

Memorandum

To: **Ms. Dee McKown**
Coachella Valley Engineers
77-899 Wolf Road, Suite 102
Palm Desert, California 92211
Telephone: (760) 360-4200
Fax: (760) 360-4204

From: **George Dunn, P.E.**

George
Dunn, P.E.

Digitally signed by George Dunn, P.E.
DN: cn=George Dunn, P.E., o=George
Dunn Engineering, ou,
email=georgedunn@earthlink.net,
c=US
Date: 2010.11.17 09:31:37 -0800

Date: **November 17, 2010**

Re: **Tract No. 36279, La Quinta, California**
Traffic Assessment

PA10001

INTRODUCTION

This memorandum is intended to satisfy the City of La Quinta traffic assessment requirements specified by the City traffic engineer for the subdivision of Tract 36279 into lots suitable for the construction of 11 single-family homes.

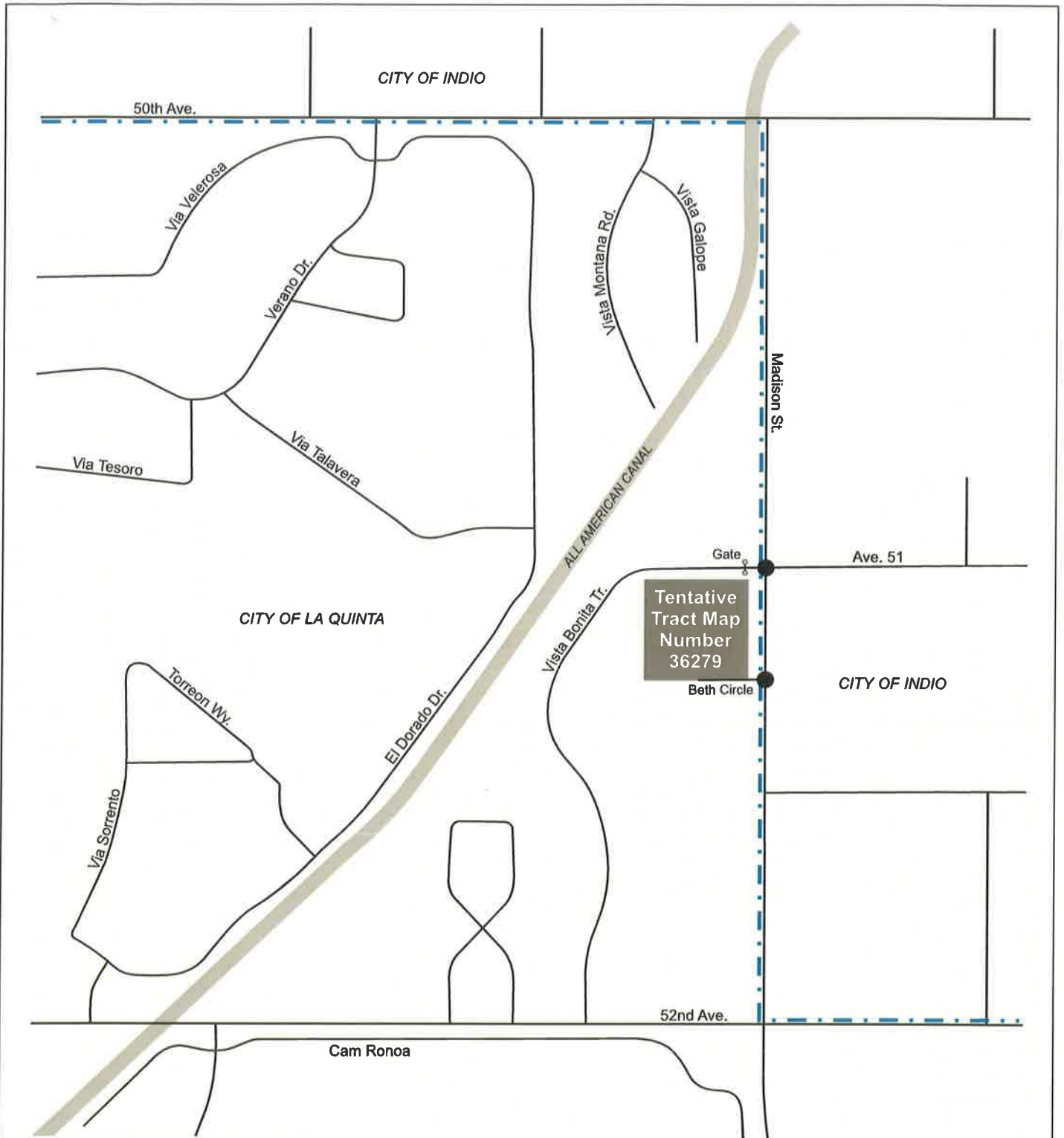
This memorandum was prepared in compliance with the City of La Quinta's Engineering Bulletin #60-13. Based on that bulletin, the City requires a traffic impact study for all new development projects that are forecast to generate 50 or more peak hour trips. For projects, such as the Tract 36279 project, that are forecast to generate less than 50 peak hour trips, a focused traffic impact is required. This memorandum is a focused traffic impact memorandum that follows the City guidelines.

This traffic study assesses project impacts at the project entrance, the Madison Street/Beth Circle intersection and the Madison Street/Vista Bonita Trail/Avenue 51 intersection located just north of the project site.

PROJECT DESCRIPTION

The proposed project site is located near the southwest corner of the Madison Street/Avenue 51/Vista Bonita Trail intersection. The project site is currently vacant but is divided by existing walls to provide for 8 lots. A street, named Beth Circle (a private street), has been constructed to provide for access from Madison Street to these 8 lots. For purposes of this analysis, it is assumed that the project construction will be completed no later than the Year 2014.

Figure 1 shows the project location. Figure 2 shows the project site plan.



Tentative
Tract Map
Number
36279

LEGEND

- Project Location
- Study Intersection



IN THE CITY OF LA QUINTA, COUNTY OF RIVERSIDE

TENTATIVE TRACT MAP NO. 36279

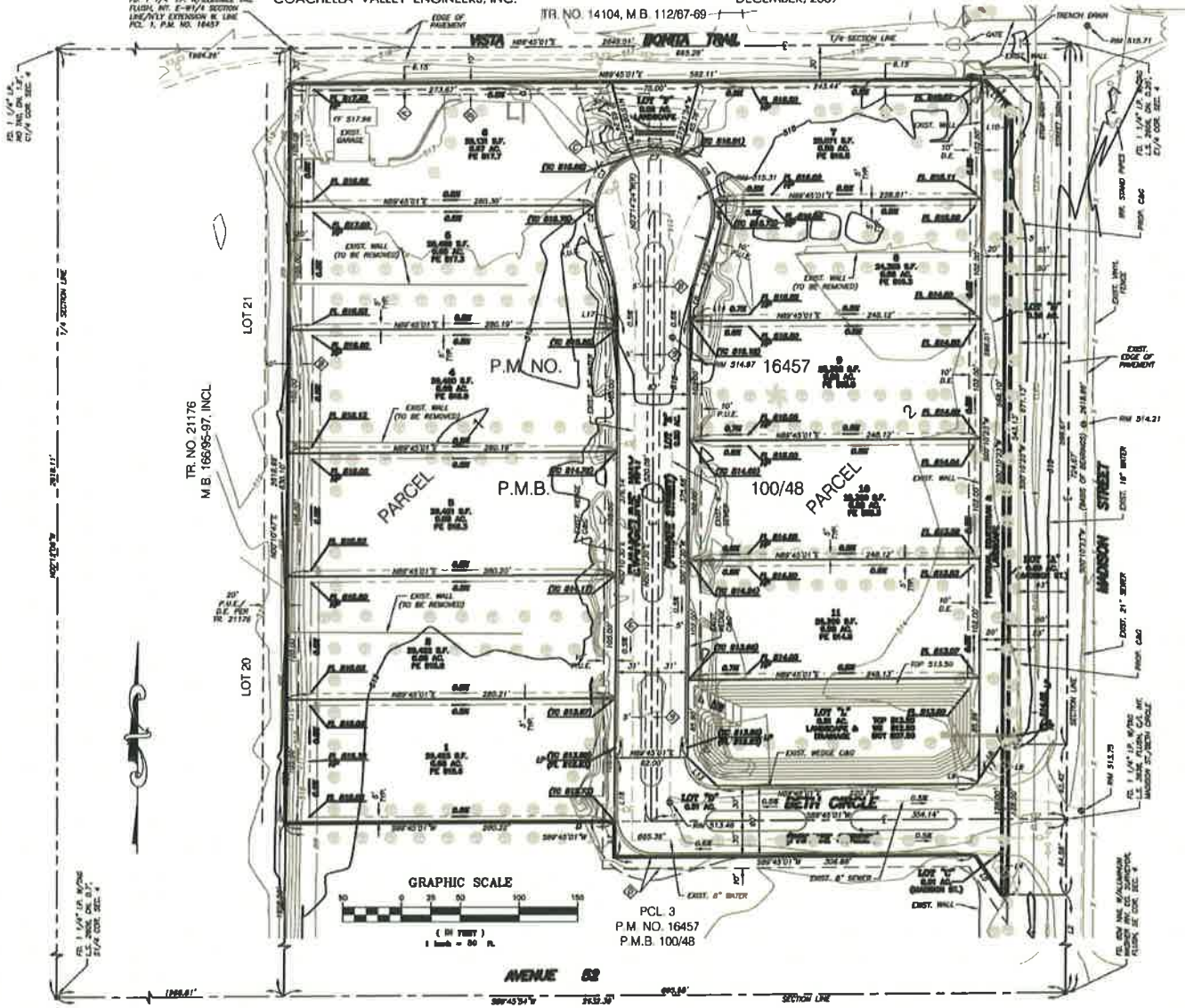
A SUBDIVISION OF PARCELS 1, 2, LOT "C", LOT "D", A PORTION OF LOT "B" & A PORTION OF PARCEL 3, OF PARCEL MAP NO. 16457, FILED IN P.M.B. 100, PAGE 48, AND BEING A PORTION OF THE NORTHEAST QUARTER OF THE SOUTHEAST QUARTER (NE1/4 SE1/4) OF SECTION 4, TOWNSHIP 6 SOUTH, RANGE 7 EAST OF THE SAN BERNARDINO MERIDIAN, COUNTY OF RIVERSIDE, STATE OF CALIFORNIA.

FD. 1 1/4" 1/4" W/ALLUMINUM
PLANS, INT. E-W 1/4 SECTION
LINEARLY EXTENSION & LINE
PCL. 3, P.M. NO. 16457

COACHELLA VALLEY ENGINEERS, INC.

DECEMBER, 2009

TR. NO. 14104, M.B. 112/67-69



ADJACENT ROADWAYS

Madison Street is a two-lane north-south roadway adjacent to the project site. The roadway is 24-feet wide and has a posted speed limit of 50 MPH.

Project access will be provided to the project site at the Madison Street/Beth Circle intersection. The street name "Beth Circle" is provided on the project site plan. Photographs 1, 2, 3 and 4 show this study intersection.



Picture 1 - Looking north along the west side of Madison Street from the project entrance



Picture 2 - Looking south along the west side of Madison Street from the project entrance



Picture 3 - Looking east from the southwest corner of the Madison Street/Project Entrance intersection



Picture 4 - Looking west from the northeast corner of the Madison Street/Project Entrance intersection

The Madison Street/Vista Bonita Trail/Avenue 51 intersection is located approximately 650 feet north of the project site. Traffic count data collected at this intersection serve as the basis for the traffic analysis provided in this memorandum. The street segment located west of Madison Street at this intersection is a private street designated "Vista Bonita Trail", which serves a very small gated residential community. The street segment located east of Madison Street is designated "Avenue 51", which serves as an entrance to the El Dorado Polo Club. Avenue 51 is only 20 feet wide while the Vista Bonita Trail roadway/driveway is 40 feet wide at Madison Street. Vehicles on Vista Bonita Trail and Avenue 51 must stop before turning onto Madison Street.

Photographs 5, 6, 7 and 8 show this intersection.



Picture 5 - Looking south from the northeast corner of the Madison Street/Avenue 51/Vista Bonita Trail intersection



Picture 6 - Looking south from the northwest corner of the Madison Street/Avenue 51/Vista Bonita Trail intersection



Picture 7 - Looking east from the southwest corner of the Madison Street/Avenue 51/Vista Bonita Trail intersection



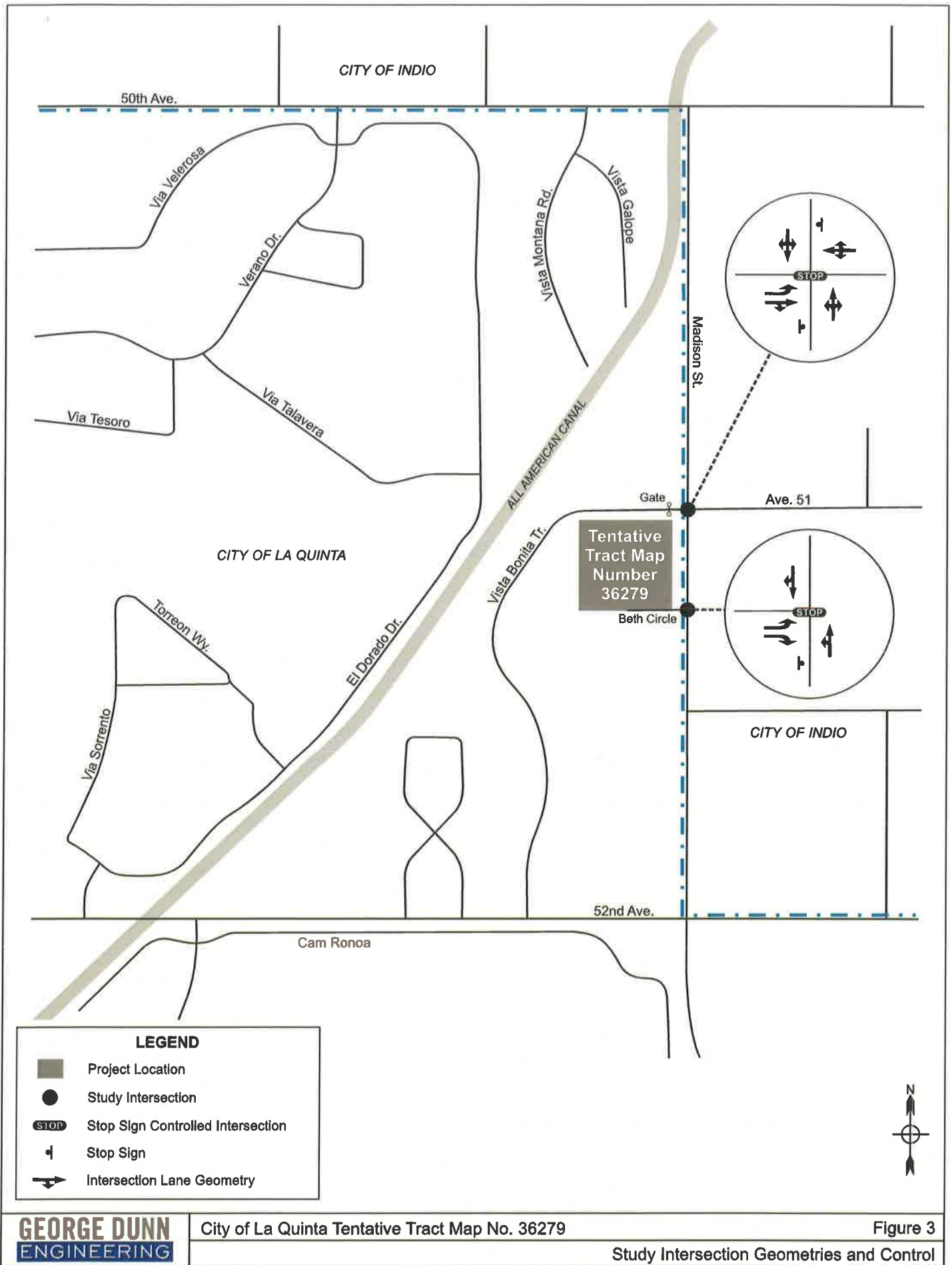
Picture 8 - Looking west from the northeast corner of the Madison Street/Avenue 51/Vista Bonita Trail intersection

The first significant intersection north of the project site is the Madison Street/Avenue 50 intersection. This intersection provides one lane in each direction and also has striped left-turn lanes in each direction. The intersection is controlled by stop signs in all directions.

