	3237
Flt Permitted	0.95	1.00	0.95	1.00	0.95	1.00	0.95	1.00	0.95	1.00
Satd. Flow (perm)	3303	4806	3303	3406	1524	299	3406	1524	299	3237
Volume (vph)	306	1382	187	203	1121	292	160	293	54	207
Peak-hour factor, PHF	0.88	0.88	0.88	0.87	0.87	0.91	0.91	0.91	0.91	0.87
Adj. Flow (vph)	348	1570	212	233	1289	336	176	322	59	238
RTOR Reduction (vph)	0	16	0	0	53	0	0	35	0	54
Lane Group Flow (vph)	348	1766	0	233	1289	283	176	322	24	238
Heavy Vehicles (%)	6%	6%	6%	6%	6%	6%	6%	6%	6%	6%
Turn Type	Prot	4	Prot	3	8	8	1	5	2	2
Protected Phases	7	4	3	3	8	8	1	5	2	2
Permitted Phases										
Actuated Green, G (s)	12.6	47.4	8.8	43.6	60.4	31.0	22.0	35.8	36.6	24.8
Effective Green, g (s)	14.6	49.4	10.8	45.6	62.4	35.0	24.0	37.8	40.6	26.8
Actuated g/C Ratio	0.13	0.45	0.10	0.41	0.57	0.32	0.22	0.34	0.37	0.24
Clearance Time (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Vehicle Extension (s)	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Lane Grp. Cap (vph)	438	2158	324	1412	865	236	743	524	378	789
vis Ratio Prot	c0.11	0.37	0.07	c0.38	0.19	c0.07	0.09	0.02	c0.08	c0.19
vis Ratio Perm										
v/c Ratio	0.79	0.82	0.72	0.91	0.33	0.75	0.43	0.04	0.63	0.79
Uniform Delay, d1	46.2	26.4	48.1	30.3	12.6	29.8	37.1	24.1	25.9	38.9
Progression Factor	1.00	1.00	1.13	0.69	0.60	0.79	0.76	1.41	1.00	1.00
Incremental Delay, d2	9.6	2.5	6.8	8.5	0.2	11.5	1.7	0.0	3.3	7.7
Delay (s)	55.8	28.9	61.4	29.3	7.8	35.1	29.9	34.0	29.2	46.6
Level of Service	E	C	E	C	A	D	C	C	C	D
Approach Delay (s)	33.3	33.3	29.4	29.4	31.9	31.9	31.9	31.9	31.9	42.1
Approach LOS	C	C	C	C	C	C	C	C	C	D
Intersection Summary										
HCM Average Control Delay	33.3									
HCM Volume to Capacity ratio	0.85									
Actuated Cycle Length (s)	110.0									
Intersection Capacity Utilization	79.0%									
Analysis Period (min)	15									
c Critical Lane Group										

	EBL	EBT	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT
Lane Group	7	4	3	8	8	1	5	2	2	3
Protected Phases										
Permitted Phases										
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	10.0	21.0	10.0	21.0	10.0	21.0	10.0	21.0	10.0	21.0
Total Split (s)	17.0	52.0	14.0	49.0	71.0	15.0	22.0	36.0	22.0	29.0
Total Split (%)	15.5%	47.3%	12.7%	44.5%	64.5%	13.6%	20.0%	32.7%	20.0%	26.4%
Maximum Green (s)	12.0	47.0	9.0	44.0	10.0	17.0	17.0	24.0	17.0	24.0
Yellow Time (s)	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lead/Lag	Lead	Lag	Lead	Lag	Lead	Lag	Lead	Lag	Lead	Lag
Lead-Lag Optimize?										
Vehicle Extension (s)	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Minimum Gap (s)	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Time Before Reduce (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time To Reduce (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Recall Mode	Min	Min	Min	Min	Min	Min	Min	Min	Min	Min
Walk Time (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Flash Dont Walk (s)	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
Pedestrian Calls (#/hr)	0	0	0	0	0	0	0	0	0	0
90th %ile Green (s)	12.0	47.0	9.0	44.0	10.0	17.0	17.0	24.0	17.0	24.0
90th %ile Term Code	Max	Max	Max	Max	Max	Max	Max	Max	Max	Max
70th %ile Green (s)	12.0	47.0	9.0	44.0	10.0	17.0	17.0	24.0	17.0	24.0
70th %ile Term Code	Max	Max	Max	Max	Max	Max	Max	Max	Max	Max
50th %ile Green (s)	12.0	47.0	9.0	44.0	10.0	17.3	16.7	24.0	16.7	24.0
50th %ile Term Code	Max	Max	Max	Max	Max	Max	Max	Max	Max	Max
30th %ile Green (s)	12.0	47.0	9.0	44.0	10.0	19.8	14.2	24.0	14.2	24.0
30th %ile Term Code	Max	Hold	Max	Max	Max	Max	Max	Max	Max	Max
10th %ile Green (s)	12.9	44.0	10.7	41.8	9.2	24.5	10.8	26.1	10.8	26.1
10th %ile Term Code	Gap	Hold	Gap	Gap	Gap	Coord	Gap	Coord	Gap	Coord
Intersection Summary										
Cycle Length: 110										
Actuated Cycle Length: 110										
Offset: 97 (88%), Referenced to phase 2:NBTL and 6:SBTL, Start of Green										
Control Type: Actuated-Coordinated										

	EBL	EBT	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT
Movement	EBL	EBT	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT
Lane Configurations	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Lane Util. Factor	0.97	0.91	0.97	0.95	1.00	1.00	0.95	1.00	0.95	1.00
Fit Protected	1.00	0.98	1.00	1.00	0.85	1.00	0.85	1.00	0.95	1.00
Satd. Flow (prot)	3303	4801	3303	3406	1524	1703	3406	1524	1703	3245
Fit Permitted	0.95	1.00	0.95	1.00	1.00	0.95	1.00	1.00	0.95	1.00
Satd. Flow (perm)	3303	4801	3303	3406	1524	1703	3406	1524	1703	3245
Volume (vph)	306	1382	198	231	1121	292	167	306	86	207
Peak-hour factor, PHF	0.88	0.88	0.88	0.87	0.87	0.87	0.91	0.91	0.87	0.87
Adj. Flow (vph)	348	1570	225	266	1289	336	184	336	95	238
RTOR Reduction (vph)	0	17	0	0	25	0	0	47	0	48
Lane Group Flow (vph)	348	1778	0	266	1289	311	184	336	48	238
Heavy Vehicles (%)	6%	6%	6%	6%	6%	6%	6%	6%	6%	6%
Turn Type	Prot	Prot	Prot	Prot	pt+ov	pt+pt	pt+ov	pt+ov	pt+ov	pt+pt
Protected Phases	7	4	3	8	8	1	5	2	2	3
Permitted Phases										
Actuated Green, G (s)	12.2	46.5	9.3	43.6	63.7	28.9	19.1	33.4	39.2	24.4
Effective Green, g (s)	14.2	48.5	11.3	45.6	65.7	32.9	21.1	35.4	41.2	26.4
Actuated g/C Ratio	0.13	0.44	0.10	0.41	0.60	0.30	0.19	0.32	0.37	0.24
Clearance Time (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Vehicle Extension (s)	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Lane Grp Cap (vph)	426	2117	339	1412	910	248	653	490	394	779
v/s Ratio Prot	c0.11	c0.37	0.08	c0.38	0.20	c0.08	0.10	0.03	c0.09	c0.20
v/s Ratio Perm										
v/c Ratio	0.82	0.84	0.78	0.91	0.34	0.74	0.51	0.10	0.60	0.85
Uniform Delay, d1	46.6	27.3	48.2	30.3	11.2	31.3	39.9	26.1	25.6	39.9
Progression Factor	1.00	1.00	1.13	0.61	0.66	0.82	0.83	1.14	1.00	1.00
Incremental Delay, d2	11.5	3.1	10.2	8.4	0.2	10.7	2.7	0.1	2.6	11.1
Delay (s)	58.1	30.4	64.8	27.1	7.6	36.3	36.0	29.8	28.2	50.9
Level of Service	E	C	E	C	A	D	D	C	C	D
Approach Delay (s)	34.9	34.9	28.9	28.9	35.1	35.1	35.1	35.1	45.2	45.2
Approach LOS	C	C	C	C	D	D	D	D	D	D
Intersection Summary										
HCM Average Control Delay	34.7 HCM Level of Service C									
HCM Volume to Capacity ratio	0.85									
Actuated Cycle Length (s)	110.0 Sum of lost time (s)									
Intersection Capacity Utilization	80.2% ICU Level of Service D									
Analysis Period (min)	15									
c Critical Lane Group										

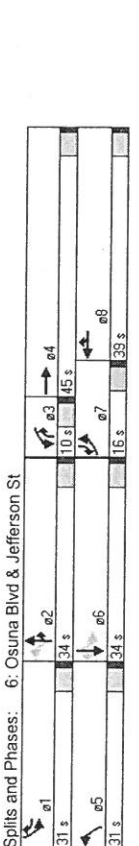
	EBL	EBT	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT
Lane Group	7	4	3	8	8	1	5	2	2	3
Protected Phases										
Permitted Phases										
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	10.0	21.0	10.0	21.0	10.0	21.0	10.0	21.0	10.0	21.0
Total Split (s)	14.0	47.0	10.0	43.0	68.0	24.0	28.0	38.0	25.0	29.0
Maximum Split (%)	12.7%	42.7%	9.1%	39.1%	61.8%	21.8%	25.5%	34.5%	22.7%	26.4%
Maximum Green (s)	9.0	42.0	5.0	38.0	19.0	23.0	20.0	24.0	20.0	24.0
Yellow Time (s)	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lead/Lag	Lead	Lag	Lead	Lag	Lead	Lag	Lead	Lag	Lead	Lag
Lead-Lag Optimize?										
Vehicle Extension (s)	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Minimum Gap (s)	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Time Before Reduce (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time To Reduce (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Recall Mode	Min	Min	Min	Min	Min	Min	Min	Min	Min	Min
Walk Time (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Flash Dont Walk (s)	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
Pedestrian Calls (#/hr)	0	0	0	0	0	0	0	0	0	0
90th %ile Green (s)	9.0	42.0	5.0	38.0	19.0	23.0	20.0	24.0	20.0	24.0
90th %ile Term Code	Max	Max	Max	Max	Max	Max	Max	Max	Max	Max
70th %ile Green (s)	9.0	42.0	5.0	38.0	19.0	23.0	20.0	24.0	20.0	24.0
70th %ile Term Code	Max	Max	Max	Max	Max	Max	Max	Max	Max	Max
50th %ile Green (s)	9.0	42.0	5.0	38.0	19.0	23.0	20.0	24.0	20.0	24.0
50th %ile Term Code	Max	Max	Max	Max	Max	Max	Max	Max	Max	Max
30th %ile Green (s)	9.0	42.0	5.0	38.0	19.0	23.0	20.0	24.0	20.0	24.0
30th %ile Term Code	Max	Max	Max	Max	Max	Max	Max	Max	Max	Max
10th %ile Green (s)	9.0	42.0	5.0	38.0	19.0	23.0	20.0	24.0	20.0	24.0
10th %ile Term Code	Max	Max	Max	Max	Max	Max	Max	Max	Max	Max
Intersection Summary										
Cycle Length: 110										
Actuated Cycle Length: 110										
Offset: 109 (99%), Referenced to phase 2:NBTL and 6:SBTL, Start of Green										
Control Type: Actuated-Coordinated										

	EBL	EBT	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT
Movement	EBL	EBT	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT
Lane Configurations	EBL	EBT	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Lane Util. Factor	0.97	0.91	0.97	0.95	1.00	1.00	0.95	1.00	1.00	0.95
Flt Protected	1.00	0.99	1.00	1.00	0.85	1.00	1.00	0.85	1.00	0.93
Satd. Flow (prot)	3303	4856	3303	3406	1524	1703	3406	1524	1703	3155
Flt Permitted	0.95	1.00	0.95	1.00	1.00	1.00	1.00	1.00	1.00	0.15
Satd. Flow (perm)	3303	4856	3303	3406	1524	287	3406	1524	276	3155
Volume (vph)	323	1878	100	98	1232	224	378	719	341	352
Peak-hour factor, PHF	0.94	0.94	0.94	0.91	0.91	0.91	0.90	0.90	0.90	0.79
Adj. Flow (vph)	344	1998	106	108	1354	246	420	799	379	446
RTOR Reduction (vph)	0	5	0	0	0	4	0	21	0	92
Lane Group Flow (vph)	344	2099	0	108	1354	242	420	799	358	446
Heavy Vehicles (%)	6%	6%	6%	6%	6%	6%	6%	6%	6%	6%
Turn Type	Prot	4	Prot	3	8	8	1	5	2	2
Protected Phases	7	4	3	3	8	8	1	5	2	2
Permitted Phases										
Actuated Green, G (s)	9.0	42.0	5.0	38.0	63.0	42.0	23.0	33.0	44.0	24.0
Effective Green, g (s)	11.0	44.0	7.0	40.0	65.0	46.0	25.0	35.0	48.0	26.0
Actuated g/C Ratio	0.10	0.40	0.06	0.36	0.59	0.42	0.23	0.32	0.44	0.24
Clearance Time (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Vehicle Extension (s)	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Lane Grp Cap (vph)	330	1942	210	1239	901	390	774	485	406	746
v/s Ratio Prot	c0.10	c0.43	0.03	0.40	0.16	0.21	0.23	0.23	c0.26	0.25
v/s Ratio Perm										
v/c Ratio	1.04	1.08	0.51	1.09	0.27	1.08	1.03	0.74	1.10	1.07
Uniform Delay, d1	49.5	33.0	49.9	35.0	10.9	46.7	42.5	33.4	32.1	42.0
Progression Factor	1.00	1.00	0.96	0.86	1.16	0.74	0.95	1.06	1.00	1.00
Incremental Delay, d2	61.0	46.1	2.0	54.1	0.2	67.4	40.7	5.7	74.0	53.5
Delay (s)	110.5	79.1	49.8	77.2	12.9	102.2	81.2	41.0	106.1	95.5
Level of Service	F	E	D	E	B	F	F	D	F	F
Approach Delay (s)	83.5	66.2	66.2	66.2	66.2	77.2	77.2	41.0	106.1	99.0
Approach LOS	F	F	E	E	E	E	E	F	F	F
Intersection Summary										
HCM Average Control Delay	80.8									
HCM Volume to Capacity ratio	1.09									
Actuated Cycle Length (s)	110.0									
Intersection Capacity Utilization	98.5%									
Analysis Period (min)	15									
c Critical Lane Group										

	EBL	EBT	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT
Lane Group	7	4	3	8	8	1	5	2	2	3
Protected Phases										
Permitted Phases										
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	10.0	21.0	10.0	21.0	10.0	21.0	10.0	21.0	10.0	21.0
Total Split (s)	15.0	51.0	10.0	46.0	74.0	27.0	31.0	41.0	28.0	32.0
Total Split (%)	12.5%	42.5%	8.3%	38.3%	61.7%	22.5%	25.8%	34.2%	23.3%	26.7%
Maximum Green (s)	10.0	46.0	5.0	41.0	22.0	26.0	23.0	27.0	23.0	27.0
Yellow Time (s)	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lead/Lag	Lead	Lag	Lead	Lag	Lead	Lag	Lead	Lag	Lead	Lag
Lead-Lag Optimize?										
Vehicle Extension (s)	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Minimum Gap (s)	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Time Before Reduce (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time To Reduce (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Recall Mode	Min	Min	Min	Min	Min	Min	Min	Min	Min	Min
Walk Time (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Flash Don't Walk (s)	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
Pedestrian Calls (#/hr)	0	0	0	0	0	0	0	0	0	0
90th %ile Green (s)	10.0	46.0	5.0	41.0	22.0	26.0	23.0	27.0	23.0	27.0
90th %ile Term Code	Max	Max	Max	Max	Max	Max	Max	Max	Max	Max
70th %ile Green (s)	10.0	46.0	5.0	41.0	22.0	26.0	23.0	27.0	23.0	27.0
70th %ile Term Code	Max	Max	Max	Max	Max	Max	Max	Max	Max	Max
50th %ile Green (s)	10.0	46.0	5.0	41.0	22.0	26.0	23.0	27.0	23.0	27.0
50th %ile Term Code	Max	Max	Max	Max	Max	Max	Max	Max	Max	Max
30th %ile Green (s)	10.0	46.0	5.0	41.0	22.0	26.0	23.0	27.0	23.0	27.0
30th %ile Term Code	Max	Max	Max	Max	Max	Max	Max	Max	Max	Max
10th %ile Green (s)	10.0	46.0	5.0	41.0	22.0	26.0	23.0	27.0	23.0	27.0
10th %ile Term Code	Max	Max	Max	Max	Max	Max	Max	Max	Max	Max
Intersection Summary										
Cycle Length: 120										
Actuated Cycle Length: 120										
Offset: 0 (0%). Referenced to phase 2:NBLT and 6:SBTL, Start of Green										
Control Type: Actuated-Coordinated										

Movement	EBL	EBT	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	↑↑	↑↑	↑↑	↑↑	↑↑	↑↑	↑↑	↑↑	↑↑	↑↑	↑↑
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Lane Util. Factor	0.97	0.91	0.97	0.95	1.00	1.00	0.95	1.00	1.00	0.95	0.95
Flt Protected	0.95	1.00	1.00	1.00	0.85	1.00	1.00	0.85	1.00	0.95	1.00
Satd. Flow (prot)	3303	4851	3303	3406	1524	1703	3406	1524	1703	3163	3163
Flt Permitted	0.95	1.00	0.95	1.00	1.00	0.14	1.00	1.00	0.14	1.00	1.00
Satd. Flow (perm)	3303	4851	3303	3406	1524	256	3406	1524	247	3163	3163
Volume (vph)	323	1878	114	122	1232	224	393	754	426	352	382
Peak-hour factor, PHF	0.94	0.94	0.94	0.91	0.91	0.91	0.90	0.90	0.90	0.79	0.79
Adj. Flow (vph)	344	1998	121	134	1354	246	437	838	473	446	484
RTOR Reduction (vph)	0	5	0	0	0	0	0	0	23	0	86
Lane Group Flow (vph)	344	2114	0	134	1354	243	437	838	450	446	835
Heavy Vehicles (%)	6%	6%	6%	6%	6%	6%	6%	6%	6%	6%	6%
Turn Type	Prot	4	Prot	3	8	8	1	5	2	2	3
Protected Phases	7	4	7	4	7	4	7	4	7	4	7
Permitted Phases											
Actuated Green, G (s)	10.0	46.0	5.0	41.0	69.0	48.0	26.0	36.0	36.0	50.0	27.0
Effective Green, g (s)	12.0	48.0	7.0	43.0	71.0	52.0	28.0	38.0	38.0	54.0	29.0
Actuated g/C Ratio	0.10	0.40	0.06	0.36	0.59	0.43	0.23	0.32	0.32	0.45	0.24
Clearance Time (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Vehicle Extension (s)	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Lane Grp Cap (vph)	330	1940	193	1220	902	400	795	483	414	764	764
v/s Ratio Prot	c0.10	c0.44	0.04	0.40	0.16	0.22	0.25	c0.30	c0.22	c0.26	c0.26
v/s Ratio Perm					0.25				0.26		
v/c Ratio	1.04	1.09	0.69	1.11	0.27	1.09	1.05	0.93	1.08	1.09	1.09
Uniform Delay, d1	54.0	36.0	55.4	38.5	11.9	50.2	46.0	39.7	36.1	45.5	45.5
Progression Factor	1.00	1.00	1.07	1.09	1.28	0.96	0.81	0.84	1.00	1.00	1.00
Incremental Delay, d2	61.0	49.5	9.7	60.7	0.2	72.0	47.0	24.7	66.5	60.6	60.6
Delay (s)	115.0	85.5	69.2	102.6	15.4	120.3	84.2	58.0	102.6	106.1	106.1
Level of Service	F	F	E	F	B	F	F	E	F	F	F
Approach Delay (s)	89.6	89.6	87.7	87.7	86.1	86.1	86.1	86.1	86.1	86.1	86.1
Approach LOS	F	F	F	F	F	F	F	F	F	F	F
Intersection Summary											
HCM Average Control Delay	91.2										
HCM Volume to Capacity ratio	1.07										
Actuated Cycle Length (s)	120.0										
Intersection Capacity Utilization	100.0%										
Analysis Period (min)	15										
c Critical Lane Group											

Movement	EBL	EBT	WBL	WBT	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Volume (vph)	323	1878	122	1232	224	393	754	426	352	345
Turn Type	Prot	Prot	Prot	Prot	pt+ov	pm+pt	pt+ov	pm+pt	pm+ov	pm+ov
Protected Phases	7	4	3	8	8	1	2	2	3	1
Permitted Phases	7	4	3	8	8	1	2	2	3	1
Detector Phases	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Initial (s)	10.0	21.0	10.0	21.0	10.0	21.0	10.0	21.0	10.0	10.0
Minimum Split (s)	16.0	45.0	10.0	39.0	70.0	31.0	34.0	44.0	31.0	34.0
Total Split (%)	13.3%	37.5%	8.3%	32.5%	58.3%	25.8%	28.3%	36.7%	25.8%	28.3%
Yellow Time (s)	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lead/Lag	Lead	Lag	Lead	Lag	Lead	Lag	Lead	Lag	Lead	Lag
Lead-Lag Optimize?										
Recall Mode	Min	Min	Min	Min	Min	Min	Min	Min	Min	Min
Act Effct Green (s)	13.0	42.0	7.0	36.0	67.0	31.0	41.0	60.2	33.8	49.8
Actuated g/C Ratio	0.11	0.35	0.06	0.30	0.56	0.47	0.26	0.34	0.50	0.28
v/c Ratio	0.96	0.99	0.69	0.92	0.29	0.88	0.95	0.85	0.97	0.50
Control Delay	92.2	55.4	71.9	52.2	18.2	38.3	57.7	44.9	69.3	39.0
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	92.2	55.4	71.9	52.2	18.2	38.3	57.7	44.9	69.3	39.0
LOS	F	E	E	D	B	D	E	D	E	D
Approach Delay	F	E	E	D	B	D	E	D	E	D
Approach LOS	E	E	E	D	B	D	E	D	E	D



Spills and Phases: 6: Osuna Blvd & Jefferson St
 Cycle Length: 120
 Actuated Cycle Length: 120
 Offset: 0 (0%), Referenced to phase 2:NBL and 6:SBTL, Start of Green
 Natural Cycle: 100
 Control Type: Actuated-Coordinated
 Maximum v/c Ratio: 0.99
 Intersection Signal Delay: 52.3
 Intersection Capacity Utilization 87.0%
 Analysis Period (min) 15

Movement	EBL	EBT	WBL	WBT	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Volume (vph)	323	1878	122	1232	224	393	754	426	352	345
Turn Type	Prot	Prot	Prot	Prot	pt+ov	pm+pt	pt+ov	pm+pt	pm+ov	pm+ov
Protected Phases	7	4	3	8	8	1	2	2	3	1
Permitted Phases	7	4	3	8	8	1	2	2	3	1
Detector Phases	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Initial (s)	10.0	21.0	10.0	21.0	10.0	21.0	10.0	21.0	10.0	10.0
Minimum Split (s)	16.0	45.0	10.0	39.0	70.0	31.0	34.0	44.0	31.0	34.0
Total Split (%)	13.3%	37.5%	8.3%	32.5%	58.3%	25.8%	28.3%	36.7%	25.8%	28.3%
Yellow Time (s)	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lead/Lag	Lead	Lag	Lead	Lag	Lead	Lag	Lead	Lag	Lead	Lag
Lead-Lag Optimize?										
Recall Mode	Min	Min	Min	Min	Min	Min	Min	Min	Min	Min
Act Effct Green (s)	13.0	42.0	7.0	36.0	67.0	31.0	41.0	60.2	33.8	49.8
Actuated g/C Ratio	0.11	0.35	0.06	0.30	0.56	0.47	0.26	0.34	0.50	0.28
v/c Ratio	0.96	0.99	0.69	0.92	0.29	0.88	0.95	0.85	0.97	0.50
Control Delay	92.2	55.4	71.9	52.2	18.2	38.3	57.7	44.9	69.3	39.0
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	92.2	55.4	71.9	52.2	18.2	38.3	57.7	44.9	69.3	39.0
LOS	F	E	E	D	B	D	E	D	E	D
Approach Delay	F	E	E	D	B	D	E	D	E	D
Approach LOS	E	E	E	D	B	D	E	D	E	D

Intersection Summary
 HCM Average Control Delay: 51.4
 HCM Volume to Capacity ratio: 0.98
 Actuated Cycle Length (s): 120.0
 Intersection Capacity Utilization: 87.0%
 Analysis Period (min): 15
 Critical Lane Group: E

Analysis of Intersection #7

Presidential Dr / Jefferson St

HCM Unsignalized Intersection Capacity Analysis
 7: Presidential Dr & Jefferson St

Terry O. Brown, P.E.
 9/25/2006



Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	Y		↑↑	↑	↑	↑↑
Sign Control	Stop		Free			Free
Grade	0%		0%			0%
Volume (veh/h)	70	13	645	11	13	933
Peak Hour Factor	0.85	0.85	0.90	0.90	0.94	0.94
Hourly flow rate (vph)	82	15	717	12	14	993
Pedestrians						
Lane Width (ft)						
Walking Speed (ft/s)						
Percent Blockage						
Right turn flare (veh)						
Median type	Raised					
Median storage veh	1					
Upstream signal (ft)						689
pX, platoon unblocked	0.89					
vC, conflicting volume	1241	358			729	
vC1, stage 1 conf vol	717					
vC2, stage 2 conf vol	524					
vCu, unblocked vol	1149	358			729	
tC, single (s)	6.9	7.0			4.2	
tC, 2 stage (s)	5.9					
tF (s)	3.5	3.3			2.2	
p0 queue free %	73	98			98	
cM capacity (veh/h)	306	635			864	

Direction, Lane #	WB 1	NB 1	NB 2	NB 3	SB 1	SB 2	SB 3
Volume Total	98	358	358	12	14	496	496
Volume Left	82	0	0	0	14	0	0
Volume Right	15	0	0	12	0	0	0
cSH	333	1700	1700	1700	864	1700	1700
Volume to Capacity	0.29	0.21	0.21	0.01	0.02	0.29	0.29
Queue Length 95th (ft)	30	0	0	0	1	0	0
Control Delay (s)	20.2	0.0	0.0	0.0	9.2	0.0	0.0
Lane LOS	C				A		
Approach Delay (s)	20.2	0.0			0.1		
Approach LOS	C						

Intersection Summary			
Average Delay		1.1	
Intersection Capacity Utilization	37.1%		ICU Level of Service A
Analysis Period (min)	15		

HCM Unsignalized Intersection Capacity Analysis
 7: Presidential Dr & Jefferson St

Terry O. Brown, P.E.
 9/25/2006



Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	Y		↑↑	↑	↑	↑↑
Sign Control	Stop		Free			Free
Grade	0%		0%			0%
Volume (veh/h)	70	13	697	11	13	1002
Peak Hour Factor	0.85	0.85	0.90	0.90	0.94	0.94
Hourly flow rate (vph)	82	15	774	12	14	1066
Pedestrians						
Lane Width (ft)						
Walking Speed (ft/s)						
Percent Blockage						
Right turn flare (veh)						
Median type	Raised					
Median storage veh	1					
Upstream signal (ft)	689					
pX, platoon unblocked	0.87					
vC, conflicting volume	1335	387			787	
vC1, stage 1 conf vol	774					
vC2, stage 2 conf vol	561					
vCu, unblocked vol	1237	387			787	
tC, single (s)	6.9	7.0			4.2	
tC, 2 stage (s)	5.9					
tF (s)	3.5	3.3			2.2	
p0 queue free %	71	97			98	
cM capacity (veh/h)	283	608			822	

