

APPENDIX D

Traffic Impact Analysis



TRAFFIC IMPACT ANALYSIS
CALEXICO SOLAR FARM I
County of Imperial, California
July 8, 2011

LLG Ref. 3-11-2034

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TRAFFIC IMPACT ANALYSIS
CALEXICO SOLAR FARM I
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1.0 INTRODUCTION

The following traffic impact analysis has been prepared to determine the potential impacts to the local circulations system due to truck and employee traffic related to construction of the proposed Calexico Solar Farm I project in the County of Imperial, California. Once constructed, the project will generate a minimal amount of traffic related to operations and maintenance. Therefore, the focus of this analysis is on the potential traffic impacts related to construction. This report includes the following sections:

- Project Description
- Existing Conditions
- Analysis Approach and Methodology
- Significance Criteria
- Analysis of Existing Condition
- Trip Generation / Distribution / Assignment
- Analysis of Construction Year Conditions
- Post-Construction Operations
- Project Access
- Significance of Impacts and Mitigation Measures

Figure 1-1 depicts the project vicinity. *Figure 1-2* depicts the project area map.

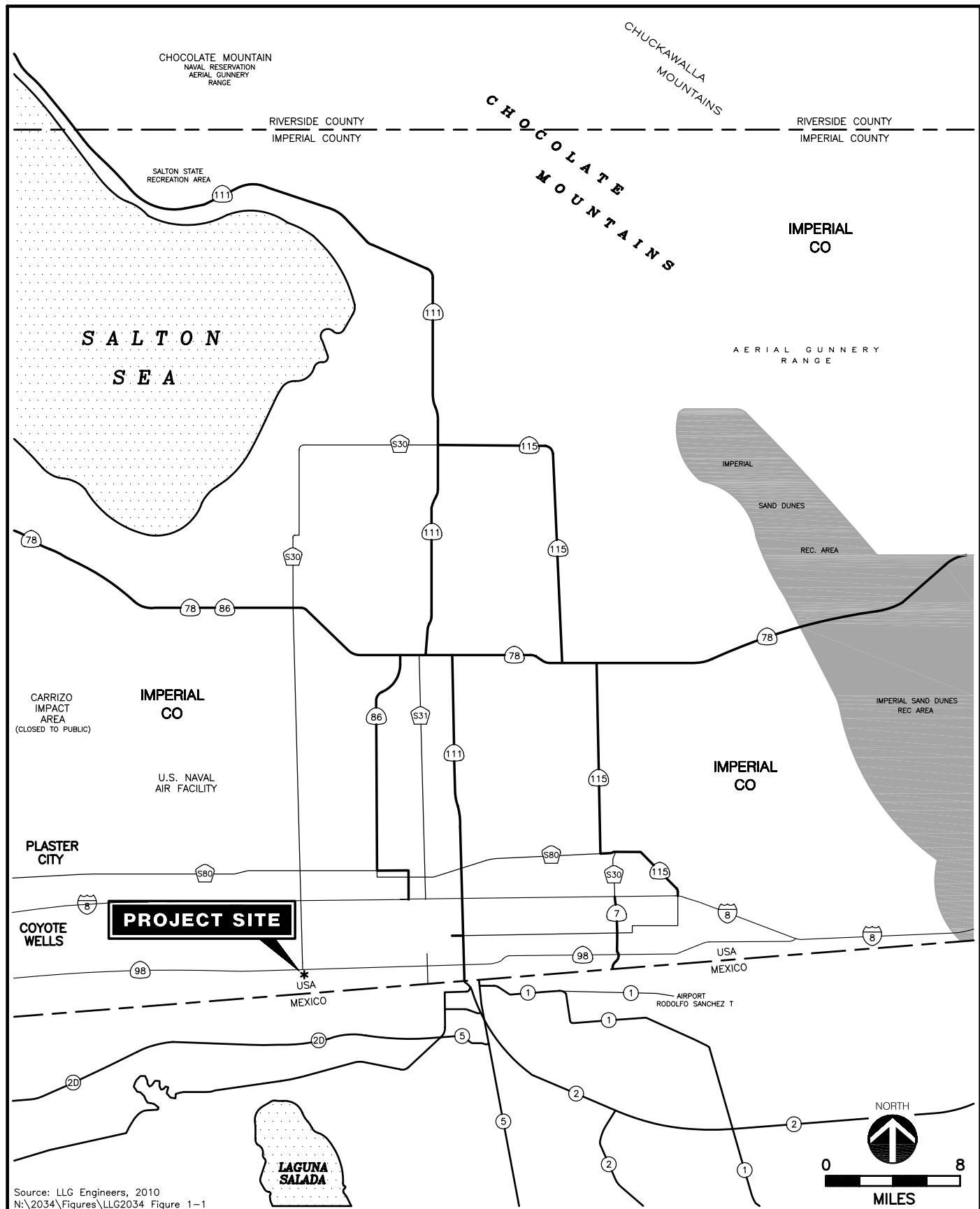


Figure 1-1
Vicinity Map

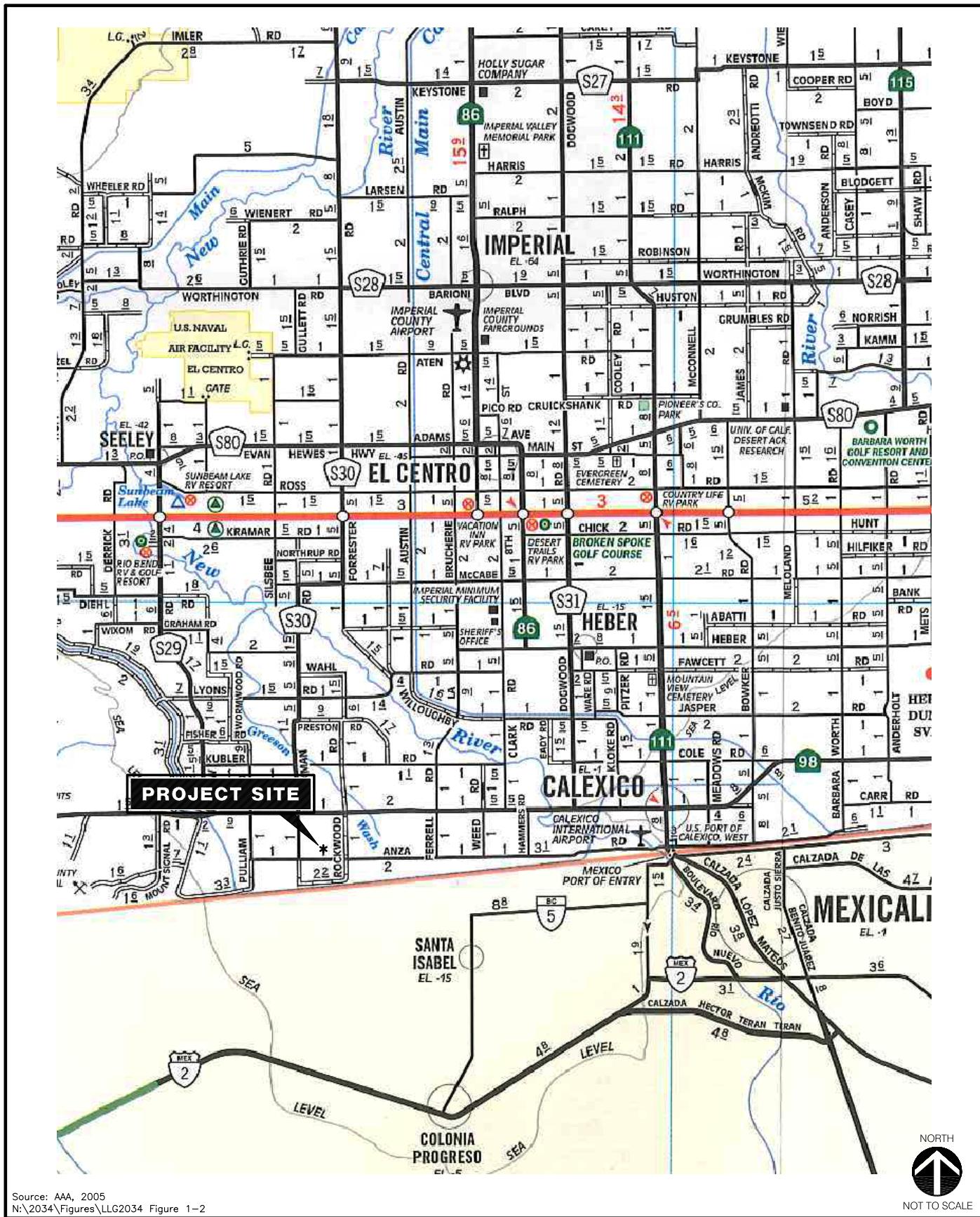


Figure 1-2

Project Area Map

2.0 PROJECT DESCRIPTION

2.1 Project Location

The project is comprised of six parcels totaling 1,333 acres situated about 5 miles west of the City of Calexico in Imperial County, California. The six parcels are all located generally south of SR 98 and north of the United States/Mexico International Border. The current use is irrigated agriculture.