Figure 3 shows the roadway geometries at the two study intersections along Madison Street, at the proposed project access site and at Vista Bonita Trail/Avenue 51.

The first significant intersection south of the project site is the Madison Street/Avenue 52 intersection. This intersection also is controlled by stop signs in all directions and is striped as follows:

- North Leg – one lane in each direction
- South Leg - Northbound: one left-turn lane, two through lanes and one right-turn lane
Southbound: two lanes
- East Leg - Westbound: one left-turn lane, one through lane and one right-turn lane
Eastbound: two lanes
- West Leg - Eastbound: one left-turn lane, one through lane and one shared through/right-turn lane
Westbound: one lane



TRAFFIC COUNTS

Traffic count data to be used in the traffic analysis was collected on Tuesday, November 2, 2010 at the Madison Street/Avenue 51/Vista Bonita Trail intersection:

AM Peak Period – 6:00 AM to 8:30 AM

PM Peak Period – 2:30 PM to 5:30 PM

The AM and PM peak hour volumes are provided on Figures 4 and 5. The volumes shown on these and all other figures increase the traffic count results by 5% to account for tourist seasonality whereby peak traffic volumes generally occur between January and April. The 5% increase was coded into the TRAFFIX software model runs and ALSO was applied to the project-generated trips.

TRAFFIC ANALYSIS STUDY SCENARIOS

The City traffic study guidelines require the analysis of the following scenarios:

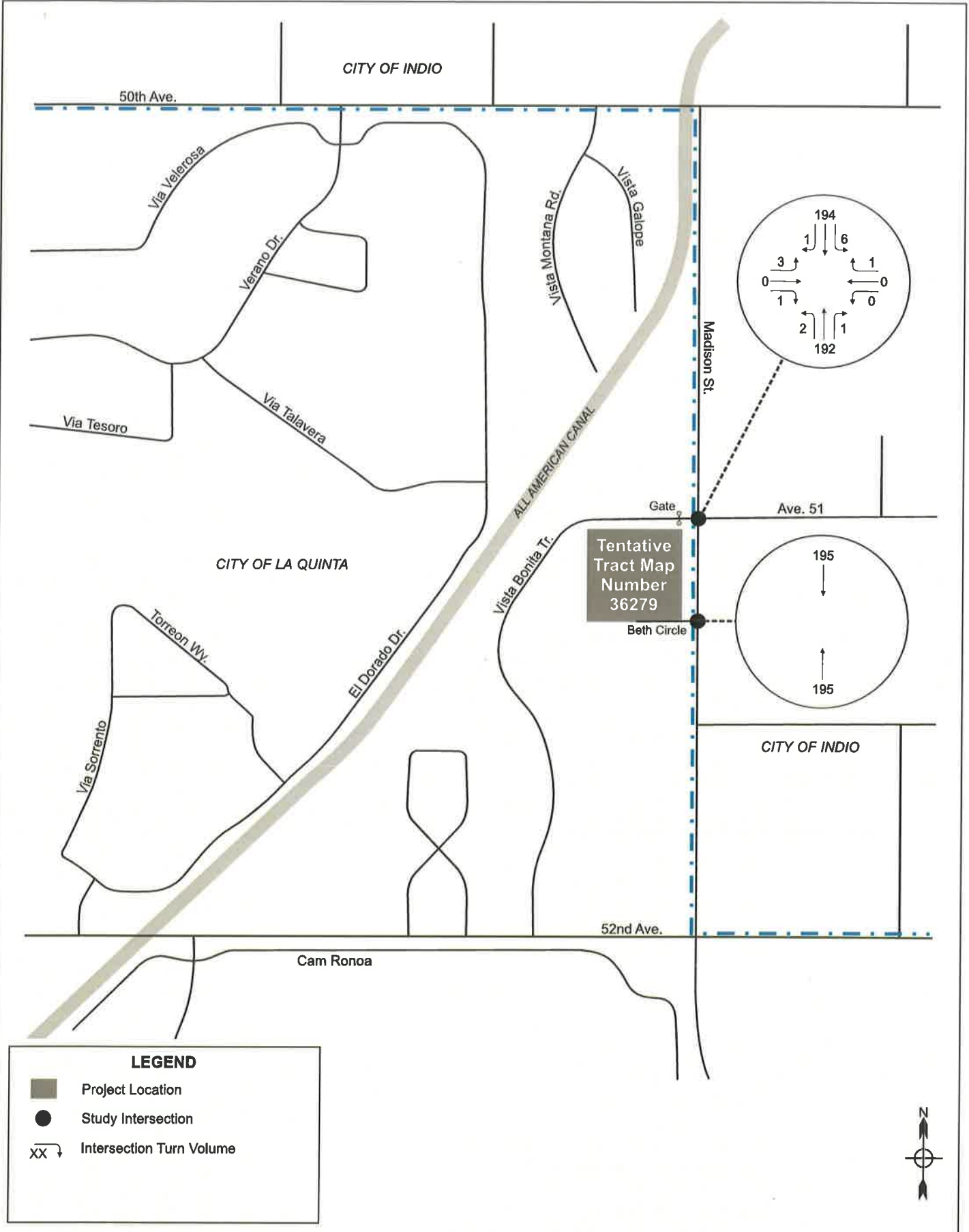
- Existing (Year 2010) Conditions
- Future Year 2014 Conditions with the Project Only
- Future Year 2014 Conditions with the Addition of Project Traffic and Ambient Traffic Growth

Again, the Year 2014 was selected for analysis since the project is scheduled to be completed no later than the Year 2014 and using a longer time frame means using a higher ambient growth rate and provides a conservative analysis.

PROJECT TRIP GENERATION FORECAST

In accordance with the City's traffic study requirements (Engineering Bulletin #06-13 – Revised August 17, 2010), the project trip rates in the traffic analysis will be based on the ITE Trip Generation, 8th Edition publication. For single-family homes, the City of La Quinta guidelines require that trip generation rates be based on the Peak Hour of the Generator, rather than the Peak Hour of the Adjacent Street traffic.

Engineering Bulletin #06-13 indicates that the usage of a fitted curve equation if the coefficient of determination (R^2) of the identified land use is greater than 0.70. Based on the ITE Manual, the R^2 of Single Family Residential for both the AM and PM peak hours are greater than 0.70. As a result the fitted-curve equation should be utilized to calculate the trip generation since the R^2 is greater than 0.70. Table 1 provides the proposed project trip rates along with the calculated project trip generation using those rates.



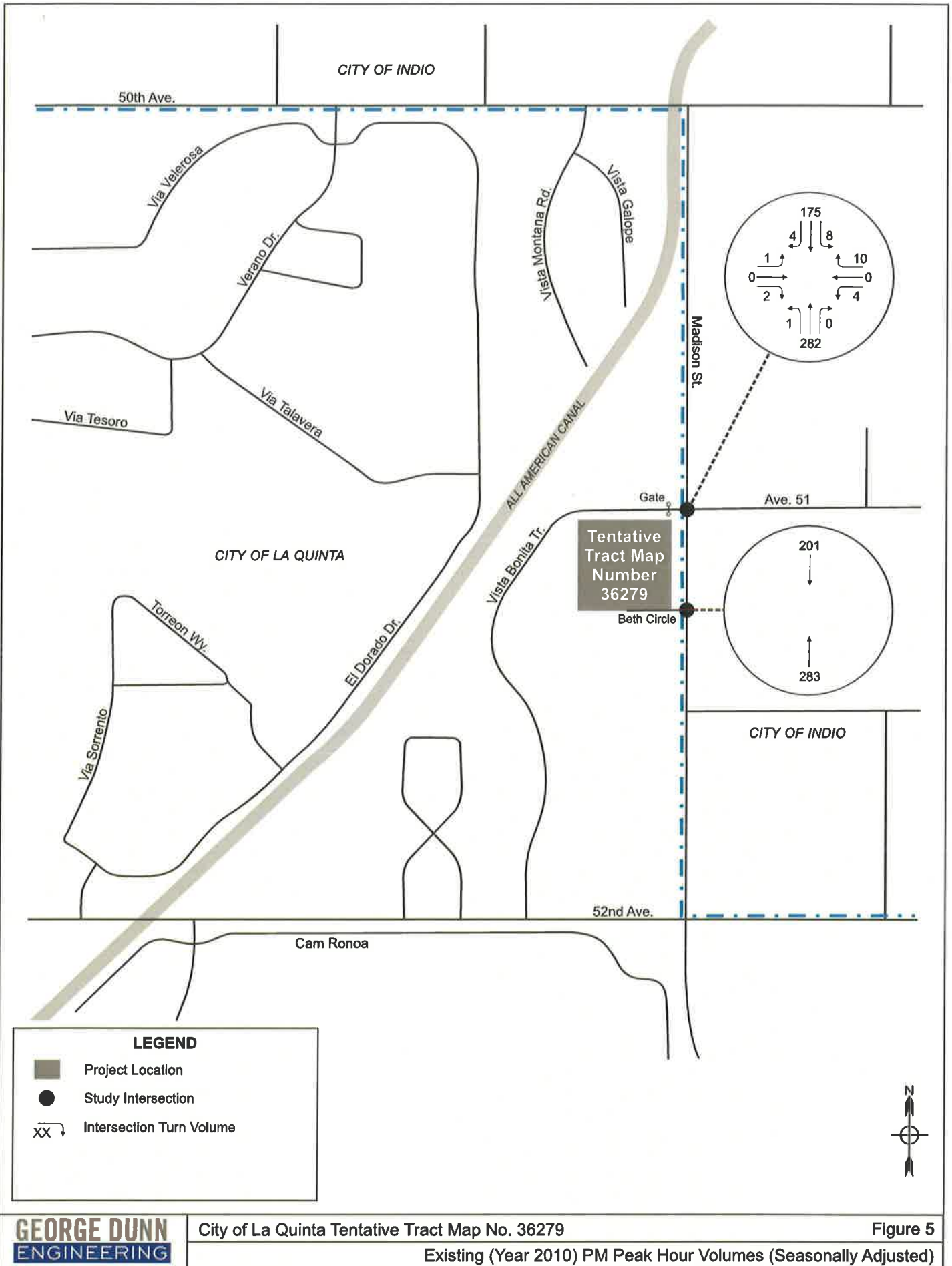


Table 1 –Project Trip Generation Forecast

TRIP GENERATION RATES									
Land Use	Intensity	Units	Daily	Weekday AM Total	Weekday AM IN	Weekday AM OUT	Weekday PM Total	Weekday PM IN	Weekday PM OUT
Single Family Detached (Land Use 210)	-	D.U.	12.86	2.47	0.64	1.83	0.97	0.62	0.35
FORECAST TRIP GENERATION									
Land Use	Intensity	Units	Daily	Weekday AM Total	Weekday AM IN	Weekday AM OUT	Weekday PM Total	Weekday PM IN	Weekday PM OUT
<i>Proposed Land Use</i>									
Single Family Detached (Land Use 210)	11	D.U.	141	27	7	20	11	7	4

As indicated in Table 1 and based on the proposed project trip generation rates, the project at build-out is forecast generate 141 daily trips with 27 trips during the AM peak hour and 11 trips during the PM peak hour.

PROJECT TRIP DISTRIBUTION ASSUMPTIONS

All project trips will access the surrounding street system via the existing connect from the private street Beth Circle onto Madison Street south of Bonita Trail. For purposes of analysis, it will be assumed that 50% of the trips enter/exiting the project site will come from the north and 50% of the project trips entering/exiting the project site will come from the south.