Direction, Lane #	WB 1	NB 1	NB 2	NB 3	SB 1	SB 2	SB 3
Volume Total	98	387	387	12	14	533	533
Volume Left	82	0	0	0	14	0	0
Volume Right	15	0	0	12	0	0	0
cSH	309	1700	1700	1700	822	1700	1700
Volume to Capacity	0.32	0.23	0.23	0.01	0.02	0.31	0.31
Queue Length 95th (ft)	33	0	0	0	1	0	0
Control Delay (s)	21.9	0.0	0.0	0.0	9.5	0.0	0.0
Lane LOS	C				A		
Approach Delay (s)	21.9	0.0			0.1		
Approach LOS	C						

Intersection Summary			
Average Delay		1.2	
Intersection Capacity Utilization	39.0%		ICU Level of Service A
Analysis Period (min)	15		

HCM Unsignalized Intersection Capacity Analysis
 7: Presidential Dr & Jefferson St

Terry O. Brown, P.E.
 9/25/2006



Movement	WBL	WBR	NBT	NBR	SBL	SBT	
Lane Configurations	Y		↑↑	↑	↑	↑↑	
Sign Control	Stop		Free			Free	
Grade	0%		0%			0%	
Volume (veh/h)	34	25	865	25	72	619	
Peak Hour Factor	0.85	0.85	0.85	0.85	0.89	0.89	
Hourly flow rate (vph)	40	29	1018	29	81	696	
Pedestrians							
Lane Width (ft)							
Walking Speed (ft/s)							
Percent Blockage							
Right turn flare (veh)							
Median type	Raised						
Median storage veh	1						
Upstream signal (ft)					689		
pX, platoon unblocked							
vC, conflicting volume	1527	509			1047		
vC1, stage 1 conf vol	1018						
vC2, stage 2 conf vol	510						
vCu, unblocked vol	1527	509			1047		
tC, single (s)	6.9	7.0			4.2		
tC, 2 stage (s)	5.9						
tF (s)	3.5	3.3			2.2		
p0 queue free %	81	94			88		
cM capacity (veh/h)	213	507			654		
Direction, Lane #	WB 1	NB 1	NB 2	NB 3	SB 1	SB 2	SB 3
Volume Total	69	509	509	29	81	348	348
Volume Left	40	0	0	0	81	0	0
Volume Right	29	0	0	29	0	0	0
cSH	282	1700	1700	1700	654	1700	1700
Volume to Capacity	0.25	0.30	0.30	0.02	0.12	0.20	0.20
Queue Length 95th (ft)	24	0	0	0	11	0	0
Control Delay (s)	21.9	0.0	0.0	0.0	11.3	0.0	0.0
Lane LOS	C				B		
Approach Delay (s)	21.9	0.0			1.2		
Approach LOS	C						
Intersection Summary							
Average Delay			1.3				
Intersection Capacity Utilization		41.3%		ICU Level of Service		A	
Analysis Period (min)		15					

HCM Unsignalized Intersection Capacity Analysis
 7: Presidential Dr & Jefferson St

Terry O. Brown, P.E.
 9/25/2006



Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	↙		↑↑	↗	↘	↑↑
Sign Control	Stop		Free			Free
Grade	0%		0%			0%
Volume (veh/h)	34	25	1001	25	72	681
Peak Hour Factor	0.85	0.85	0.85	0.85	0.89	0.89
Hourly flow rate (vph)	40	29	1178	29	81	765
Pedestrians						
Lane Width (ft)						
Walking Speed (ft/s)						
Percent Blockage						
Right turn flare (veh)						
Median type	Raised					
Median storage veh	1					
Upstream signal (ft)					689	
pX, platoon unblocked						
vC, conflicting volume	1722	589			1207	
vC1, stage 1 conf vol	1178					
vC2, stage 2 conf vol	544					
vCu, unblocked vol	1722	589			1207	
tC, single (s)	6.9	7.0			4.2	
tC, 2 stage (s)	5.9					
tF (s)	3.5	3.3			2.2	
p0 queue free %	77	93			86	
cM capacity (veh/h)	177	449			568	

Direction, Lane #	WB 1	NB 1	NB 2	NB 3	SB 1	SB 2	SB 3
Volume Total	69	589	589	29	81	383	383
Volume Left	40	0	0	0	81	0	0
Volume Right	29	0	0	29	0	0	0
cSH	238	1700	1700	1700	568	1700	1700
Volume to Capacity	0.29	0.35	0.35	0.02	0.14	0.23	0.23
Queue Length 95th (ft)	29	0	0	0	12	0	0
Control Delay (s)	26.2	0.0	0.0	0.0	12.4	0.0	0.0
Lane LOS	D				B		
Approach Delay (s)	26.2	0.0			1.2		
Approach LOS	D						

Intersection Summary			
Average Delay		1.3	
Intersection Capacity Utilization	45.1%		ICU Level of Service A
Analysis Period (min)	15		

Analysis of Intersection #8

Jefferson Plaza / Jefferson St

HCM Unsignalized Intersection Capacity Analysis
 8: Jefferson Plaza & Jefferson St

Terry O. Brown, P.E.
 9/25/2006



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕		↗	↕		↗	↕	↗
Sign Control		Stop			Stop			Free			Free	
Grade		0%			0%			0%			0%	
Volume (veh/h)	12	2	16	1	5	9	69	776	11	12	899	104
Peak Hour Factor	0.81	0.81	0.81	0.75	0.75	0.75	0.94	0.94	0.94	0.77	0.77	0.77
Hourly flow rate (vph)	15	2	20	1	7	12	73	826	12	16	1168	135
Pedestrians												
Lane Width (ft)												
Walking Speed (ft/s)												
Percent Blockage												
Right turn flare (veh)												
Median type	Raised					Raised						
Median storage veh	1					1						
Upstream signal (ft)												
pX, platoon unblocked												
vC, conflicting volume	1774	2183	584	1614	2312	419	1303			837		
vC1, stage 1 conf vol	1199	1199		978	978							
vC2, stage 2 conf vol	575	984		636	1334							
vCu, unblocked vol	1774	2183	584	1614	2312	419	1303			837		
tC, single (s)	7.6	6.6	7.0	7.6	6.6	7.0	4.2			4.2		
tC, 2 stage (s)	6.6	5.6		6.6	5.6							
tF (s)	3.5	4.0	3.3	3.5	4.0	3.3	2.2			2.2		
p0 queue free %	89	98	96	99	93	98	86			98		
cM capacity (veh/h)	132	134	453	148	98	580	522			786		

Direction, Lane #	EB 1	WB 1	NB 1	NB 2	NB 3	SB 1	SB 2	SB 3	SB 4
Volume Total	37	20	73	550	287	16	584	584	135
Volume Left	15	1	73	0	0	16	0	0	0
Volume Right	20	12	0	0	12	0	0	0	135
cSH	213	205	522	1700	1700	786	1700	1700	1700
Volume to Capacity	0.17	0.10	0.14	0.32	0.17	0.02	0.34	0.34	0.08
Queue Length 95th (ft)	15	8	12	0	0	2	0	0	0
Control Delay (s)	25.5	24.5	13.0	0.0	0.0	9.7	0.0	0.0	0.0
Lane LOS	D	C	B			A			
Approach Delay (s)	25.5	24.5	1.0			0.1			
Approach LOS	D	C							

Intersection Summary			
Average Delay		1.1	
Intersection Capacity Utilization	44.5%		ICU Level of Service A
Analysis Period (min)	15		

HCM Unsignalized Intersection Capacity Analysis
 8: Jefferson Plaza & Jefferson St

Terry O. Brown, P.E.
 9/25/2006



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↔			↔		↗	↗		↗	↗	↗
Sign Control		Stop			Stop			Free			Free	
Grade		0%			0%			0%			0%	
Volume (veh/h)	12	2	17	0	5	9	69	828	11	12	968	104
Peak Hour Factor	0.81	0.81	0.81	0.75	0.75	0.75	0.94	0.94	0.94	0.77	0.77	0.77
Hourly flow rate (vph)	15	2	21	0	7	12	73	881	12	16	1257	135
Pedestrians												
Lane Width (ft)												
Walking Speed (ft/s)												
Percent Blockage												
Right turn flare (veh)												
Median type		Raised			Raised							
Median storage veh		1			1							
Upstream signal (ft)												
pX, platoon unblocked												
vC, conflicting volume	1891	2328	629	1715	2457	446	1392			893		
vC1, stage 1 conf vol	1288	1288		1034	1034							
vC2, stage 2 conf vol	603	1039		682	1423							
vCu, unblocked vol	1891	2328	629	1715	2457	446	1392			893		
tC, single (s)	7.6	6.6	7.0	7.6	6.6	7.0	4.2			4.2		
tC, 2 stage (s)	6.6	5.6		6.6	5.6							
tF (s)	3.5	4.0	3.3	3.5	4.0	3.3	2.2			2.2		
p0 queue free %	87	98	95	100	92	98	85			98		
cM capacity (veh/h)	117	120	423	133	85	557	482			749		

Direction, Lane #	EB 1	WB 1	NB 1	NB 2	NB 3	SB 1	SB 2	SB 3	SB 4
Volume Total	38	19	73	587	305	16	629	629	135
Volume Left	15	0	73	0	0	16	0	0	0
Volume Right	21	12	0	0	12	0	0	0	135
cSH	194	186	482	1700	1700	749	1700	1700	1700
Volume to Capacity	0.20	0.10	0.15	0.35	0.18	0.02	0.37	0.37	0.08
Queue Length 95th (ft)	18	8	13	0	0	2	0	0	0
Control Delay (s)	28.0	26.5	13.8	0.0	0.0	9.9	0.0	0.0	0.0
Lane LOS	D	D	B			A			
Approach Delay (s)	28.0	26.5	1.0			0.1			
Approach LOS	D	D							

Intersection Summary		
Average Delay		1.1
Intersection Capacity Utilization	49.1%	ICU Level of Service
Analysis Period (min)		15
		A

HCM Unsignalized Intersection Capacity Analysis
 8: Jefferson Plaza & Jefferson St

Terry O. Brown, P.E.
 9/25/2006



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↔			↔		↗	↕		↖	↕	↗
Sign Control		Stop			Stop			Free			Free	
Grade		0%			0%			0%			0%	
Volume (veh/h)	59	1	33	6	1	8	8	857	5	9	888	14
Peak Hour Factor	0.75	0.75	0.75	0.75	0.75	0.75	0.94	0.94	0.94	0.87	0.87	0.87
Hourly flow rate (vph)	79	1	44	8	1	11	9	912	5	10	1021	16
Pedestrians												
Lane Width (ft)												
Walking Speed (ft/s)												
Percent Blockage												
Right turn flare (veh)												
Median type		Raised			Raised							
Median storage veh		1			1							
Upstream signal (ft)												
pX, platoon unblocked												
vC, conflicting volume	1526	1975	510	1507	1989	459	1037			917		
vC1, stage 1 conf vol	1041	1041		931	931							
vC2, stage 2 conf vol	484	934		576	1057							
vCu, unblocked vol	1526	1975	510	1507	1989	459	1037			917		
tC, single (s)	7.6	6.6	7.0	7.6	6.6	7.0	4.2			4.2		
tC, 2 stage (s)	6.6	5.6		6.6	5.6							
tF (s)	3.5	4.0	3.3	3.5	4.0	3.3	2.2			2.2		
p0 queue free %	56	99	91	96	99	98	99			99		
cM capacity (veh/h)	178	169	506	184	167	547	660			733		

Direction, Lane #	EB 1	WB 1	NB 1	NB 2	NB 3	SB 1	SB 2	SB 3	SB 4
Volume Total	124	20	9	608	309	10	510	510	16
Volume Left	79	8	9	0	0	10	0	0	0
Volume Right	44	11	0	0	5	0	0	0	16
cSH	231	282	660	1700	1700	733	1700	1700	1700
Volume to Capacity	0.54	0.07	0.01	0.36	0.18	0.01	0.30	0.30	0.01
Queue Length 95th (ft)	72	6	1	0	0	1	0	0	0
Control Delay (s)	37.4	18.7	10.5	0.0	0.0	10.0	0.0	0.0	0.0
Lane LOS	E	C	B			A			
Approach Delay (s)	37.4	18.7	0.1			0.1			
Approach LOS	E	C							

Intersection Summary			
Average Delay		2.5	
Intersection Capacity Utilization	39.8%	ICU Level of Service	A
Analysis Period (min)	15		

HCM Unsignalized Intersection Capacity Analysis
 8: Jefferson Plaza & Jefferson St

Terry O. Brown, P.E.
 9/25/2006



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕		↙	↕		↙	↕	↗
Sign Control		Stop			Stop			Free			Free	
Grade		0%			0%			0%			0%	
Volume (veh/h)	59	1	33	6	1	8	9	993	5	9	950	14
Peak Hour Factor	0.75	0.75	0.75	0.75	0.75	0.75	0.94	0.94	0.94	0.87	0.87	0.87
Hourly flow rate (vph)	79	1	44	8	1	11	10	1056	5	10	1092	16
Pedestrians												
Lane Width (ft)												
Walking Speed (ft/s)												
Percent Blockage												
Right turn flare (veh)												
Median type		Raised			Raised							
Median storage veh		1			1							
Upstream signal (ft)												
pX, platoon unblocked												
vC, conflicting volume	1671	2193	546	1690	2207	531	1108			1062		
vC1, stage 1 conf vol	1113	1113		1078	1078							
vC2, stage 2 conf vol	559	1081		611	1129							
vCu, unblocked vol	1671	2193	546	1690	2207	531	1108			1062		
tC, single (s)	7.6	6.6	7.0	7.6	6.6	7.0	4.2			4.2		
tC, 2 stage (s)	6.6	5.6		6.6	5.6							
tF (s)	3.5	4.0	3.3	3.5	4.0	3.3	2.2			2.2		
p0 queue free %	50	99	91	95	99	98	98			98		
cM capacity (veh/h)	156	145	479	153	144	490	620			646		

Direction, Lane #	EB 1	WB 1	NB 1	NB 2	NB 3	SB 1	SB 2	SB 3	SB 4
Volume Total	124	20	10	704	357	10	546	546	16
Volume Left	79	8	10	0	0	10	0	0	0
Volume Right	44	11	0	0	5	0	0	0	16
cSH	205	240	620	1700	1700	646	1700	1700	1700
Volume to Capacity	0.60	0.08	0.02	0.41	0.21	0.02	0.32	0.32	0.01
Queue Length 95th (ft)	86	7	1	0	0	1	0	0	0
Control Delay (s)	46.1	21.3	10.9	0.0	0.0	10.7	0.0	0.0	0.0
Lane LOS	E	C	B			B			
Approach Delay (s)	46.1	21.3	0.1			0.1			
Approach LOS	E	C							

Intersection Summary			
Average Delay		2.7	
Intersection Capacity Utilization	42.8%	ICU Level of Service	A
Analysis Period (min)	15		

Analysis of Intersection #9
BMW Drive / I-25 Frontage Rd

HCM Unsignalized Intersection Capacity Analysis
 9: BMW Drive & I-25 W. ramp

Terry O. Brown, P.E.
 9/25/2006



Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations		↗		↑	↑↓	↘
Sign Control	Stop			Free	Free	
Grade	0%			0%	0%	
Volume (veh/h)	0	16	0	0	444	19
Peak Hour Factor	0.75	0.75	0.85	0.85	0.77	0.77
Hourly flow rate (vph)	0	21	0	0	577	25
Pedestrians						
Lane Width (ft)						
Walking Speed (ft/s)						
Percent Blockage						
Right turn flare (veh)						
Median type	None					
Median storage (veh)						
Upstream signal (ft)						
pX, platoon unblocked						
vC, conflicting volume	589	301	601			
vC1, stage 1 conf vol						
vC2, stage 2 conf vol						
vCu, unblocked vol	589	301	601			
tC, single (s)	6.9	7.0	4.2			
tC, 2 stage (s)						
tF (s)	3.5	3.3	2.2			
p0 queue free %	100	97	100			
cM capacity (veh/h)	437	692	965			

Direction, Lane #	EB 1	SB 1	SB 2
Volume Total	21	384	217
Volume Left	0	0	0
Volume Right	21	0	25
cSH	692	1700	1700
Volume to Capacity	0.03	0.23	0.13
Queue Length 95th (ft)	2	0	0
Control Delay (s)	10.4	0.0	0.0
Lane LOS	B		
Approach Delay (s)	10.4	0.0	
Approach LOS	B		

Intersection Summary			
Average Delay		0.4	
Intersection Capacity Utilization	22.9%	ICU Level of Service	A
Analysis Period (min)	15		

HCM Unsignalized Intersection Capacity Analysis
 9: BMW Drive & I-25 W. ramp

Terry O. Brown, P.E.
 9/25/2006



Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations		↗			↘↘	↗
Sign Control	Stop			Free	Free	
Grade	0%			0%	0%	
Volume (veh/h)	0	47	0	0	444	61
Peak Hour Factor	0.75	0.75	0.85	0.85	0.77	0.77
Hourly flow rate (vph)	0	63	0	0	577	79
Pedestrians						
Lane Width (ft)						
Walking Speed (ft/s)						
Percent Blockage						
Right turn flare (veh)						
Median type	None					
Median storage veh						
Upstream signal (ft)						
pX, platoon unblocked						
vC, conflicting volume	577	288	656			
vC1, stage 1 conf vol						
vC2, stage 2 conf vol						
vCu, unblocked vol	577	288	656			
tC, single (s)	6.9	7.0	4.2			
tC, 2 stage (s)						
tF (s)	3.5	3.3	2.2			
p0 queue free %	100	91	100			
cM capacity (veh/h)	445	705	921			
Direction, Lane #	EB 1	SB 1	SB 2	SB 3		
Volume Total	63	288	288	79		
Volume Left	0	0	0	0		
Volume Right	63	0	0	79		
cSH	705	1700	1700	1700		
Volume to Capacity	0.09	0.17	0.17	0.05		
Queue Length 95th (ft)	7	0	0	0		
Control Delay (s)	10.6	0.0	0.0	0.0		
Lane LOS	B					
Approach Delay (s)	10.6	0.0				
Approach LOS	B					
Intersection Summary						
Average Delay			0.9			
Intersection Capacity Utilization		22.3%		ICU Level of Service		A
Analysis Period (min)			15			

HCM Unsignalized Intersection Capacity Analysis
 9: BMW Drive & I-25 W. ramp

Terry O. Brown, P.E.
 9/25/2006



Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations		↗			↕	
Sign Control	Stop			Free	Free	
Grade	0%			0%	0%	
Volume (veh/h)	0	65	0	0	566	7
Peak Hour Factor	0.75	0.75	0.85	0.85	0.75	0.75
Hourly flow rate (vph)	0	87	0	0	755	9
Pedestrians						
Lane Width (ft)						
Walking Speed (ft/s)						
Percent Blockage						
Right turn flare (veh)						
Median type	None					
Median storage (veh)						
Upstream signal (ft)						
pX, platoon unblocked						
vC, conflicting volume	759	382	764			
vC1, stage 1 conf vol						
vC2, stage 2 conf vol						
vCu, unblocked vol	759	382	764			
tC, single (s)	6.9	7.0	4.2			
tC, 2 stage (s)						
tF (s)	3.5	3.3	2.2			
p0 queue free %	100	86	100			
cM capacity (veh/h)	340	613	838			
Direction, Lane #						
	EB 1	SB 1	SB 2			
Volume Total	87	503	261			
Volume Left	0	0	0			
Volume Right	87	0	9			
cSH	613	1700	1700			
Volume to Capacity	0.14	0.30	0.15			
Queue Length 95th (ft)	12	0	0			
Control Delay (s)	11.8	0.0	0.0			
Lane LOS	B					
Approach Delay (s)	11.8	0.0				
Approach LOS	B					
Intersection Summary						
Average Delay			1.2			
Intersection Capacity Utilization			26.6%	ICU Level of Service	A	
Analysis Period (min)			15			

HCM Unsignalized Intersection Capacity Analysis

Terry O. Brown, P.E.

9: BMW Drive & I-25 W. ramp

9/25/2006



Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations		↗			↕↕	↗
Sign Control	Stop			Free	Free	
Grade	0%			0%	0%	
Volume (veh/h)	0	158	0	0	566	43
Peak Hour Factor	0.75	0.75	0.85	0.85	0.75	0.75
Hourly flow rate (vph)	0	211	0	0	755	57
Pedestrians						
Lane Width (ft)						
Walking Speed (ft/s)						
Percent Blockage						
Right turn flare (veh)						
Median type	None					
Median storage (veh)						
Upstream signal (ft)						
pX, platoon unblocked						
vC, conflicting volume	755	377	812			
vC1, stage 1 conf vol						
vC2, stage 2 conf vol						
vCu, unblocked vol	755	377	812			
tC, single (s)	6.9	7.0	4.2			
tC, 2 stage (s)						
tF (s)	3.5	3.3	2.2			
p0 queue free %	100	66	100			
cM capacity (veh/h)	343	617	804			

Direction, Lane #	EB 1	SB 1	SB 2	SB 3
Volume Total	211	377	377	57
Volume Left	0	0	0	0
Volume Right	211	0	0	57
cSH	617	1700	1700	1700
Volume to Capacity	0.34	0.22	0.22	0.03
Queue Length 95th (ft)	38	0	0	0
Control Delay (s)	13.8	0.0	0.0	0.0
Lane LOS	B			
Approach Delay (s)	13.8	0.0		
Approach LOS	B			

Intersection Summary			
Average Delay		2.8	
Intersection Capacity Utilization	32.1%		ICU Level of Service A
Analysis Period (min)		15	

Analysis of Intersection #10
Driveway 'A' / Jefferson St

HCM Unsignalized Intersection Capacity Analysis

Terry O. Brown, P.E.

10: 'A' & Jefferson St

9/25/2006



Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations		↗	↕			↕
Sign Control	Stop		Free			Free
Grade	0%		0%			0%
Volume (veh/h)	0	15	898	2	0	993
Peak Hour Factor	0.85	0.85	0.94	0.94	0.94	0.94
Hourly flow rate (vph)	0	18	955	2	0	1056
Pedestrians						
Lane Width (ft)						
Walking Speed (ft/s)						
Percent Blockage						
Right turn flare (veh)						
Median type	Raised					
Median storage (veh)	1					
Upstream signal (ft)						
pX, platoon unblocked						
vC, conflicting volume	1485	479			957	
vC1, stage 1 conf vol	956					
vC2, stage 2 conf vol	528					
vCu, unblocked vol	1485	479			957	
tC, single (s)	6.9	7.0			4.2	
tC, 2 stage (s)	5.9					
tF (s)	3.5	3.3			2.2	
p0 queue free %	100	97			100	
cM capacity (veh/h)	237	530			708	

Direction, Lane #	WB 1	NB 1	NB 2	SB 1	SB 2
Volume Total	18	637	321	528	528
Volume Left	0	0	0	0	0
Volume Right	18	0	2	0	0
cSH	530	1700	1700	1700	1700
Volume to Capacity	0.03	0.37	0.19	0.31	0.31
Queue Length 95th (ft)	3	0	0	0	0
Control Delay (s)	12.0	0.0	0.0	0.0	0.0
Lane LOS	B				
Approach Delay (s)	12.0	0.0		0.0	
Approach LOS	B				

Intersection Summary					
Average Delay			0.1		
Intersection Capacity Utilization		34.9%		ICU Level of Service	A
Analysis Period (min)			15		

HCM Unsignalized Intersection Capacity Analysis
 10: 'A' & Jefferson St

Terry O. Brown, P.E.
 9/25/2006



Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations		↗	↕			↕
Sign Control	Stop		Free			Free
Grade	0%		0%			0%
Volume (veh/h)	0	41	973	2	0	995
Peak Hour Factor	0.85	0.85	0.94	0.94	0.94	0.94
Hourly flow rate (vph)	0	48	1035	2	0	1059
Pedestrians						
Lane Width (ft)						
Walking Speed (ft/s)						
Percent Blockage						
Right turn flare (veh)						
Median type	Raised					
Median storage veh	1					
Upstream signal (ft)						
pX, platoon unblocked						
vC, conflicting volume	1565	519			1037	
vC1, stage 1 conf vol	1036					
vC2, stage 2 conf vol	529					
vCu, unblocked vol	1565	519			1037	
tC, single (s)	6.9	7.0			4.2	
tC, 2 stage (s)	5.9					
tF (s)	3.5	3.3			2.2	
p0 queue free %	100	90			100	
cM capacity (veh/h)	219	499			660	
Direction, Lane #	WB 1	NB 1	NB 2	SB 1	SB 2	
Volume Total	48	690	347	529	529	
Volume Left	0	0	0	0	0	
Volume Right	48	0	2	0	0	
cSH	499	1700	1700	1700	1700	
Volume to Capacity	0.10	0.41	0.20	0.31	0.31	
Queue Length 95th (ft)	8	0	0	0	0	
Control Delay (s)	13.0	0.0	0.0	0.0	0.0	
Lane LOS	B					
Approach Delay (s)	13.0	0.0		0.0		
Approach LOS	B					
Intersection Summary						
Average Delay			0.3			
Intersection Capacity Utilization			37.0%		ICU Level of Service	A
Analysis Period (min)			15			

Analysis of Intersection #11
Driveway 'B' / Jefferson St

HCM Unsignalized Intersection Capacity Analysis
 11: 'B' & Jefferson St

Terry O. Brown, P.E.
 9/25/2006



Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	↙		↙	↑↑	↑↓	
Sign Control	Stop			Free	Free	
Grade	0%			0%	0%	
Volume (veh/h)	11	17	13	862	923	8
Peak Hour Factor	0.85	0.85	0.94	0.94	0.94	0.94
Hourly flow rate (vph)	13	20	14	917	982	9
Pedestrians						
Lane Width (ft)						
Walking Speed (ft/s)						
Percent Blockage						
Right turn flare (veh)						
Median type	Raised					
Median storage veh	1					
Upstream signal (ft)						
pX, platoon unblocked						
vC, conflicting volume	1472	495	990			
vC1, stage 1 conf vol	986					
vC2, stage 2 conf vol	486					
vCu, unblocked vol	1472	495	990			
tC, single (s)	6.9	7.0	4.2			
tC, 2 stage (s)	5.9					
tF (s)	3.5	3.3	2.2			
p0 queue free %	94	96	98			
cM capacity (veh/h)	233	517	688			

Direction, Lane #	EB 1	NB 1	NB 2	NB 3	SB 1	SB 2
Volume Total	33	14	459	459	655	336
Volume Left	13	14	0	0	0	0
Volume Right	20	0	0	0	0	9
cSH	350	688	1700	1700	1700	1700
Volume to Capacity	0.09	0.02	0.27	0.27	0.39	0.20
Queue Length 95th (ft)	8	2	0	0	0	0
Control Delay (s)	16.3	10.3	0.0	0.0	0.0	0.0
Lane LOS	C	B				
Approach Delay (s)	16.3	0.2			0.0	
Approach LOS	C					

Intersection Summary						
Average Delay			0.3			
Intersection Capacity Utilization		35.8%		ICU Level of Service	A	
Analysis Period (min)		15				