2.2 Project Description

The proposed Calexico Solar Farm I project would construct a 200 megawatt (MW) photovoltaic plant on disturbed farm land in Imperial County. The project is planned to be developed in two sequential phases: *Phase A* and *Phase B*, each planned to generate 100 MW. However, each phase may produce up to 200 MW if the other phase either does not get built at all or does not get built for its full 100 MW share. The total output of both phases combined will not exceed a total of 200 MW in any scenario. The project proposes the two phases to be constructed sequentially, however the traffic generated by the parallel construction of both phases was assumed in the analysis for the purpose of being conservative.

The phased construction is anticipated to begin in the third quarter of 2013, and is expected to take about 6-9 months. Construction traffic will consist of both truck traffic and employee traffic, and will comprise the majority of traffic associated with development and operation of the project.

Primary access to the site for each phase of construction will be provided as paved, public road access via SR 98 and Brockman Road. For the purposes of this analysis, all traffic was assumed to use a single access point at the SR 98/Brockman Road intersection. This provides the most conservative analysis since it assumes the highest concentration of traffic at one location.

Each phase will have its own post-construction Operations and Maintenance (O&M) comprised of 3 on-site staff members during normal business hours, plus one security guard on-site during each of three daily shifts: 1st watch, 2nd watch and 3rd watch. Alternatively, the two sites may share O&M personnel which could require up to 7 on-site staff members during normal business hours (total for both phases combined), plus one security guard during each of the three daily shifts. Operations and maintenance traffic will be a small percentage of the short-term traffic associated with the project's construction.

3.0 EXISTING CONDITIONS

3.1 Existing Street Network

Following is a brief description of the street segments within the project area. *Figure 3-1* illustrates the existing conditions, including the lane geometry, for the key intersections in the study area.

SR 98 is classified as a State Highway/Expressway on the Imperial County General Plan Circulation Element. Within the project area, SR 98 is constructed as a two-lane undivided east-west roadway, providing one lane of travel per direction. Bike lanes are provided. No bus stops are provided, and parking is not permitted along either side of the roadway. The posted speed limit is 40 mph.

McCabe Road is classified as a Major Collector on the Imperial County General Plan Circulation Element west of La Brucherie Road and as a Minor Arterial east of La Brucherie Road up to SR 111. Within the project area, McCabe Road is constructed as a two-lane undivided east-west roadway, providing one lane of travel per direction. No bike lanes or bus stops are provided, and parking is not permitted along either side of the roadway. There is no speed limit is posted in the vicinity of the project site.

La Brucherie Road is classified as a Major Collector on the Imperial County General Plan Circulation Element between the El Centro City Limits and Kubler Road. Within the project area, La Brucherie Road is constructed as a two-lane undivided north-south roadway, providing one lane of travel per direction. No bike lanes or bus stops are provided, and parking is not permitted along either side of the roadway. There is no speed limit is posted in the vicinity of the project site.

Ferrell Road is classified as a Major Collector on the Imperial County General Plan Circulation Element between Kubler Road and SR 98. Within the project area, Ferrell Road is constructed as a two-lane undivided north-south roadway, providing one lane of travel per direction. No bike lanes or bus stops are provided, and parking is not permitted along either side of the roadway. There is no speed limit is posted in the vicinity of the project site.

Brockman Road (S30) is classified as a Major Collector on the Imperial County General Plan Circulation Element. Within the project area, Brockman Road is constructed as a two-lane undivided north-south roadway, providing one lane of travel per direction. No bike lanes or bus stops are provided, and parking is not permitted along either side of the roadway. There is no speed limit is posted in the vicinity of the project site.

3.2 Existing Traffic Volumes

3.2.1 Peak Hour Intersection Turning Movement Volumes

LLG engineers commissioned AM and PM peak hour intersection turning movement volume counts in October 2010 at the following locations:

- La Brucherie Road/ McCabe Road
- SR 98/ Brockman Road
- SR 98/ Ferrell Road

Figure 3-2 depicts the peak hour intersection turning movement volumes at all the study area intersections.

3.2.2 Segment Volumes

Daily traffic (ADT) volume counts were commissioned by LLG in October 2010 and obtained from Caltrans 2009 traffic volume data.

Figure 3-2 depicts the segment ADT volumes at all the study area segments. **Table 3-1** summarizes the segment ADT volumes on all the study area segments.

Appendix A contains the manual intersection and segment count sheets and Caltrans 2009 traffic volumes.

TABLE 3-1
EXISTING TRAFFIC VOLUMES

Street Segment	Source	Date	ADT ^a
Brockman Road			
Lyons Road to Kubler Road	LLG	2010	180
Ferrell Road			
Kubler Road to SR 98	LLG	2010	800
SR 98			
Pulliam Road to Brockman Road	Caltrans	2009	2,350
Brockman Road to Ferrell Road	LLG	2010	1,730
East of Ferrell Road	Caltrans	2009	2,650

Footnotes:

a. Average Daily Traffic Volume.