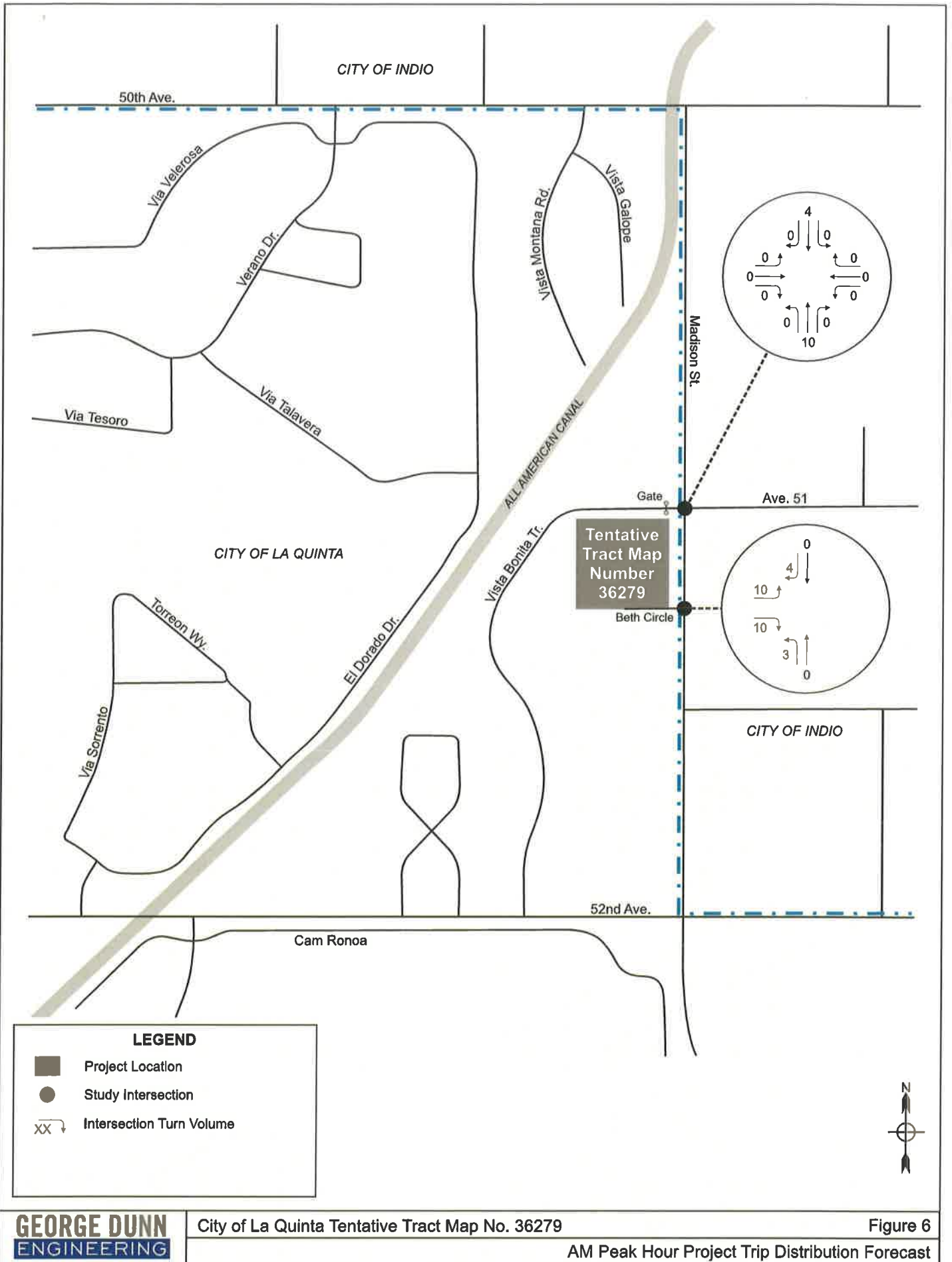
This is consistent with the direction bias on Madison Avenue during the AM peak hour. During the PM peak hour, the directional bias of traffic exiting the polo club is biased to the north, as might be expected as the major transportation network is located in that direction, though the traffic from the development that gets access from Vista Bonita is only three cars with two going south.

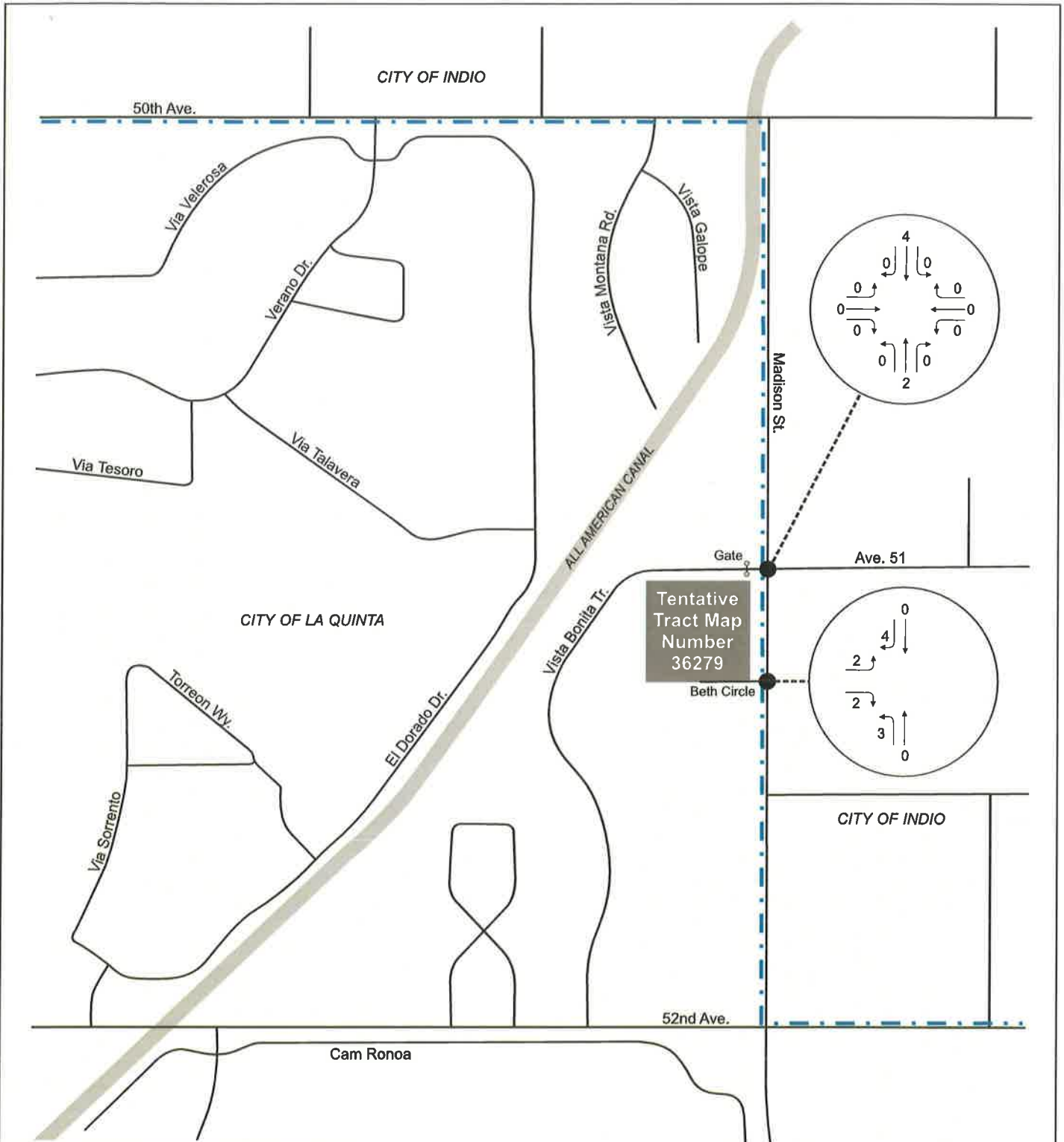
Figures 6 and 7 show the AM and PM peak hour project trip distribution. Figures 8 and 9 show the future forecast traffic volumes with the addition of project trips only.

AMBIENT GROWTH ASSUMPTIONS

A 1% per year ambient growth rate will be applied and it will be assumed that the project will be completed in the Year 2014.

To develop traffic volumes to assess Year 2014 conditions, with the addition of both the forecast traffic and ambient traffic growth, existing volumes were increased by 4% and then forecast traffic volumes were added. The resulting AM and PM peak hour volumes for future Year 2014 Conditions with the addition of both ambient traffic growth and project traffic are provided in Figures 10 and 11.

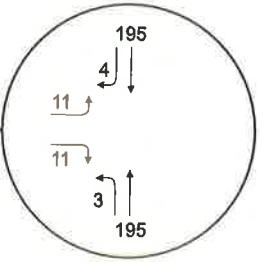
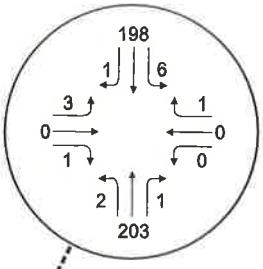
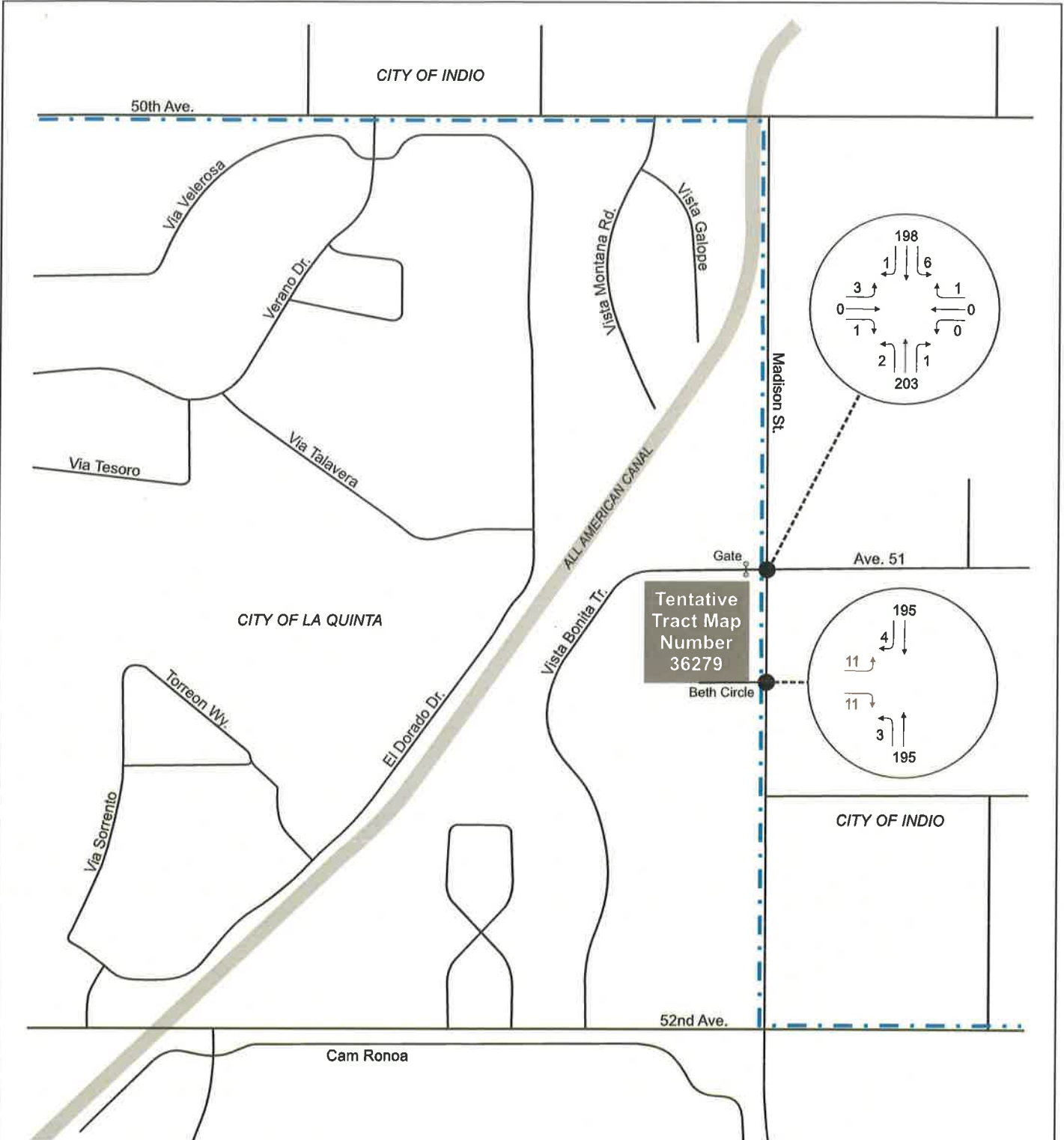