HCM Unsignalized Intersection Capacity Analysis
 11: 'B' & Jefferson St

Terry O. Brown, P.E.
 9/25/2006



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕		↗	↕			↕	
Sign Control		Stop			Stop			Free			Free	
Grade		0%			0%			0%			0%	
Volume (veh/h)	11	1	17	22	1	31	13	869	85	70	923	8
Peak Hour Factor	0.85	0.85	0.85	0.85	0.85	0.85	0.94	0.94	0.94	0.94	0.94	0.94
Hourly flow rate (vph)	13	1	20	26	1	36	14	924	90	74	982	9
Pedestrians												
Lane Width (ft)												
Walking Speed (ft/s)												
Percent Blockage												
Right turn flare (veh)												
Median type		Raised			Raised							
Median storage veh		1			1							
Upstream signal (ft)												
pX, platoon unblocked												
vC, conflicting volume	1662	2178	495	1658	2137	507	990			1015		
vC1, stage 1 conf vol	1135	1135		997	997							
vC2, stage 2 conf vol	527	1043		660	1139							
vCu, unblocked vol	1662	2178	495	1658	2137	507	990			1015		
tC, single (s)	7.6	6.6	7.0	7.6	6.6	7.0	4.2			4.2		
tC, 2 stage (s)	6.6	5.6		6.6	5.6							
tF (s)	3.5	4.0	3.3	3.5	4.0	3.3	2.2			2.2		
p0 queue free %	90	99	96	84	99	93	98			89		
cM capacity (veh/h)	136	124	517	157	139	508	688			673		

Direction, Lane #	EB 1	WB 1	NB 1	NB 2	NB 3	SB 1	SB 2
Volume Total	34	64	14	616	399	565	499
Volume Left	13	26	14	0	0	74	0
Volume Right	20	36	0	0	90	0	9
cSH	238	259	688	1700	1700	673	1700
Volume to Capacity	0.14	0.25	0.02	0.36	0.23	0.11	0.29
Queue Length 95th (ft)	12	23	2	0	0	9	0
Control Delay (s)	22.6	23.3	10.3	0.0	0.0	2.9	0.0
Lane LOS	C	C	B			A	
Approach Delay (s)	22.6	23.3	0.1			1.6	
Approach LOS	C	C					

Intersection Summary			
Average Delay		1.9	
Intersection Capacity Utilization	68.8%	ICU Level of Service	C
Analysis Period (min)	15		

HCM Unsignalized Intersection Capacity Analysis
 11: 'B' & Jefferson St

Terry O. Brown, P.E.
 9/25/2006



Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	↘		↙	↑↑	↑↑	
Sign Control	Stop			Free	Free	
Grade	0%			0%	0%	
Volume (veh/h)	30	53	47	877	933	35
Peak Hour Factor	0.85	0.85	0.94	0.94	0.94	0.94
Hourly flow rate (vph)	35	62	50	933	993	37
Pedestrians						
Lane Width (ft)						
Walking Speed (ft/s)						
Percent Blockage						
Right turn flare (veh)						
Median type	Raised					
Median storage veh	1					
Upstream signal (ft)						
pX, platoon unblocked						
vC, conflicting volume	1578	515	1030			
vC1, stage 1 conf vol	1011					
vC2, stage 2 conf vol	566					
vCu, unblocked vol	1578	515	1030			
tC, single (s)	6.9	7.0	4.2			
tC, 2 stage (s)	5.9					
tF (s)	3.5	3.3	2.2			
p0 queue free %	83	88	92			
cM capacity (veh/h)	212	502	664			

Direction, Lane #	EB 1	NB 1	NB 2	NB 3	SB 1	SB 2
Volume Total	98	50	466	466	662	368
Volume Left	35	50	0	0	0	0
Volume Right	62	0	0	0	0	37
cSH	336	664	1700	1700	1700	1700
Volume to Capacity	0.29	0.08	0.27	0.27	0.39	0.22
Queue Length 95th (ft)	30	6	0	0	0	0
Control Delay (s)	20.0	10.9	0.0	0.0	0.0	0.0
Lane LOS	C	B				
Approach Delay (s)	20.0	0.6	0.0			
Approach LOS	C					

Intersection Summary			
Average Delay	1.2		
Intersection Capacity Utilization	45.2%	ICU Level of Service	A
Analysis Period (min)	15		

HCM Unsignalized Intersection Capacity Analysis

Terry O. Brown, P.E.

9/25/2006

11: 'B' & Jefferson St



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕		↙	↕			↕	
Sign Control		Stop			Stop			Free			Free	
Grade		0%			0%			0%			0%	
Volume (veh/h)	30	1	53	69	1	82	47	892	63	62	933	35
Peak Hour Factor	0.85	0.85	0.85	0.85	0.85	0.85	0.94	0.94	0.94	0.94	0.94	0.94
Hourly flow rate (vph)	35	1	62	81	1	96	50	949	67	66	993	37
Pedestrians												
Lane Width (ft)												
Walking Speed (ft/s)												
Percent Blockage												
Right turn flare (veh)												
Median type		Raised			Raised							
Median storage veh		1			1							
Upstream signal (ft)												
pX, platoon unblocked												
vC, conflicting volume	1815	2259	515	1774	2244	508	1030			1016		
vC1, stage 1 conf vol	1143	1143		1082	1082							
vC2, stage 2 conf vol	672	1116		691	1162							
vCu, unblocked vol	1815	2259	515	1774	2244	508	1030			1016		
tC, single (s)	7.6	6.6	7.0	7.6	6.6	7.0	4.2			4.2		
tC, 2 stage (s)	6.6	5.6		6.6	5.6							
tF (s)	3.5	4.0	3.3	3.5	4.0	3.3	2.2			2.2		
p0 queue free %	69	99	88	35	99	81	92			90		
cM capacity (veh/h)	112	113	502	125	116	507	664			672		

Direction, Lane #	EB 1	WB 1	NB 1	NB 2	NB 3	SB 1	SB 2
Volume Total	99	179	50	633	383	562	534
Volume Left	35	81	50	0	0	66	0
Volume Right	62	96	0	0	67	0	37
cSH	220	211	664	1700	1700	672	1700
Volume to Capacity	0.45	0.85	0.08	0.37	0.23	0.10	0.31
Queue Length 95th (ft)	54	161	6	0	0	8	0
Control Delay (s)	34.1	75.7	10.9	0.0	0.0	2.6	0.0
Lane LOS	D	F	B			A	
Approach Delay (s)	34.1	75.7	0.5			1.3	
Approach LOS	D	F					

Intersection Summary			
Average Delay		7.8	
Intersection Capacity Utilization	78.2%		ICU Level of Service D
Analysis Period (min)		15	

Analysis of Intersection #12
Driveway 'C' / Jefferson St

HCM Unsignalized Intersection Capacity Analysis
 12: 'C' & Jefferson St

Terry O. Brown, P.E.
 9/25/2006



Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations		↗	↕			↖
Sign Control	Stop		Free			Free
Grade	0%		0%			0%
Volume (veh/h)	0	5	949	47	0	945
Peak Hour Factor	0.85	0.85	0.94	0.94	0.94	0.94
Hourly flow rate (vph)	0	6	1010	50	0	1005
Pedestrians						
Lane Width (ft)						
Walking Speed (ft/s)						
Percent Blockage						
Right turn flare (veh)						
Median type	None					
Median storage veh						
Upstream signal (ft)						
pX, platoon unblocked						
vC, conflicting volume	1537	530			1060	
vC1, stage 1 conf vol						
vC2, stage 2 conf vol						
vCu, unblocked vol	1537	530			1060	
tC, single (s)	6.9	7.0			4.2	
tC, 2 stage (s)						
tF (s)	3.5	3.3			2.2	
p0 queue free %	100	99			100	
cM capacity (veh/h)	106	491			647	

Direction, Lane #	WB 1	NB 1	NB 2	SB 1	SB 2
Volume Total	6	673	387	503	503
Volume Left	0	0	0	0	0
Volume Right	6	0	50	0	0
cSH	491	1700	1700	1700	1700
Volume to Capacity	0.01	0.40	0.23	0.30	0.30
Queue Length 95th (ft)	1	0	0	0	0
Control Delay (s)	12.4	0.0	0.0	0.0	0.0
Lane LOS	B				
Approach Delay (s)	12.4	0.0		0.0	
Approach LOS	B				

Intersection Summary			
Average Delay		0.0	
Intersection Capacity Utilization		37.7%	ICU Level of Service A
Analysis Period (min)		15	

HCM Unsignalized Intersection Capacity Analysis
 12: 'C' & Jefferson St

Terry O. Brown, P.E.
 9/25/2006



Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations		↗	↕	↘		↕
Sign Control	Stop		Free			Free
Grade	0%		0%			0%
Volume (veh/h)	0	13	942	35	0	1002
Peak Hour Factor	0.85	0.85	0.94	0.94	0.94	0.94
Hourly flow rate (vph)	0	15	1002	37	0	1066
Pedestrians						
Lane Width (ft)						
Walking Speed (ft/s)						
Percent Blockage						
Right turn flare (veh)						
Median type	Raised					
Median storage (veh)	1					
Upstream signal (ft)						
pX, platoon unblocked						
vC, conflicting volume	1554	520			1039	
vC1, stage 1 conf vol	1021					
vC2, stage 2 conf vol	533					
vCu, unblocked vol	1554	520			1039	
tC, single (s)	6.9	7.0			4.2	
tC, 2 stage (s)	5.9					
tF (s)	3.5	3.3			2.2	
p0 queue free %	100	97			100	
cM capacity (veh/h)	222	499			659	

Direction, Lane #	WB 1	NB 1	NB 2	SB 1	SB 2
Volume Total	15	668	371	533	533
Volume Left	0	0	0	0	0
Volume Right	15	0	37	0	0
cSH	499	1700	1700	1700	1700
Volume to Capacity	0.03	0.39	0.22	0.31	0.31
Queue Length 95th (ft)	2	0	0	0	0
Control Delay (s)	12.4	0.0	0.0	0.0	0.0
Lane LOS	B				
Approach Delay (s)	12.4	0.0		0.0	
Approach LOS	B				

Intersection Summary					
Average Delay		0.1			
Intersection Capacity Utilization		37.2%	ICU Level of Service	A	
Analysis Period (min)		15			

Data Entry Sheet
Determination of Warrants for Deceleration Lanes
NM DOT State Access Management Manual Criteria
BMW Driveway / I-25 W. Frontage Rd

Project Information:

Project Name: Fraternal Order of Police
 Project Location: Bear Canyon Arroyo / Jefferson St
 Implementation Year: 2009
 Project Environment: Urban Multi-Lane

Street Information:

Major Street Name: I-25 W. Frontage Rd
 Minor Street Name: BMW Driveway

Intersection Information:

	Orientation	Prevailing Speed	No. Lanes Each Direction
BMW Driveway	Eastbound	25	N/A
I-25 W. Frontage Rd	North-South	45	2

Determine Case:

Case

- 1 Urban Two-Lane Highway - Use Table 17.B.1
- 2 Urban Multi-Lane Highway - Use Table 17.B-2
- 3 Rural Two Lane Highway - Use Table 17.B-3 and 17.B-5
- 4 Rural Multi-Lane Highway - Use Table 17.B-4 and 17.B-6

I-25 W. Frontage Rd is Case 2
 Speed Category 45 to 55

SB Right Turn Volumes

2009 AM Pk. Hr. NO BUILD	19
2009 AM Pk. Hr. BUILD	61
2009 PM Pk. Hr. NO BUILD	7
2009 PM Pk. Hr. BUILD	43

SB Thru Volumes

444
444
566
566

NB Left Turn Volumes

2009 AM Pk. Hr. NO BUILD	0
2009 AM Pk. Hr. BUILD	0
2009 PM Pk. Hr. NO BUILD	0
2009 PM Pk. Hr. BUILD	0

NB Thru Volumes

0
0
0
0

Determination of Warrants for Auxiliary Lanes

Project Name: **Fraternal Order of Police**
 Name of Highway: **I-25 W. Frontage Rd**
 Name of Cross Street: **BMW Driveway**

Determination of Warrants for: Eastbound Driveway

Implementation Year Volumes - 2009 Posted Speed Limit: 45

Right Turn Deceleration Lane - Implementation Year Volumes

Condition	Year	Projected Right Turn Volume	Warrant Volume In thru Lane	Projected Volume In thru Lane	✓ if Met	Lane Length (Deceleration)*	Adjustment Factor for Grade**	Lane Length (Storage)***	Total Lane Length	Taper Ratio
AM Peak Hour NO BUILD	2009	19	192	222	✓	400	1.00	-	400	12.5:1
AM Peak Hour BUILD	2009	61	1	222	✓	400	1.00	-	400	12.5:1
PM Peak Hour NO BUILD	2009	7	398	283		N/A		-	N/A	N/A
PM Peak Hour BUILD	2009	43	44	283	✓	400	1.00	-	400	12.5:1

Based on Table 17.B-2 (Criteria for Deceleration Lanes on Urban Multi-Lane Highways)

Left Turn Deceleration Lane - Implementation Year Volumes

Condition	Year	Projected Left Turn Volume	Warrant Volume In thru Lane	Projected Volume In thru Lane	✓ if Met	Lane Length (Deceleration)*	Adjustment Factor for Grade**	Lane Length (Storage)***	Total Lane Length	Taper Ratio
AM Peak Hour NO BUILD	2009	-	-	-		N/A		N/A	N/A	N/A
AM Peak Hour BUILD	2009	-	-	-		N/A		N/A	N/A	N/A
PM Peak Hour NO BUILD	2009	-	-	-		N/A		N/A	N/A	N/A
PM Peak Hour BUILD	2009	-	-	-		N/A		N/A	N/A	N/A

Based on Table 17.B-2 (Criteria for Deceleration Lanes on Urban Multi-Lane Highways)

* Lane Length Requirements based on Table 18.K-1 (Deceleration and Acceleration Lengths)

** Enter Grade Adjustment Factor from Table 18.K-2 or other criteria.

*** Lane Storage Length is Based on a calculated 3-minute queue based on average arrival rate per minute.

= Volume/Hr. divided by 60 times three (rounded) times 25 feet per vehicle.

Lane Storage Length for right turn decel lanes is zero unless there is a stop condition.

Notes and Comments:

1. This warrant sheet is for the eastbound BMW Driveway at 100% Development of the Project

**Table 17.B-2
Criteria For Deceleration Lanes On
URBAN MULTI-LANE HIGHWAYS**

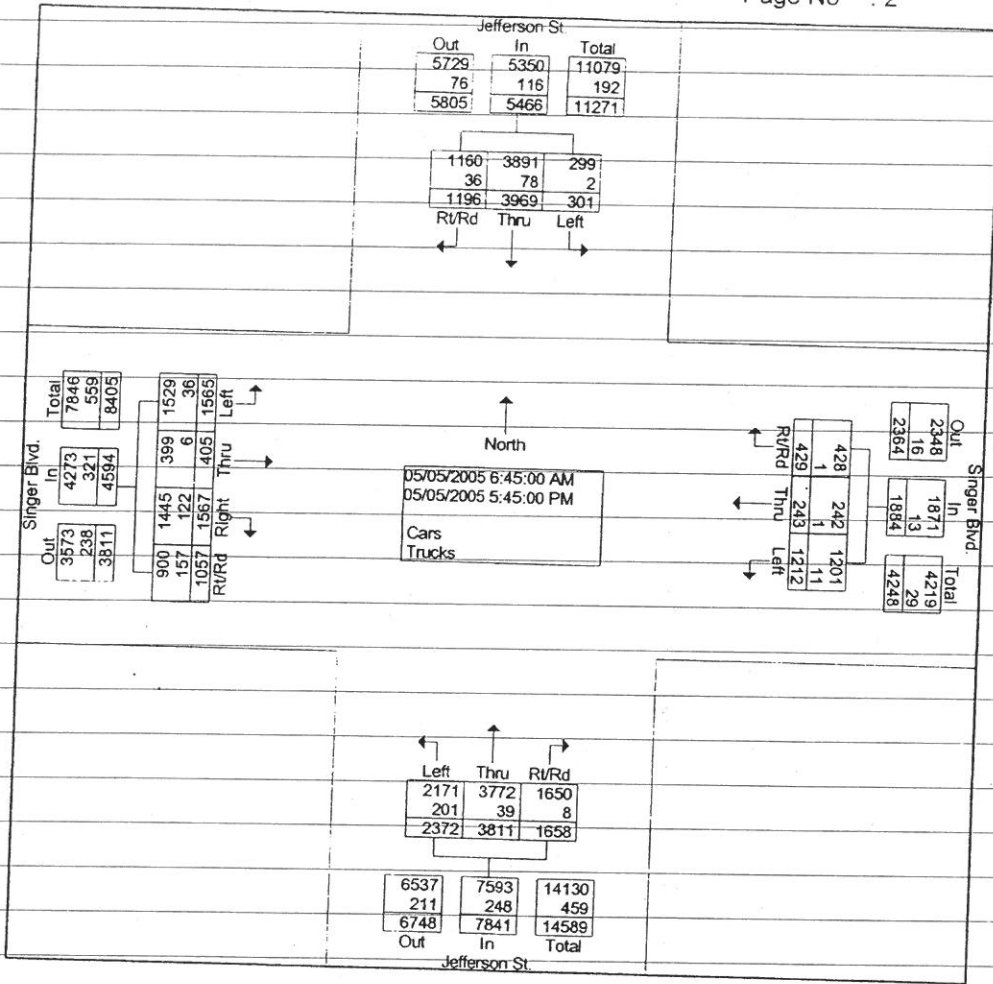
Turning Volume ¹ (vph)	LEFT-TURN DECELERATION LANE			RIGHT-TURN DECELERATION LANE		
	Minimum Directional Volume in the Through Lane (vphpl) ²			Minimum Directional Volume in the Through Lane (vphpl) ²		
	≤30 mph	35 to 40 mph	45 to 55 mph	≤30 mph	35 to 40 mph	45 to 55 mph
<5	Not Required	Not Required	Not Required	Not Required	Not Required	Not Required
5	Not Required	490	420	1,200	730	450
10	420	370	300	820	490	320
15	360	290	220	600	350	240
20	310	230	160	460	260	180
25	270	190	130	360	230	150
30	240	160	110	290	200	130
35	210	130	100	260	180	120
40	180	120	Required	240	170	110
45	160	110	Required	220	160	Required
50	140	Required	Required	200	Required	Required
55	120	Required	Required	190	Required	Required
≥56	Required	Required	Required	Required	Required	Required
<p><i>Left-turn Deceleration Lanes are Required on Urban Multi-lane Highways for the following Left-turn Volumes:</i></p> <ul style="list-style-type: none"> • ≤30 mph : 56 vph or more • 35 to 40 mph : 46 vph or more • 45 to 55 mph : 36 vph or more 			<p><i>Right-turn Deceleration Lanes are Required on Urban Multi-lane Highways for the following Right-turn Volumes:</i></p> <ul style="list-style-type: none"> • ≤30 mph : 56 vph or more • 35 to 40 mph : 46 vph or more • 45 to 55 mph : 41 vph or more 			

Notes:

1. Use linear interpolation for turning volumes between 5 and 55 vph.
2. The volume in the adjacent through lane includes through vehicles and turning vehicles.

Mid-Region Council of Governments
 Intersection Turning Movement Analysis

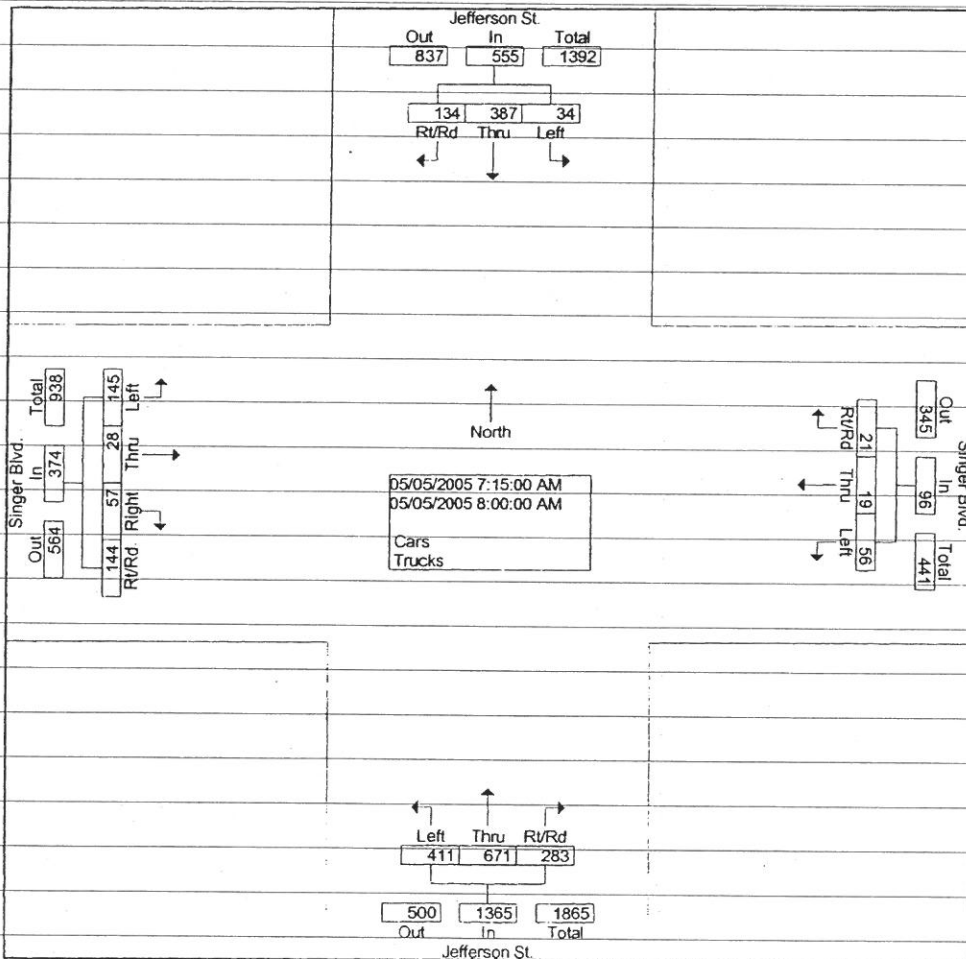
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 Site Code : 00025880
 Start Date : 05/05/2005
 Page No : 2



Mid-Region Council of Governments
 Intersection Turning Movement Analysis

File Name : Singer Blvd. and Jefferson St.
 Site Code : 00025880
 Start Date : 05/05/2005
 Page No : 3

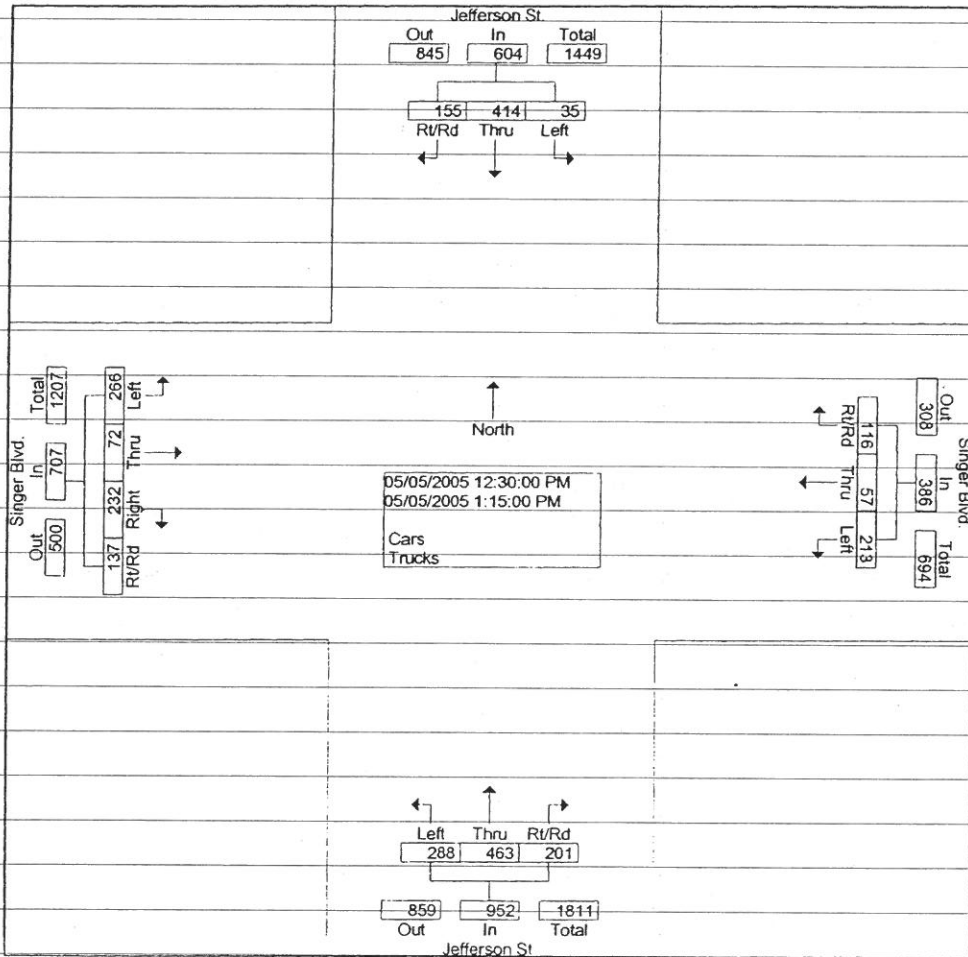
Start Time	Jefferson St. From North					Singer Blvd. From East					Jefferson St. From South					Singer Blvd. From West					Int. Total
	Left	Thru	Right	Rt/Rd	App. Total	Left	Thru	Right	Rt/Rd	App. Total	Left	Thru	Right	Rt/Rd	App. Total	Left	Thru	Right	Rt/Rd	App. Total	
Peak Hour From 06:45 to 09:30 - Peak 1 of 1																					
Intersection 07:15																					
Volume	34	387	121	13	555	56	19	21	0	96	411	671	282	1	1365	145	28	57	144	374	2390
Percent	6.1	69.7	21.8	2.3	55.5	5.8	19.8	21.9	0.0	9.6	30.1	49.2	20.7	0.1	136.5	38.8	7.5	15.2	38.5	37.4	239.0
Volume	34	387	121	13	555	56	19	21	0	96	411	671	282	1	1365	145	28	57	144	374	2390
Peak Factor	14	107	39	8	168	9	9	3	0	21	108	189	87	0	384	41	10	20	46	117	0.866
High Int. 07:45																					
Volume	14	107	39	8	168	23	8	8	0	39	108	189	87	0	384	41	10	20	46	117	890
Peak Factor	0.826					0.615					0.889					0.799					



Mid-Region Council of Governments
 Intersection Turning Movement Analysis

File Name : Singer Blvd. and Jefferson St.
 Site Code : 00025880
 Start Date : 05/05/2005
 Page No : 4