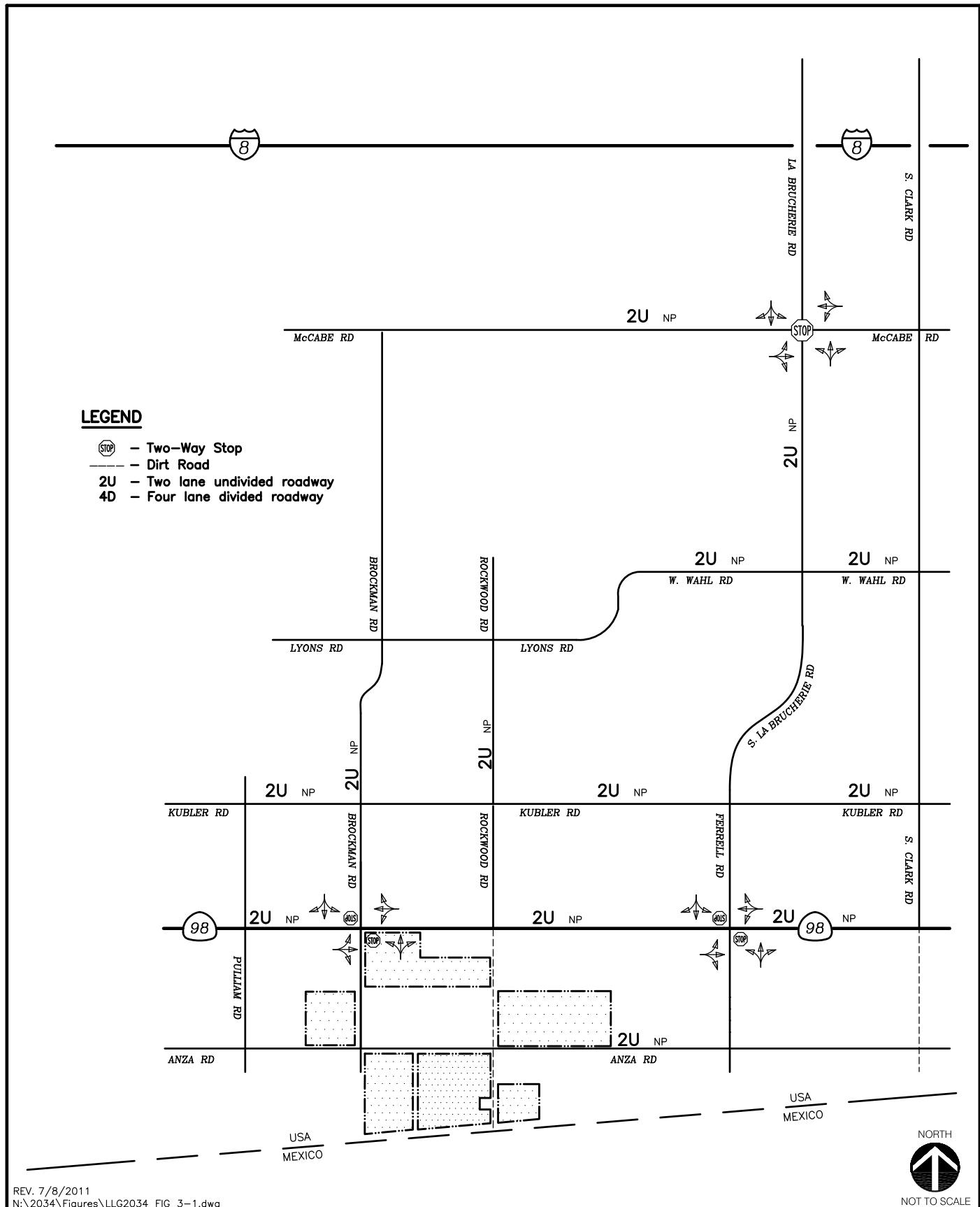


Figure 3-1
Existing Conditions Diagram

CALEXICO SOLAR FARM I

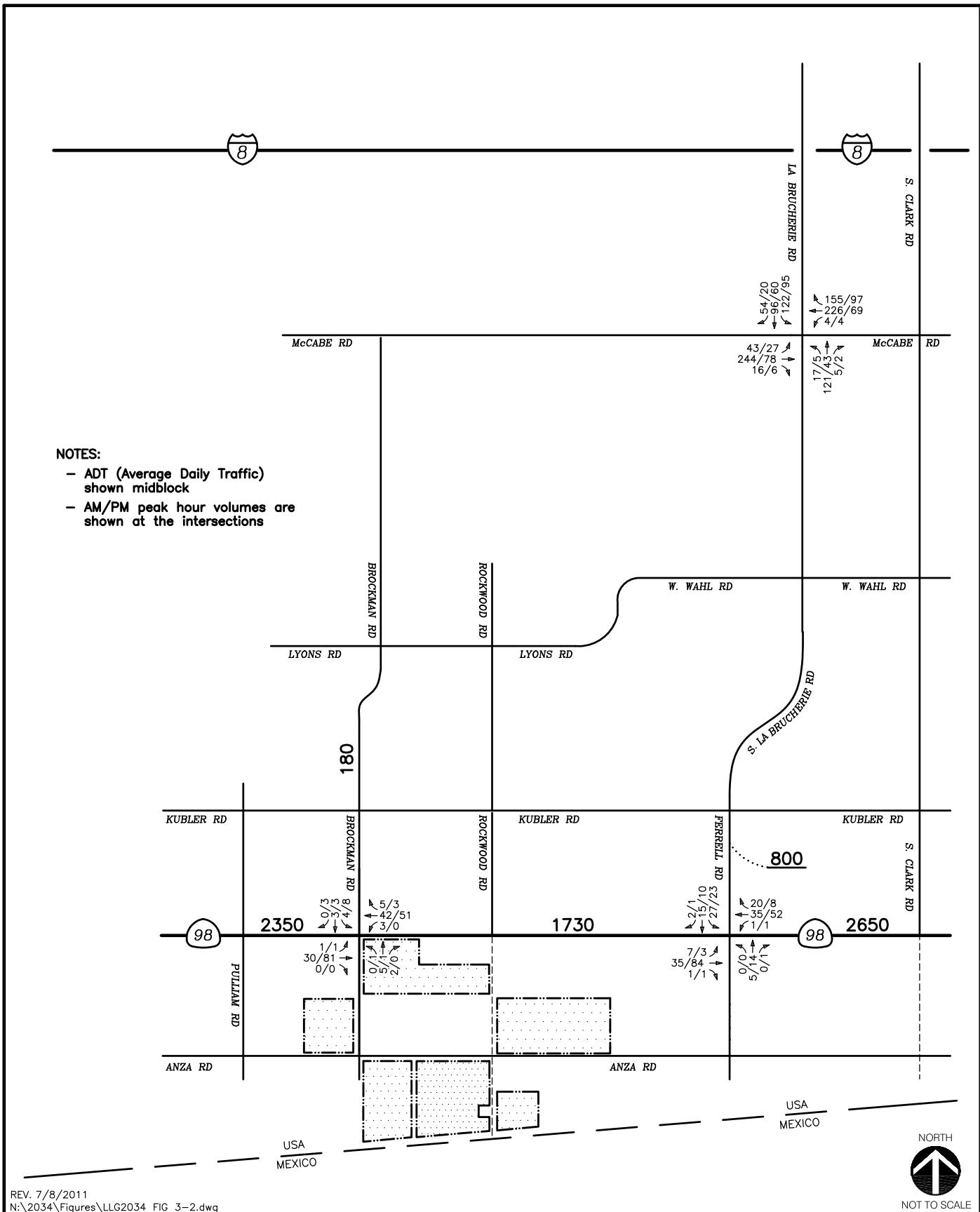


Figure 3-2

**Existing Traffic Volumes
AM/PM Peak Hours & ADT**

CALEXICO SOLAR FARM I

4.0 ANALYSIS APPROACH AND METHODOLOGY

This report analyzes the effects of the construction portion of the development of the proposed project, based on the limited traffic contribution of the project during the subsequent Operations and Maintenance phase (see *Section 7.0* for more information related to project trip generation). For the purpose of being conservative, the parallel construction of both project phases is assumed in the quantitative analyses completed for key off-site intersections and roadway segments in the study area affected by construction project traffic.

Analyses of the existing roadway volumes and network (Year 2010) have been completed for reference. Since construction of both phases of the proposed project are scheduled for 2013, existing volumes have been increased by a 5% growth factor to account for any cumulative project development that may occur between 2010 (date of traffic counts) and 2013. In addition, conservative traffic volume assignments for several alternative energy projects proposed in Imperial County have been included in the *Baseline Without Construction Project* condition. *Section 8.0* discusses the *Baseline Without Construction Project* condition in further detail. Analyses have been prepared for the following scenarios:

- *Existing* (Year 2010)
- *Baseline Without Construction Project* (Year 2013)
- *Baseline With Total Construction Project* (Year 2013)

Given the very limited traffic associated with the alternatively proposed *Shared Operations and Maintenance* of the project (80 ADT), no long-term cumulative analyses would be deemed necessary.

The operations of the project area intersections and segments are characterized using the concept of “Level of Service” (LOS). LOS is the term used to denote the different operating conditions which occur on a given roadway segment under various traffic volume loads. It is a qualitative measure used to describe a quantitative analysis taking into account factors such as roadway geometries, signal phasing, speed, travel delay, freedom to maneuver, and safety. LOS provides an index to the operational qualities of a roadway segment or an intersection. LOS designations range from A through F, with LOS A representing the best operating conditions and LOS F representing the worst operating conditions. LOS designation is reported differently for signalized and unsignalized intersections, as well as for roadway segments.

Table 4-1 summarizes the description for each level of service.

4.1 Unsignalized Intersections

For unsignalized intersections, level of service is determined by the computed or measured control delay and is defined for each minor movement. Level of service is not defined for the intersection as a whole. **Table 4-2** depicts the criteria, which are based on the Average control delay for any particular minor movement.

Level of Service F exists when there are insufficient gaps of suitable size to allow a side street demand to safely cross through a major street traffic stream. This level of service is generally evident from extremely long control delays experienced by side-street traffic and by queuing on the minor-street approaches. The method, however, is based on a constant critical gap size; that is, the critical gap remains constant no matter how long the side-street motorist waits.

LOS F may also appear in the form of side-street vehicles selecting smaller-than-usual gaps. In such cases, safety may be a problem, and some disruption to the major traffic stream may result. It is important to note that LOS F may not always result in long queues but may result in adjustments to normal gap acceptance behavior, which are more difficult to observe in the field than queuing.

TABLE 4-1
INTERSECTION LEVEL OF SERVICE DESCRIPTIONS

Level of Service	Description
A	Occurs when progression is extremely favorable and most vehicles arrive during the green phase. Most vehicles do not stop at all. Short cycle lengths may also contribute to low delay.
B	Generally occurs with good progression and/or short cycle lengths. More vehicles stop than for LOS A, causing higher levels of average delay.
C	Generally results when there is fair progression and/or longer cycle lengths. Individual cycle failures may begin to appear in this level. The number of vehicles stopping is significant at this level, although many still pass through the intersection without stopping.
D	Generally results in noticeable congestion. Longer delays may result from some combination of unfavorable progression, long cycle lengths, or high volume-to-capacity ratios. Many vehicles stop, and the proportion of vehicles not stopping declines. Individual cycle failures are noticeable.
E	Considered to be the limit of acceptable delay. These high delay values generally indicate poor progression, long cycle lengths, and high volume-to-capacity ratios. Individual cycle failures are frequent occurrences.
F	Considered to be unacceptable to most drivers. This condition often occurs with over saturation i.e. when arrival flow rates exceed the capacity of the intersection. It may also occur at high volume-to-capacity ratios below 1.00 with many individual cycle failures. Poor progression and long cycle lengths may also be major contributing causes to such delay levels.

TABLE 4-2
LEVEL OF SERVICE THRESHOLDS FOR UNSIGNALIZED INTERSECTIONS

Average Control Delay Per Vehicle (Seconds/Vehicle)	Level of Service	Expected Delay to Minor Street Traffic
0.0 ≤ 10.0	A	Little or no delay
10.1 to 15.0	B	Short traffic delays
15.1 to 25.0	C	Average traffic delays
25.1 to 35.0	D	Long traffic delays
35.1 to 50.0	E	Very long traffic delays
≥ 50.0	F	Severe congestion

4.2 Street Segments

Street segments were analyzed based upon the comparison of ADT to the County of Imperial *Roadway Classifications, Levels of Service (LOS) and Average Daily Traffic (ADT)* table (see **Table 4-3** below). **Table 4-3** provides segment capacities for different street classifications, based on traffic volumes and roadway characteristics. Segment analysis is a comparison of ADT volumes and an approximate daily capacity on the subject roadway.