LEGEND

- Project Location
- Study Intersection
- XX → Intersection Turn Volume

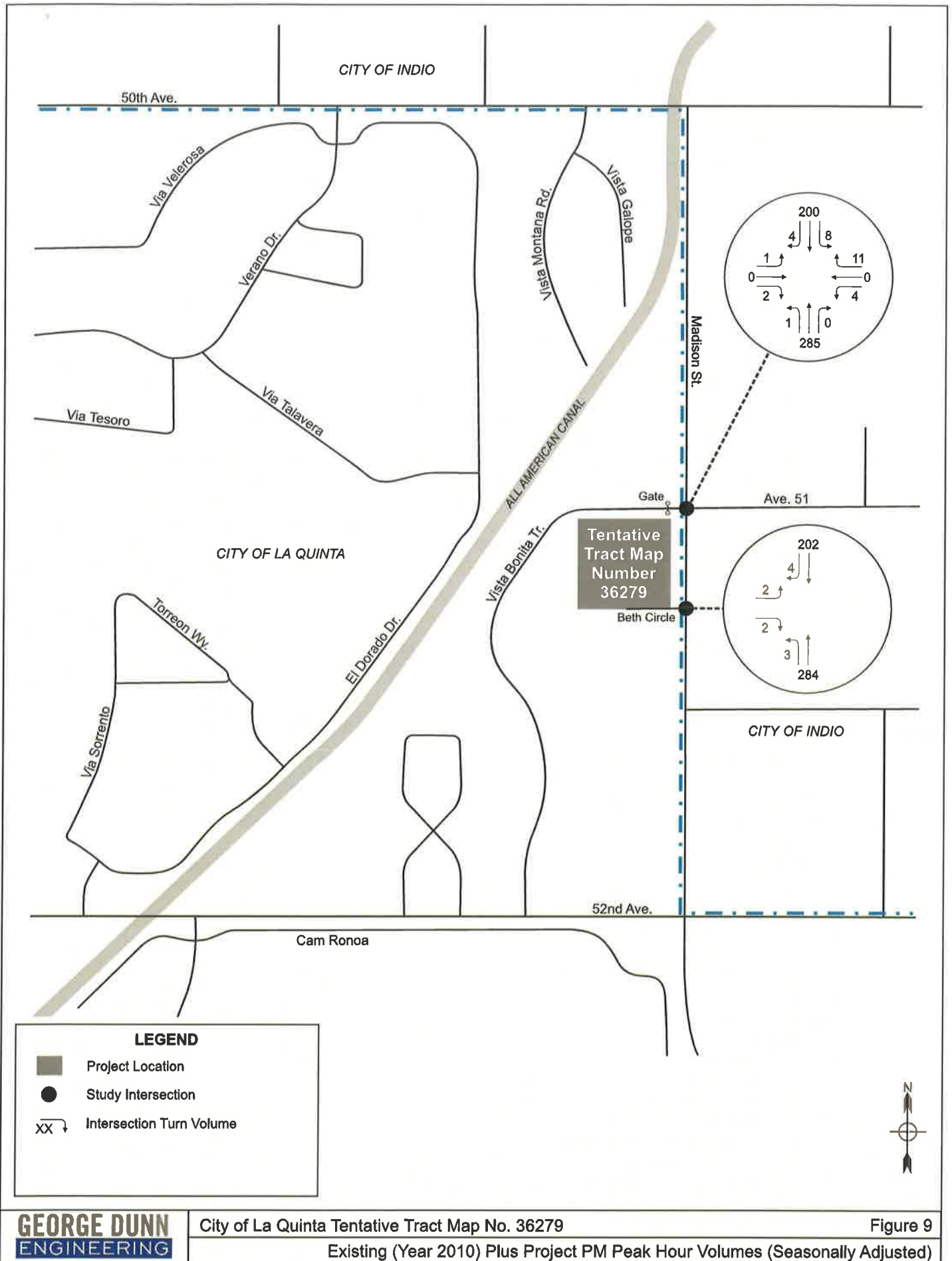


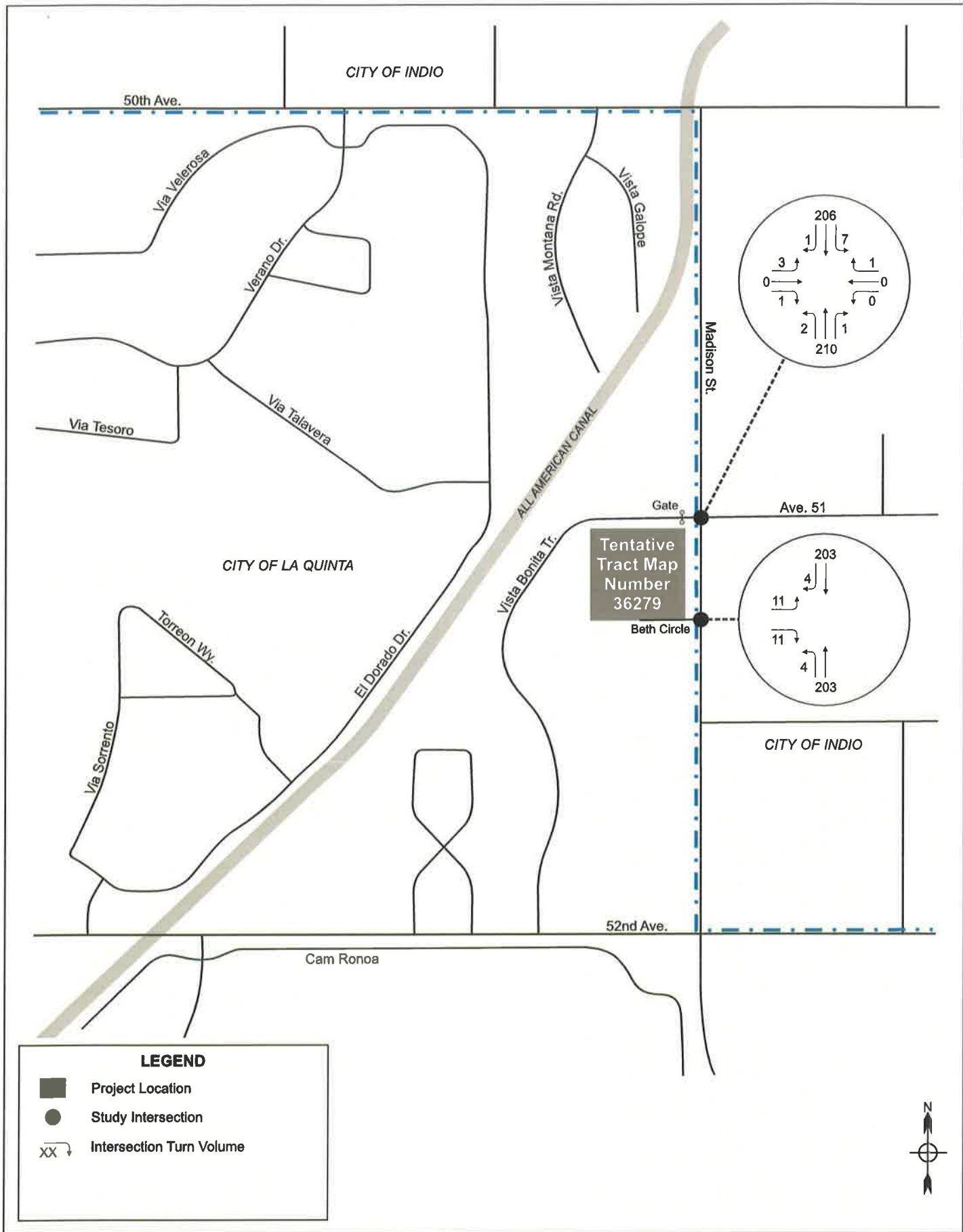


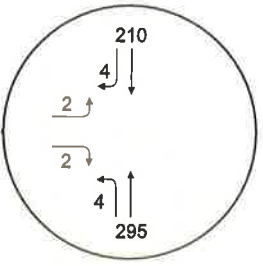
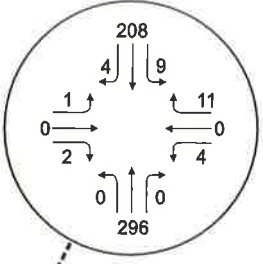
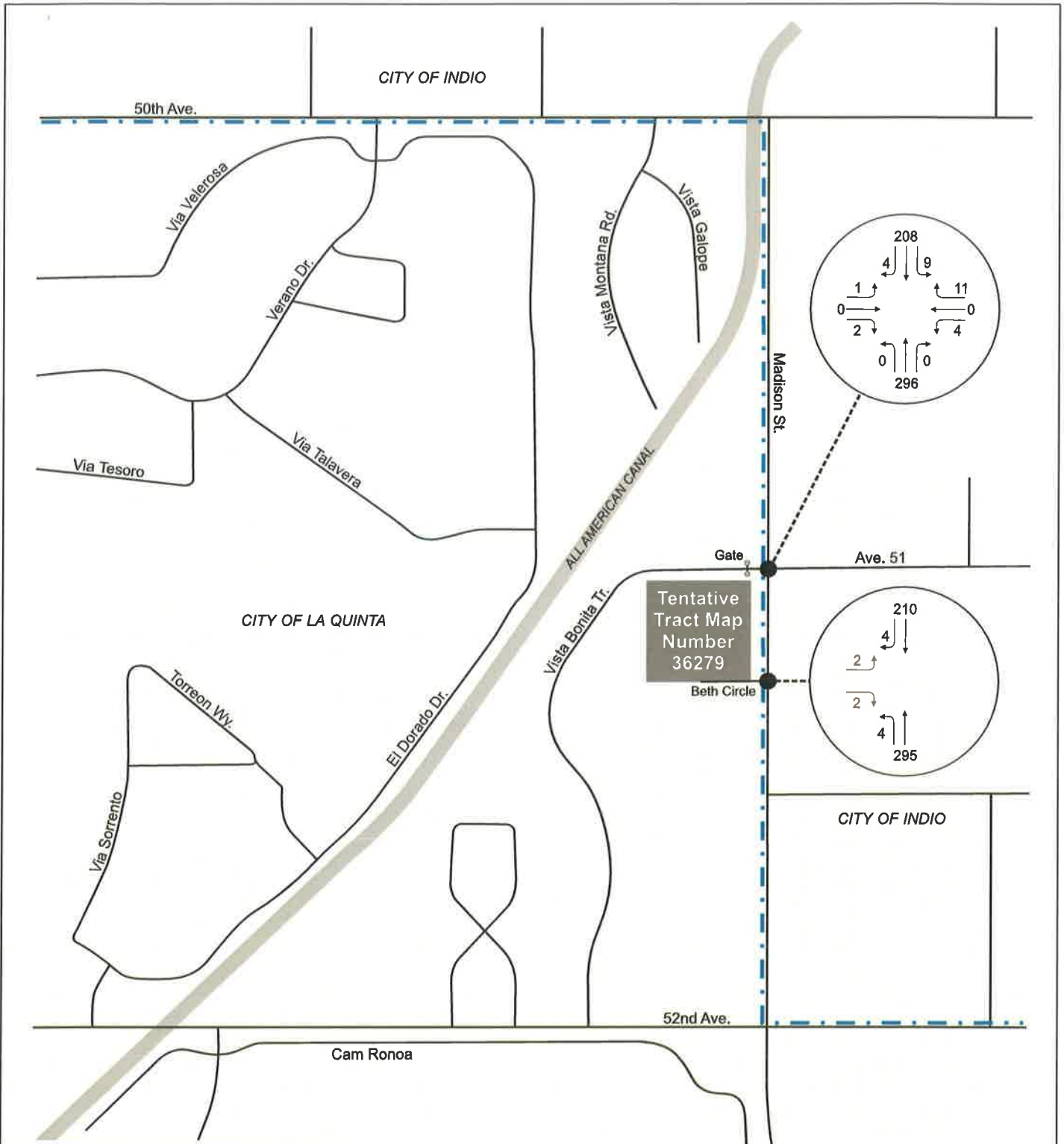
LEGEND

- Project Location
- Study Intersection
- XX ↘ Intersection Turn Volume









LEGEND

- Project Location
- Study Intersection
- Intersection Turn Volume



LEVEL-OF-SERVICE ANALYSIS

The TRAFFIX software was used to perform the analysis for the surface street network for the above conditions. The intersection analysis was performed utilizing the *2000 Highway Capacity Manual* methodologies.

The City of Indio requirements are to maintain the intersection levels-of-service (LOS) at D.

Table 2 shows the results of the AM and PM peak hour level-of-service analysis for each of the study timeframe scenarios. The intersection level-of-service analysis worksheets are provided as Attachment C to this memorandum.

Table 2 – Level-of-Service Analysis Summary

Intersection	Existing (Year 2010) Conditions	Existing Plus Project Conditions	Year 2014 Existing Plus Ambient Growth Plus Project Conditions
	LOS - Delay (sec.)	LOS - Delay (sec.)	LOS - Delay (sec.)
AM PEAK HOUR			
Madison Street/Vista Bonita/Avenue 51	B - 10.9 sec.	B - 11.1 sec.	B - 11.2 sec.
Madison Street/Project Entrance		B - 10.2 sec.	B - 10.2 sec.
PM PEAK HOUR			
Madison Street/Vista Bonita/Avenue 51	B - 10.6 sec.	B - 10.7 sec.	B - 10.8 sec.
Madison Street/Project Entrance		B - 10.5 sec.	B - 10.6 sec.

The table shows that the project has a very nominal impact on area traffic conditions, since the project is not a very large trip generator. The operations at the project entrance and at the Madison Street/Vista Bonita Trail/Avenue 51 intersection are both very good and the small amount of traffic added to the Madison Street intersections north and south of the project would also not be expected to make any noticeable changes in operations at those two intersections.

DETERMINATION OF NEED FOR FURTHER TRAFFIC ANALYSIS

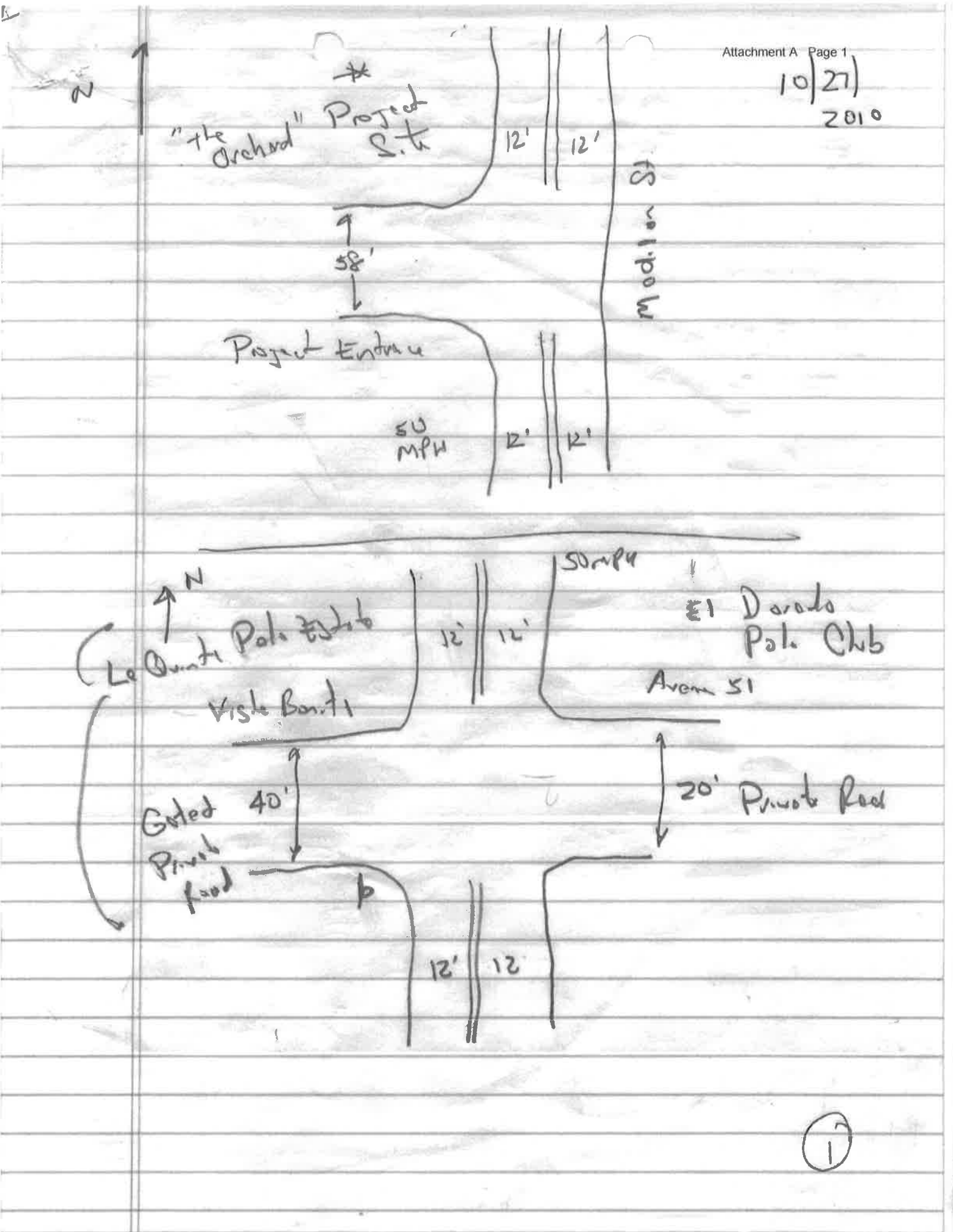
The proposed project is forecast to generate small amounts of weekday peak hour traffic, less than the City threshold of 50 peak hour trips that would require a more detailed traffic analysis. The analysis performed as part of this traffic assessment shows that the project will have no noticeable impact on area traffic operations.