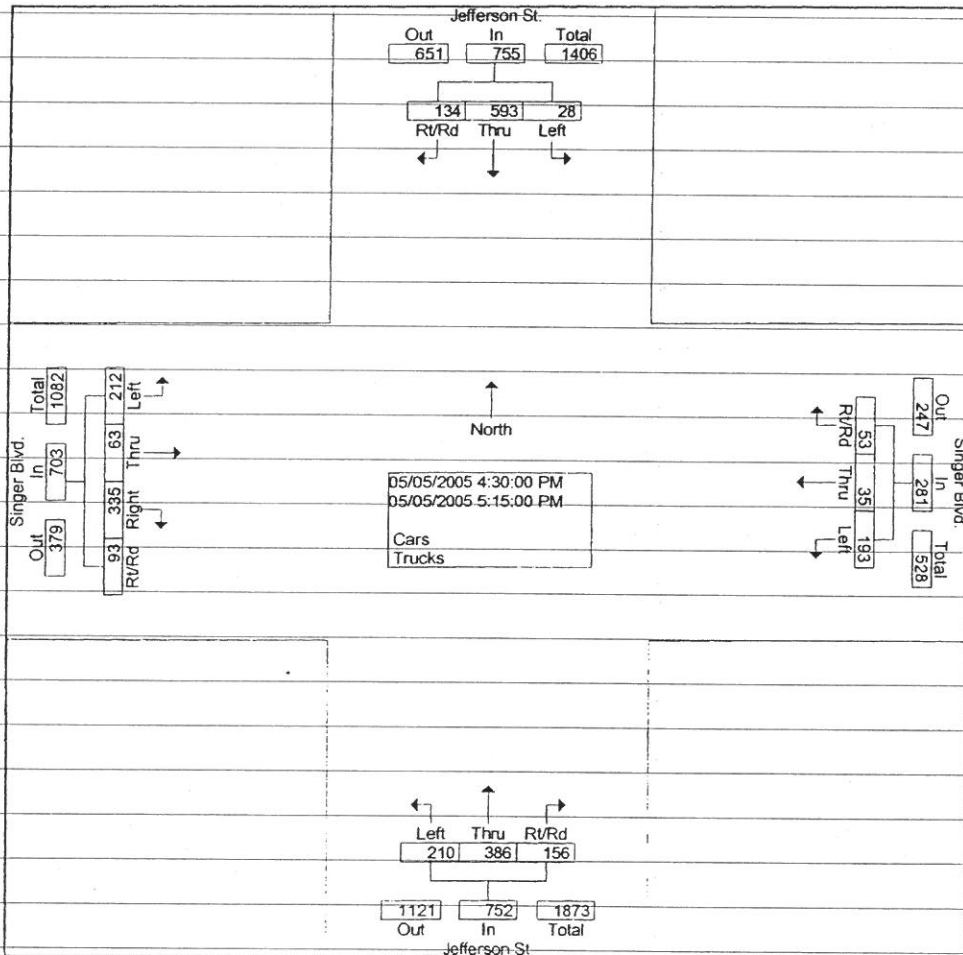
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	Left	Thru	Right	Rt/Rd	App. Total	Left	Thru	Right	Rt/Rd	App. Total	Left	Thru	Right	Rt/Rd	App. Total	Left	Thru	Right	Rt/Rd	App. Total		
Peak Hour From 11:00 to 13:45 - Peak 1 of 1 Intersection 12:30	35	414	142	13	604	213	57	116	0	386	288	463	201	0	952	266	72	232	137	707	2649	
Volume	35	414	142	13	604	213	57	116	0	386	288	463	201	0	952	266	72	232	137	707	2649	
Percent	5.8	68.5	23.5	2.2		55.2	14.8	30.1	0.0		30.3	48.6	21.1	0.0		37.6	10.2	32.8	19.4			
Volume	35	414	142	13	604	213	57	116	0	386	288	463	201	0	952	266	72	232	137	707	2649	
Volume	10	126	31	2	169	55	10	34	0	99	79	119	62	0	260	67	21	76	35	199	727	
Peak Factor																					0.911	
High-Int	13:00					12:30					13:00					13:00						
Volume	10	126	31	2	169	58	17	34	0	109	79	119	62	0	260	67	21	76	35	199		
Peak Factor					0.893					0.885					0.915						0.888	



Mid-Region Council of Governments
 Intersection Turning Movement Analysis

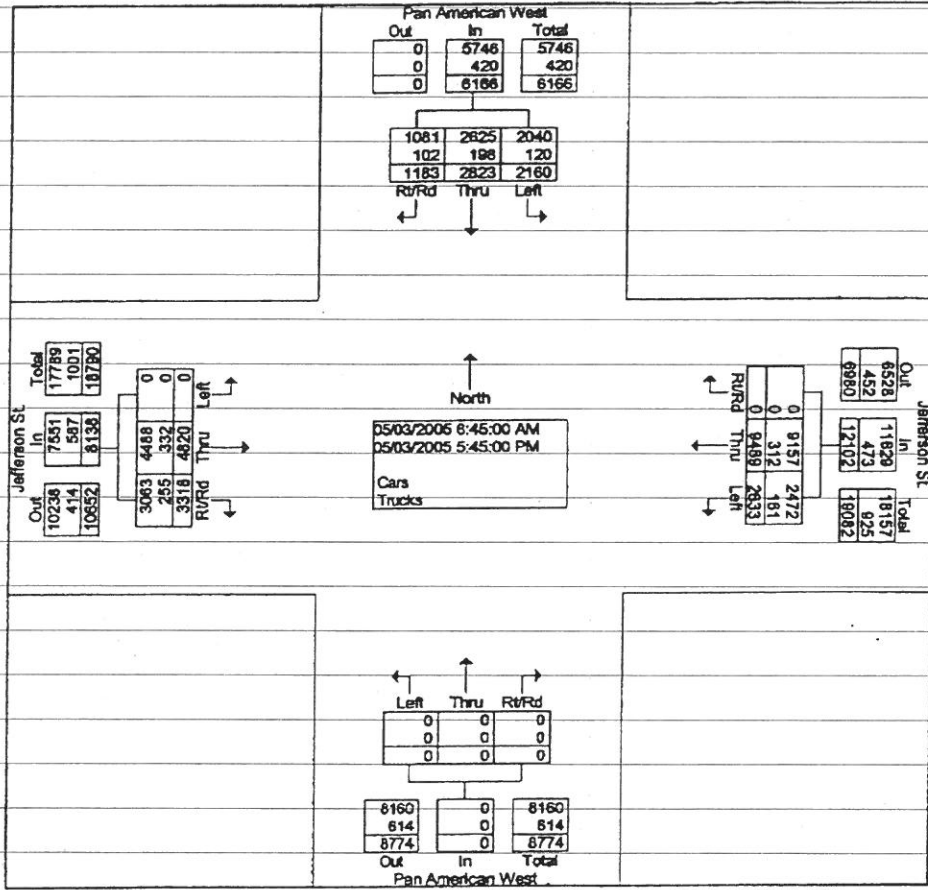
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 Site Code : 00025880
 Start Date : 05/05/2005
 Page No : 5

Start Time	Jefferson St. From North					Singer Blvd From East					Jefferson St From South					Singer Blvd. From West					Int. Total	
	Left	Thru	Right	Rt/Rd	App Total	Left	Thru	Right	Rt/Rd	App Total	Left	Thru	Right	Rt/Rd	App Total	Left	Thru	Right	Rt/Rd	App Total		
Peak Hour From 15:00 to 17:45 - Peak 1 of 1 Intersection 16:30																						
Volume	28	593	131	3	755	193	35	53	0	281	210	386	154	2	752	212	63	335	93	703	2491	
Percent	3.7	78.5	17.4	0.4		68.7	12.5	18.9	0.0		27.9	51.3	20.5	0.3		30.2	9.0	47.7	13.2			
Volume	28	593	131	3	755	193	35	53	0	281	210	386	154	2	752	212	63	335	93	703	2491	
Volume	7	144	26	0	177	58	9	27	0	94	71	96	38	0	205	63	41	136	10	250	726	
Peak Factor																					0.858	
High Int. Volume	16:30					17:00					18:30					17:00						
Peak-Factor	7	176	37	0	220	58	9	27	0	94	64	104	38	1	207	63	41	136	10	250	0.703	
					0.858					0.747					0.908					0.703		



Mid-Region Council of Governments
 Intersection Turning Movement Analysis

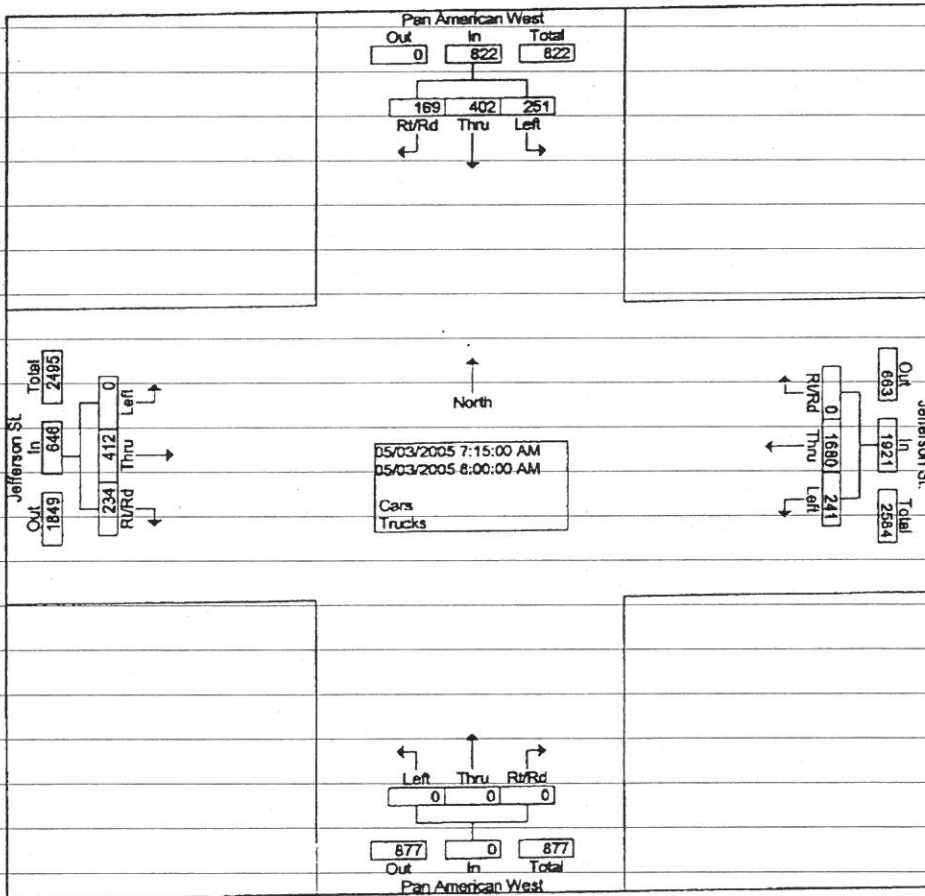
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 Start Date : 05/03/2005
 Page No : 2



Mid-Region Council of Governments
 Intersection Turning Movement Analysis

File Name : Jefferson St. and Pan American West
 Site Code : 00025239
 Start Date : 05/03/2005
 Page No : 3

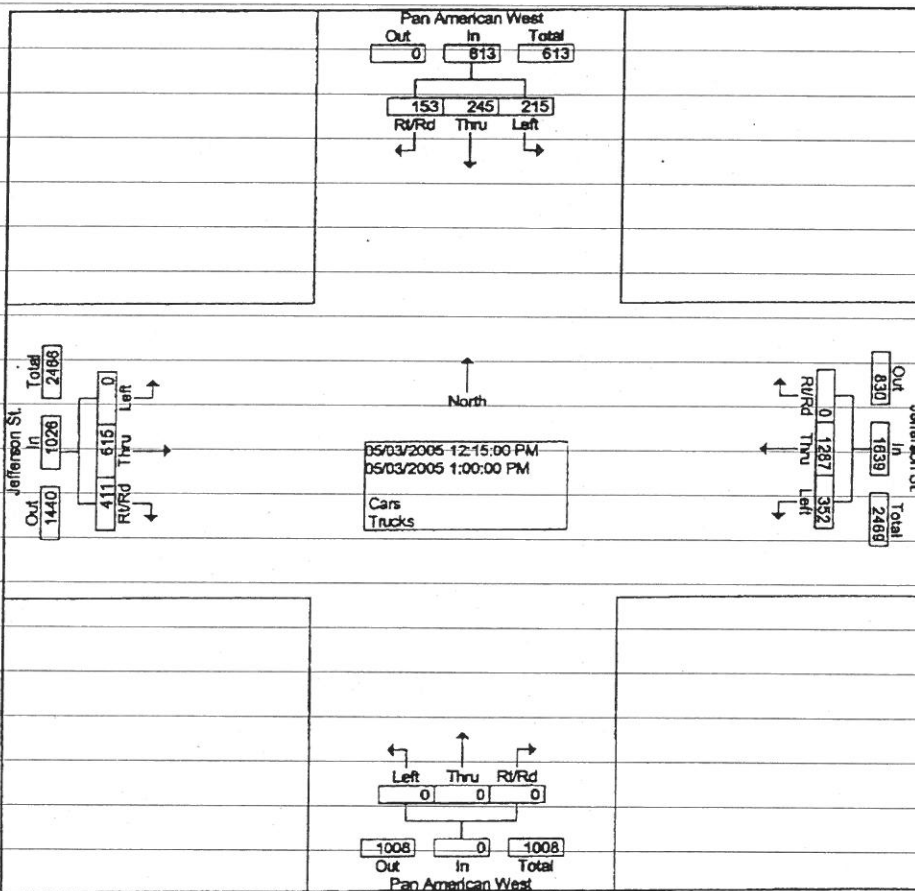
Start Time	Pan American West From North					Jefferson St. From East					Pan American West From South					Jefferson St. From West					Int. Total		
	Left	Thru	Right	R/R d	App. Total	Left	Thru	Right	R/R d	App. Total	Left	Thru	Right	R/R d	App. Total	Left	Thru	Right	R/R d	App. Total			
Peak Hour From 06:45 to 09:30 - Peak 1 of 1																							
Intersection 07:15	251	402	97	72	822	241	1880	0	0	1921	0	0	0	0	0	0	412	217	17	646	3389		
Volume	251	402	97	72	822	241	1880	0	0	1921	0	0	0	0	0	0	412	217	17	646	3389		
Percant	30.5	48.9	11.8	8.8		12.5	87.5	0.0	0.0		0.0	0.0	0.0	0.0		0.0	63.8	33.5	2.6				
Volume	251	402	97	72	822	241	1880	0	0	1921	0	0	0	0	0	0	412	217	17	646	1035		
Volume	87	133	47	15	282	39	528	0	0	565	0	0	0	0	0	0	118	67	3	188	0.819		
Peak Factor																							
High Int. Volume	07:45	87	133	47	15	282	07:45	39	528	0	0	565	6:30:00 AM	0	0	0	07:45	0	118	67	3	188	0.858
Peak Factor																							



Mid-Region Council of Governments
 Intersection Turning Movement Analysis

File Name : Jefferson St. and Pan American West
 Site Code : 00025239
 Start Date : 05/03/2005
 Page No : 4

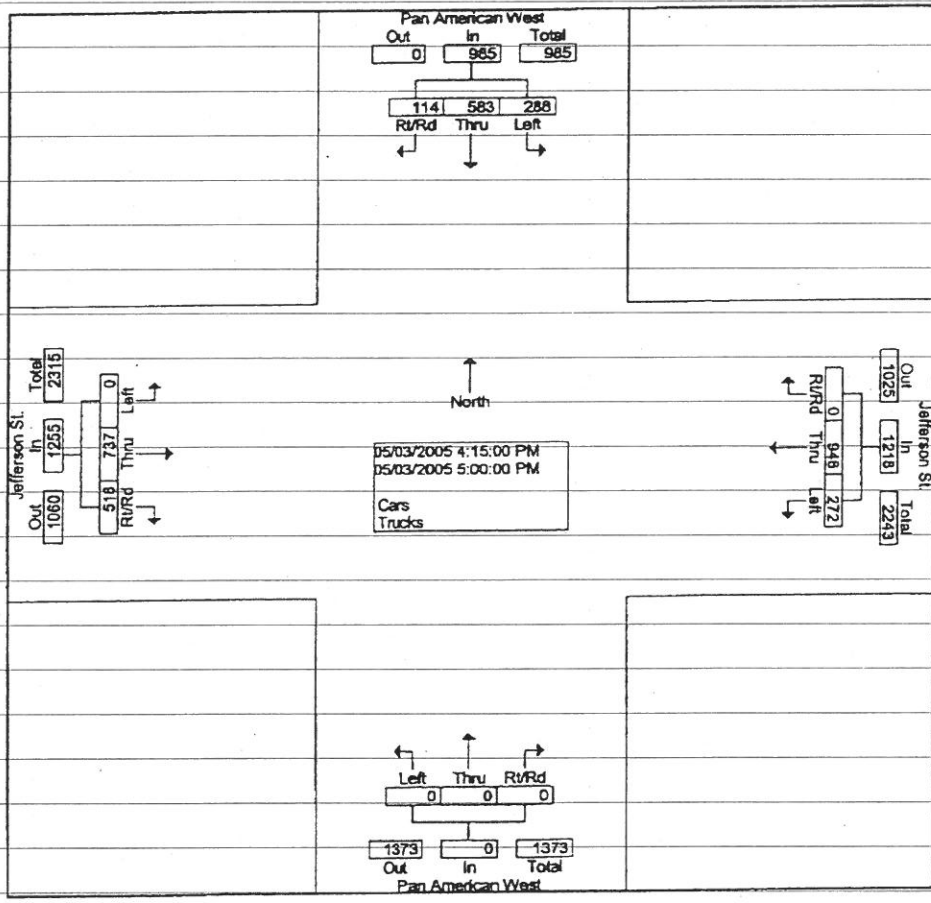
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	Left	Thru	Right	R/R d	App. Total	Left	Thru	Right	R/R d	App. Total	Left	Thru	Right	R/R d	App. Total	Left	Thru	Right	R/R d	App. Total	
Peak Hour From 11:00 to 13:45 - Peak 1 of 1																					
Intersection 12:15																					
Volume	215	245	95	58	613	352	1287	0	0	1639	0	0	0	0	0	0	615	381	30	1026	3278
Percent	35.1	40.0	15.5	9.5	613	21.5	78.5	0.0	0.0	1639	0.0	0.0	0.0	0.0	0.0	0.0	59.9	37.1	2.9	1026	3278
Volume	215	245	95	58	613	352	1287	0	0	1639	0	0	0	0	0	0	615	381	30	1026	3278
Volume	82	89	16	12	179	95	323	0	0	418	0	0	0	0	0	0	171	89	14	274	871
Peak Factor																					
High Int. 13:00																					
Volume	82	89	16	12	179	94	337	0	0	431	0	0	0	0	0	0	171	89	14	274	871
Peak Factor	0.856					0.951										0.936					



Mid-Region Council of Governments
 Intersection Turning Movement Analysis

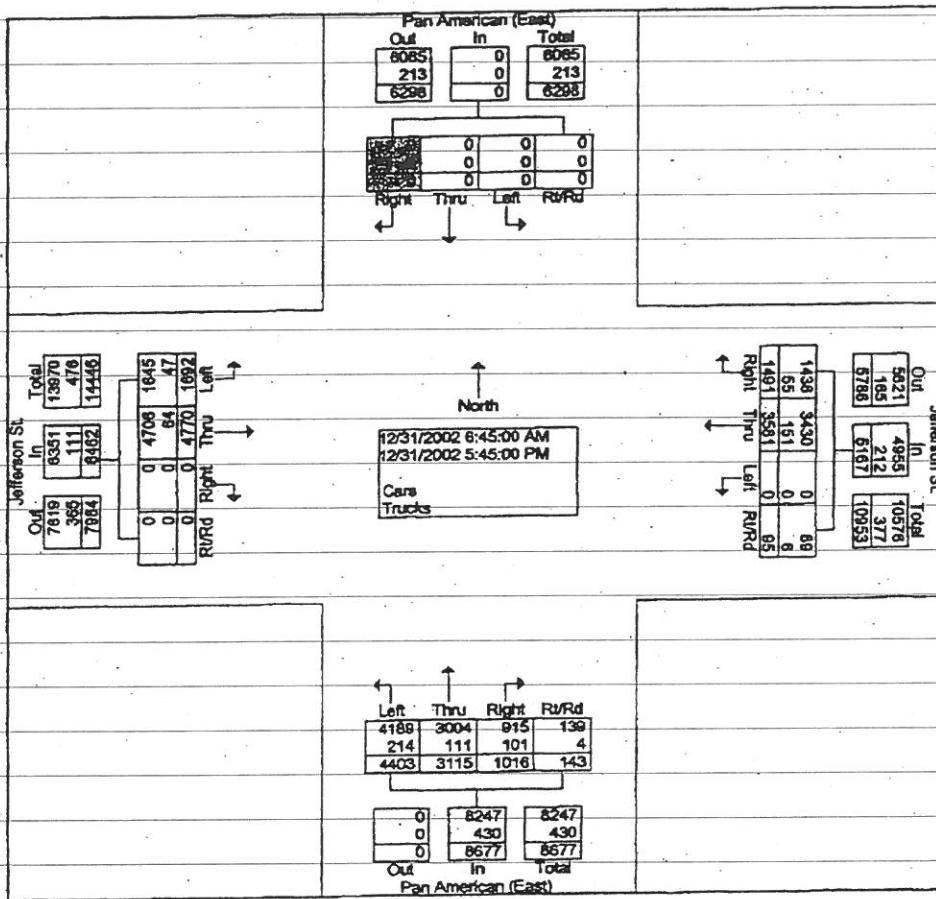
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 Site Code : 00025239
 Start Date : 05/03/2005
 Page No : 5

Start Time	Pan American West From North					Jefferson St. From East					Pan American West From South					Jefferson St. From West					Int. Total
	Left	Thru	Right	R/R d	App. Total	Left	Thru	Right	R/R d	App. Total	Left	Thru	Right	R/R d	App. Total	Left	Thru	Right	R/R d	App. Total	
Peak Hour From 15:00 to 17:45 - Peak 1 of 1																					
Intersection 16:15																					
Volume	288	583	62	52	985	272	946	0	0	1218	0	0	0	0	0	0	737	503	15	1255	3458
Percent	29.2	59.2	6.3	5.3		22.3	77.7	0.0	0.0		0.0	0.0	0.0	0.0		0.0	58.7	40.1	1.2		
Volume	288	583	62	52	985	272	946	0	0	1218	0	0	0	0	0	0	737	503	15	1255	3458
Volume	74	150	12	18	254	79	227	0	0	306	0	0	0	0	0	0	162	130	3	315	875
Peak Factor																					
High Int. Volume	74	150	12	18	254	85	253	0	0	318	0	0	0	0	0	0	215	113	5	333	0.988
Peak Factor																					
	0.969					0.958										0.942					



Mid-Region Council of Governments
 Intersection Turning Movement Analysis

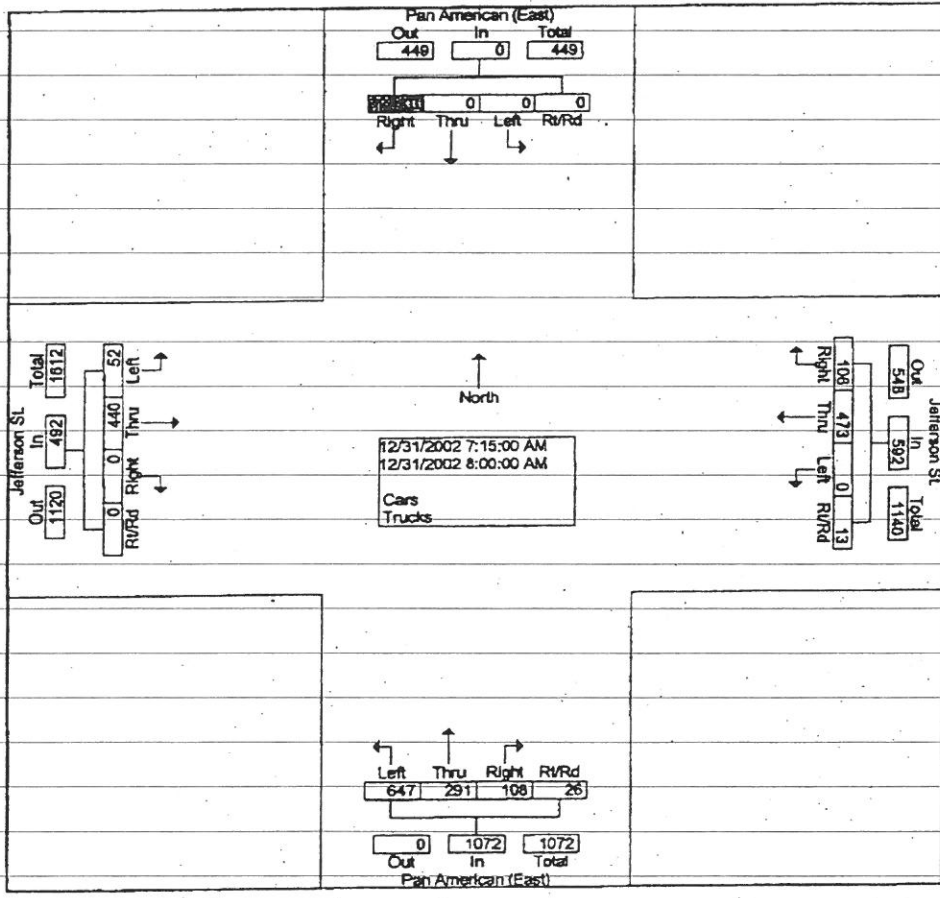
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 Start Date : 12/31/2002
 Page No : 2



Mid-Region Council of Governments
 Intersection Turning Movement Analysis

File Name : Jefferson St. and Pan American (East)
 Site Code : 00025240
 Start Date : 12/31/2002
 Page No : 4

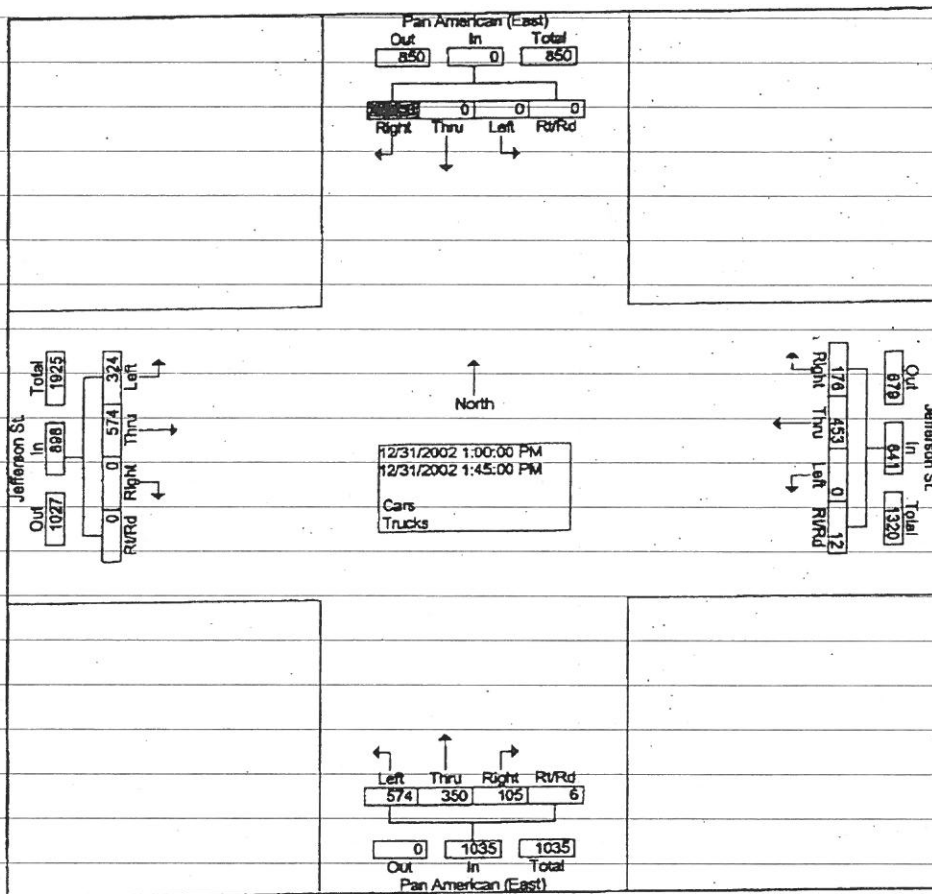
Start Time	Pan American (East) From North					Jefferson St. From East					Pan American (East) From South					Jefferson St. From West					Int. Total
	Left	Thru	Right	Rt/Rd	App. Total	Left	Thru	Right	Rt/Rd	App. Total	Left	Thru	Right	Rt/Rd	App. Total	Left	Thru	Right	Rt/Rd	App. Total	
Peak Hour From 06:45 to 09:45 - Peak 1 of 1																					
Intersection	07:15																				
Volume	0	0	0	0	0	0	473	106	13	592	647	291	108	26	1072	52	440	0	0	492	2156
Percent	0.0	0.0	0.0	0.0	0.0	0.0	79.9	17.9	2.2	59.2	60.4	27.1	10.1	2.4	107.2	10.6	88.4	0.0	0.0	49.2	215.6
Volume	0	0	0	0	0	0	473	106	13	562	647	291	108	26	1072	52	440	0	0	492	852
Volume	0	0	0	0	0	0	162	39	3	204	176	84	32	8	300	15	133	0	0	148	0.827
Peak Factor																					
High Int.	8:30:00 AM					07:45					07:30					07:45					
Volume	0	0	0	0	0	0	162	39	3	204	208	71	26	4	309	15	133	0	0	148	
Peak Factor						0.725					0.867					0.831					