TABLE 4-3
IMPERIAL COUNTY STANDARD STREET CLASSIFICATION AVERAGE DAILY VEHICLE TRIPS

Road		Level of Service W/ADT*				
Class	X-Section	A	B	C	D	E
Expressway	128 / 210	30,000	42,000	60,000	70,000	80,000
Prime Arterial	106 / 136	22,200	37,000	44,600	50,000	57,000
Minor Arterial	82 / 102	14,800	24,700	29,600	33,400	37,000
Major Collector (Collector)	64 / 84	13,700	22,800	27,400	30,800	34,200
Minor Collector (Local Collector)	40 / 70	1,900	4,100	7,100	10,900	16,200
Residential Street	40 / 60	*	*	< 1,500	*	*
Residential Cul-de-Sac / Loop Street	40/60	*	*	< 1,500	*	*
Industrial Collector	76 / 96	5,000	10,000	14,000	17,000	20,000
Industrial Local Street	44 / 64	2,500	5,000	7,000	8,500	10,000

* Levels of service are not applied to residential streets since their primary purpose is to serve abutting lots, not carry through traffic. Levels of service normally apply to roads carrying through traffic between major trip generators and attractors.

5.0 SIGNIFICANCE CRITERIA

5.1 County of Imperial

The County of Imperial does not have published significance criteria. However, the County General Plan does state that the level of service (LOS) goal for intersections and roadway segments is to operate at LOS C or better. Therefore, if an intersection or segment degrades from LOS C or better to LOS D or worse with the addition of project traffic, the impact is considered significant. If the location operates at LOS D or worse with and without project traffic, the impact is considered significant if the project causes the intersection delta to increase by more than two (2) seconds, or the V/C ratio to increase by more than 0.02. These amounts are consistent with those used in the City of El Centro and the County of Imperial in numerous traffic studies.

5.2 Caltrans

A project is considered to have a significant impact if the new project traffic has decreased the operations of surrounding roadways by a defined threshold. The defined thresholds for roadway segments and intersections are defined in **Table 5-1** below. If the project exceeds the thresholds in **Table 5-1**, then the project may be considered to have a significant project impact. A feasible mitigation measure will need to be identified to return the impact within the thresholds (pre-project + allowable increase) or the impact will be considered significant and unmitigated.

TABLE 5-1
TRAFFIC IMPACT SIGNIFICANT THRESHOLDS

Level of Service with Project ^a	Allowable Increase Due to Project Impacts ^b					
	Freeways		Roadway Segments		Intersections	Ramp Metering
	V/C	Speed (mph)	V/C	Speed (mph)	Delay (sec.)	Delay (min.)
D, E & F (or ramp meter delays above 15 minutes)	0.01	1	0.02	1	2	2 ^c

Footnotes:

- All level of service measurements are based upon HCM procedures for peak-hour conditions. However, V/C ratios for Roadway Segments may be estimated on an ADT/24-hour traffic volume basis (using Table 2 or a similar LOS chart for each jurisdiction). The acceptable LOS for freeways, roadways, and intersections is generally "D" ("C" for undeveloped or not densely developed locations per jurisdiction definitions). For metered freeway ramps, LOS does not apply. However, ramp meter delays above 15 minutes are considered excessive.
- If a proposed project's traffic causes the values shown in the table to be exceeded, the impacts are deemed to be significant. These impact changes may be measured from appropriate computer programs or expanded manual spreadsheets. The project applicant shall then identify feasible mitigations (within the Traffic Impact Study [TIS] report) that will maintain the traffic facility at an acceptable LOS. If the LOS with the proposed project becomes unacceptable (see note a above), or if the project adds a significant amount of peak hour trips to cause any traffic queues to exceed on- or off-ramp storage capacities, the project applicant shall be responsible for mitigating significant impact changes.

General Notes:

- V/C = Volume to Capacity Ratio
- Speed = Arterial speed measured in miles per hour
- Delay = Average stopped delay per vehicle measured in seconds for intersections, or minutes for ramp meters.
- LOS = Level of Service

6.0 ANALYSIS OF EXISTING CONDITIONS

6.1 Peak Hour Intersection Levels of Service

The project study area is located in a rural setting and all intersections are unsignalized. As seen in **Table 6-1**, all study area intersections are calculated to currently operate at LOS C or better during both the AM and PM peak hours.

Appendix B contains the *Existing* peak hour intersection analysis worksheets.

TABLE 6-1
EXISTING INTERSECTION OPERATIONS

Intersection	Control Type	Peak Hour	Existing	
			Delay ^a	LOS ^b
La Brucherie Road/ McCabe Road	AWSC ^c	AM	16.5	C
		PM	8.7	A
SR 98/ Ferrell Road	MSSC ^d	AM	9.7	A
		PM	10.0	A
SR 98/ Brockman Road	MSSC	AM	9.3	A
		PM	9.6	A

Footnotes:

- a. Delay per vehicle in seconds
- b. LOS - Level of service
- c. AWSC - All-Way STOP Controlled intersection.
- d. MSSC - Minor street STOP Controlled intersection. Minor street left-turn delay is reported.

UN SIGNALIZED	
Delay	LOS
0.0 < 10.0	A
10.1 to 15.0	B
15.1 to 25.0	C
25.1 to 35.0	D
35.1 to 50.0	E
> 50.1	F

6.2 Daily Street Segment Levels of Service

As described above, the project study area is located in a rural setting and all segments are two-lane facilities. As seen in **Table 6-2**, all study area segments are calculated to currently operate at LOS B or better.

TABLE 6-2
EXISTING STREET SEGMENT OPERATIONS

Street Segment	Functional Roadway Classification ^a	Capacity (LOS E) ^b	ADT ^c	LOS ^d	V/C ^e
Brockman Road Lyons Road to Kubler Road	2-Ln Local Collector	16,200	180	A	0.01
Ferrell Road Kubler Road to SR 98	2-Ln Local Collector	16,200	800	A	0.05
SR 98 Pulliam Road to Brockman Road Brockman Road to Ferrell Road East of Ferrell Road	2-Ln Local Collector 2-Ln Local Collector 2-Ln Local Collector	16,200 16,200 16,200	2,350 1,730 2,650	B A B	0.15 0.11 0.16

Footnotes:

- a. County of Imperial roadway classification
- b. Roadway capacity corresponding to Level of Service E from Imperial County Standard Street Classification, Average Daily Vehicle Trips table.
- c. Average Daily Traffic volumes
- d. Volume / Capacity ratio.
- e. Level of Service

7.0 TRIP GENERATION/DISTRIBUTION/ASSIGNMENT

7.1 Trip Generation

Project traffic generation was determined for *Phase A* and *Phase B* using the methodology developed for a similar solar project in the study area. Each phase of the project consists of two parts: *Construction*, and *Operations and Maintenance (O&M)*. The construction stage is expected to commence in 2013, with opening year planned for 2013 or 2014 (depending on the phase). Trip generation is based on site-specific trip generating characteristics provided by the applicant. For the O&M stage, the following personnel would be expected:

Phase A

- 3 on-site staff daily during normal business hours
- 1 security guard daily, 24-hours a day (3 shifts)

Phase B

- 3 on-site staff daily during normal business hours
- 1 security guard daily, 24-hours a day (3 shifts)

Shared Operations & Maintenance

- 7 on-site staff daily during normal business hours
- 1 security guard daily, 24-hours a day (3 shifts)

The trip generation for the Calexico Solar Farm I project is based on trip generation calculations completed for similar projects in the study area. Assumptions about construction and maintenance and operations traffic characteristics for similar sites were increased accordingly to reflect the anticipated traffic activity associated with development and operations of the proposed project site.

Based on these calculations, *Phase A* of construction (100 MW) would generate 231 ADT by passenger vehicles, with 75 inbound trips during the AM peak hour and 75 outbound trips during the PM peak hour. It would also generate 15 ADT by trucks, with 3 inbound and 3 outbound trips during the AM and PM peak hours, respectively. A passenger car equivalence factor (PCE) of 2.0 is applied to these trips for the purposes of the analysis to account for the reduced performance characteristics (stopping, starting, maneuvering, etc) of heavy vehicles in the traffic flow.

Phase B of construction (100 MW) would generate an equal number of ADT and AM and PM peak hour trips as *Phase A*.

The total construction (*Phases A & B*) would generate a maximum of 462 ADT by passenger vehicles, with 150 inbound trips during the AM peak hour and 150 outbound trips during the PM peak hour. Also, a maximum of 30 ADT could be generated by trucks, with 6 inbound and 6 outbound trips during the AM and PM peak hours, respectively.

As previously mentioned, for purposes of being conservative, the total construction traffic (*Phase A & B*) is assumed in the analysis.

Table 7-1 shows a summary of the construction traffic and O&M traffic.

TABLE 7-1
PROJECT TRIP GENERATION

Trip Type	Daily Total (ADT) ^a	AM Peak Hour			PM Peak Hour			
		In	Out	Total	In	Out	Total	
PHASE A								
Construction								
Vehicles	231	75	0	75	0	75	75	
Trucks	15	3	0	3	0	3	3	
Total (w/PCE^b)	246	78	0	78	0	78	78	
Operations and Maintenance (O&M)								
Vehicles ^c	40	8	2	10	2	8	10	
PHASE B								
Construction								
Vehicles	231	75	0	75	0	75	75	
Trucks	15	3	0	3	0	3	3	
Total (w/PCE^b)	246	78	0	78	0	78	78	
Operations and Maintenance (O&M)								
Vehicles	40	8	2	10	2	8	10	
TOTAL PROJECT (PHASES A & B)								
Total Construction								
Vehicles	462	150	0	150	0	150	150	
Trucks	30	6	0	6	0	6	6	
Total (w/PCE)	522	162	0	162	0	162	162	
Shared Operations and Maintenance (O&M)^d								
Vehicles	80	16	4	20	4	16	20	

General Notes:

- Source: 8minuteenergy Renewables, LLC, and Fehr & Peers, 2010.