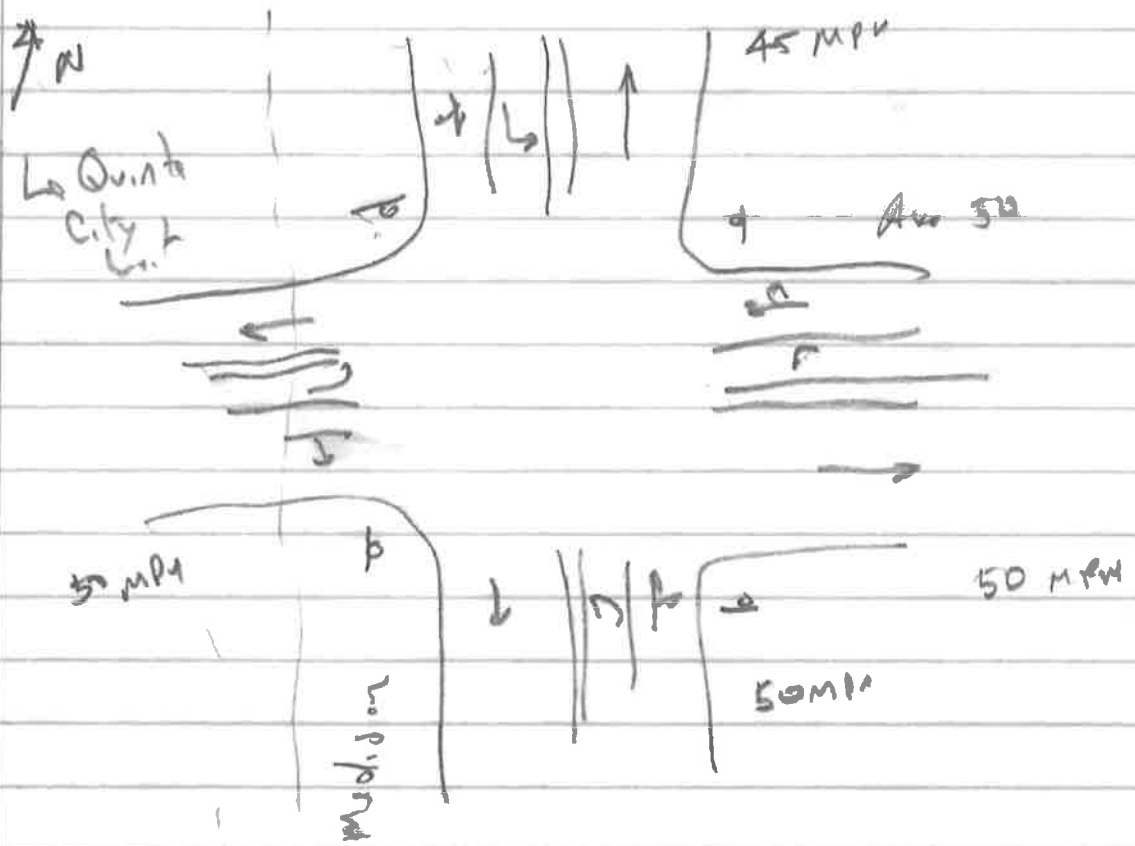
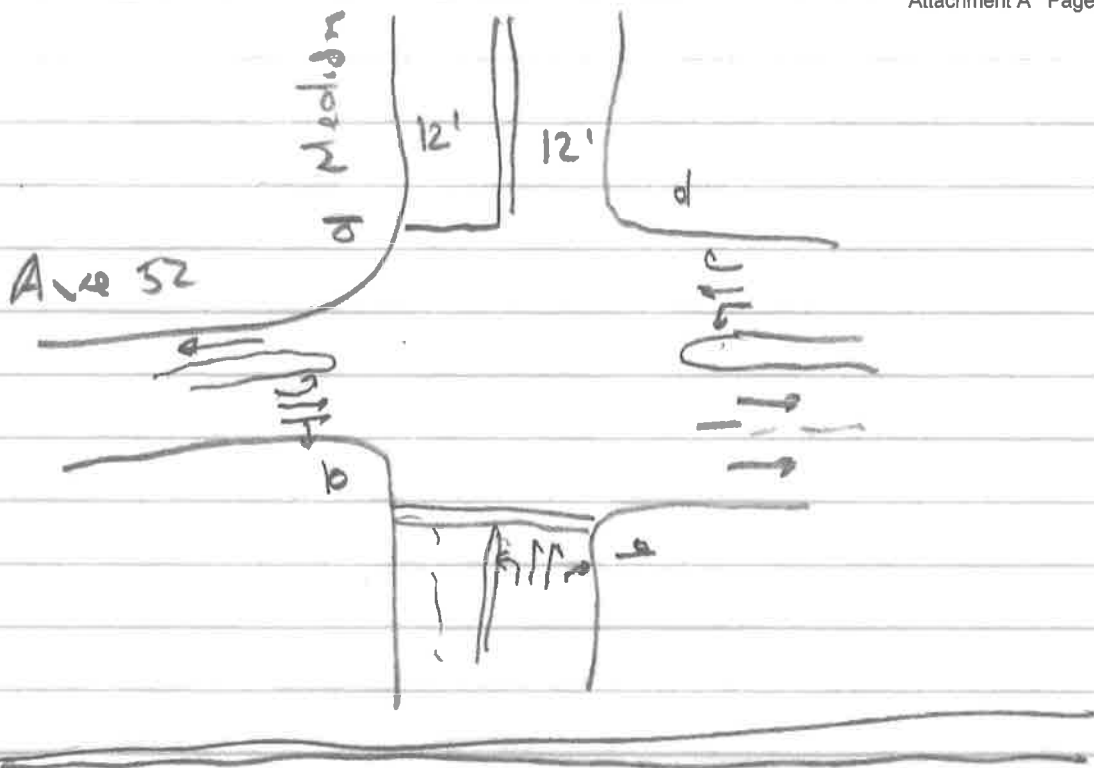
SITE PLAN ASSESSMENT

The proposed project provides for the subdivision of Tract 36279 into 11 lots intended for the construction of single-family homes. This subdivision does not provided a detailed layout of the proposed structures that will be built on each lot. As plans are developed for each lot, those plans will need to provide for all the necessary conditions of the City's municipal code.

Attachment A
Field Check Notes

10/27/2010





Attachment B
Traffic Counts

Counts Unlimited Inc.
 PO Box 1178
 Corona, CA 92878
 (951) 268-6268

City of La Quinta
 N/S: Madison Street
 E/W: Vista Bonita Trail
 Weather: Sunny

File Name : LQAMAVBAM
 Site Code : 10234001
 Start Date : 11/2/2010
 Page No : 1

Groups Printed- Total Volume

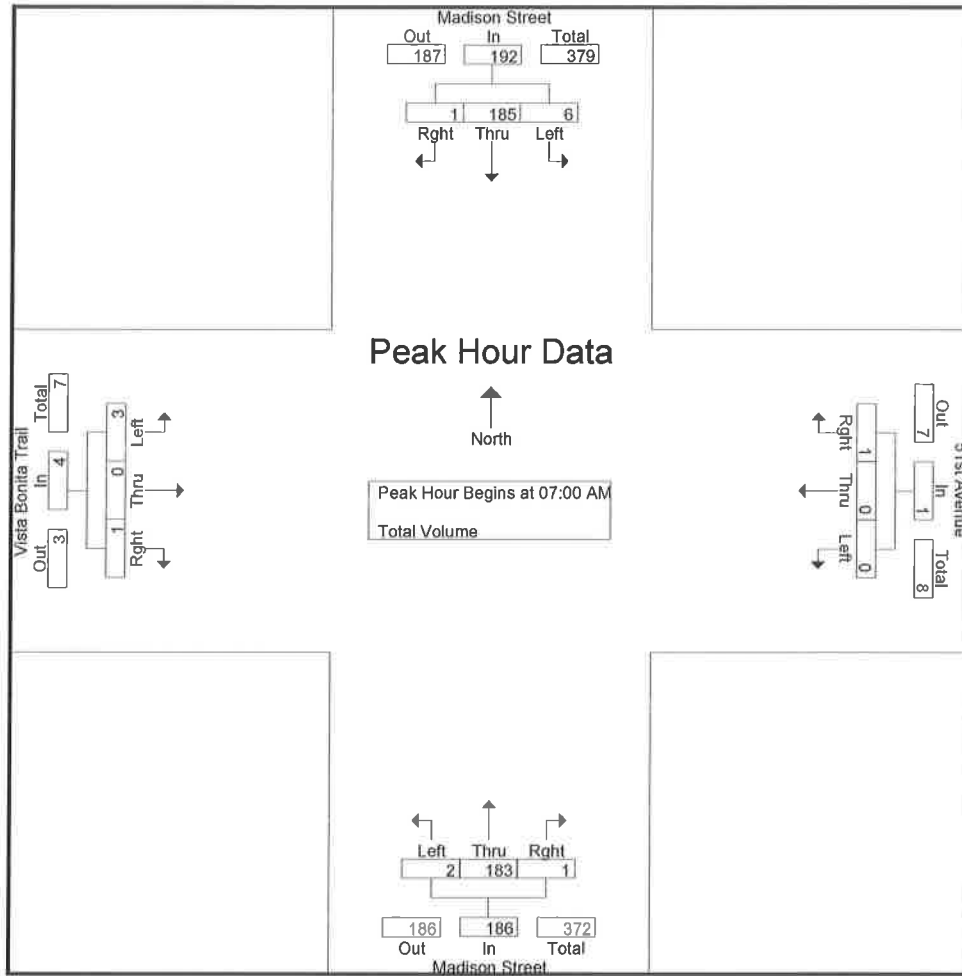
Start Time	Madison Street Southbound				51st Avenue Westbound				Madison Street Northbound				Vista Bonita Trail Eastbound				Int. Total
	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	
06:00 AM	1	14	1	16	0	0	0	0	0	18	0	18	0	0	0	0	34
06:15 AM	5	27	0	32	0	1	2	3	0	23	0	23	0	1	0	1	59
06:30 AM	3	33	1	37	1	0	1	2	0	37	1	38	0	0	0	0	77
06:45 AM	10	54	0	64	0	0	1	1	0	43	2	45	0	0	0	0	110
Total	19	128	2	149	1	1	4	6	0	121	3	124	0	1	0	1	280
07:00 AM	1	48	0	49	0	0	0	0	1	41	0	42	1	0	0	1	92
07:15 AM	2	36	0	38	0	0	1	1	0	43	1	44	0	0	1	1	84
07:30 AM	1	53	0	54	0	0	0	0	0	43	0	43	1	0	0	1	98
07:45 AM	2	48	1	51	0	0	0	0	1	56	0	57	1	0	0	1	109
Total	6	185	1	192	0	0	1	1	2	183	1	186	3	0	1	4	383
08:00 AM	2	51	0	53	1	0	0	1	0	38	0	38	2	0	0	2	94
08:15 AM	2	30	0	32	0	0	1	1	1	40	0	41	0	0	0	0	74
Grand Total	29	394	3	426	2	1	6	9	3	382	4	389	5	1	1	7	831
Apprch %	6.8	92.5	0.7		22.2	11.1	66.7		0.8	98.2	1		71.4	14.3	14.3		
Total %	3.5	47.4	0.4	51.3	0.2	0.1	0.7	1.1	0.4	46	0.5	46.8	0.6	0.1	0.1	0.8	

Start Time	Madison Street Southbound				51st Avenue Westbound				Madison Street Northbound				Vista Bonita Trail Eastbound				Int. Total
	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	
Peak Hour Analysis From 07:00 AM to 07:45 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:00 AM																	
07:00 AM	1	48	0	49	0	0	0	0	1	41	0	42	1	0	0	1	92
07:15 AM	2	36	0	38	0	0	1	1	0	43	1	44	0	0	1	1	84
07:30 AM	1	53	0	54	0	0	0	0	0	43	0	43	1	0	0	1	98
07:45 AM	2	48	1	51	0	0	0	0	1	56	0	57	1	0	0	1	109
Total Volume	6	185	1	192	0	0	1	1	2	183	1	186	3	0	1	4	383
% App. Total	3.1	96.4	0.5		0	0	100		1.1	98.4	0.5		75	0	25		
PHF	.750	.873	.250	.889	.000	.000	.250	.250	.500	.817	.250	.816	.750	.000	.250	1.000	.878

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City of La Quinta
 N/S: Madison Street
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 Weather: Sunny

File Name : LQAMAVBAM
 Site Code : 10234001
 Start Date : 11/2/2010
 Page No : 2



Peak Hour Analysis From 07:00 AM to 07:45 AM - Peak 1 of 1
 Peak Hour for Each Approach Begins at:

	07:00 AM				07:00 AM				07:00 AM				07:00 AM			
+0 mins.	1	48	0	49	0	0	0	0	1	41	0	42	1	0	0	1
+15 mins.	2	36	0	38	0	0	1	1	0	43	1	44	0	0	1	1
+30 mins.	1	53	0	54	0	0	0	0	0	43	0	43	1	0	0	1
+45 mins.	2	48	1	51	0	0	0	0	1	56	0	57	1	0	0	1
Total Volume	6	185	1	192	0	0	1	1	2	183	1	186	3	0	1	4
% App. Total	3.1	96.4	0.5		0	0	100		1.1	98.4	0.5		75	0	25	
PHF	.750	.873	.250	.889	.000	.000	.250	.250	.500	.817	.250	.816	.750	.000	.250	1.000