Mid-Region Council of Governments
 Intersection Turning Movement Analysis

File Name : Jefferson St. and Pan American (East)
 Site Code : 00025240
 Start Date : 12/31/2002
 Page No : 5

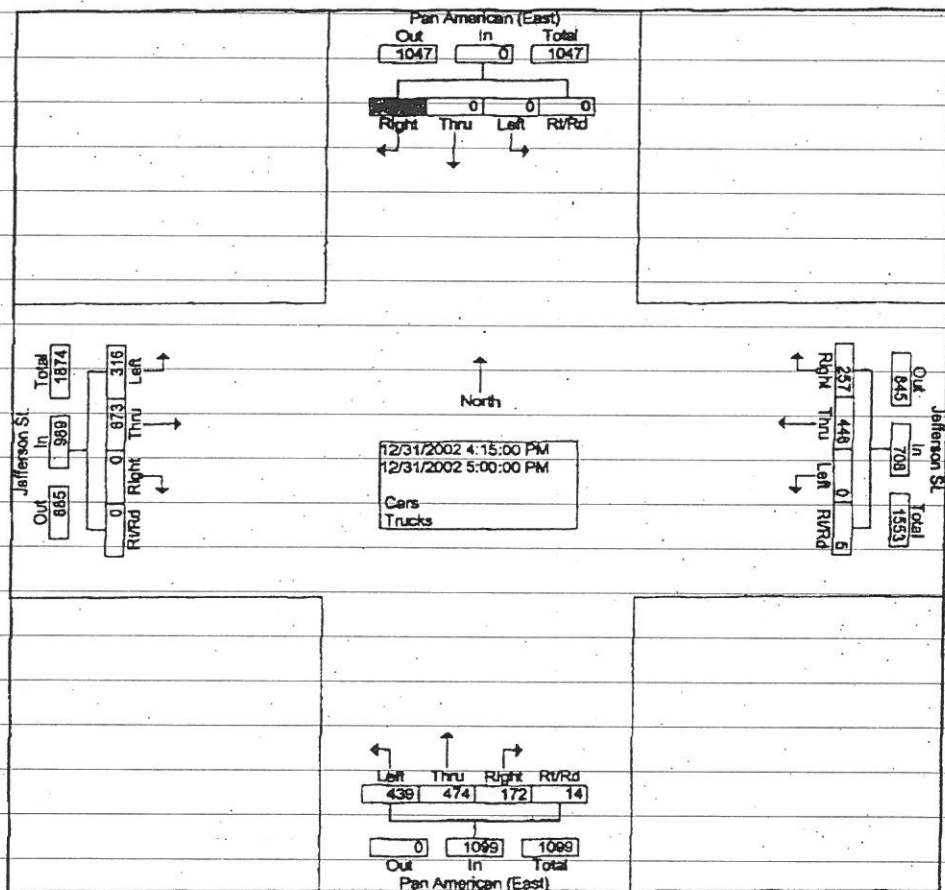
Start Time	Pan American (East) From North					Jefferson St. From East					Pan American (East) From South					Jefferson St. From West					Int. Total	
	Left	Thru	Right	Rt/Rd	App. Total	Left	Thru	Right	Rt/Rd	App. Total	Left	Thru	Right	Rt/Rd	App. Total	Left	Thru	Right	Rt/Rd	App. Total		
Peak Hour From 10:00 to 13:45 - Peak 1 of 1 Intersection 13:00																						
Volume	0	0	0	0	0	0	453	176	12	641	574	350	105	6	1035	324	574	0	0	898	2574	
Percent	0.0	0.0	0.0	0.0	0.0	0.0	70.7	27.5	1.9	64.1	55.5	33.8	10.1	0.6	103.5	38.1	63.9	0.0	0.0	89.8	257.4	
Volume	0	0	0	0	0	0	453	176	12	641	574	350	105	6	1035	324	574	0	0	898	2574	
Volume	0	0	0	0	0	0	136	58	1	195	149	98	33	3	283	80	184	0	0	244	722	
Peak Factor																					0.891	
High Int. Volume						13:45					13:45					13:45						
Volume	0	0	0	0	0	0	136	58	1	195	149	98	33	3	283	80	184	0	0	244	244	
Peak Factor										0.822					0.914						0.920	



Mid-Region Council of Governments
 Intersection Turning Movement Analysis

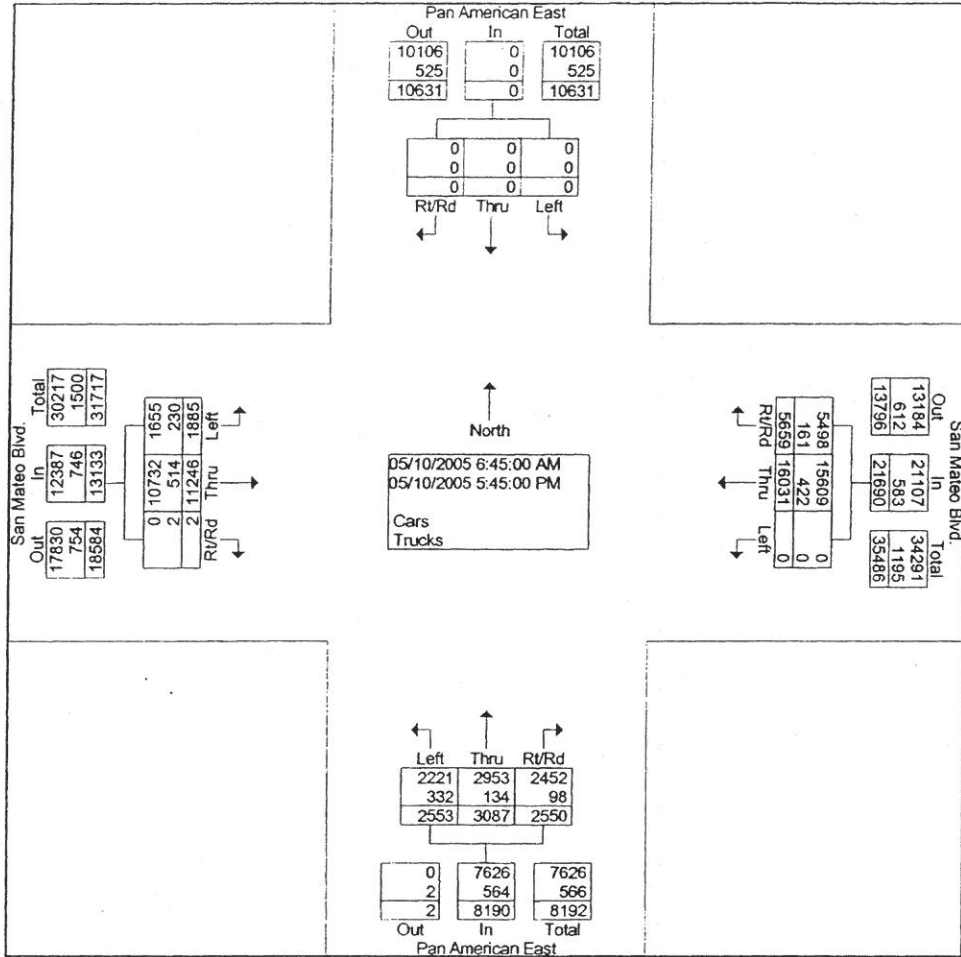
File Name : Jefferson St. and Pan American (East)
 Site Code : 00025240
 Start Date : 12/31/2002
 Page No : 6

Start Time	Pan American (East) From North					Jefferson St. From East					Pan American (East) From South					Jefferson St. From West					Int. Total			
	Left	Thru	Right	Rt/Rd	App. Total	Left	Thru	Right	Rt/Rd	App. Total	Left	Thru	Right	Rt/Rd	App. Total	Left	Thru	Right	Rt/Rd	App. Total				
Peak Hour From 14:00 to 17:45 - Peak 1 of 1																								
Interaction 18:15																								
Volume	0	0	0	0	0	0	446	257	5	708	439	474	172	14	1099	316	673	0	0	989	2796			
Percent	0.0	0.0	0.0	0.0	0	0.0	63.0	36.3	0.7	708	39.9	43.1	15.7	1.3	1099	32.0	68.0	0.0	0.0	989	2796			
Volume	0	0	0	0	0	0	446	257	5	708	439	474	172	14	1099	316	673	0	0	989	738			
Volume	0	0	0	0	0	0	118	68	0	186	95	132	28	2	257	104	191	0	0	295	0.947			
Peak Factor																								
High Int. Volume	0	0	0	0	0	17:00	0	118	68	0	188	18:15	129	104	49	6	288	17:00	104	191	0	0	295	
Peak Factor																								



Mid-Region Council of Governments
 Intersection Turning Movement Analysis

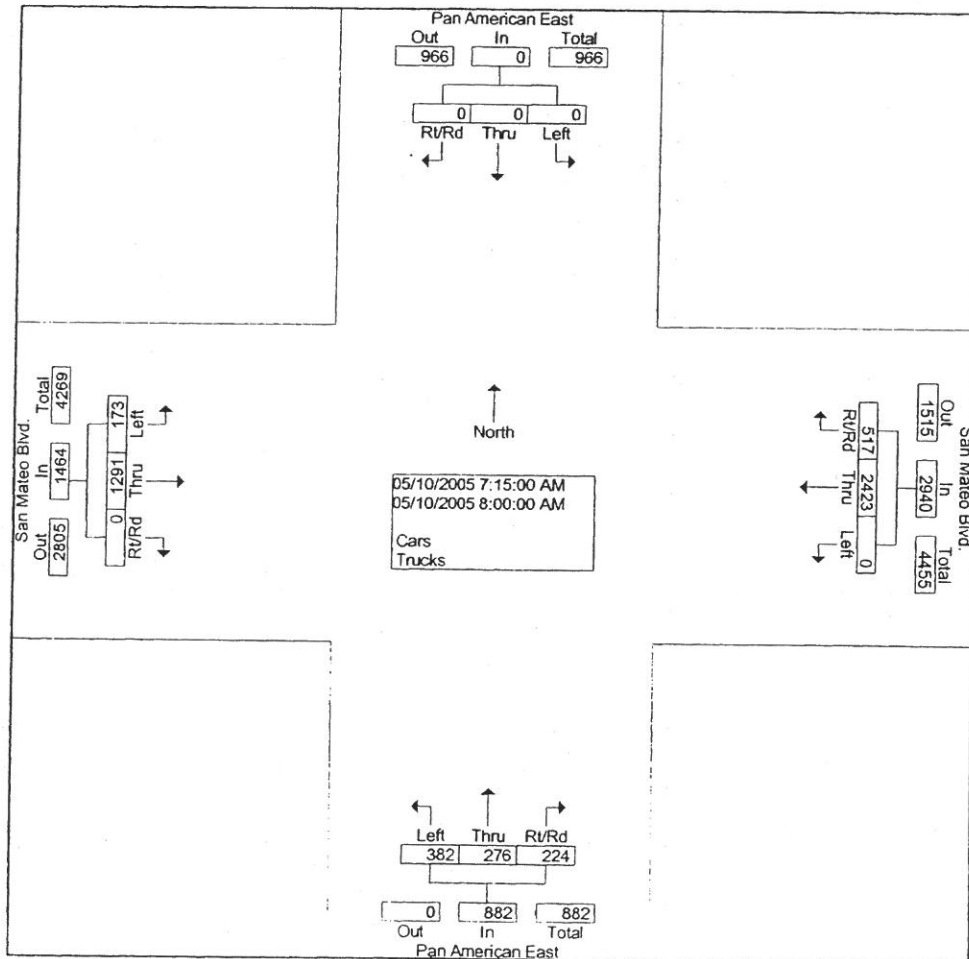
File Name : San Mateo Blvd. and Pan American East
 Site Code : 00025375
 Start Date : 05/10/2005
 Page No : 2



Mid-Region Council of Governments
 Intersection Turning Movement Analysis

File Name : San Mateo Blvd. and Pan American East
 Site Code : 00025375
 Start Date : 05/10/2005
 Page No : 3

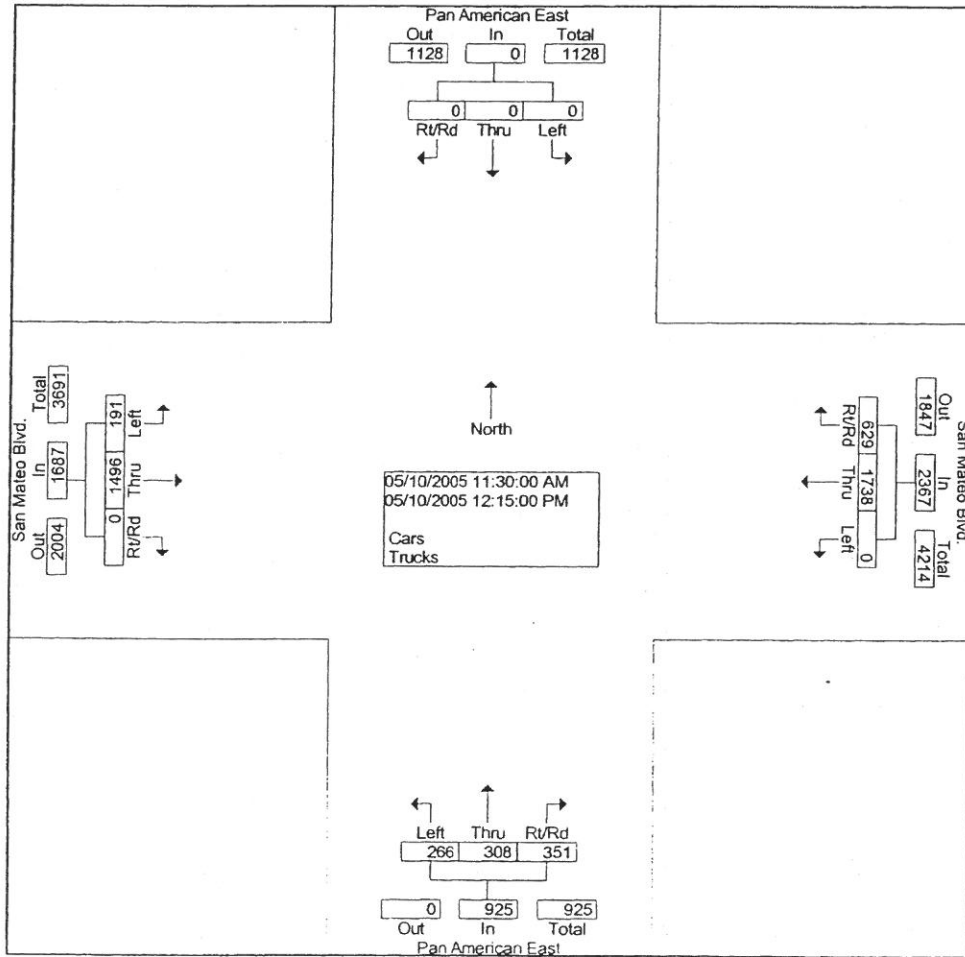
Start Time	Pan American East From North					San Mateo Blvd. From East					Pan American East From South					San Mateo Blvd. From West					Int. Total			
	Left	Thru	Right	Rt/Rd	App. Total	Left	Thru	Right	Rt/Rd	App. Total	Left	Thru	Right	Rt/Rd	App. Total	Left	Thru	Right	Rt/Rd	App. Total				
Peak Hour From 06:45 to 09:30 - Peak 1 of 1																								
Intersection 07:15																								
Volume	0	0	0	0	0	0	2423	460	57	2940	382	276	135	89	882	173	1291	0	0	1464	5286			
Percent	0.0	0.0	0.0	0.0	0	0.0	82.4	15.6	1.9	2940	43.3	31.3	15.3	10.1	882	11.8	88.2	0.0	0.0	1464	5286			
Volume	0	0	0	0	0	0	2423	460	57	2940	382	276	135	89	882	173	1291	0	0	1464	5286			
Volume	0	0	0	0	0	0	544	103	20	667	113	87	41	21	262	51	413	0	0	464	1393			
Peak Factor																								
High Int. 6:30:00 AM						07:15						07:45						07:45						0.949
Volume	0	0	0	0	0	0	711	129	15	855	113	87	41	21	262	51	413	0	0	464	855			
Peak Factor							0.860										0.842							



Mid-Region Council of Governments
 Intersection Turning Movement Analysis

File Name : San Mateo Blvd. and Pan American East
 Site Code : 00025375
 Start Date : 05/10/2005
 Page No : 4

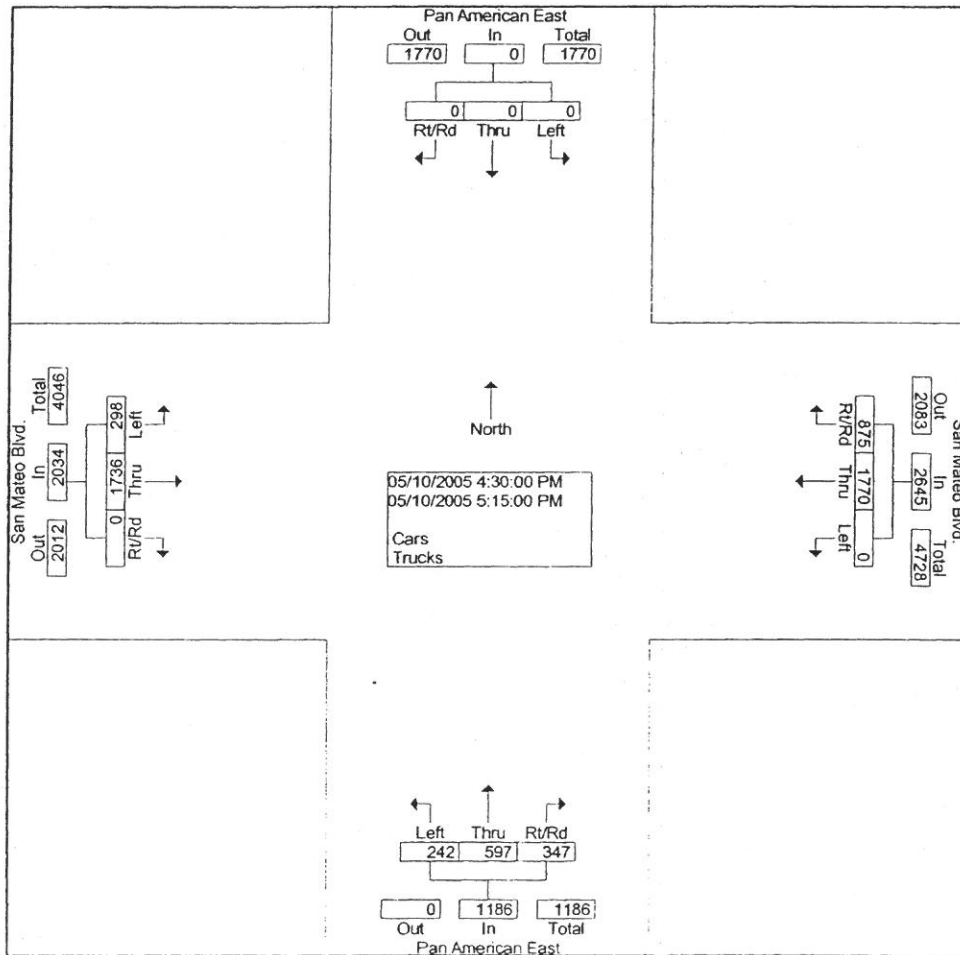
Start Time	Pan American East From North					San Mateo Blvd. From East					Pan American East From South					San Mateo Blvd. From West					Int. Total
	Left	Thru	Right	Rt/Rd	App. Total	Left	Thru	Right	Rt/Rd	App. Total	Left	Thru	Right	Rt/Rd	App. Total	Left	Thru	Right	Rt/Rd	App. Total	
Peak Hour From 11:00 to 13:45 - Peak 1 of 1																					
Intersection	11:30																				
Volume	0	0	0	0	0	0	1738	592	37	2367	266	308	253	98	925	191	1496	0	0	1687	4979
Percent	0.0	0.0	0.0	0.0	0	0.0	73.4	25.0	1.6	2367	28.8	33.3	27.4	10.6	925	11.3	88.7	0.0	0.0	1687	4979
Volume	0	0	0	0	0	0	1738	592	37	2367	266	308	253	98	925	191	1496	0	0	1687	4979
Volume	0	0	0	0	0	0	465	129	9	603	68	75	72	24	239	57	380	0	0	437	1279
Peak Factor	0.973																				
High Int. Volume	11:30					12:00					12:00										
Volume	0	0	0	0	0	0	465	129	9	603	67	88	77	24	256	53	385	0	0	438	438
Peak Factor	0.981					0.903					0.963										



Mid-Region Council of Governments
 Intersection Turning Movement Analysis

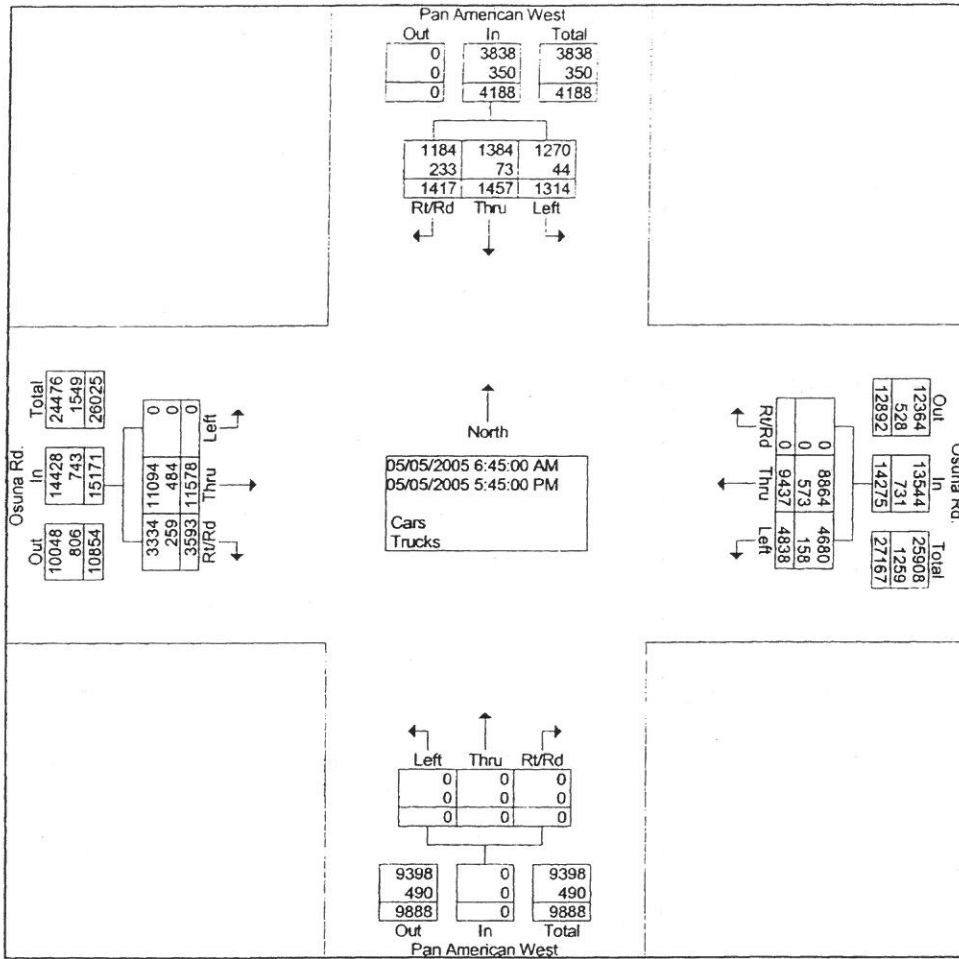
File Name : San Mateo Blvd. and Pan American East
 Site Code : 00025375
 Start Date : 05/10/2005
 Page No : 5

Start Time	Pan American East From North					San Mateo Blvd. From East					Pan American East From South					San Mateo Blvd. From West					Int. Total			
	Left	Thru	Right	Rt/Rd	App. Total	Left	Thru	Right	Rt/Rd	App. Total	Left	Thru	Right	Rt/Rd	App. Total	Left	Thru	Right	Rt/Rd	App. Total				
Peak Hour From 15:00 to 17:45 - Peak 1 of 1																								
Intersection 16:30																								
Volume	0	0	0	0	0	0	1770	823	52	2645	242	597	286	61	1186	298	1736	0	0	2034	5865			
Percent	0.0	0.0	0.0	0.0	0.0	0.0	66.9	31.1	2.0	20.4	50.3	24.1	5.1	14.7	85.3	0.0	0.0	2034	5865					
Volume	0	0	0	0	0	0	1770	823	52	2645	242	597	286	61	1186	298	1736	0	0	2034	5865			
Volume	0	0	0	0	0	0	473	219	10	702	51	158	76	11	296	66	432	0	0	498	1496			
Peak Factor																								
High Int.						17:00						17:15						16:45						0.980
Volume	0	0	0	0	0	0	473	219	10	702	59	148	88	10	305	75	456	0	0	531	0.958			
Peak Factor							0.942						0.972											