Footnotes:

- a. ADT = Average Daily Traffic (24-hour total bi-directional traffic on a roadway segment)
- b. PCE = Passenger Car Equivalent, used to reflect the additional impacts of heavy vehicles in the technical analyses.
- c. Only passenger vehicles are generated during the operations and maintenance stages.
- d. Shared O&M may require up to 7 on-site staff members during normal business hours, plus one security guard during each shift.

Table 7-1 shows that the construction traffic is substantially greater than the O&M traffic, which validates the assertion that analysis of the construction impacts would represent the worst-case potential traffic impacts of the project. The total construction traffic analyzed in this report is the total of *Phases A & B* of 522 ADT, with 162 inbound/0 outbound trips during the AM peak hour, and 0 inbound/162 outbound trips during the PM peak hour.

7.2 Trip Distribution

Regional trip distribution for construction truck traffic was estimated based on information from the applicant that material deliveries will be from the Los Angeles area. **Figure 7-1** shows the distribution of truck traffic, which is primarily oriented along La Brucherie Road and SR 98 in the study area.

It is anticipated that the majority of construction workers will be from the local population centers of Calipatria, El Centro, and Calexico. **Figure 7-2** shows the distribution of construction employee passenger car traffic north, west and east of the site. The majority of employee traffic (95%) is anticipated to be to/from north and east of the site, from the local labor pool utilizing I-8 and SR 98 as their primary routes to work.

For the purposes of this analysis, 100% of the construction traffic was assumed to use the SR 98/ Brockman Road intersection. This provides a worst-case analysis since it focuses the highest intensity of the construction traffic at one location. It should be noted that other access to some parcels may be possible via roadways in close proximity to the project (e.g., Rockwood Road and Anza Road); however no new impacts would be expected given the partial nature of this traffic relative to the worst-case analysis presented in this study.

7.3 Trip Assignment

The trip generation summaries for the total construction shown in *Table 7-1* were multiplied by the related truck and employee distribution percentages shown on *Figures 7-1* and *7-2*, respectively. The total construction truck traffic assignment is shown on **Figure 7-3**. **Figure 7-4** shows the total employee vehicle traffic assignment. **Figure 7-5** depicts the total construction traffic assignment for both *Phases A & B*.

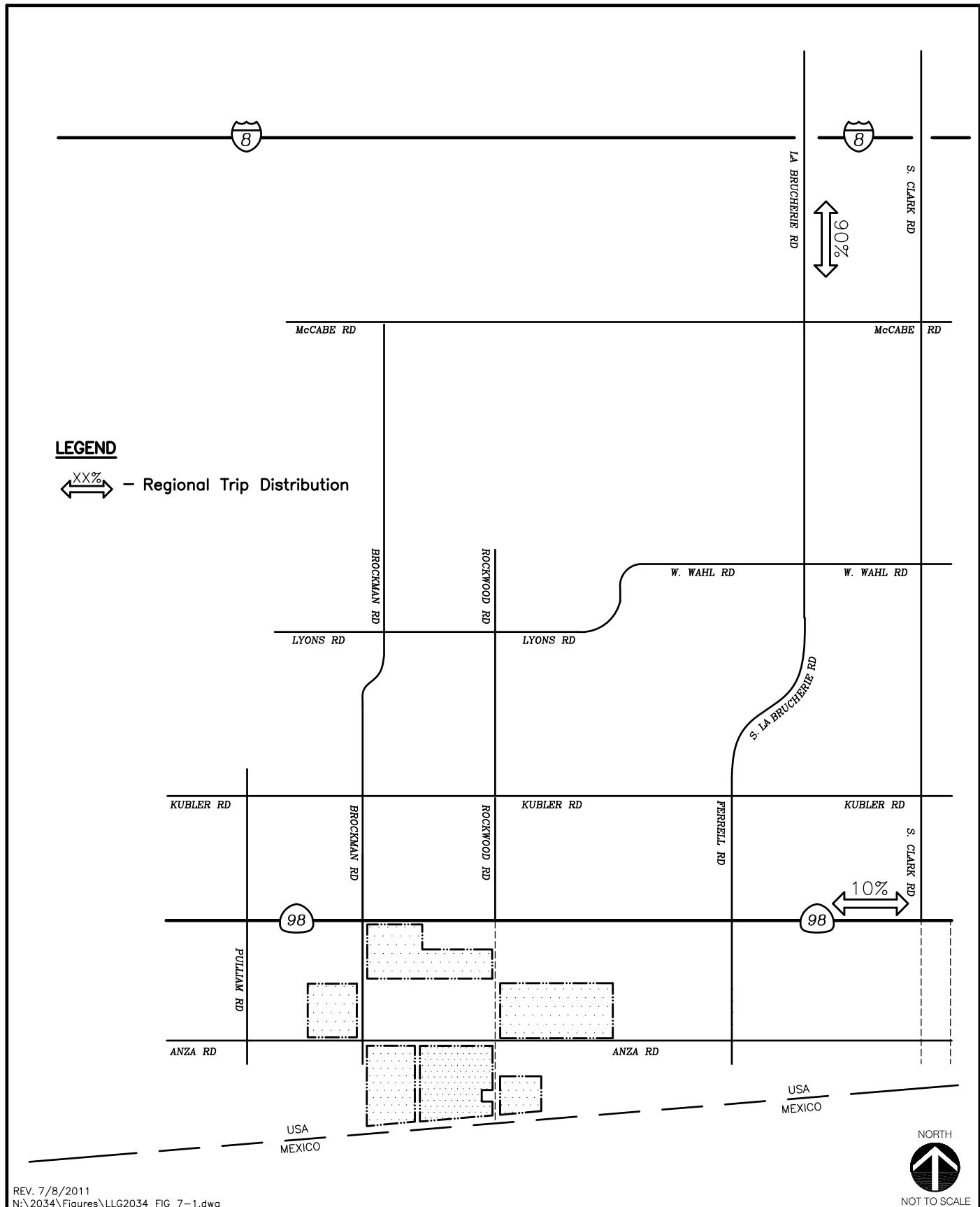


Figure 7-1
Total Construction Project Distribution
Truck Trips

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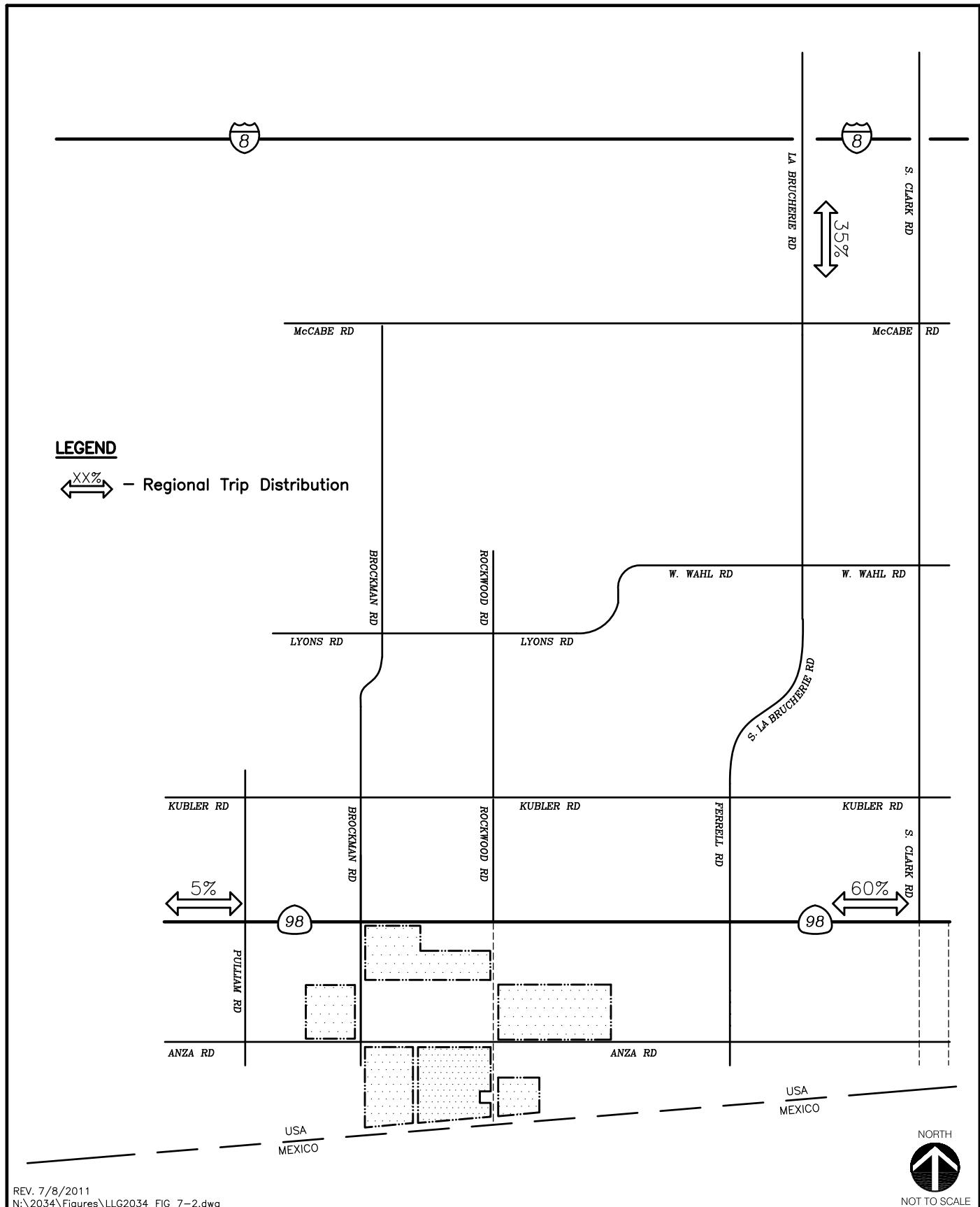