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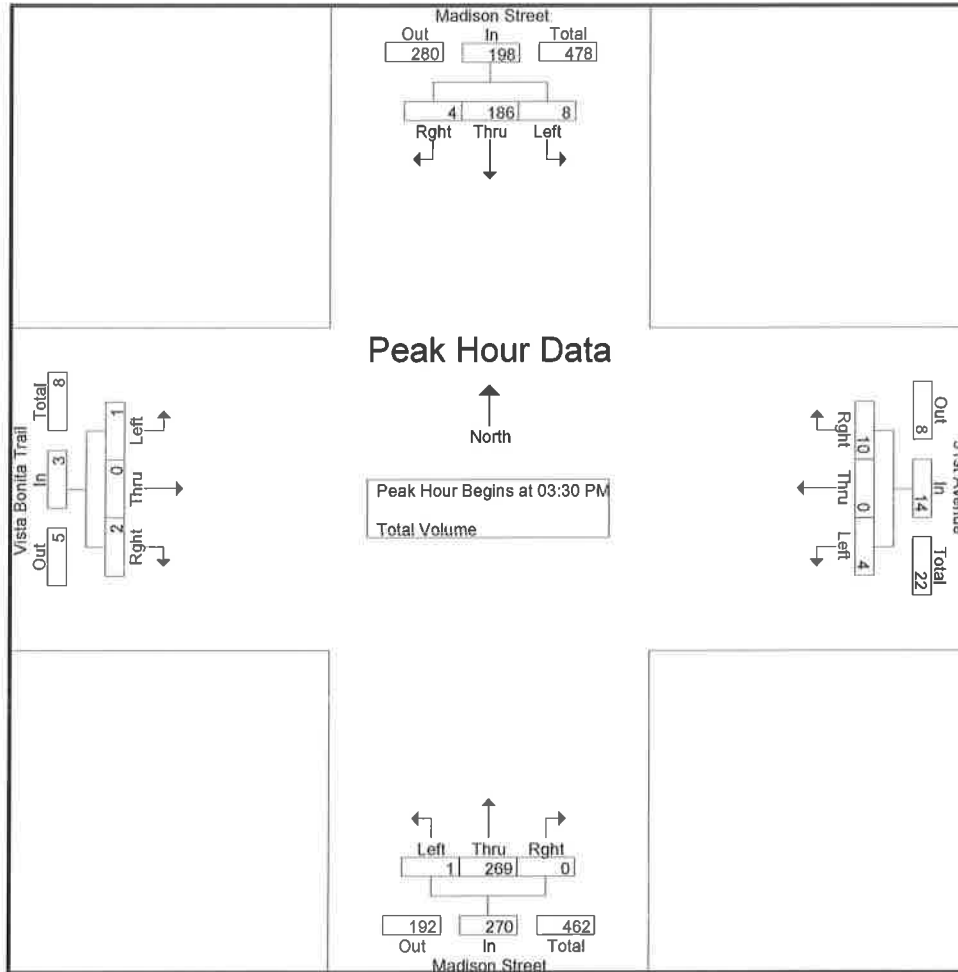
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	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	
02:30 PM	2	47	3	52	0	0	2	2	0	69	0	69	0	0	0	0	123
02:45 PM	1	45	3	49	0	0	1	1	0	60	0	60	1	0	0	1	111
Total	3	92	6	101	0	0	3	3	0	129	0	129	1	0	0	1	234
03:00 PM	3	62	0	65	0	0	2	2	0	71	0	71	1	0	2	3	141
03:15 PM	2	73	0	75	0	0	1	1	1	80	0	81	0	0	1	1	158
03:30 PM	1	48	2	51	2	0	9	11	0	78	0	78	0	0	1	1	141
03:45 PM	1	53	2	56	2	0	0	2	0	71	0	71	0	0	0	0	129
Total	7	236	4	247	4	0	12	16	1	300	0	301	1	0	4	5	569
04:00 PM	4	41	0	45	0	0	0	0	1	69	0	70	1	0	1	2	117
04:15 PM	2	44	0	46	0	0	1	1	0	51	0	51	0	0	0	0	98
04:30 PM	2	42	0	44	3	0	1	4	0	54	1	55	1	0	0	1	104
04:45 PM	0	46	2	48	0	0	1	1	0	62	0	62	1	0	0	1	112
Total	8	173	2	183	3	0	3	6	1	236	1	238	3	0	1	4	431
05:00 PM	2	59	1	62	0	0	1	1	0	59	0	59	0	0	0	0	122
05:15 PM	0	46	0	46	0	0	4	4	1	59	0	60	0	0	0	0	110
Grand Total	20	606	13	639	7	0	23	30	3	783	1	787	5	0	5	10	1466
Apprch %	3.1	94.8	2		23.3	0	76.7		0.4	99.5	0.1		50	0	50		
Total %	1.4	41.3	0.9	43.6	0.5	0	1.6	2	0.2	53.4	0.1	53.7	0.3	0	0.3	0.7	

Start Time	Madison Street Southbound				51st Avenue Westbound				Madison Street Northbound				Vista Bonita Trail Eastbound				Int. Total
	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	
Peak Hour Analysis From 03:30 PM to 04:15 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 03:30 PM																	
03:30 PM	1	48	2	51	2	0	9	11	0	78	0	78	0	0	1	1	141
03:45 PM	1	53	2	56	2	0	0	2	0	71	0	71	0	0	0	0	129
04:00 PM	4	41	0	45	0	0	0	0	1	69	0	70	1	0	1	2	117
04:15 PM	2	44	0	46	0	0	1	1	0	51	0	51	0	0	0	0	98
Total Volume	8	186	4	198	4	0	10	14	1	269	0	270	1	0	2	3	485
% App. Total	4	93.9	2		28.6	0	71.4		0.4	99.6	0		33.3	0	66.7		
PHF	.500	.877	.500	.884	.500	.000	.278	.318	.250	.862	.000	.865	.250	.000	.500	.375	.860

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City of La Quinta
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 Peak Hour for Each Approach Begins at:

	03:30 PM				03:30 PM				03:30 PM				03:30 PM			
+0 mins.	1	48	2	51	2	0	9	11	0	78	0	78	0	0	1	1
+15 mins.	1	53	2	56	2	0	0	2	0	71	0	71	0	0	0	0
+30 mins.	4	41	0	45	0	0	0	0	1	69	0	70	1	0	1	2
+45 mins.	2	44	0	46	0	0	1	1	0	51	0	51	0	0	0	0
Total Volume	8	186	4	198	4	0	10	14	1	269	0	270	1	0	2	3
% App. Total	4	93.9	2		28.6	0	71.4		0.4	99.6	0		33.3	0	66.7	
PHF	.500	.877	.500	.884	.500	.000	.278	.318	.250	.862	.000	.865	.250	.000	.500	.375

Attachment C
Intersection Level-of-Service Analysis Worksheets

AM Existing

Fri Nov 5, 2010 11:34:17

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Scenario Report

Scenario:	AM Existing
Command:	AM Existing
Volume:	AM Peak Hour
Geometry:	Existing
Impact Fee:	Default Impact Fee
Trip Generation:	AM Peak Hour
Trip Distribution:	Project
Paths:	Default Paths
Routes:	Default Routes
Configuration:	AM Existing

AM Existing

Fri Nov 5, 2010 11:34:17

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Level Of Service Computation Report
 2000 HCM Unsignalized Method (Base Volume Alternative)

 Intersection #1 Madison Street/Avenue 51

Average Delay (sec/veh): 0.3 Worst Case Level Of Service: B[10.9]

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Uncontrolled			Uncontrolled			Stop Sign			Stop Sign		
Rights:	Include			Include			Include			Include		
Lanes:	0	0	1	0	0	1	0	0	1	0	0	1

Volume Module:

Base Vol:	2	183	1	6	185	1	3	0	1	0	0	1
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	2	183	1	6	185	1	3	0	1	0	0	1
User Adj:	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	2	192	1	6	194	1	3	0	1	0	0	1
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Final Vol.:	2	192	1	6	194	1	3	0	1	0	0	1

Critical Gap Module:

Critical Gp:	4.1	xxxx	xxxxxx	4.1	xxxx	xxxxxx	7.1	xxxx	6.2	xxxxxx	xxxx	6.2
FollowUpTim:	2.2	xxxx	xxxxxx	2.2	xxxx	xxxxxx	3.5	xxxx	3.3	xxxxxx	xxxx	3.3

Capacity Module:

Cnflct Vol:	195	xxxx	xxxxxx	193	xxxx	xxxxxx	405	xxxx	195	xxxx	xxxx	193
Potent Cap.:	1390	xxxx	xxxxxx	1392	xxxx	xxxxxx	560	xxxx	852	xxxx	xxxx	854
Move Cap.:	1390	xxxx	xxxxxx	1392	xxxx	xxxxxx	557	xxxx	852	xxxx	xxxx	854
Volume/Cap:	0.00	xxxx	xxxxxx	0.00	xxxx	xxxxxx	0.01	xxxx	0.00	xxxx	xxxx	0.00

Level Of Service Module:

Queue:	0.0	xxxx	xxxxxx	0.0	xxxx	xxxxxx	0.0	xxxx	xxxxxx	xxxxxx	xxxx	0.0
Stopped Del:	7.6	xxxx	xxxxxx	7.6	xxxx	xxxxxx	11.5	xxxx	xxxxxx	xxxxxx	xxxx	9.2
LOS by Move:	A	*	*	A	*	*	B	*	*	*	*	A
Movement:	LT	LTR	RT	LT	LTR	RT	LT	LTR	RT	LT	LTR	RT
Shared Cap.:	xxxx	xxxx	xxxxxx	xxxx	xxxx	xxxxxx	xxxx	xxxx	852	xxxx	xxxx	xxxxxx
SharedQueue:	xxxxxx	xxxx	xxxxxx	xxxxxx	xxxx	xxxxxx	xxxxxx	xxxx	0.0	xxxxxx	xxxx	xxxxxx
Shrd StpDel:	xxxxxx	xxxx	xxxxxx	xxxxxx	xxxx	xxxxxx	xxxxxx	xxxx	9.2	xxxxxx	xxxx	xxxxxx
Shared LOS:	*	*	*	*	*	*	*	*	A	*	*	*
ApproachDel:	xxxxxxx			xxxxxxx			10.9			9.2		
ApproachLOS:	*			*			B			A		

PM Existing

Fri Nov 5, 2010 11:34:40

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Scenario Report

Scenario:	PM Existing
Command:	PM Existing
Volume:	PM Peak Hour
Geometry:	Existing
Impact Fee:	Default Impact Fee
Trip Generation:	PM Peak Hour
Trip Distribution:	Project
Paths:	Default Paths
Routes:	Default Routes
Configuration:	PM Existing

PM Existing

Fri Nov 5, 2010 11:34:40

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-----
Level Of Service Computation Report
2000 HCM Unsignalized Method (Base Volume Alternative)
*****
Intersection #1 Madison Street/Avenue 51
*****
Average Delay (sec/veh):      0.5   Worst Case Level Of Service:      B[ 10.6]
*****
Approach:      North Bound      South Bound      East Bound      West Bound
Movement:      L - T - R      L - T - R      L - T - R      L - T - R
-----|-----|-----|-----|
Control:      Uncontrolled      Uncontrolled      Stop Sign      Stop Sign
Rights:      Include      Include      Include      Include
Lanes:      0 0 1 0 0      0 0 1! 0 0      1 0 0 1 0      0 0 1! 0 0
-----|-----|-----|-----|
Volume Module:
Base Vol:      0 269 0      8 186 4      1 0 2      4 0 10
Growth Adj:  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
Initial Bse:  0 269 0      8 186 4      1 0 2      4 0 10
User Adj:    1.05 1.05 1.05  1.05 1.05 1.05  1.05 1.05 1.05  1.05 1.05 1.05
PHF Adj:     1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
PHF Volume:   0 282 0      8 195 4      1 0 2      4 0 11
Reduct Vol:   0 0 0      0 0 0      0 0 0      0 0 0
Final Vol.:   0 282 0      8 195 4      1 0 2      4 0 11
-----|-----|-----|-----|
Critical Gap Module:
Critical Gp:xxxxx xxxxx xxxxx  4.1 xxxxx xxxxx  7.1 xxxxx  6.2  7.1 xxxxx  6.2
FollowUpTim:xxxxx xxxxx xxxxx  2.2 xxxxx xxxxx  3.5 xxxxx  3.3  3.5 xxxxx  3.3
-----|-----|-----|-----|
Capacity Module:
Cnflct Vol:  xxxxx xxxxx xxxxx  282 xxxxx xxxxx  502 xxxxx  197  498 xxxxx  282
Potent Cap.: xxxxx xxxxx xxxxx  1292 xxxxx xxxxx  483 xxxxx  849  486 xxxxx  761
Move Cap.:   xxxxx xxxxx xxxxx  1292 xxxxx xxxxx  474 xxxxx  849  483 xxxxx  761
Volume/Cap:  xxxxx xxxxx xxxxx  0.01 xxxxx xxxxx  0.00 xxxxx  0.00  0.01 xxxxx  0.01
-----|-----|-----|-----|
Level Of Service Module:
Queue:      xxxxx xxxxx xxxxx  0.0 xxxxx xxxxx  0.0 xxxxx xxxxx xxxxx xxxxx xxxxx
Stopped Del:xxxxx xxxxx xxxxx  7.8 xxxxx xxxxx  12.6 xxxxx xxxxx xxxxx xxxxx xxxxx
LOS by Move: * * *      A * *      B * *      * * *
Movement:   LT - LTR - RT  LT - LTR - RT  LT - LTR - RT  LT - LTR - RT
Shared Cap.: xxxxx xxxxx xxxxx  xxxxx xxxxx xxxxx  xxxxx xxxxx  849 xxxxx  653 xxxxx
SharedQueue:xxxxx xxxxx xxxxx  xxxxx xxxxx xxxxx  xxxxx xxxxx  0.0 xxxxx  0.1 xxxxx
Shrd StpDel:xxxxx xxxxx xxxxx  xxxxx xxxxx xxxxx  xxxxx xxxxx  9.3 xxxxx  10.6 xxxxx
Shared LOS:  * * *      * * *      * * *      A * B *
ApproachDel: xxxxxx      xxxxxx      10.4      10.6
ApproachLOS: *      *      B      B

```

AM Existing Plus Project Fri Nov 5, 2010 11:33:04

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Scenario Report

Scenario: AM Existing Plus Project
Command: AM Existing Plus Project
Volume: AM Peak Hour
Geometry: Existing
Impact Fee: Default Impact Fee
Trip Generation: AM Peak Hour
Trip Distribution: Project
Paths: Default Paths
Routes: Default Routes
Configuration: AM Existing Plus Project

AM Existing Plus Project Fri Nov 5, 2010 11:33:04

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Trip Generation Report

Forecast for AM Peak Hour

Zone #	Subzone	Amount	Units	Rate In	Rate Out	Trips In	Trips Out	Total Trips	% Of Total
1	Tract 36279	1.00	Tract 36279	7.00	20.00	7	20	27	100.0
	Zone 1 Subtotal					7	20	27	100.0
TOTAL						7	20	27	100.0