Mid-Region Council of Governments
 IntersectionTurning Movement Analysis

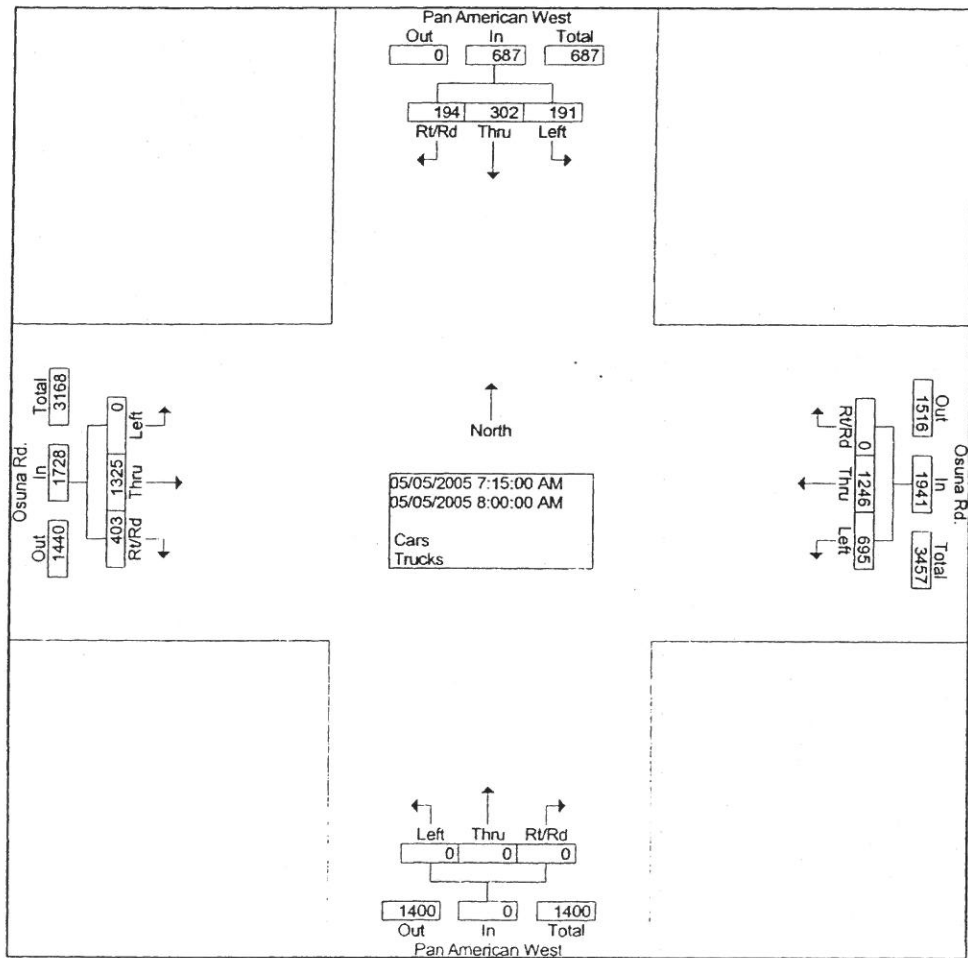
File Name : Osuna Rd. and Pan American West
 Site Code : 00025374
 Start Date : 05/05/2005
 Page No : 2



Mid-Region Council of Governments
 Intersection Turning Movement Analysis

File Name : Osuna Rd. and Pan American West
 Site Code : 00025374
 Start Date : 05/05/2005
 Page No : 3

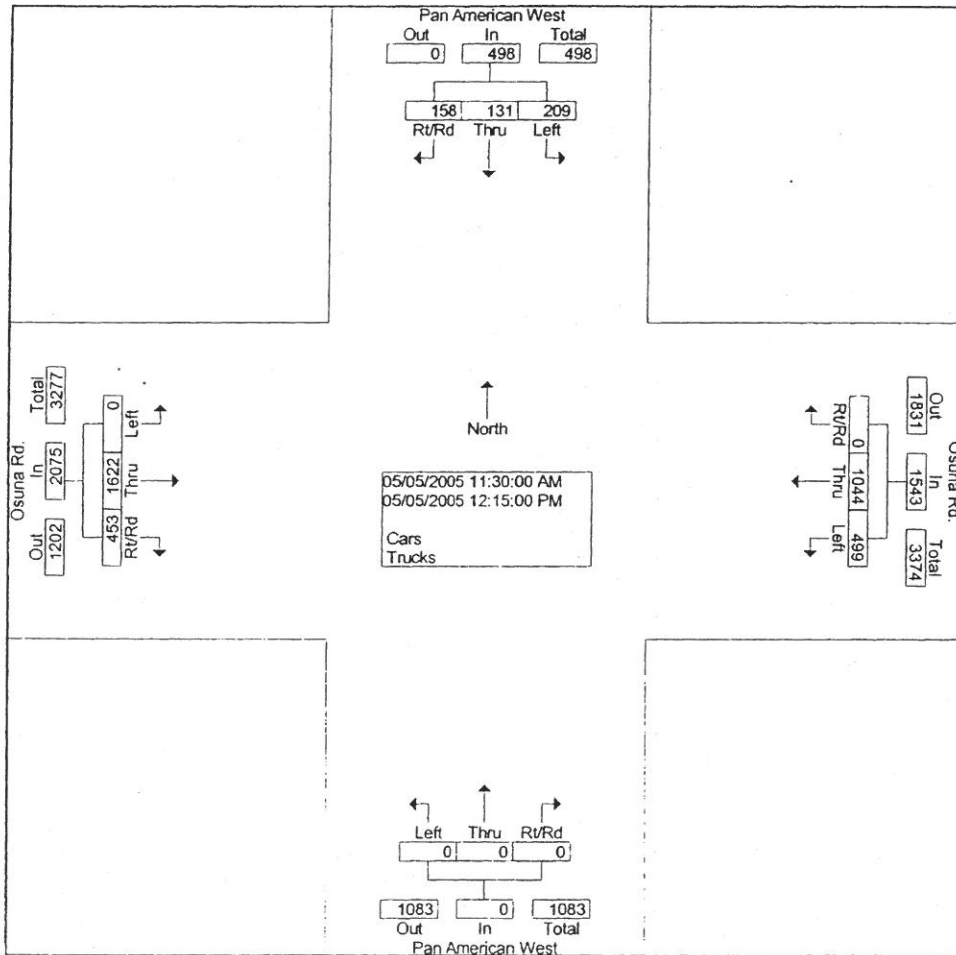
Start Time	Pan American West From North					Osuna Rd. From East					Pan American West From South					Osuna Rd. From West					Int. Total	
	Left	Thru	Right	Rt/Rd	App. Total	Left	Thru	Right	Rt/Rd	App. Total	Left	Thru	Right	Rt/Rd	App. Total	Left	Thru	Right	Rt/Rd	App. Total		
Peak Hour From 06:45 to 09:30 - Peak 1 of 1																						
Intersection	07:15																					
Volume	191	302	140	54	687	695	1246	0	0	1941	0	0	0	0	0	0	0	1325	349	54	1728	4356
Percent	27.8	44.0	20.4	7.9	35.8	64.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	76.7	20.2	3.1	0.0	
Volume	191	302	140	54	687	695	1246	0	0	1941	0	0	0	0	0	0	0	1325	349	54	1728	4356
Volume	45	90	45	16	196	192	349	0	0	541	0	0	0	0	0	0	0	384	121	17	522	1259
Peak Factor	0.865																					
High Int.	07:45					07:30					6:30:00 AM					07:30						
Volume	52	101	39	15	207	192	349	0	0	541	0	0	0	0	0	0	0	384	121	17	522	522
Peak Factor	0.830					0.897										0.828						



Mid-Region Council of Governments
 Intersection Turning Movement Analysis

File Name : Osuna Rd. and Pan American West
 Site Code : 00025374
 Start Date : 05/05/2005
 Page No : 4

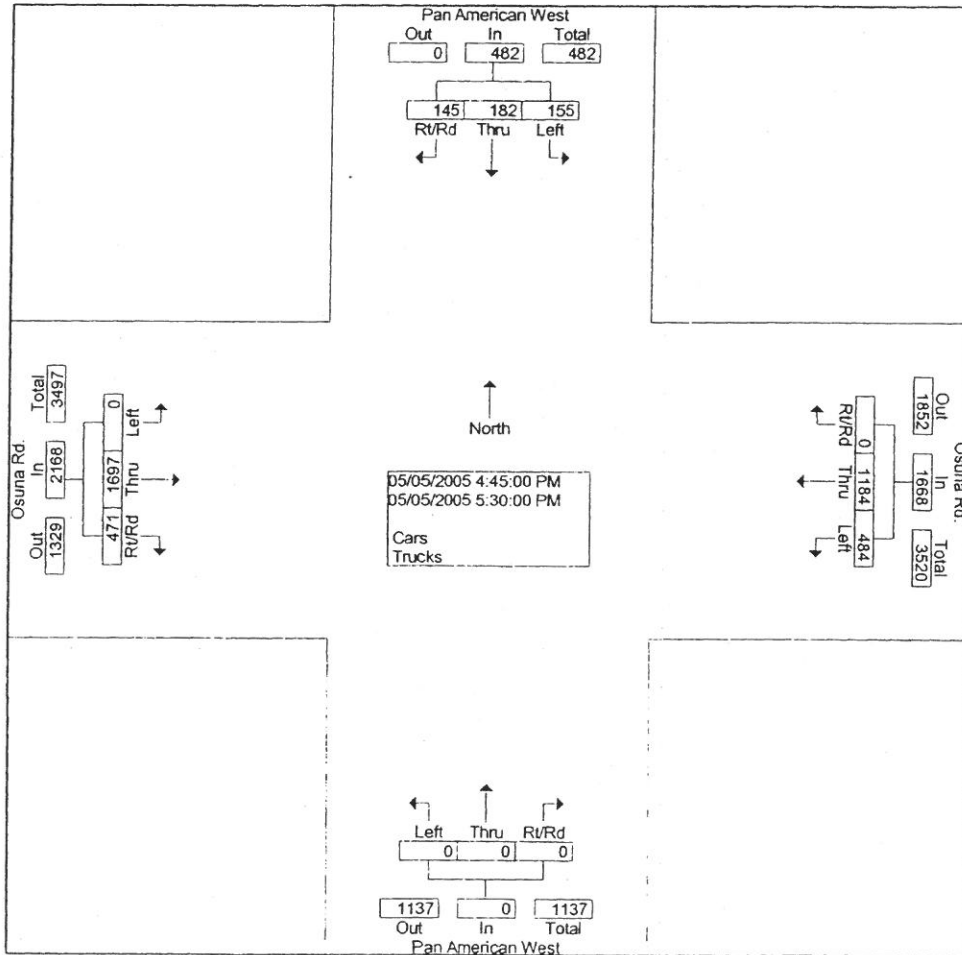
Start Time	Pan American West From North					Osuna Rd From East					Pan American West From South					Osuna Rd From West					Int. Total
	Left	Thru	Right	Rt/Rd	App. Total	Left	Thru	Right	Rt/Rd	App. Total	Left	Thru	Right	Rt/Rd	App. Total	Left	Thru	Right	Rt/Rd	App. Total	
Peak Hour From 11:00 to 13:45 - Peak 1 of 1																					
Intersection 11:30																					
Volume	209	131	94	64	498	499	1044	0	0	1543	0	0	0	0	0	0	1622	433	20	2075	4116
Percent	42.0	26.3	18.9	12.9		32.3	67.7	0.0	0.0		0.0	0.0	0.0	0.0		0.0	78.2	20.9	1.0		
Volume	209	131	94	64	498	499	1044	0	0	1543	0	0	0	0	0	0	1622	433	20	2075	4116
Volume	56	29	26	17	128	122	286	0	0	408	0	0	0	0	0	0	446	100	5	551	1087
Peak Factor																					
High Int. 11:45						12:15										12:00					
Volume	49	34	29	18	130	131	282	0	0	413	0	0	0	0	0	0	446	100	5	551	0.947
Peak Factor	0.958										0.934										0.941



Mid-Region Council of Governments
 Intersection Turning Movement Analysis

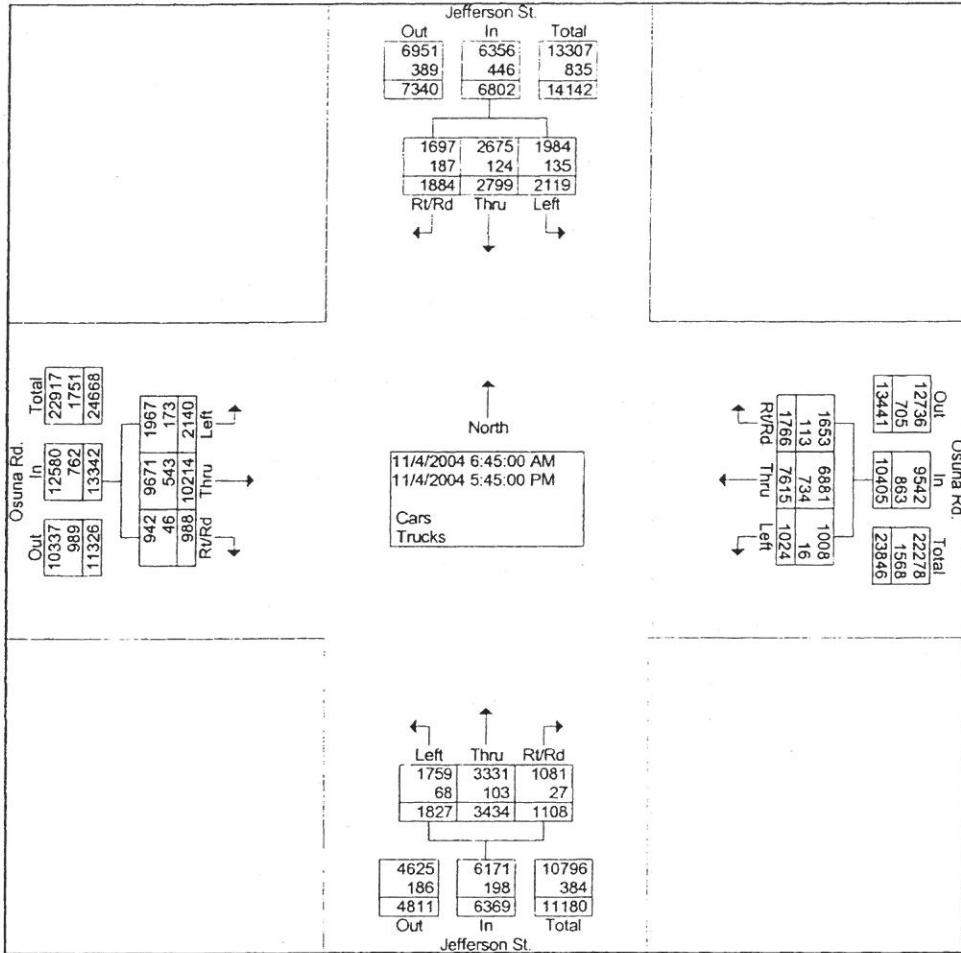
File Name : Osuna Rd. and Pan American West
 Site Code : 00025374
 Start Date : 05/05/2005
 Page No : 5

Start Time	Pan American West From North					Osuna Rd From East					Pan American West From South					Osuna Rd From West					Int. Total	
	Left	Thru	Right	Rt/Rd	App. Total	Left	Thru	Right	Rt/Rd	App. Total	Left	Thru	Right	Rt/Rd	App. Total	Left	Thru	Right	Rt/Rd	App. Total		
Peak Hour From 15:00 to 17:45 - Peak 1 of 1																						
Intersection 16:45																						
Volume	155	182	80	65	482	484	1184	0	0	1668	0	0	0	0	0	0	1697	450	21	2168	4318	
Percent	32.2	37.8	16.6	13.5		29.0	71.0	0.0	0.0		0.0	0.0	0.0	0.0		0.0	78.3	20.8	1.0			
Volume	155	182	80	65	482	484	1184	0	0	1668	0	0	0	0	0	0	1697	450	21	2168	4318	
Volume	45	45	14	19	123	130	250	0	0	380	0	0	0	0	0	0	515	125	5	645	1148	
Peak Factor																						
High Int.	16:45																					
Volume	37	58	26	20	141	17:30	124	344	0	0	468	0	0	0	0	0	17:00	515	125	5	645	0.940
Peak Factor	0.855					0.891										0.840						



Mid-Region Council of Governments
 Intersection Turning Movement Analysis

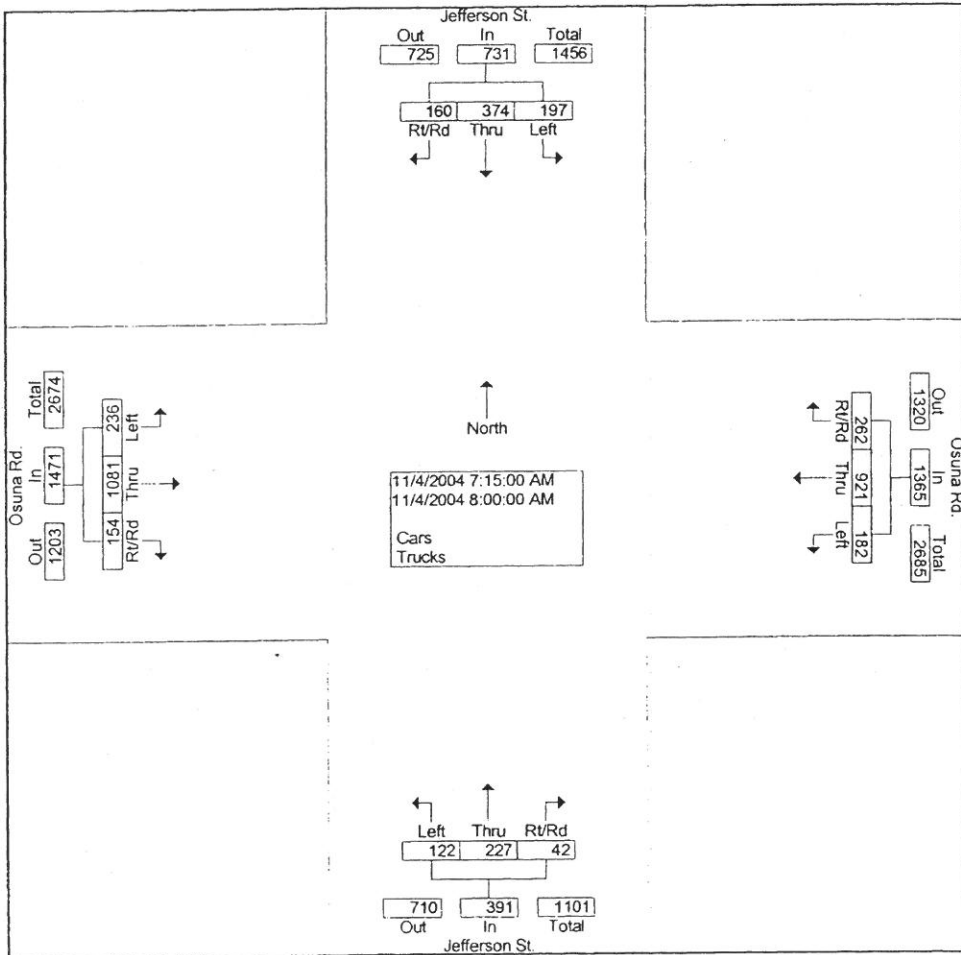
File Name : Osuna Rd. and Jefferson St.
 Site Code : 00025373
 Start Date : 11/04/2004
 Page No : 2



Mid-Region Council of Governments
 Intersection Turning Movement Analysis

File Name : Osuna Rd. and Jefferson St.
 Site Code : 00025373
 Start Date : 11/04/2004
 Page No : 3

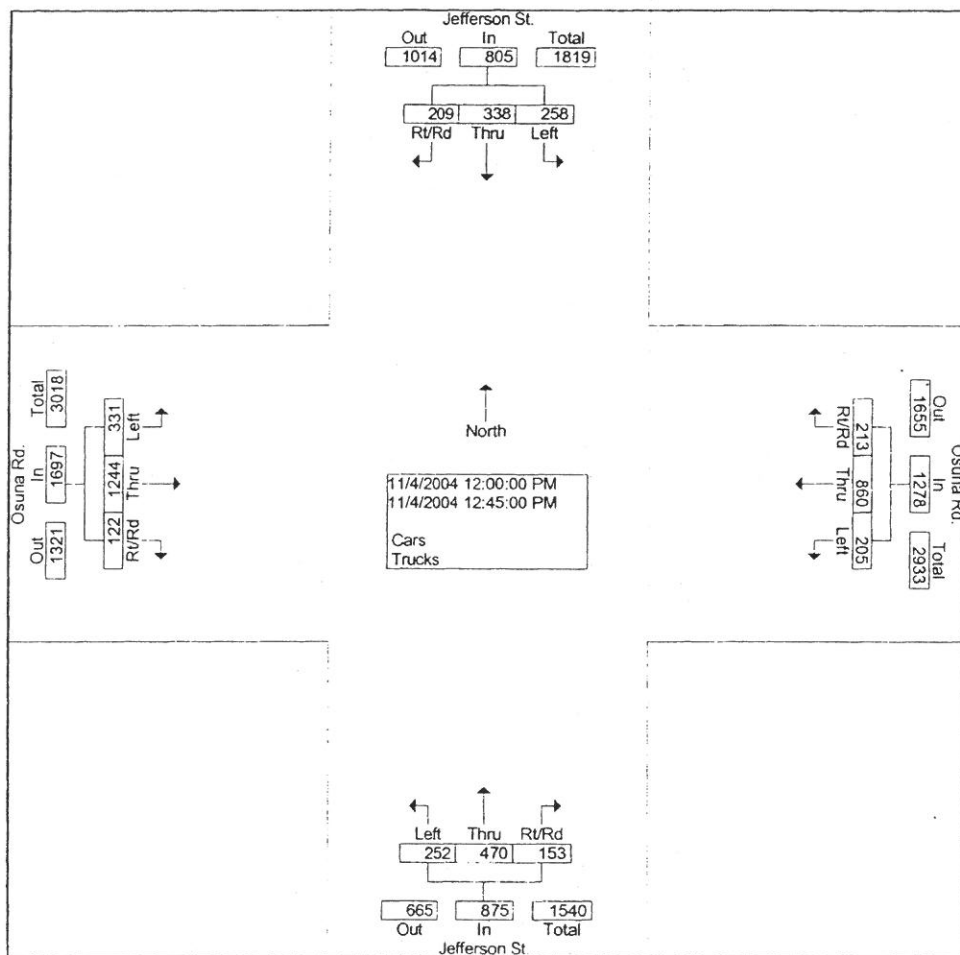
Start Time	Jefferson St. From North					Osuna Rd. From East					Jefferson St. From South					Osuna Rd. From West					Int. Total		
	Left	Thru	Right	Rt/Rd	App. Total	Left	Thru	Right	Rt/Rd	App. Total	Left	Thru	Right	Rt/Rd	App. Total	Left	Thru	Right	Rt/Rd	App. Total			
Peak Hour From 06:45 to 09:30 - Peak 1 of 1																							
Intersection 07:15																							
Volume	197	374	157	3	731	182	921	251	11	1365	122	227	30	12	391	236	1081	147	7	1471	3958		
Percent	26.9	51.2	21.5	0.4		13.3	67.5	18.4	0.8		31.2	58.1	7.7	3.1		16.0	73.5	10.0	0.5		3958		
Volume	197	374	157	3	731	182	921	251	11	1365	122	227	30	12	391	236	1081	147	7	1471	1128		
Volume	58	105	47	1	211	53	264	74	0	391	34	61	9	4	108	91	285	41	1	418	0.877		
Peak Factor																							
High Int. 07:45						07:45						07:45						07:45					
Volume	58	105	47	1	211	53	264	74	0	391	34	61	9	4	108	91	285	41	1	418	0.880		
Peak Factor						0.866						0.873						0.905					



Mid-Region Council of Governments
 Intersection Turning Movement Analysis

File Name : Osuna Rd. and Jefferson St.
 Site Code : 00025373
 Start Date : 11/04/2004
 Page No : 4

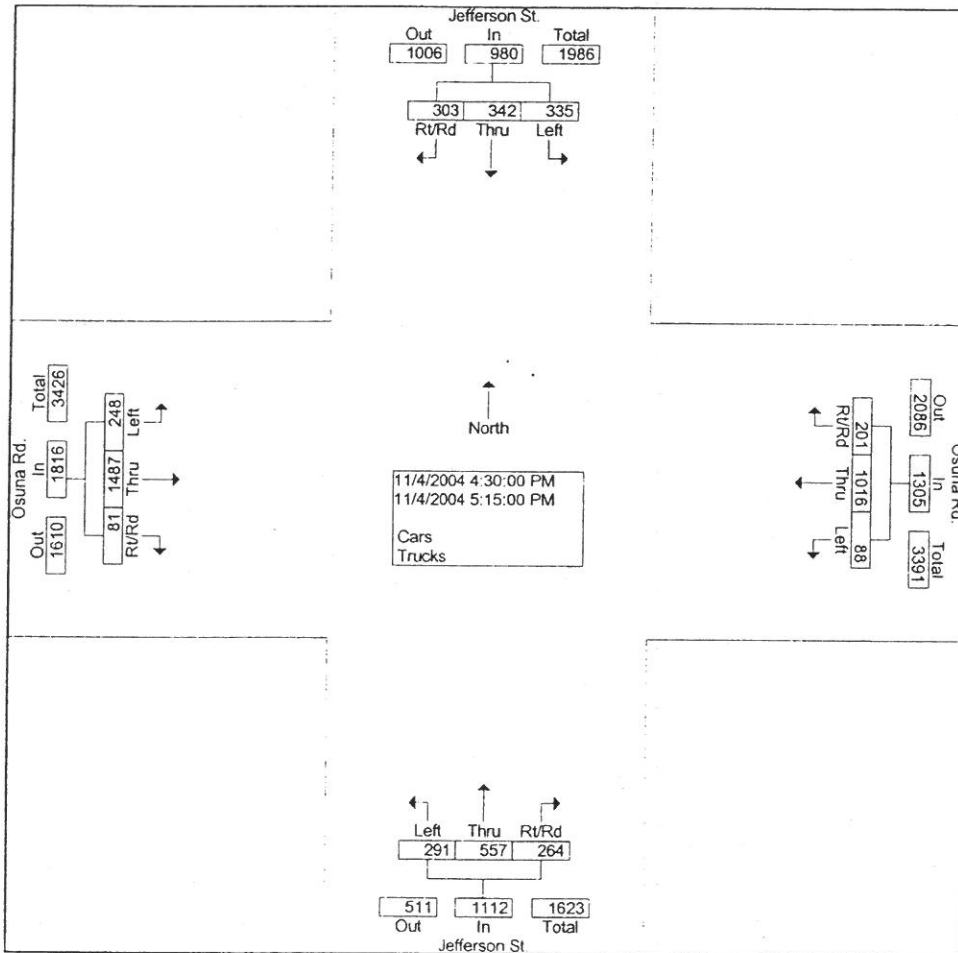
Start Time	Jefferson St. From North					Osuna Rd. From East					Jefferson St. From South					Osuna Rd. From West					Int. Total
	Left	Thru	Right	Rt/Rd	App. Total	Left	Thru	Right	Rt/Rd	App. Total	Left	Thru	Right	Rt/Rd	App. Total	Left	Thru	Right	Rt/Rd	App. Total	
Peak Hour From 11:00 to 13:45 - Peak 1 of 1																					
Intersection 12:00																					
Volume	258	338	206	3	805	205	860	206	7	1278	252	470	126	27	875	331	1244	118	4	1697	4655
Percent	32.0	42.0	25.6	0.4		16.0	67.3	16.1	0.5		28.8	53.7	14.4	3.1		19.5	73.3	7.0	0.2		
Volume	258	338	206	3	805	205	860	206	7	1278	252	470	126	27	875	331	1244	118	4	1697	4655
Volume	66	84	52	0	202	47	225	44	5	321	68	132	47	3	250	85	317	30	0	432	1205
Peak Factor																					
High Int. Volume	12:15					12:45					12:30					12:30					0.966
Volume	67	79	56	2	204	49	223	66	0	338	68	132	47	3	250	85	317	30	0	432	432
Peak Factor					0.987					0.945					0.875					0.982	