Figure 7-2
**Total Construction Project Distribution
Employee Trips**

CALEXICO SOLAR FARM I

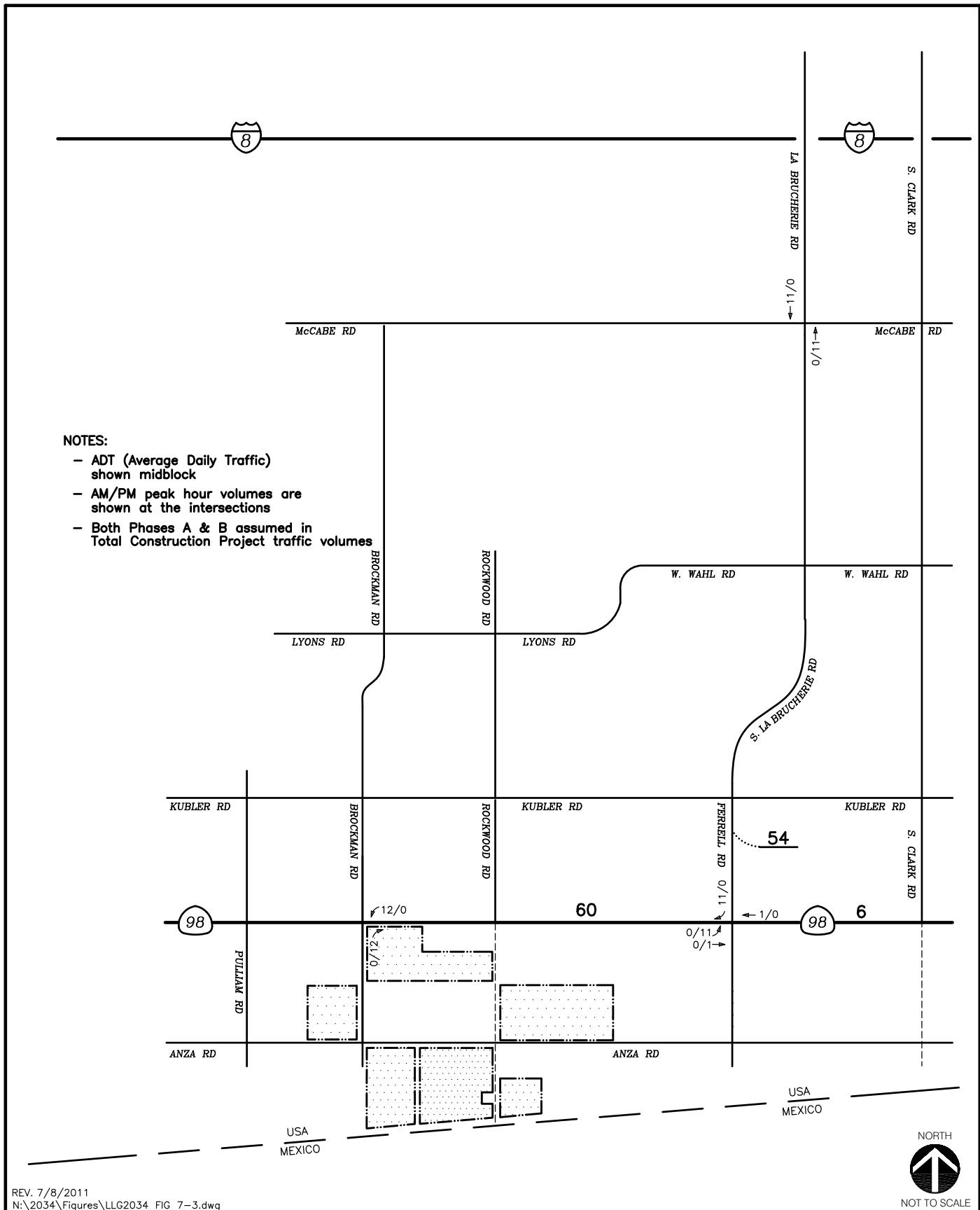


Figure 7-3
Total Construction Project Traffic Volumes
Truck Trips
AM/PM Peak Hours & ADT
CALEXICO SOLAR FARM I

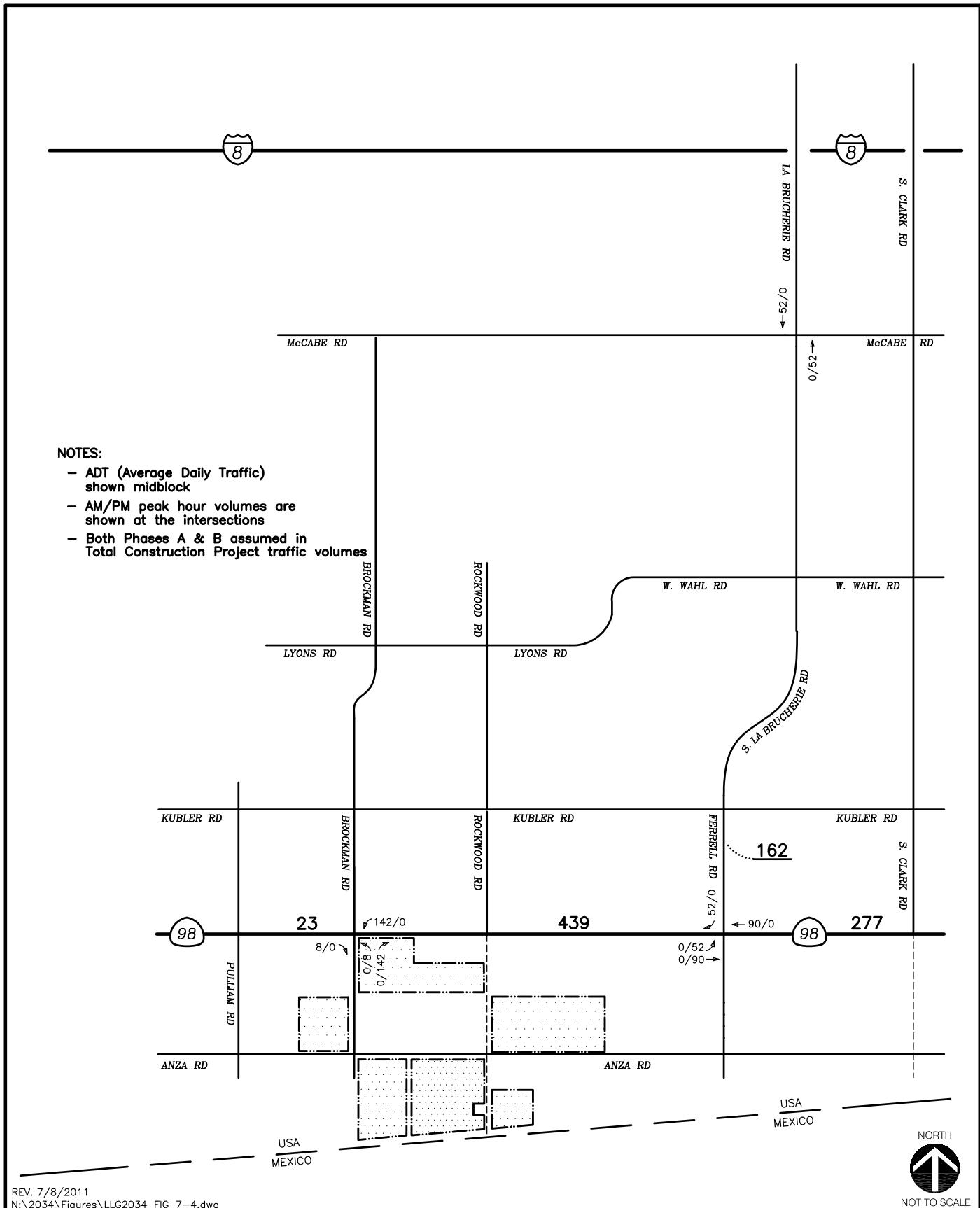


Figure 7-4
Total Construction Project Traffic Volumes
Employee Trips
AM/PM Peak Hours & ADT