```

-----
Level Of Service Computation Report
2000 HCM Unsignalized Method (Future Volume Alternative)
*****
Intersection #1 Madison Street/Avenue 51
*****
Average Delay (sec/veh):      0.3 Worst Case Level Of Service:      B[ 11.1]
*****
Approach:      North Bound      South Bound      East Bound      West Bound
Movement:      L - T - R      L - T - R      L - T - R      L - T - R
-----
Control:      Uncontrolled      Uncontrolled      Stop Sign      Stop Sign
Rights:      Include      Include      Include      Include
Lanes:      0 0 1 0 0      0 0 1 0 0      1 0 0 1 0      0 0 0 0 1
-----
Volume Module:
Base Vol:      2 183      1 6 185      1 3 0      1 0 0 1
Growth Adj:  1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
Initial Bse:  2 183      1 6 185      1 3 0      1 0 0 1
Added Vol:    0 10      0 0 4      0 0 0      0 0 0 0
PasserByVol:  0 0      0 0 0      0 0 0      0 0 0 0
Initial Fut:  2 193      1 6 189      1 3 0      1 0 0 1
User Adj:    1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05
PHF Adj:     1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
PHF Volume:   2 203      1 6 198      1 3 0      1 0 0 1
Reduct Vol:   0 0      0 0 0      0 0 0      0 0 0 0
Final Vol.:  2 203      1 6 198      1 3 0      1 0 0 1
Critical Gap Module:
Critical Gp:  4.1 xxxx xxxxx 4.1 xxxx xxxxx 7.1 xxxx 6.2 xxxxxx xxxx 6.2
FollowUpTim:  2.2 xxxx xxxxx 2.2 xxxx xxxxx 3.5 xxxx 3.3 xxxxxx xxxx 3.3
-----
Capacity Module:
Cnflict Vol:  200 xxxx xxxxx 204 xxxx xxxxx 419 xxxx 199 xxxx xxxxx 203
Potent Cap.: 1385 xxxx xxxxx 1380 xxxx xxxxx 548 xxxx 847 xxxx xxxxx 843
Move Cap.:   1385 xxxx xxxxx 1380 xxxx xxxxx 544 xxxx 847 xxxx xxxxx 843
Volume/Cap:  0.00 xxxx xxxxx 0.00 xxxx xxxxx 0.01 xxxx 0.00 xxxx xxxxx 0.00
-----
Level Of Service Module:
Queue:      0.0 xxxx xxxxx 0.0 xxxx xxxxx 0.0 xxxx xxxxxx xxxxx xxxx 0.0
Stopped Del: 7.6 xxxx xxxxx 7.6 xxxx xxxxx 11.7 xxxx xxxxxx xxxxxx xxxx 9.3
LOS by Move: A * * A * * B * * * * A
Movement:   LT - LTR - RT LT - LTR - RT LT - LTR - RT LT - LTR - RT
Shared Cap.: xxxx xxxx xxxxxx xxxxx xxxx xxxxxx xxxxx xxxx 847 xxxx xxxxx xxxxxx
SharedQueue: xxxxxx xxxx xxxxxx xxxxxx xxxx xxxxxx xxxxxx xxxx 0.0 xxxxxx xxxx xxxxxx
Shrd StpDel: xxxxxx xxxx xxxxxx xxxxxx xxxx xxxxxx xxxxxx xxxx 9.3 xxxxxx xxxx xxxxxx
Shared LOS:  * * * * * * * * * A * * *
ApproachDel: xxxxxx xxxxxx 11.1 9.3
ApproachLOS: * * * B A

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Level Of Service Computation Report
2000 HCM Unsignalized Method (Future Volume Alternative)
*****
Intersection #2 Madison Street/Project Entrance
*****
Average Delay (sec/veh):      0.6   Worst Case Level Of Service:      B[ 10.2]
*****
Approach:      North Bound      South Bound      East Bound      West Bound
Movement:      L - T - R      L - T - R      L - T - R      L - T - R
-----|-----|-----|-----|
Control:      Uncontrolled      Uncontrolled      Stop Sign      Stop Sign
Rights:      Include      Include      Include      Include
Lanes:      0 1 0 0 0      0 0 0 1 0      1 0 0 0 1      0 0 0 0 0
-----|-----|-----|-----|
Volume Module:
Base Vol:      0 186 0      0 186 0      0 0 0 0      0 0 0 0
Growth Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
Initial Bse: 0 186 0      0 186 0      0 0 0 0      0 0 0 0
Added Vol: 4 0 0      0 0 4      10 0 10      0 0 0
PasserByVol: 0 0 0      0 0 0      0 0 0      0 0 0
Initial Fut: 4 186 0      0 186 4      10 0 10      0 0 0
User Adj: 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05
PHF Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
PHF Volume: 4 195 0      0 195 4      11 0 11      0 0 0
Reduct Vol: 0 0 0      0 0 0      0 0 0      0 0 0
Final Vol.: 4 195 0      0 195 4      11 0 11      0 0 0
Critical Gap Module:
Critical Gp: 4.1 xxxx xxxxx xxxxx xxxx xxxxx 6.4 xxxx 6.2 xxxxx xxxx xxxxx
FollowUpTim: 2.2 xxxx xxxxx xxxxx xxxx xxxxx 3.5 xxxx 3.3 xxxxx xxxx xxxxx
-----|-----|-----|-----|
Capacity Module:
Cnflct Vol: 200 xxxx xxxxx xxxxx xxxx xxxxx 401 xxxx 197 xxxx xxxx xxxxx
Potent Cap.: 1385 xxxx xxxxx xxxxx xxxx xxxxx 609 xxxx 849 xxxx xxxx xxxxx
Move Cap.: 1385 xxxx xxxxx xxxxx xxxx xxxxx 607 xxxx 849 xxxx xxxx xxxxx
Volume/Cap: 0.00 xxxx xxxxx xxxxx xxxx xxxxx 0.02 xxxx 0.01 xxxx xxxx xxxxx
-----|-----|-----|-----|
Level Of Service Module:
Queue: 0.0 xxxx xxxxx xxxxx xxxx xxxxx 0.1 xxxx 0.0 xxxxx xxxx xxxxx
Stopped Del: 7.6 xxxx xxxxx xxxxx xxxx xxxxx 11.0 xxxx 9.3 xxxxx xxxx xxxxx
LOS by Move: A * * * * * B * A * * *
Movement: LT - LTR - RT LT - LTR - RT LT - LTR - RT LT - LTR - RT
Shared Cap.: xxxx xxxx xxxxx xxxxx xxxx xxxxx xxxx xxxx xxxxx xxxx xxxx xxxxx
SharedQueue: 0.0 xxxx xxxxx xxxxx xxxx xxxxx xxxxx xxxx xxxxx xxxxx xxxx xxxxx
Shrd StpDel: 7.6 xxxx xxxxx xxxxx xxxx xxxxx xxxxx xxxx xxxxx xxxxx xxxx xxxxx
Shared LOS: A * * * * * * * * * *
ApproachDel: xxxxxx xxxxxx 10.2 xxxxxx
ApproachLOS: * * * * * B *

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PM Existing Plus Project Fri Nov 5, 2010 11:33:42

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Scenario Report

Scenario:	PM Existing Plus Project
Command:	PM Existing Plus Project
Volume:	PM Peak Hour
Geometry:	Existing
Impact Fee:	Default Impact Fee
Trip Generation:	PM Peak Hour
Trip Distribution:	Project
Paths:	Default Paths
Routes:	Default Routes
Configuration:	PM Existing Plus Project

PM Existing Plus Project Fri Nov 5, 2010 11:33:42

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Trip Generation Report

Forecast for PM Peak Hour

Zone #	Subzone	Amount	Units	Rate In	Rate Out	Trips In	Trips Out	Total Trips	% Of Total
1	Tract 36279	1.00	Tract 36279	7.00	4.00	7	4	11	100.0
	Zone 1 Subtotal					7	4	11	100.0
TOTAL						7	4	11	100.0

```

-----
Level Of Service Computation Report
2000 HCM Unsignalized Method (Future Volume Alternative)
*****
Intersection #1 Madison Street/Avenue 51
*****
Average Delay (sec/veh):      0.5 Worst Case Level Of Service:      B[ 10.7]
*****
Approach:      North Bound      South Bound      East Bound      West Bound
Movement:      L - T - R      L - T - R      L - T - R      L - T - R
-----|-----|-----|-----|
Control:      Uncontrolled      Uncontrolled      Stop Sign      Stop Sign
Rights:      Include      Include      Include      Include
Lanes:      0 0 1 0 0      0 0 1! 0 0      1 0 0 1 0      0 0 1! 0 0
-----|-----|-----|-----|
Volume Module:
Base Vol:      0 269 0      8 186 4      1 0 2      4 0 10
Growth Adj:  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
Initial Bse:  0 269 0      8 186 4      1 0 2      4 0 10
Added Vol:    0 2 0      0 4 0      0 0 0      0 0 0
PasserByVol:  0 0 0      0 0 0      0 0 0      0 0 0
Initial Fut:  0 271 0      8 190 4      1 0 2      4 0 10
User Adj:    1.05 1.05 1.05  1.05 1.05 1.05  1.05 1.05 1.05  1.05 1.05 1.05
PHF Adj:     1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00  1.00 1.00 1.00
PHF Volume:   0 285 0      8 200 4      1 0 2      4 0 11
Reduct Vol:   0 0 0      0 0 0      0 0 0      0 0 0
Final Vol.:  0 285 0      8 200 4      1 0 2      4 0 11
Critical Gap Module:
Critical Gp:  xxxxx xxxx xxxxx  4.1 xxxx xxxxx  7.1 xxxx  6.2  7.1 xxxx  6.2
FollowUpTim: xxxxxx xxxx xxxxxx  2.2 xxxx xxxxxx  3.5 xxxxx  3.3  3.5 xxxxx  3.3
-----|-----|-----|-----|
Capacity Module:
Cnflct Vol:  xxxxx xxxx xxxxxx  285 xxxx xxxxxx  508 xxxxx  202  504 xxxxx  285
Potent Cap.: xxxxx xxxx xxxxxx  1289 xxxx xxxxxx  478 xxxxx  844  482 xxxxx  759
Move Cap.:   xxxxx xxxx xxxxxx  1289 xxxx xxxxxx  469 xxxxx  844  478 xxxxx  759
Volume/Cap:  xxxxx xxxx xxxxx  0.01 xxxxx xxxxx  0.00 xxxxx  0.00  0.01 xxxxx  0.01
-----|-----|-----|-----|
Level Of Service Module:
Queue:      xxxxx xxxx xxxxxx  0.0 xxxx xxxxxx  0.0 xxxxx xxxxxx xxxxxx xxxx xxxxxx
Stopped Del: xxxxx xxxx xxxxxx  7.8 xxxx xxxxxx  12.7 xxxxx xxxxxx xxxxxx xxxx xxxxxx
LOS by Move: * * *      A * *      B * *      * * *
Movement:   LT - LTR - RT  LT - LTR - RT  LT - LTR - RT  LT - LTR - RT
Shared Cap.: xxxxx xxxx xxxxxx  xxxxx xxxx xxxxxx  xxxxx xxxxx  844  xxxxx  650 xxxxxx
SharedQueue: xxxxxx xxxx xxxxxx  xxxxxx xxxx xxxxxx  xxxxxx xxxxx  0.0 xxxxxx  0.1 xxxxxx
Shrd StpDel: xxxxxx xxxx xxxxxx  xxxxxx xxxx xxxxxx  xxxxxx xxxxx  9.3 xxxxxx  10.7 xxxxxx
Shared LOS:  * * *      * * *      * * *      A * *
ApproachDel: xxxxxxxx      xxxxxxxx      10.4      10.7
ApproachLOS: *      *      B      B

```

```

-----
Level Of Service Computation Report
2000 HCM Unsignalized Method (Future Volume Alternative)
*****
Intersection #2 Madison Street/Project Entrance
*****
Average Delay (sec/veh):      0.2   Worst Case Level Of Service:      B[ 10.5]
*****
Approach:      North Bound      South Bound      East Bound      West Bound
Movement:      L - T - R      L - T - R      L - T - R      L - T - R
-----|-----|-----|-----|
Control:      Uncontrolled      Uncontrolled      Stop Sign      Stop Sign
Rights:      Include      Include      Include      Include
Lanes:      0 1 0 0 0      0 0 0 1 0      1 0 0 0 1      0 0 0 0 0
-----|-----|-----|-----|
Volume Module:
Base Vol:      0 270 0 0 192 0 0 0 0 0 0 0 0
Growth Adj:  1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
Initial Bse:  0 270 0 0 192 0 0 0 0 0 0 0 0
Added Vol:    4 0 0 0 0 4 2 0 2 0 0 0 0
PasserByVol:  0 0 0 0 0 0 0 0 0 0 0 0 0
Initial Fut:  4 270 0 0 192 4 2 0 2 0 0 0 0
User Adj:    1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05
PHF Adj:     1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
PHF Volume:   4 284 0 0 202 4 2 0 2 0 0 0 0
Reduct Vol:   0 0 0 0 0 0 0 0 0 0 0 0 0
Final Vol.:  4 284 0 0 202 4 2 0 2 0 0 0 0
Critical Gap Module:
Critical Gp:  4.1 xxxx xxxxx xxxxx xxxx xxxxx 6.4 xxxx 6.2 xxxxx xxxx xxxxx
FollowUpTim:  2.2 xxxx xxxxx xxxxx xxxx xxxxx 3.5 xxxx 3.3 xxxxx xxxx xxxxx
-----|-----|-----|-----|
Capacity Module:
Cnflct Vol:  206 xxxx xxxxx xxxxx xxxx xxxxx 496 xxxx 204 xxxx xxxx xxxxx
Potent Cap.: 1378 xxxx xxxxx xxxxx xxxx xxxxx 537 xxxx 842 xxxx xxxx xxxxx
Move Cap.:   1378 xxxx xxxxx xxxxx xxxx xxxxx 536 xxxx 842 xxxx xxxx xxxxx
Volume/Cap:  0.00 xxxx xxxx xxxxx xxxx xxxxx 0.00 xxxx 0.00 xxxx xxxx xxxxx
-----|-----|-----|-----|
Level Of Service Module:
Queue:      0.0 xxxx xxxxx xxxxx xxxx xxxxx 0.0 xxxx 0.0 xxxxx xxxx xxxxx
Stopped Del: 7.6 xxxx xxxxx xxxxx xxxx xxxxx 11.7 xxxx 9.3 xxxxx xxxx xxxxx
LOS by Move: A * * * * * B * A * * *
Movement:   LT - LTR - RT  LT - LTR - RT  LT - LTR - RT  LT - LTR - RT
Shared Cap.: xxxx xxxx xxxxx xxxxx xxxx xxxxx xxxxx xxxx xxxxx xxxx xxxx xxxxx
SharedQueue: 0.0 xxxx xxxxx xxxxx xxxx xxxxx xxxxx xxxx xxxxx xxxx xxxx xxxxx
Shrd StpDel: 7.6 xxxx xxxxx xxxxx xxxx xxxxx xxxxx xxxx xxxxx xxxx xxxx xxxxx
Shared LOS:  A * * * * * B * A * * *
ApproachDel: xxxxxx xxxxxx 10.5 xxxxxx
ApproachLOS: * * B *

```

AM Year 2014 Plus Project Fri Nov 5, 2010 11:35:15

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Scenario Report

Scenario:	AM Year 2014 Plus Project
Command:	AM Year 2014 Plus Project
Volume:	AM Peak Hour
Geometry:	Existing
Impact Fee:	Default Impact Fee
Trip Generation:	AM Peak Hour
Trip Distribution:	Project
Paths:	Default Paths
Routes:	Default Routes
Configuration:	AM Year 2014 Plus Project