Mid-Region Council of Governments
 Intersection Turning Movement Analysis

File Name : Osuna Rd. and Jefferson St.
 Site Code : 00025373
 Start Date : 11/04/2004
 Page No : 5

Start Time	Jefferson St. From North					Osuna Rd. From East					Jefferson St. From South					Osuna Rd. From West					Int. Total			
	Left	Thru	Right	Rt/Rd	App. Total	Left	Thru	Right	Rt/Rd	App. Total	Left	Thru	Right	Rt/Rd	App. Total	Left	Thru	Right	Rt/Rd	App. Total				
Peak Hour From 15:00 to 17:45 - Peak 1 of 1																								
Intersection 16:30																								
Volume	335	342	297	6	980	88	1016	176	25	1305	291	557	219	45	1112	248	1487	80	1	1816	5213			
Percent	34.2	34.9	30.3	0.6		6.7	77.9	13.5	1.9		26.2	50.1	19.7	4.0		13.7	81.9	4.4	0.1					
Volume	335	342	297	6	980	88	1016	176	25	1305	291	557	219	45	1112	248	1487	80	1	1816	5213			
Volume	89	115	104	1	309	29	268	55	6	358	72	142	69	14	297	80	382	13	0	475	1439			
Peak Factor																								
High Int. 17:00																								
Volume	89	115	104	1	309	17:00	29	268	55	6	358	17:15	88	158	52	10	308	16:30	71	399	15	0	485	0.906
Peak Factor	0.793					0.911					0.903					0.936								



Traffic Count Data Sheet

Year Counts Taken: **2006** E-W Street Presidential St Speed Limit (Presidential St)= **25** MPH
 N-S Street: Jefferson St Date of Count: **9/20/06** Speed Limit (Jefferson St)= **35** MPH

Begin Time	End Time	Eastbound (Presidential St)			Westbound (Presidential St)			Northbound (Jefferson St)			Southbound (Jefferson St)		
		L	T	R	L	T	R	L	T	R	L	T	R
7:00 AM	7:15 AM	0	0	0	7	0	4	0	0	0	5	154	0
7:15 AM	7:30 AM	0	0	0	17	0	4	0	0	0	129	192	0
7:30 AM	7:45 AM	0	0	0	16	0	5	0	0	0	153	212	0
7:45 AM	8:00 AM	0	0	0	14	0	0	0	0	0	136	202	0
8:00 AM	8:15 AM	0	0	0	13	0	2	0	0	0	131	189	0
8:15 AM	8:30 AM	0	0	0	17	0	2	0	0	0	98	176	0
8:30 AM	8:45 AM	0	0	0	7	0	2	0	0	0	110	144	0
8:45 AM	9:00 AM	0	0	0	10	0	6	0	0	0	108	120	0
AM Peak Hour Volumes		0	0	0	60	0	11	0	0	0	549	795	0
% of Total Traffic		0.0%	0.0%	0.0%	4.2%	0.0%	0.8%	0.0%	0.0%	0.0%	38.3%	55.4%	0.0%
% Directional		0.0%	0.0%	0.0%	4.9%	0.0%	4.9%	0.0%	0.0%	0.0%	38.9%	56.2%	0.0%
AM Peak Hour Factor		0.85											

Begin Time	End Time	Eastbound (Presidential St)			Westbound (Presidential St)			Northbound (Jefferson St)			Southbound (Jefferson St)		
		L	T	R	L	T	R	L	T	R	L	T	R
4:00 PM	4:15 PM	0	0	0	2	0	4	0	0	0	198	134	0
4:15 PM	4:30 PM	0	0	0	4	0	2	0	0	0	119	86	0
4:30 PM	4:45 PM	0	0	0	6	0	5	0	0	0	155	102	0
4:45 PM	5:00 PM	0	0	0	10	0	10	0	0	0	166	119	0
5:00 PM	5:15 PM	0	0	0	7	0	6	0	0	0	216	146	0
5:15 PM	5:30 PM	0	0	0	8	0	4	0	0	0	185	154	0
5:30 PM	5:45 PM	0	0	0	4	0	1	0	0	0	170	108	0
5:45 PM	6:00 PM	0	0	0	6	0	4	0	0	0	138	91	0
PM Peak Hour Volumes		0	0	0	29	0	21	0	0	0	737	527	0
% of Total Traffic		0.0%	0.0%	0.0%	2.1%	0.0%	1.5%	0.0%	0.0%	0.0%	52.8%	37.8%	0.0%
% Directional		0.0%	0.0%	0.0%	3.6%	0.0%	3.6%	0.0%	0.0%	0.0%	54.3%	42.1%	0.0%
PM Peak Hour Factor		0.63											

Traffic Count Data Sheet

Year Counts Taken: **2006**

E-W Street Jefferson Pl
N-S Street: Jefferson St

Speed Limit (Jefferson Pl)= **25** MPH
Speed Limit (Jefferson St)= **35** MPH
Date of Count: **9/19/06**

Begin Time	End Time	Eastbound (Jefferson Pl)			Westbound (Jefferson Pl)			Northbound (Jefferson St)			Southbound (Jefferson St)		
		L	T	R	L	T	R	L	T	R	L	T	R
7:00 AM	7:15 AM	6	0	2	4	2	0	19	140	0	3	148	19
7:15 AM	7:30 AM	2	0	6	0	0	2	19	151	3	2	162	18
7:30 AM	7:45 AM	4	1	3	0	2	2	15	178	1	3	193	22
7:45 AM	8:00 AM	3	1	2	0	1	1	13	172	4	0	258	24
8:00 AM	8:15 AM	1	0	3	0	1	3	12	160	1	5	153	25
8:15 AM	8:30 AM	4	0	5	0	4	0	9	152	0	5	168	14
8:30 AM	8:45 AM	4	0	3	2	4	4	8	137	2	4	159	7
8:45 AM	9:00 AM	4	0	4	0	4	2	8	138	4	4	155	8
AM Peak Hour Volumes		10	2	14	0	4	8	59	661	9	10	766	89
% of Total Traffic		0.6%	0.1%	0.9%	0.0%	0.2%	0.5%	3.6%	40.5%	0.6%	0.6%	46.9%	5.5%
% Directional			1.6%			0.7%			44.7%			53.0%	
AM Peak Hour Factor		0.81			0.75			0.94			0.77		

Begin Time	End Time	Eastbound (Jefferson Pl)			Westbound (Jefferson Pl)			Northbound (Jefferson St)			Southbound (Jefferson St)		
		L	T	R	L	T	R	L	T	R	L	T	R
4:00 PM	4:15 PM	49	0	25	2	0	4	2	178	3	6	168	11
4:15 PM	4:30 PM	43	0	14	6	4	0	4	161	3	3	190	4
4:30 PM	4:45 PM	44	4	9	2	0	0	4	126	4	2	135	5
4:45 PM	5:00 PM	40	0	7	4	0	0	4	137	4	0	159	4
5:00 PM	5:15 PM	18	0	10	2	0	2	2	194	2	2	218	2
5:15 PM	5:30 PM	11	0	5	1	0	2	2	174	0	2	196	5
5:30 PM	5:45 PM	11	0	8	1	0	1	2	171	1	3	177	1
5:45 PM	6:00 PM	10	0	5	1	0	2	1	191	1	1	165	4
PM Peak Hour Volumes		50	0	28	5	0	7	7	730	4	8	756	12
% of Total Traffic		3.1%	0.0%	1.7%	0.3%	0.0%	0.4%	0.4%	45.4%	0.2%	0.5%	47.0%	0.7%
% Directional			4.9%			0.7%			46.1%			48.3%	
PM Peak Hour Factor		0.70			0.75			0.94			0.87		

Traffic Count Data Sheet

Year Counts Taken: **2006** E-W Street BMW Drive Speed Limit (BMW Drive)= **25** MPH
 N-S Street: West Frontage Rd Speed Limit (West Frontage Rd)= **45** MPH
 Date of Count: **9/15/06**

Begin Time	End Time	Eastbound (BMW Drive)			Westbound (BMW Drive)			Northbound (West Frontage Rd)			Southbound (West Frontage Rd)			
		L	T	R	L	T	R	L	T	R	L	T	R	
7:00 AM	7:15 AM	0	0	0	0	0	0	0	0	0	0	0	36	0
7:15 AM	7:30 AM	0	0	3	0	0	0	0	0	0	0	0	67	6
7:30 AM	7:45 AM	0	0	2	0	0	0	0	0	0	0	0	92	3
7:45 AM	8:00 AM	0	0	4	0	0	0	0	0	0	0	0	122	5
8:00 AM	8:15 AM	0	0	5	0	0	0	0	0	0	0	0	96	2
8:15 AM	8:30 AM	0	0	2	0	0	0	0	0	0	0	0	65	5
8:30 AM	8:45 AM	0	0	4	0	0	0	0	0	0	0	0	40	4
8:45 AM	9:00 AM	0	0	7	0	0	0	0	0	0	0	0	47	11
AM Peak Hour Volumes		0	0	14	0	0	0	0	0	0	0	0	377	16
% of Total Traffic		0.0%	0.0%	3.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	92.6%	3.9%
% Directional			3.4%			0.0%			0.0%				96.6%	
AM Peak Hour Factor		0.70												

Begin Time	End Time	Eastbound (BMW Drive)			Westbound (BMW Drive)			Northbound (West Frontage Rd)			Southbound (West Frontage Rd)			
		L	T	R	L	T	R	L	T	R	L	T	R	
4:00 PM	4:15 PM	0	0	8	0	0	0	0	0	0	0	0	117	4
4:15 PM	4:30 PM	0	0	8	0	0	0	0	0	0	0	0	110	5
4:30 PM	4:45 PM	0	0	14	0	0	0	0	0	0	0	0	50	3
4:45 PM	5:00 PM	0	0	0	0	0	0	0	0	0	0	0	25	0
5:00 PM	5:15 PM	0	0	12	0	0	0	0	0	0	0	0	178	3
5:15 PM	5:30 PM	0	0	19	0	0	0	0	0	0	0	0	137	1
5:30 PM	5:45 PM	0	0	13	0	0	0	0	0	0	0	0	92	0
5:45 PM	6:00 PM	0	0	11	0	0	0	0	0	0	0	0	74	2
PM Peak Hour Volumes		0	0	55	0	0	0	0	0	0	0	0	481	6
% of Total Traffic		0.0%	0.0%	10.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	88.7%	1.1%
% Directional			10.1%			0.0%			0.0%				89.9%	
PM Peak Hour Factor		0.72												

Intersection Data Sheet

Intersection: **Singer Blvd / Jefferson St**

Posted Speed Limit (E-W Street): _____ 35

Date: _____ 10/26/2005

Eastbound Approach: Singer Blvd

Left Turn Lanes	Thru/Left Lanes	Thru Lanes	Thru/Right Lanes	Right Turn Lanes
2	0	0	1	0

Length: 175'

Left Turn Arrow?	Thru Green?	Right Turn Arrow?
Y(only)	Y	Y

Is there a right turn slip lane that by-passes the traffic signal? No

Westbound Approach: Singer Blvd

Left Turn Lanes	Thru/Left Lanes	Thru Lanes	Thru/Right Lanes	Right Turn Lanes
2	0	1	1	0

Length: 165'

Left Turn Arrow?	Thru Green?	Right Turn Arrow?
Y(only)	Y	Y

Is there a right turn slip lane that by-passes the traffic signal? No

Posted Speed Limit (N-S Street): _____ 35

Northbound Approach: Jefferson St

Left Turn Lanes	Thru/Left Lanes	Thru Lanes	Thru/Right Lanes	Right Turn Lanes
1	0	2	0	1

Length: 130'

325'

Left Turn Arrow?	Thru Green?	Right Turn Arrow?
Y	Y	N

Is there a right turn slip lane that by-passes the traffic signal? Yes

Southbound Approach: Jefferson St

Left Turn Lanes	Thru/Left Lanes	Thru Lanes	Thru/Right Lanes	Right Turn Lanes
1	0	1	1	0

Length: 150'

Left Turn Arrow?	Thru Green?	Right Turn Arrow?
Y	Y	N

Is there a right turn slip lane that by-passes the traffic signal? No

Intersection Data Sheet

Intersection: **Jefferson St / I-25 W. ramp**

Posted Speed Limit (E-W Street): _____ 35

Date: _____ 9/19/2006

Eastbound Approach: Jefferson St

Left Turn Lanes	Thru/Left Lanes	Thru Lanes	Thru/Right Lanes	Right Turn Lanes
0	0	1	1	0

Length:

Length:

Left Turn Arrow?	Thru Green?	Right Turn Arrow?
N	Y	N

Is there a right turn slip lane that by-passes the traffic signal?

No

Westbound Approach: Jefferson St

Left Turn Lanes	Thru/Left Lanes	Thru Lanes	Thru/Right Lanes	Right Turn Lanes
1	0	2	0	0

Length: 150 feet

Length:

Left Turn Arrow?	Thru Green?	Right Turn Arrow?
Y	Y	N

Is there a right turn slip lane that by-passes the traffic signal?

No

Posted Speed Limit (N-S Street): _____

Northbound Approach: I-25 W. ramp

Left Turn Lanes	Thru/Left Lanes	Thru Lanes	Thru/Right Lanes	Right Turn Lanes
DOESN'T EXIST				

Length:

Length:

Left Turn Arrow?	Thru Green?	Right Turn Arrow?

Is there a right turn slip lane that by-passes the traffic signal?

No

Southbound Approach: I-25 W. ramp

Left Turn Lanes	Thru/Left Lanes	Thru Lanes	Thru/Right Lanes	Right Turn Lanes
1	0	2	0	1

Length: 600 feet

Length: 350 feet

Left Turn Arrow?	Thru Green?	Right Turn Arrow?
N	Y	N

Is there a right turn slip lane that by-passes the traffic signal?

No

Intersection Data Sheet

Intersection: **Jefferson St / I-25 E. ramp**

Posted Speed Limit (E-W Street): _____ 35

Date: _____ 9/19/2006

Eastbound Approach: Jefferson St

Left Turn Lanes	Thru/Left Lanes	Thru Lanes	Thru/Right Lanes	Right Turn Lanes
1	0	2	0	0

Length: 125 feet

Length:

Left Turn Arrow?	Thru Green?	Right Turn Arrow?
Y	Y	N

Is there a right turn slip lane that by-passes the traffic signal?

No

Westbound Approach: Jefferson St

Left Turn Lanes	Thru/Left Lanes	Thru Lanes	Thru/Right Lanes	Right Turn Lanes
0	0	1	1	0

Length:

Length:

Left Turn Arrow?	Thru Green?	Right Turn Arrow?
N	Y	N

Is there a right turn slip lane that by-passes the traffic signal?

No

Posted Speed Limit (N-S Street): _____ 35

Northbound Approach: I-25 E. ramp

Left Turn Lanes	Thru/Left Lanes	Thru Lanes	Thru/Right Lanes	Right Turn Lanes
1	1	1	0	1

Length: 275 feet

Length: 325 feet

Left Turn Arrow?	Thru Green?	Right Turn Arrow?
N	Y	N

Is there a right turn slip lane that by-passes the traffic signal?

No

Southbound Approach: I-25 E. ramp

Left Turn Lanes	Thru/Left Lanes	Thru Lanes	Thru/Right Lanes	Right Turn Lanes
DOESN'T EXIST				

Length:

Length:

Left Turn Arrow?	Thru Green?	Right Turn Arrow?

Is there a right turn slip lane that by-passes the traffic signal?

Yes/No

Intersection Data Sheet

Intersection: **San Mateo Blvd / I-25 E. ramp**

Posted Speed Limit (E-W Street): 40

Date: 9/19/2006

Eastbound Approach: San Mateo Blvd

Left Turn Lanes	Thru/Left Lanes	Thru Lanes	Thru/Right Lanes	Right Turn Lanes
2	0	3	0	0

Length: 110 feet

Length:

lags

Left Turn Arrow?	Thru Green?	Right Turn Arrow?
Y(only)	Y	N

Is there a right turn slip lane that by-passes the traffic signal?

No

Westbound Approach: San Mateo Blvd

Left Turn Lanes	Thru/Left Lanes	Thru Lanes	Thru/Right Lanes	Right Turn Lanes
0	0	1	1	1

Length:

Length: 400 feet

Left Turn Arrow?	Thru Green?	Right Turn Arrow?
N	Y	N

Is there a right turn slip lane that by-passes the traffic signal?

No

Posted Speed Limit (N-S Street): 35

Northbound Approach: I-25 E. ramp

Left Turn Lanes	Thru/Left Lanes	Thru Lanes	Thru/Right Lanes	Right Turn Lanes
2	0	1	0	1

Length: 240 feet

Length: 40 feet

Left Turn Arrow?	Thru Green?	Right Turn Arrow?
N	Y	N

Is there a right turn slip lane that by-passes the traffic signal?

No

Southbound Approach: I-25 E. ramp

Left Turn Lanes	Thru/Left Lanes	Thru Lanes	Thru/Right Lanes	Right Turn Lanes
DOES NOT EXIST				

Length:

Length:

Left Turn Arrow?	Thru Green?	Right Turn Arrow?

Is there a right turn slip lane that by-passes the traffic signal?

Yes/No

Intersection Data Sheet

Intersection: **Osuna Blvd / I-25 W. ramp**

Posted Speed Limit (E-W Street): 45

Date: 9/19/2006

Eastbound Approach: Osuna Blvd

Left Turn Lanes	Thru/Left Lanes	Thru Lanes	Thru/Right Lanes	Right Turn Lanes
0	0	2	0	1

Length:

Length: 70 feet

Left Turn Arrow?	Thru Green?	Right Turn Arrow?
N	Y	N

Is there a right turn slip lane that by-passes the traffic signal?

No

Westbound Approach: Osuna Blvd

Left Turn Lanes	Thru/Left Lanes	Thru Lanes	Thru/Right Lanes	Right Turn Lanes
2	0	3	0	0

Length: 200 feet

Length:

Left Turn Arrow?	Thru Green?	Right Turn Arrow?
Y(only)	Y	N

Is there a right turn slip lane that by-passes the traffic signal?

No

Posted Speed Limit (N-S Street): 35

Northbound Approach: I-25 W. ramp

Left Turn Lanes	Thru/Left Lanes	Thru Lanes	Thru/Right Lanes	Right Turn Lanes
DOESN'T EXIST				

Length:

Length:

Left Turn Arrow?	Thru Green?	Right Turn Arrow?

Is there a right turn slip lane that by-passes the traffic signal?

Yes/No

Southbound Approach: I-25 W. ramp

Left Turn Lanes	Thru/Left Lanes	Thru Lanes	Thru/Right Lanes	Right Turn Lanes
1	0	2	0	1

Length: 150 feet

Length: 150 feet

Left Turn Arrow?	Thru Green?	Right Turn Arrow?
N	Y	N

Is there a right turn slip lane that by-passes the traffic signal?

No

Intersection Data Sheet

Intersection: **Osuna Blvd / Jefferson St**

Posted Speed Limit (E-W Street): 45

Date: 9/19/2006

Eastbound Approach: Osuna Blvd

Left Turn Lanes	Thru/Left Lanes	Thru Lanes	Thru/Right Lanes	Right Turn Lanes
2	0	2	1	0

Length: 200 feet

Length:

Left Turn Arrow?	Thru Green?	Right Turn Arrow?
Y(only)	Y	Y

Is there a right turn slip lane that by-passes the traffic signal?

No

Westbound Approach: Osuna Blvd

Left Turn Lanes	Thru/Left Lanes	Thru Lanes	Thru/Right Lanes	Right Turn Lanes
2	0	2	0	1

Length: 175 feet

Length: 300 feet

Left Turn Arrow?	Thru Green?	Right Turn Arrow?
Y(only)	Y	Y

Is there a right turn slip lane that by-passes the traffic signal?

No

Posted Speed Limit (N-S Street): 35

Northbound Approach: Jefferson St

Left Turn Lanes	Thru/Left Lanes	Thru Lanes	Thru/Right Lanes	Right Turn Lanes
1	0	2	0	1

Length: 175 feet

Length: 175 feet

Left Turn Arrow?	Thru Green?	Right Turn Arrow?
Y	Y	Y

Is there a right turn slip lane that by-passes the traffic signal?

Yes/No

Southbound Approach: Jefferson St

Left Turn Lanes	Thru/Left Lanes	Thru Lanes	Thru/Right Lanes	Right Turn Lanes
1	0	1	1	0

Length: 200 feet

Length:

Left Turn Arrow?	Thru Green?	Right Turn Arrow?
Y	Y	Y

Is there a right turn slip lane that by-passes the traffic signal?

No

Signalized Intersection Information Sheet

Intersection: Presidential St. / Jefferson St.

Speed Limit - E-W Street: 25 M.P.H.
 Speed Limit - N-S Street: 35 M.P.H.
 Type of Intersection Control: Two-Way Stop

Date: 9/18/2006

East Bound Approach:		Presidential St.			
	Left Turn Lanes	Thru / Lefts	Thru Lanes	Thru / Rights	Right Turn Lanes
Length	0	-	-	-	0
		Left Turn Arrow?	Thru Green	Right Turn Arrow?	
		NO	NO	NO	
Is there a right turn slip laned that by-passes the traffic signal?					<u>NO</u>
West Bound Approach:		Presidential St.			
	Left Turn Lanes	Thru / Lefts	Thru Lanes	Thru / Rights	Right Turn Lanes
Length	0	-	1	-	0
		Left Turn Arrow?	Thru Green	Right Turn Arrow?	
		NO	NO	NO	
Is there a right turn slip laned that by-passes the traffic signal?					<u>NO</u>
North Bound Approach:		Jefferson St.			
	Left Turn Lanes	Thru / Lefts	Thru Lanes	Thru / Rights	Right Turn Lanes
Length	0	-	2	-	1 225 feet
		Left Turn Arrow?	Thru Green	Right Turn Arrow?	
		NO	NO	NO	
Is there a right turn slip laned that by-passes the traffic signal?					<u>NO</u>
South Bound Approach:		Jefferson St.			
	Left Turn Lanes	Thru / Lefts	Thru Lanes	Thru / Rights	Right Turn Lanes
Length	150 feet	-	2	-	0
		Left Turn Arrow?	Thru Green	Right Turn Arrow?	
		NO	NO	NO	
Is there a right turn slip laned that by-passes the traffic signal?					<u>NO</u>
NOTE: Southbound left turn is mostly U turns, no pavement markings. Right turn lane is more a wide shoulder than a lane					

Signalized Intersection Information Sheet

Intersection: Jefferson PI / Jefferson St.

Speed Limit - E-W Street: 25 M.P.H.
 Speed Limit - N-S Street: 35 M.P.H.
 Type of Intersection Control: Two-Way Stop

Date: 9/19/2006

East Bound Approach:		Jefferson PI		
Left Turn Lanes	Thru / Lefts	Thru Lanes	Thru / Rights	Right Turn Lanes
-	-		-	-
0				0
Length		Left Turn Arrow?	Thru Green	Right Turn Arrow?
		NO	NO	NO
Is there a right turn slip laned that by-passes the traffic signal? <u>NO</u>				
West Bound Approach:		Jefferson PI		
Left Turn Lanes	Thru / Lefts	Thru Lanes	Thru / Rights	Right Turn Lanes
-	-		-	-
0				0
Length		Left Turn Arrow?	Thru Green	Right Turn Arrow?
		NO	NO	NO
Is there a right turn slip laned that by-passes the traffic signal? <u>NO</u>				
North Bound Approach:		Jefferson St.		
Left Turn Lanes	Thru / Lefts	Thru Lanes	Thru / Rights	Right Turn Lanes
	-			-
250'				0
Length		Left Turn Arrow?	Thru Green	Right Turn Arrow?
		NO	NO	NO
Is there a right turn slip laned that by-passes the traffic signal? <u>NO</u>				
South Bound Approach:		Jefferson St.		
Left Turn Lanes	Thru / Lefts	Thru Lanes	Thru / Rights	Right Turn Lanes
	-	2	-	
105'				175'
Length		Left Turn Arrow?	Thru Green	Right Turn Arrow?
		NO	NO	NO
Is there a right turn slip laned that by-passes the traffic signal? <u>NO</u>				
NOTE: No pavement markings W/B movement is out of a parking lot				

Signalized Intersection Information Sheet

Intersection: BMW Driveway / West Frontage Rd

Speed Limit - E-W Street: UNKNOWN
 Speed Limit - N-S Street: 45 M.P.H.
 Type of Intersection Control: Two-Way Stop

Date: 9/15/2006

East Bound Approach: BMW Driveway

Left Turn Lanes	Thru / Lefts	Thru Lanes	Thru / Rights	Right Turn Lanes
-	-	-	-	
0				0
Length				
	Left Turn Arrow?	Thru Green	Right Turn Arrow?	
	NO	NO	NO	

Is there a right turn slip laned that by-passes the traffic signal? NO

West Bound Approach: BMW Driveway

Left Turn Lanes	Thru / Lefts	Thru Lanes	Thru / Rights	Right Turn Lanes
-	-	-	-	-
0				0
Length				
	Left Turn Arrow?	Thru Green	Right Turn Arrow?	
	NO	NO	NO	

Is there a right turn slip laned that by-passes the traffic signal? NO

North Bound Approach: West Frontage Rd

Left Turn Lanes	Thru / Lefts	Thru Lanes	Thru / Rights	Right Turn Lanes
-	-	-	-	-
0				0
Length				
	Left Turn Arrow?	Thru Green	Right Turn Arrow?	
	NO	NO	NO	

Is there a right turn slip laned that by-passes the traffic signal? NO

South Bound Approach: West Frontage Rd

Left Turn Lanes	Thru / Lefts	Thru Lanes	Thru / Rights	Right Turn Lanes
-	-			-
0				0
Length				
	Left Turn Arrow?	Thru Green	Right Turn Arrow?	
	NO	NO	NO	