CALEXICO SOLAR FARM I

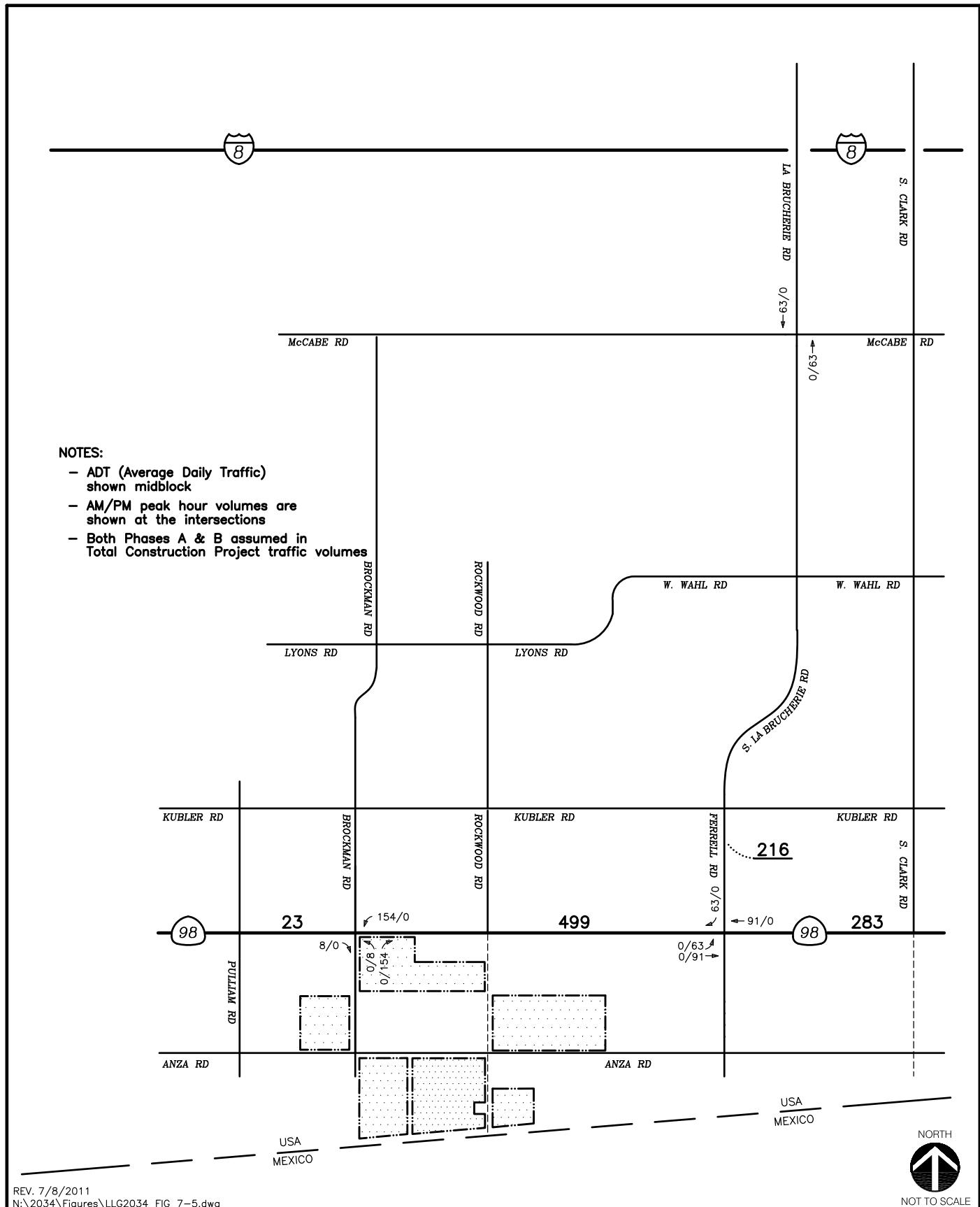


Figure 7-5
Total Construction Project Traffic Volumes
Total Trips
AM/PM Peak Hours & ADT

CALEXICO SOLAR FARM I

8.0 CONSTRUCTION YEAR ANALYSIS

Both phases of project construction are anticipated to start in 2013. Therefore, a baseline condition representing ambient traffic growth in the area was established. To account for potential cumulative project traffic increases that may occur between 2010 (existing) and the construction timeframe, a 5% growth factor was applied to all existing 2010 traffic volumes throughout the study area. This 5% growth would conservatively represent the amount of traffic that may utilize the street system in the project vicinity proposed from future unapproved development projects planned in Imperial County, such as Brookfield 101 Ranch, Alder/Scaroni, Mosiac Specific Plan, and others. In addition, several alternative energy projects are proposed for the Imperial Valley. While it is most likely that these projects will be constructed sequentially over the course of the next few years, for purposes of being conservative, half of all construction traffic for all identified projects within the project vicinity were assigned to the street system in addition to the 5% cumulative growth rate applied for the development projects. *Figure 8-1* shows the *Baseline Without Construction Project* traffic volumes in the study area.

Appendix C contains the cumulative traffic data information.

8.1 Baseline Without Construction Project Analysis

8.1.1 *Intersection Operations*

Table 8-1 summarizes the intersection operations throughout the project study area given the projected *Baseline Without Construction Project* traffic volumes. This table shows that all of the unsignalized intersections in the study area are forecasted to operate at LOS C or better during the AM and PM peak hours.

8.1.2 *Segment Analysis*

Table 8-2 summarizes the street segment operations throughout the project study area given the projected *Baseline Without Construction Project* traffic volumes. This table shows that all of the street segments in the study area are forecasted to operate at LOS B or better.

8.2 Baseline With Total Construction Project Analysis

The total construction project traffic for both *Phases A & B* was added to the *Baseline Without Construction Project* traffic, and the potential impacts associated with the proposed project were calculated by comparing the results. The following is a summary of the intersection and segment analyses. *Figure 8-2* shows the *Baseline With Total Construction Project* traffic volumes in the study area.

8.2.1 *Intersection Analysis*

Table 8-1 also summarizes the *Baseline With Total Construction Project* peak hour intersection operations. As seen in *Table 8-1*, all study area intersections are calculated to continue to operate at LOS C or better with the addition of *Phases A & B* of the construction project traffic. The increase in delay due to the construction traffic varies between 0.3 and 4.1 seconds at these intersections, which is considered **not significant**.

Appendix D contains the both the *Baseline Without Construction Project* and *Baseline With Total Construction Project* peak hour intersection analysis worksheets.

8.2.2 Segment Analysis

Table 8–2 also summarizes the street segment operations throughout the project study area given the projected *Baseline With Total Construction Project* traffic volumes. This table shows that all study area segments are calculated to continue to operate at LOS B or better with the addition of *Phases A & B* of construction project traffic. The increase in V/C due to the construction traffic varies between 0.0 and 0.03 at these segments, which is considered **not significant**.

TABLE 8-1
CONSTRUCTION YEAR INTERSECTION OPERATIONS

Intersection	Control Type	Peak Hour	Baseline Without Construction Project Traffic		Baseline With Total Construction Project Traffic		Δ^c Delay
			Delay ^a	LOS ^b	Delay	LOS	
La Brucherie Road/ McCabe Road	AWSC ^d	AM	19.2	C	23.3	C	4.1
		PM	8.9	A	9.2	A	0.3
		AM	10.4	B	11.1	B	0.7
	MSSC ^e	PM	10.8	B	13.7	B	2.9
		AM	9.7	A	13.6	B	3.9
		PM	10.2	B	12.3	B	2.1

Footnotes:

- a. Average delay expressed in seconds per vehicle.
- b. Level of Service.
- c. Δ denotes an increase in delay due to project.
- d. AWSC - All-Way STOP Controlled intersection.
- e. MWSC – Minor Street Stop Controlled intersection. Minor street left turn delay is reported.

UN SIGNALIZED	
Delay	LOS
0.0 \leq 10.0	A
10.1 to 15.0	B
15.1 to 25.0	C
25.1 to 35.0	D
35.1 to 50.0	E
\geq 50.1	F

TABLE 8-2
CONSTRUCTION YEAR STREET SEGMENT OPERATIONS

Street Segment	Functional Roadway Classification	Existing Capacity (LOS E) ^a	Baseline Without Construction Project Traffic			Baseline With Total Construction Project Traffic			Δ^e
			ADT ^b	V/C ^c	LOS ^d	ADT	V/C	LOS	
Brockman Road									
Lyons Road to Kubler Road	2-Ln Local Collector	16,200	190	0.01	A	190	0.01	A	0.00
Ferrell Road									
Kubler Road to SR 98	2-Ln Local Collector	16,200	840	0.05	A	1,056	0.07	A	0.02
SR 98									
Pulliam Road to Brockman Road	2-Ln Local Collector	16,200	2,690	0.17	B	2,713	0.17	B	0.00
Brockman Road to Ferrell Road	2-Ln Local Collector	16,200	2,100	0.13	B	2,599	0.16	B	0.03
East of Ferrell Road	2-Ln Local Collector	16,200	3,060	0.19	B	3,343	0.21	B	0.02

Footnotes:

- a. Roadway capacity corresponding to Level of Service E from Imperial County Standard Street Classification, Average Daily Vehicle Trips table.
- b. Average Daily Traffic volumes
- c. Volume / Capacity ratio.
- d. Level of Service
- e. Increase in V/C due to construction traffic.