AM Year 2014 Plus Project Fri Nov 5, 2010 11:35:15

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Trip Generation Report

Forecast for AM Peak Hour

Zone #	Subzone	Amount	Units	Rate In	Rate Out	Trips In	Trips Out	Total Trips	% Of Total
1	Tract 36279	1.00	Tract 36279	7.00	20.00	7	20	27	100.0
	Zone 1 Subtotal					7	20	27	100.0
TOTAL						7	20	27	100.0

```

-----
Level Of Service Computation Report
2000 HCM Unsignalized Method (Future Volume Alternative)
*****
Intersection #1 Madison Street/Avenue 51
*****
Average Delay (sec/veh):      0.3 Worst Case Level Of Service:      B[ 11.2]
*****
Approach:      North Bound      South Bound      East Bound      West Bound
Movement:      L - T - R      L - T - R      L - T - R      L - T - R
-----
Control:      Uncontrolled      Uncontrolled      Stop Sign      Stop Sign
Rights:      Include      Include      Include      Include
Lanes:      0 0 1! 0 0      0 0 1! 0 0      1 0 0 1 0      0 0 0 0 1
-----
Volume Module:
Base Vol:      2 183      1 6 185      1 3 0      1 0 0 1
Growth Adj:  1.04 1.04 1.04 1.04 1.04 1.04 1.04 1.04 1.04 1.04 1.04 1.04
Initial Bse:  2 190      1 6 192      1 3 0      1 0 0 1
Added Vol:    0 10      0 0 4      0 0 0      0 0 0 0
PasserByVol:  0 0      0 0 0      0 0 0      0 0 0 0
Initial Fut:  2 200      1 6 196      1 3 0      1 0 0 1
User Adj:    1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05
PHF Adj:     1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
PHF Volume:   2 210      1 7 206      1 3 0      1 0 0 1
Reduct Vol:   0 0      0 0 0      0 0 0      0 0 0 0
Final Vol.:  2 210      1 7 206      1 3 0      1 0 0 1
Critical Gap Module:
Critical Gp:  4.1 xxxx xxxxxx 4.1 xxxx xxxxxx 7.1 xxxx 6.2 xxxxxx xxxx 6.2
FollowUpTim:  2.2 xxxx xxxxxx 2.2 xxxx xxxxxx 3.5 xxxx 3.3 xxxxxx xxxx 3.3
-----
Capacity Module:
Cnflct Vol:  207 xxxx xxxxxx 211 xxxx xxxxxx 436 xxxx 207 xxxx xxxxxx 211
Potent Cap.: 1376 xxxx xxxxxx 1371 xxxx xxxxxx 534 xxxx 839 xxxx xxxxxx 834
Move Cap.:   1376 xxxx xxxxxx 1371 xxxx xxxxxx 531 xxxx 839 xxxx xxxxxx 834
Volume/Cap:  0.00 xxxx xxxxxx 0.00 xxxx xxxxxx 0.01 xxxx 0.00 xxxx xxxxxx 0.00
-----
Level Of Service Module:
Queue:      0.0 xxxx xxxxxx 0.0 xxxx xxxxxx 0.0 xxxx xxxxxx xxxxxx xxxx 0.0
Stopped Del: 7.6 xxxx xxxxxx 7.6 xxxx xxxxxx 11.8 xxxx xxxxxx xxxxxx xxxx 9.3
LOS by Move: A * * * A * * * B * * * * * A
Movement:   LT - LTR - RT LT - LTR - RT LT - LTR - RT LT - LTR - RT
Shared Cap.: xxxx xxxx xxxxxx xxxx xxxx xxxxxx xxxx xxxx 839 xxxx xxxx xxxxxx
SharedQueue:xxxxxx xxxx xxxxxx xxxxxx xxxx xxxxxx xxxxxx xxxx 0.0 xxxxxx xxxx xxxxxx
Shrd StpDel:xxxxxx xxxx xxxxxx xxxxxx xxxx xxxxxx xxxxxx xxxx 9.3 xxxxxx xxxx xxxxxx
Shared LOS:  * * * * * * * * A * * *
ApproachDel: xxxxxx      xxxxxx      11.2      9.3
ApproachLOS: *          *          B          A

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Level Of Service Computation Report
2000 HCM Unsignalized Method (Future Volume Alternative)
*****
Intersection #2 Madison Street/Project Entrance
*****
Average Delay (sec/veh):      0.6 Worst Case Level Of Service:      B[ 10.2]
*****
Approach:      North Bound      South Bound      East Bound      West Bound
Movement:      L - T - R      L - T - R      L - T - R      L - T - R
-----
Control:      Uncontrolled      Uncontrolled      Stop Sign      Stop Sign
Rights:      Include      Include      Include      Include
Lanes:      0 1 0 0 0      0 0 0 1 0      1 0 0 0 1      0 0 0 0 0
-----
Volume Module:
Base Vol:      0 186      0 0 186      0 0 0 0      0 0 0 0
Growth Adj:  1.04 1.04 1.04 1.04 1.04 1.04 1.04 1.04 1.04 1.04 1.04 1.04
Initial Bse:  0 193      0 0 193      0 0 0 0      0 0 0 0
Added Vol:    4 0      0 0 0 4      10 0 10      0 0 0 0
PasserByVol:  0 0      0 0 0 0      0 0 0 0      0 0 0 0
Initial Fut:  4 193      0 0 193      4 10 0 10      0 0 0 0
User Adj:    1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05
PHF Adj:     1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
PHF Volume:   4 203      0 0 203      4 11 0 11      0 0 0 0
Reduct Vol:   0 0      0 0 0 0      0 0 0 0      0 0 0 0
Final Vol.:   4 203      0 0 203      4 11 0 11      0 0 0 0
Critical Gap Module:
Critical Gp:  4.1 xxxxx xxxxxx xxxxxx xxxxx xxxxxx      6.4 xxxxx 6.2 xxxxxx xxxxx xxxxxx
FollowUpTim:  2.2 xxxxx xxxxxx xxxxxx xxxxx xxxxxx      3.5 xxxxx 3.3 xxxxxx xxxxx xxxxxx
-----
Capacity Module:
Cnflict Vol:  207 xxxxx xxxxxx xxxxx xxxxx xxxxxx      417 xxxxx 205 xxxxx xxxxx xxxxxx
Potent Cap.: 1376 xxxxx xxxxxx xxxxx xxxxx xxxxxx      596 xxxxx 840 xxxxx xxxxx xxxxxx
Move Cap.:   1376 xxxxx xxxxxx xxxxx xxxxx xxxxxx      595 xxxxx 840 xxxxx xxxxx xxxxxx
Volume/Cap:  0.00 xxxxx xxxxx xxxxx xxxxx xxxxx      0.02 xxxxx 0.01 xxxxx xxxxx xxxxx
-----
Level Of Service Module:
Queue:      0.0 xxxxx xxxxxx xxxxxx xxxxx xxxxxx      0.1 xxxxx 0.0 xxxxxx xxxxx xxxxxx
Stopped Del: 7.6 xxxxx xxxxxx xxxxxx xxxxx xxxxxx      11.2 xxxxx 9.3 xxxxxx xxxxx xxxxxx
LOS by Move: A * * * * * B * A * * *
Movement:   LT - LTR - RT      LT - LTR - RT      LT - LTR - RT      LT - LTR - RT
Shared Cap.: xxxxx xxxxx xxxxxx xxxxx xxxxx xxxxxx xxxxx xxxxx xxxxxx xxxxx xxxxx xxxxxx
SharedQueue: 0.0 xxxxx xxxxxx xxxxxx xxxxx xxxxxx xxxxxx xxxxx xxxxxx xxxxxx xxxxx xxxxxx
Shrd StpDel: 7.6 xxxxx xxxxxx xxxxxx xxxxx xxxxxx xxxxxx xxxxx xxxxxx xxxxxx xxxxx xxxxxx
Shared LOS:  A * * * * * * * * * * *
ApproachDel: xxxxxx xxxxxx xxxxxx      10.2 xxxxxx
ApproachLOS: * * * * * B *

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PM Year 2014 Plus Project Fri Nov 5, 2010 11:35:38

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Scenario Report

Scenario: PM Year 2014 Plus Project

Command: PM Year 2014 Plus Project

Volume: PM Peak Hour

Geometry: Existing

Impact Fee: Default Impact Fee

Trip Generation: PM Peak Hour

Trip Distribution: Project

Paths: Default Paths

Routes: Default Routes

Configuration: PM Year 2014 Plus Project

PM Year 2014 Plus Project Fri Nov 5, 2010 11:35:38

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Trip Generation Report

Forecast for PM Peak Hour

Zone #	Subzone	Amount	Units	Rate In	Rate Out	Trips In	Trips Out	Total Trips	% Of Total
1	Tract 36279	1.00	Tract 36279	7.00	4.00	7	4	11	100.0
	Zone 1 Subtotal					7	4	11	100.0
TOTAL						7	4	11	100.0

Level Of Service Computation Report

2000 HCM Unsignalized Method (Future Volume Alternative)

 Intersection #1 Madison Street/Avenue 51

Average Delay (sec/veh): 0.5 Worst Case Level Of Service: B[10.8]

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Uncontrolled			Uncontrolled			Stop Sign			Stop Sign		
Rights:	Include			Include			Include			Include		
Lanes:	0	0	1	0	0	0	1	0	0	1	0	0

Volume Module:

Base Vol:	0	269	0	8	186	4	1	0	2	4	0	10
Growth Adj:	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04
Initial Bse:	0	280	0	8	193	4	1	0	2	4	0	10
Added Vol:	0	2	0	0	4	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	0	282	0	8	197	4	1	0	2	4	0	10
User Adj:	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	0	296	0	9	207	4	1	0	2	4	0	11
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Final Vol.:	0	296	0	9	207	4	1	0	2	4	0	11

Critical Gap Module:

Critical Gp:	xxxxx	xxxx	xxxxx	4.1	xxxx	xxxxx	7.1	xxxx	6.2	7.1	xxxx	6.2
FollowUpTim:	xxxxx	xxxx	xxxxx	2.2	xxxx	xxxxx	3.5	xxxx	3.3	3.5	xxxx	3.3

Capacity Module:

Cnflct Vol:	xxxx	xxxx	xxxxx	296	xxxx	xxxxx	528	xxxx	209	524	xxxx	296
Potent Cap.:	xxxx	xxxx	xxxxx	1277	xxxx	xxxxx	464	xxxx	836	467	xxxx	748
Move Cap.:	xxxx	xxxx	xxxxx	1277	xxxx	xxxxx	455	xxxx	836	463	xxxx	748
Volume/Cap:	xxxx	xxxx	xxxx	0.01	xxxx	xxxx	0.00	xxxx	0.00	0.01	xxxx	0.01

Level Of Service Module:

Queue:	xxxxxx	xxxx	xxxxxx	0.0	xxxx	xxxxxx	0.0	xxxx	xxxxxx	xxxxxx	xxxx	xxxxxx
Stopped Del:	xxxxxx	xxxx	xxxxxx	7.8	xxxx	xxxxxx	12.9	xxxx	xxxxxx	xxxxxx	xxxx	xxxxxx
LOS by Move:	*	*	*	A	*	*	B	*	*	*	*	*
Movement:	LT	LTR	RT	LT	LTR	RT	LT	LTR	RT	LT	LTR	RT
Shared Cap.:	xxxx	xxxx	xxxxxx	xxxx	xxxx	xxxxxx	xxxx	xxxx	836	xxxx	637	xxxxxx
SharedQueue:	xxxxxx	xxxx	xxxxxx	xxxxxx	xxxx	xxxxxx	xxxxxx	xxxx	0.0	xxxxxx	0.1	xxxxxx
Shrd StpDel:	xxxxxx	xxxx	xxxxxx	xxxxxx	xxxx	xxxxxx	xxxxxx	xxxx	9.3	xxxxxx	10.8	xxxxxx
Shared LOS:	*	*	*	*	*	*	*	*	A	*	B	*
ApproachDel:	xxxxxxx			xxxxxxx			10.5			10.8		
ApproachLOS:	*			*			B			B		

Level of Service Computation Report

2000 HCM Unsignalized Method (Future Volume Alternative)

 Intersection #2 Madison Street/Project Entrance

Average Delay (sec/veh): 0.1 Worst Case Level Of Service: B[10.6]

Approach:	North Bound			South Bound			East Bound			West Bound							
Movement:	L	T	R	L	T	R	L	T	R	L	T	R					
Control:	Uncontrolled			Uncontrolled			Stop Sign			Stop Sign							
Rights:	Include			Include			Include			Include							
Lanes:	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0

Volume Module:

Base Vol:	0	270	0	0	192	0	0	0	0	0	0	0
Growth Adj:	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04
Initial Bse:	0	281	0	0	200	0	0	0	0	0	0	0
Added Vol:	4	0	0	0	0	4	2	0	2	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	4	281	0	0	200	4	2	0	2	0	0	0
User Adj:	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	4	295	0	0	210	4	2	0	2	0	0	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Final Vol.:	4	295	0	0	210	4	2	0	2	0	0	0

Critical Gap Module:

Critical Gp:	4.1	xxxx	xxxxxx	xxxxxx	xxxx	xxxxxx	6.4	xxxx	6.2	xxxxxx	xxxx	xxxxxx
FollowUpTim:	2.2	xxxx	xxxxxx	xxxxxx	xxxx	xxxxxx	3.5	xxxx	3.3	xxxxxx	xxxx	xxxxxx

Capacity Module:

Cnflct Vol:	214	xxxx	xxxxxx	xxxx	xxxx	xxxxxx	515	xxxx	212	xxxx	xxxx	xxxxxx
Potent Cap.:	1368	xxxx	xxxxxx	xxxx	xxxx	xxxxxx	523	xxxx	833	xxxx	xxxx	xxxxxx
Move Cap.:	1368	xxxx	xxxxxx	xxxx	xxxx	xxxxxx	522	xxxx	833	xxxx	xxxx	xxxxxx
Volume/Cap:	0.00	xxxx	xxxx	xxxx	xxxx	xxxx	0.00	xxxx	0.00	xxxx	xxxx	xxxx

Level of Service Module:

Queue:	0.0	xxxx	xxxxxx	xxxxxx	xxxx	xxxxxx	0.0	xxxx	0.0	xxxxxx	xxxx	xxxxxx			
Stopped Del:	7.6	xxxx	xxxxxx	xxxxxx	xxxx	xxxxxx	11.9	xxxx	9.3	xxxxxx	xxxx	xxxxxx			
LOS by Move:	A	*	*	*	*	*	B	*	A	*	*	*			
Movement:	LT	-	LTR	-	RT	LT	-	LTR	-	RT	LT	-	LTR	-	RT
Shared Cap.:	xxxx	xxxx	xxxxxx	xxxx	xxxx	xxxxxx	xxxx	xxxx	xxxxxx	xxxx	xxxx	xxxxxx			
SharedQueue:	0.0	xxxx	xxxxxx	xxxxxx	xxxx	xxxxxx	xxxxxx	xxxx	xxxxxx	xxxxxx	xxxx	xxxxxx			
Shrd StpDel:	7.6	xxxx	xxxxxx	xxxxxx	xxxx	xxxxxx	xxxxxx	xxxx	xxxxxx	xxxxxx	xxxx	xxxxxx			
Shared LOS:	A	*	*	*	*	*	*	*	*	*	*	*			
ApproachDel:	xxxxxx			xxxxxx			10.6			xxxxxx					
ApproachLOS:	*			*			B			*					