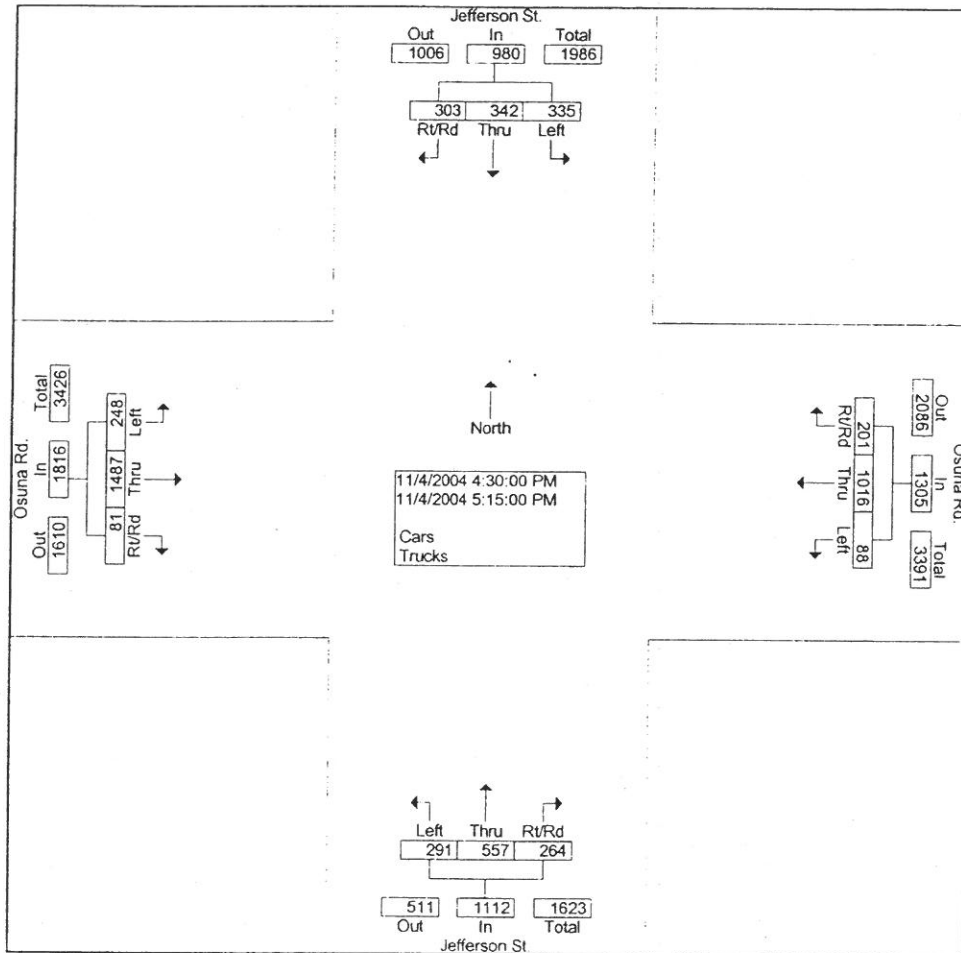
Is there a right turn slip laned that by-passes the traffic signal? NO

NOTE: West Frontage Rd is one way Southbound. There is no westbound access

Mid-Region Council of Governments
 Intersection Turning Movement Analysis

File Name : Osuna Rd. and Jefferson St.
 Site Code : 00025373
 Start Date : 11/04/2004
 Page No : 5

Start Time	Jefferson St. From North					Osuna Rd. From East					Jefferson St. From South					Osuna Rd. From West					Int. Total
	Left	Thru	Right	R/R d	App. Total	Left	Thru	Right	R/R d	App. Total	Left	Thru	Right	R/R d	App. Total	Left	Thru	Right	R/R d	App. Total	
Peak Hour From 15:00 to 17:45 - Peak 1 of 1																					
Intersection 16:30																					
Volume	335	342	297	6	980	88	1016	176	25	1305	291	557	219	45	1112	248	1487	80	1	1816	5213
Percent	34.2	34.9	30.3	0.6		6.7	77.9	13.5	1.9		26.2	50.1	19.7	4.0		13.7	81.9	4.4	0.1		
Volume	335	342	297	6	980	88	1016	176	25	1305	291	557	219	45	1112	248	1487	80	1	1816	5213
Volume	89	115	104	1	309	29	268	55	6	358	72	142	69	14	297	80	382	13	0	475	1439
Peak Factor																					
High Int. 17:00																					
Volume	89	115	104	1	309	29	268	55	6	358	88	158	52	10	308	71	399	15	0	485	0.906
Peak Factor																					
	0.793					0.911					0.903					0.936					



Traffic Count Data Sheet

Year Counts Taken: **2006** E-W Street Presidential St Speed Limit (Presidential St)= **25** MPH
 N-S Street: Jefferson St Date of Count: **9/20/06** Speed Limit (Jefferson St)= **35** MPH

Begin Time	End Time	Eastbound (Presidential St)			Westbound (Presidential St)			Northbound (Jefferson St)			Southbound (Jefferson St)		
		L	T	R	L	T	R	L	T	R	L	T	R
7:00 AM	7:15 AM	0	0	0	7	0	4	0	0	0	5	0	0
7:15 AM	7:30 AM	0	0	0	17	0	4	0	0	0	85	0	154
7:30 AM	7:45 AM	0	0	0	16	0	5	0	0	0	129	2	192
7:45 AM	8:00 AM	0	0	0	14	0	0	0	0	0	153	2	212
8:00 AM	8:15 AM	0	0	0	13	0	2	0	0	0	136	3	202
8:15 AM	8:30 AM	0	0	0	17	0	2	0	0	0	131	2	189
8:30 AM	8:45 AM	0	0	0	7	0	2	0	0	0	98	6	176
8:45 AM	9:00 AM	0	0	0	10	0	6	0	0	0	110	0	144
AM Peak Hour Volumes		0	0	0	60	0	11	0	0	0	549	9	795
% of Total Traffic		0.0%	0.0%	0.0%	4.2%	0.0%	0.8%	0.0%	0.0%	0.0%	38.3%	0.6%	55.4%
% Directional		0.0%	0.0%	0.0%	4.9%	0.0%	4.9%	0.0%	0.0%	0.0%	38.9%	0.6%	56.2%
AM Peak Hour Factor		0.85											

Begin Time	End Time	Eastbound (Presidential St)			Westbound (Presidential St)			Northbound (Jefferson St)			Southbound (Jefferson St)		
		L	T	R	L	T	R	L	T	R	L	T	R
4:00 PM	4:15 PM	0	0	0	2	0	4	0	0	0	198	7	134
4:15 PM	4:30 PM	0	0	0	4	0	2	0	0	0	119	4	86
4:30 PM	4:45 PM	0	0	0	6	0	5	0	0	0	155	3	102
4:45 PM	5:00 PM	0	0	0	10	0	10	0	0	0	166	4	119
5:00 PM	5:15 PM	0	0	0	7	0	6	0	0	0	216	6	146
5:15 PM	5:30 PM	0	0	0	8	0	4	0	0	0	185	6	154
5:30 PM	5:45 PM	0	0	0	4	0	1	0	0	0	170	5	108
5:45 PM	6:00 PM	0	0	0	6	0	4	0	0	0	138	5	91
PM Peak Hour Volumes		0	0	0	29	0	21	0	0	0	737	21	527
% of Total Traffic		0.0%	0.0%	0.0%	2.1%	0.0%	1.5%	0.0%	0.0%	0.0%	52.8%	1.5%	37.8%
% Directional		0.0%	0.0%	0.0%	3.6%	0.0%	3.6%	0.0%	0.0%	0.0%	54.3%	4.2%	42.1%
PM Peak Hour Factor		0.63											

Traffic Count Data Sheet

Year Counts Taken: **2006**

E-W Street Jefferson Pl
N-S Street: Jefferson St

Speed Limit (Jefferson Pl)= **25** MPH
Speed Limit (Jefferson St)= **35** MPH
Date of Count: **9/19/06**

Begin Time	End Time	Eastbound (Jefferson Pl)			Westbound (Jefferson Pl)			Northbound (Jefferson St)			Southbound (Jefferson St)		
		L	T	R	L	T	R	L	T	R	L	T	R
7:00 AM	7:15 AM	6	0	2	4	2	0	19	140	0	3	148	19
7:15 AM	7:30 AM	2	0	6	0	0	2	19	151	3	2	162	18
7:30 AM	7:45 AM	4	1	3	0	2	2	15	178	1	3	193	22
7:45 AM	8:00 AM	3	1	2	0	1	1	13	172	4	0	258	24
8:00 AM	8:15 AM	1	0	3	0	1	3	12	160	1	5	153	25
8:15 AM	8:30 AM	4	0	5	0	4	0	9	152	0	5	168	14
8:30 AM	8:45 AM	4	0	3	2	4	4	8	137	2	4	159	7
8:45 AM	9:00 AM	4	0	4	0	4	2	8	138	4	4	155	8
AM Peak Hour Volumes		10	2	14	0	4	8	59	661	9	10	766	89
% of Total Traffic		0.6%	0.1%	0.9%	0.0%	0.2%	0.5%	3.6%	40.5%	0.6%	0.6%	46.9%	5.5%
% Directional		1.6%				0.7%			44.7%			53.0%	
AM Peak Hour Factor		0.81			0.75			0.94			0.77		

Begin Time	End Time	Eastbound (Jefferson Pl)			Westbound (Jefferson Pl)			Northbound (Jefferson St)			Southbound (Jefferson St)		
		L	T	R	L	T	R	L	T	R	L	T	R
4:00 PM	4:15 PM	49	0	25	2	0	4	2	178	3	6	168	11
4:15 PM	4:30 PM	43	0	14	6	4	0	4	161	3	3	190	4
4:30 PM	4:45 PM	44	4	9	2	0	0	4	126	4	2	135	5
4:45 PM	5:00 PM	40	0	7	4	0	0	4	137	4	0	159	4
5:00 PM	5:15 PM	18	0	10	2	0	2	2	194	2	2	218	2
5:15 PM	5:30 PM	11	0	5	1	0	2	2	174	0	2	196	5
5:30 PM	5:45 PM	11	0	8	1	0	1	2	171	1	3	177	1
5:45 PM	6:00 PM	10	0	5	1	0	2	1	191	1	1	165	4
PM Peak Hour Volumes		50	0	28	5	0	7	7	730	4	8	756	12
% of Total Traffic		3.1%	0.0%	1.7%	0.3%	0.0%	0.4%	0.4%	45.4%	0.2%	0.5%	47.0%	0.7%
% Directional		4.9%				0.7%			46.1%			48.3%	
PM Peak Hour Factor		0.70			0.75			0.94			0.87		

Traffic Count Data Sheet

Year Counts Taken: **2006** E-W Street BMW Drive Speed Limit (BMW Drive)= **25** MPH
 N-S Street: West Frontage Rd Speed Limit (West Frontage Rd)= **45** MPH
 Date of Count: **9/15/06**

Begin Time	End Time	Eastbound (BMW Drive)			Westbound (BMW Drive)			Northbound (West Frontage Rd)			Southbound (West Frontage Rd)			
		L	T	R	L	T	R	L	T	R	L	T	R	
7:00 AM	7:15 AM	0	0	0	0	0	0	0	0	0	0	0	36	0
7:15 AM	7:30 AM	0	0	3	0	0	0	0	0	0	0	0	67	6
7:30 AM	7:45 AM	0	0	2	0	0	0	0	0	0	0	0	92	3
7:45 AM	8:00 AM	0	0	4	0	0	0	0	0	0	0	0	122	5
8:00 AM	8:15 AM	0	0	5	0	0	0	0	0	0	0	0	96	2
8:15 AM	8:30 AM	0	0	2	0	0	0	0	0	0	0	0	65	5
8:30 AM	8:45 AM	0	0	4	0	0	0	0	0	0	0	0	40	4
8:45 AM	9:00 AM	0	0	7	0	0	0	0	0	0	0	0	47	11
AM Peak Hour Volumes		0	0	14	0	0	0	0	0	0	0	0	377	16
% of Total Traffic		0.0%	0.0%	3.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	92.6%	3.9%
% Directional			3.4%										96.6%	
AM Peak Hour Factor		0.70												

Begin Time	End Time	Eastbound (BMW Drive)			Westbound (BMW Drive)			Northbound (West Frontage Rd)			Southbound (West Frontage Rd)			
		L	T	R	L	T	R	L	T	R	L	T	R	
4:00 PM	4:15 PM	0	0	8	0	0	0	0	0	0	0	0	117	4
4:15 PM	4:30 PM	0	0	8	0	0	0	0	0	0	0	0	110	5
4:30 PM	4:45 PM	0	0	14	0	0	0	0	0	0	0	0	50	3
4:45 PM	5:00 PM	0	0	0	0	0	0	0	0	0	0	0	25	0
5:00 PM	5:15 PM	0	0	12	0	0	0	0	0	0	0	0	178	3
5:15 PM	5:30 PM	0	0	19	0	0	0	0	0	0	0	0	137	1
5:30 PM	5:45 PM	0	0	13	0	0	0	0	0	0	0	0	92	0
5:45 PM	6:00 PM	0	0	11	0	0	0	0	0	0	0	0	74	2
PM Peak Hour Volumes		0	0	55	0	0	0	0	0	0	0	0	481	6
% of Total Traffic		0.0%	0.0%	10.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	88.7%	1.1%
% Directional			10.1%										89.9%	
PM Peak Hour Factor		0.72												

Intersection Data Sheet

Intersection: **Singer Blvd / Jefferson St**

Posted Speed Limit (E-W Street): _____ 35

Date: _____ 10/26/2005

Eastbound Approach: **Singer Blvd**

Left Turn Lanes	Thru/Left Lanes	Thru Lanes	Thru/Right Lanes	Right Turn Lanes
2	0	0	1	0

Length: 175'

Left Turn Arrow?	Thru Green?	Right Turn Arrow?
Y(only)	Y	Y

Is there a right turn slip lane that by-passes the traffic signal? No

Westbound Approach: **Singer Blvd**

Left Turn Lanes	Thru/Left Lanes	Thru Lanes	Thru/Right Lanes	Right Turn Lanes
2	0	1	1	0

Length: 165'

Left Turn Arrow?	Thru Green?	Right Turn Arrow?
Y(only)	Y	Y

Is there a right turn slip lane that by-passes the traffic signal? No

Posted Speed Limit (N-S Street): _____ 35

Northbound Approach: **Jefferson St**

Left Turn Lanes	Thru/Left Lanes	Thru Lanes	Thru/Right Lanes	Right Turn Lanes
1	0	2	0	1

Length: 130'

325'

Left Turn Arrow?	Thru Green?	Right Turn Arrow?
Y	Y	N

Is there a right turn slip lane that by-passes the traffic signal? Yes

Southbound Approach: **Jefferson St**

Left Turn Lanes	Thru/Left Lanes	Thru Lanes	Thru/Right Lanes	Right Turn Lanes
1	0	1	1	0

Length: 150'

Left Turn Arrow?	Thru Green?	Right Turn Arrow?
Y	Y	N

Is there a right turn slip lane that by-passes the traffic signal? No

Intersection Data Sheet

Intersection: **Jefferson St / I-25 W. ramp**

Posted Speed Limit (E-W Street): _____ 35

Date: _____ 9/19/2006

Eastbound Approach: Jefferson St

Left Turn Lanes	Thru/Left Lanes	Thru Lanes	Thru/Right Lanes	Right Turn Lanes
0	0	1	1	0

Length:

Length:

Left Turn Arrow?	Thru Green?	Right Turn Arrow?
N	Y	N

Is there a right turn slip lane that by-passes the traffic signal?

No

Westbound Approach: Jefferson St

Left Turn Lanes	Thru/Left Lanes	Thru Lanes	Thru/Right Lanes	Right Turn Lanes
1	0	2	0	0

Length: 150 feet

Length:

Left Turn Arrow?	Thru Green?	Right Turn Arrow?
Y	Y	N

Is there a right turn slip lane that by-passes the traffic signal?

No

Posted Speed Limit (N-S Street): _____

Northbound Approach: I-25 W. ramp

Left Turn Lanes	Thru/Left Lanes	Thru Lanes	Thru/Right Lanes	Right Turn Lanes
DOESN'T EXIST				

Length:

Length:

Left Turn Arrow?	Thru Green?	Right Turn Arrow?

Is there a right turn slip lane that by-passes the traffic signal?

No

Southbound Approach: I-25 W. ramp

Left Turn Lanes	Thru/Left Lanes	Thru Lanes	Thru/Right Lanes	Right Turn Lanes
1	0	2	0	1

Length: 600 feet

Length: 350 feet

Left Turn Arrow?	Thru Green?	Right Turn Arrow?
N	Y	N

Is there a right turn slip lane that by-passes the traffic signal?

No

Intersection Data Sheet

Intersection: **Jefferson St / I-25 E. ramp**

Posted Speed Limit (E-W Street): _____ 35

Date: _____ 9/19/2006

Eastbound Approach: Jefferson St

Left Turn Lanes	Thru/Left Lanes	Thru Lanes	Thru/Right Lanes	Right Turn Lanes
1	0	2	0	0

Length: 125 feet

Length:

Left Turn Arrow?	Thru Green?	Right Turn Arrow?
Y	Y	N

Is there a right turn slip lane that by-passes the traffic signal?

No

Westbound Approach: Jefferson St

Left Turn Lanes	Thru/Left Lanes	Thru Lanes	Thru/Right Lanes	Right Turn Lanes
0	0	1	1	0

Length:

Length:

Left Turn Arrow?	Thru Green?	Right Turn Arrow?
N	Y	N

Is there a right turn slip lane that by-passes the traffic signal?

No

Posted Speed Limit (N-S Street): _____ 35

Northbound Approach: I-25 E. ramp

Left Turn Lanes	Thru/Left Lanes	Thru Lanes	Thru/Right Lanes	Right Turn Lanes
1	1	1	0	1

Length: 275 feet

Length: 325 feet

Left Turn Arrow?	Thru Green?	Right Turn Arrow?
N	Y	N

Is there a right turn slip lane that by-passes the traffic signal?

No

Southbound Approach: I-25 E. ramp

Left Turn Lanes	Thru/Left Lanes	Thru Lanes	Thru/Right Lanes	Right Turn Lanes
DOESN'T EXIST				

Length:

Length:

Left Turn Arrow?	Thru Green?	Right Turn Arrow?

Is there a right turn slip lane that by-passes the traffic signal?

Yes/No

Intersection Data Sheet

Intersection: **San Mateo Blvd / I-25 E. ramp**

Posted Speed Limit (E-W Street): _____ 40

Date: _____ 9/19/2006

Eastbound Approach: San Mateo Blvd

Left Turn Lanes	Thru/Left Lanes	Thru Lanes	Thru/Right Lanes	Right Turn Lanes
2	0	3	0	0

Length: 110 feet

Length:

lags

Left Turn Arrow?	Thru Green?	Right Turn Arrow?
Y(only)	Y	N

Is there a right turn slip lane that by-passes the traffic signal?

No

Westbound Approach: San Mateo Blvd

Left Turn Lanes	Thru/Left Lanes	Thru Lanes	Thru/Right Lanes	Right Turn Lanes
0	0	1	1	1

Length:

Length: 400 feet

Left Turn Arrow?	Thru Green?	Right Turn Arrow?
N	Y	N

Is there a right turn slip lane that by-passes the traffic signal?

No

Posted Speed Limit (N-S Street): _____ 35

Northbound Approach: I-25 E. ramp

Left Turn Lanes	Thru/Left Lanes	Thru Lanes	Thru/Right Lanes	Right Turn Lanes
2	0	1	0	1

Length: 240 feet

Length: 40 feet

Left Turn Arrow?	Thru Green?	Right Turn Arrow?
N	Y	N

Is there a right turn slip lane that by-passes the traffic signal?

No

Southbound Approach: I-25 E. ramp

Left Turn Lanes	Thru/Left Lanes	Thru Lanes	Thru/Right Lanes	Right Turn Lanes
DOES NOT EXIST				

Length:

Length:

Left Turn Arrow?	Thru Green?	Right Turn Arrow?

Is there a right turn slip lane that by-passes the traffic signal?

Yes/No

Intersection Data Sheet

Intersection: **Osuna Blvd / I-25 W. ramp**

Posted Speed Limit (E-W Street): 45

Date: 9/19/2006

Eastbound Approach: Osuna Blvd

Left Turn Lanes	Thru/Left Lanes	Thru Lanes	Thru/Right Lanes	Right Turn Lanes
0	0	2	0	1

Length:

Length: 70 feet

Left Turn Arrow?	Thru Green?	Right Turn Arrow?
N	Y	N

Is there a right turn slip lane that by-passes the traffic signal?

No

Westbound Approach: Osuna Blvd

Left Turn Lanes	Thru/Left Lanes	Thru Lanes	Thru/Right Lanes	Right Turn Lanes
2	0	3	0	0

Length: 200 feet

Length:

Left Turn Arrow?	Thru Green?	Right Turn Arrow?
Y(only)	Y	N

Is there a right turn slip lane that by-passes the traffic signal?

No

Posted Speed Limit (N-S Street): 35

Northbound Approach: I-25 W. ramp

Left Turn Lanes	Thru/Left Lanes	Thru Lanes	Thru/Right Lanes	Right Turn Lanes
DOESN'T EXIST				

Length:

Length:

Left Turn Arrow?	Thru Green?	Right Turn Arrow?

Is there a right turn slip lane that by-passes the traffic signal?

Yes/No

Southbound Approach: I-25 W. ramp

Left Turn Lanes	Thru/Left Lanes	Thru Lanes	Thru/Right Lanes	Right Turn Lanes
1	0	2	0	1

Length: 150 feet

Length: 150 feet

Left Turn Arrow?	Thru Green?	Right Turn Arrow?
N	Y	N

Is there a right turn slip lane that by-passes the traffic signal?

No

Intersection Data Sheet

Intersection: **Osuna Blvd / Jefferson St**

Posted Speed Limit (E-W Street): 45

Date: 9/19/2006

Eastbound Approach: Osuna Blvd

Left Turn Lanes	Thru/Left Lanes	Thru Lanes	Thru/Right Lanes	Right Turn Lanes
2	0	2	1	0

Length: 200 feet

Length:

Left Turn Arrow?	Thru Green?	Right Turn Arrow?
Y(only)	Y	Y

Is there a right turn slip lane that by-passes the traffic signal?

No

Westbound Approach: Osuna Blvd

Left Turn Lanes	Thru/Left Lanes	Thru Lanes	Thru/Right Lanes	Right Turn Lanes
2	0	2	0	1

Length: 175 feet

Length: 300 feet

Left Turn Arrow?	Thru Green?	Right Turn Arrow?
Y(only)	Y	Y

Is there a right turn slip lane that by-passes the traffic signal?

No

Posted Speed Limit (N-S Street): 35

Northbound Approach: Jefferson St

Left Turn Lanes	Thru/Left Lanes	Thru Lanes	Thru/Right Lanes	Right Turn Lanes
1	0	2	0	1

Length: 175 feet

Length: 175 feet

Left Turn Arrow?	Thru Green?	Right Turn Arrow?
Y	Y	Y

Is there a right turn slip lane that by-passes the traffic signal?

Yes/No

Southbound Approach: Jefferson St

Left Turn Lanes	Thru/Left Lanes	Thru Lanes	Thru/Right Lanes	Right Turn Lanes
1	0	1	1	0

Length: 200 feet

Length:

Left Turn Arrow?	Thru Green?	Right Turn Arrow?
Y	Y	Y

Is there a right turn slip lane that by-passes the traffic signal?

No

Signalized Intersection Information Sheet

Intersection: Presidential St. / Jefferson St.

Speed Limit - E-W Street: 25 M.P.H.
 Speed Limit - N-S Street: 35 M.P.H.
 Type of Intersection Control: Two-Way Stop

Date: 9/18/2006

East Bound Approach:		Presidential St.		
Left Turn Lanes	Thru / Lefts	Thru Lanes	Thru / Rights	Right Turn Lanes
-	-	-	-	-
0				0
Length				
	Left Turn Arrow?	Thru Green	Right Turn Arrow?	
	NO	NO	NO	
Is there a right turn slip laned that by-passes the traffic signal?				<u>NO</u>

West Bound Approach:		Presidential St.		
Left Turn Lanes	Thru / Lefts	Thru Lanes	Thru / Rights	Right Turn Lanes
-	-	1	-	-
0				0
Length				
	Left Turn Arrow?	Thru Green	Right Turn Arrow?	
	NO	NO	NO	
Is there a right turn slip laned that by-passes the traffic signal?				<u>NO</u>

North Bound Approach:		Jefferson St.		
Left Turn Lanes	Thru / Lefts	Thru Lanes	Thru / Rights	Right Turn Lanes
-	-	2	-	1
0				225 feet
Length				
	Left Turn Arrow?	Thru Green	Right Turn Arrow?	
	NO	NO	NO	
Is there a right turn slip laned that by-passes the traffic signal?				<u>NO</u>

South Bound Approach:		Jefferson St.		
Left Turn Lanes	Thru / Lefts	Thru Lanes	Thru / Rights	Right Turn Lanes
1	-	2	-	-
150 feet				0
Length				
	Left Turn Arrow?	Thru Green	Right Turn Arrow?	
	NO	NO	NO	
Is there a right turn slip laned that by-passes the traffic signal?				<u>NO</u>

NOTE: Southbound left turn is mostly U turns, no pavement markings. Right turn lane is more a wide shoulder than a lane

Signalized Intersection Information Sheet

Intersection: Jefferson PI / Jefferson St.

Speed Limit - E-W Street: 25 M.P.H.
 Speed Limit - N-S Street: 35 M.P.H.
 Type of Intersection Control: Two-Way Stop

Date: 9/19/2006

East Bound Approach:		Jefferson PI		
Left Turn Lanes	Thru / Lefts	Thru Lanes	Thru / Rights	Right Turn Lanes
-	-		-	-
0				0
		Left Turn Arrow?	Thru Green	Right Turn Arrow?
		NO	NO	NO
Is there a right turn slip laned that by-passes the traffic signal? <u>NO</u>				
West Bound Approach:		Jefferson PI		
Left Turn Lanes	Thru / Lefts	Thru Lanes	Thru / Rights	Right Turn Lanes
-	-		-	-
0				0
		Left Turn Arrow?	Thru Green	Right Turn Arrow?
		NO	NO	NO
Is there a right turn slip laned that by-passes the traffic signal? <u>NO</u>				
North Bound Approach:		Jefferson St.		
Left Turn Lanes	Thru / Lefts	Thru Lanes	Thru / Rights	Right Turn Lanes
	-			-
250'				0
		Left Turn Arrow?	Thru Green	Right Turn Arrow?
		NO	NO	NO
Is there a right turn slip laned that by-passes the traffic signal? <u>NO</u>				
South Bound Approach:		Jefferson St.		
Left Turn Lanes	Thru / Lefts	Thru Lanes	Thru / Rights	Right Turn Lanes
	-	2	-	
105'				175'
		Left Turn Arrow?	Thru Green	Right Turn Arrow?
		NO	NO	NO
Is there a right turn slip laned that by-passes the traffic signal? <u>NO</u>				
NOTE: No pavement markings W/B movement is out of a parking lot				

Signalized Intersection Information Sheet

Intersection: BMW Driveway / West Frontage Rd

Speed Limit - E-W Street: UNKNOWN
 Speed Limit - N-S Street: 45 M.P.H.
 Type of Intersection Control: Two-Way Stop

Date: 9/15/2006

East Bound Approach: BMW Driveway

Left Turn Lanes	Thru / Lefts	Thru Lanes	Thru / Rights	Right Turn Lanes
-	-	-	-	
0				0
Length				
	Left Turn Arrow?	Thru Green	Right Turn Arrow?	
	NO	NO	NO	

Is there a right turn slip laned that by-passes the traffic signal? NO

West Bound Approach: BMW Driveway

Left Turn Lanes	Thru / Lefts	Thru Lanes	Thru / Rights	Right Turn Lanes
-	-	-	-	-
0				0
Length				
	Left Turn Arrow?	Thru Green	Right Turn Arrow?	
	NO	NO	NO	

Is there a right turn slip laned that by-passes the traffic signal? NO

North Bound Approach: West Frontage Rd

Left Turn Lanes	Thru / Lefts	Thru Lanes	Thru / Rights	Right Turn Lanes
-	-	-	-	-
0				0
Length				
	Left Turn Arrow?	Thru Green	Right Turn Arrow?	
	NO	NO	NO	

Is there a right turn slip laned that by-passes the traffic signal? NO

South Bound Approach: West Frontage Rd

Left Turn Lanes	Thru / Lefts	Thru Lanes	Thru / Rights	Right Turn Lanes
-	-			-
0				0
Length				
	Left Turn Arrow?	Thru Green	Right Turn Arrow?	
	NO	NO	NO	

Is there a right turn slip laned that by-passes the traffic signal? NO

NOTE: West Frontage Rd is one way Southbound. There is no westbound access