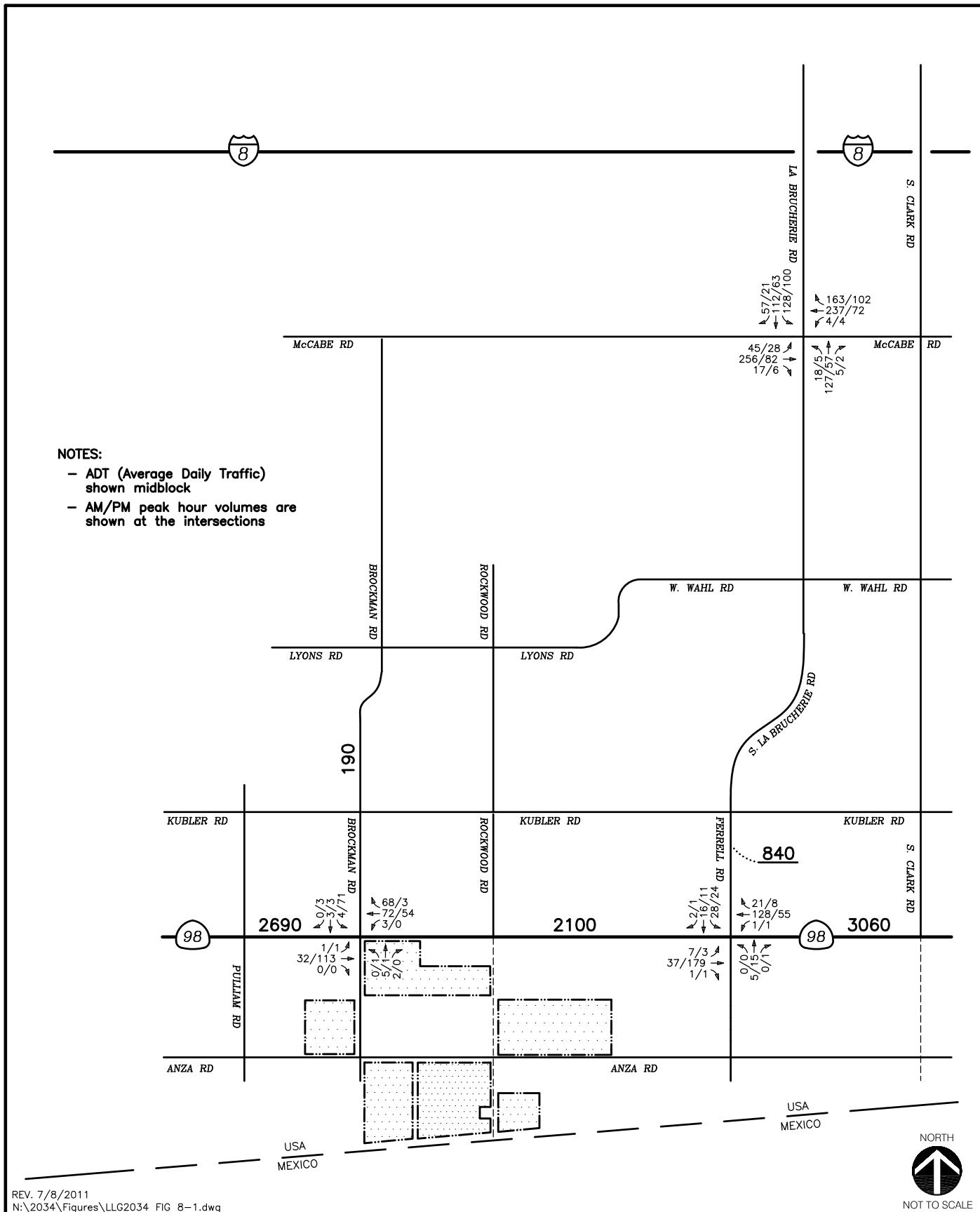


Figure 8-1

**Baseline Without Construction Project Traffic Volumes
AM/PM Peak Hours & ADT**

CALEXICO SOLAR FARM I

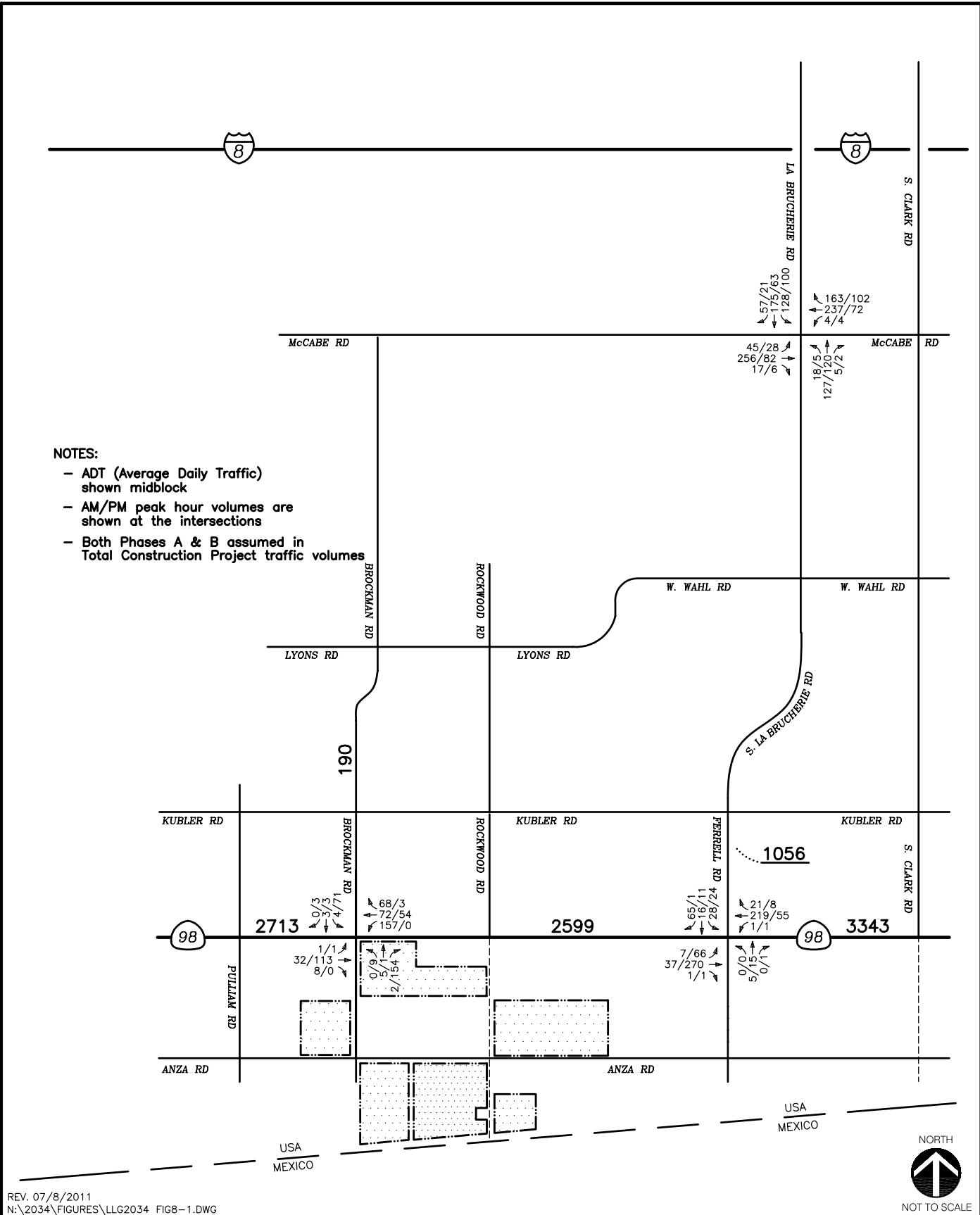


Figure 8-2

Baseline With Total Construction Project Traffic Volumes AM/PM Peak Hours & ADT

CALEXICO SOLAR FARM I

9.0 POST-CONSTRUCTION OPERATIONAL TRAFFIC

The Operations and Maintenance of the plant subsequent to the construction of the total project will generate, at most, 80 ADT with 20 maximum total peak hour volumes during either peak hour under the shared O&M scenario. This increase is substantially less than the trips generated by the construction traffic, which were demonstrated to cause no significant impacts. Therefore, it is anticipated that the post-construction intersection and segment operations will continue to operate at acceptable levels of service. No impacts associated with Operations and Maintenance would be expected.

10.0 PROJECT ACCESS

The project site is comprised of six parcels located along the southern side of SR 98 within a short distance of Pulliam Road to the west and Rockwood Road to the east. Paved access to the sites is available via Brockman Road, SR 98 and Anza Road. Rockwood Road is not paved.

Project access was assumed via the existing SR 98/Brockman Road intersection, providing a worst-case analysis for the purposes of this report. Based on the capacity analyses performed making these assumptions, LOS B or better operations would occur, indicating sufficient gaps in traffic along SR 98 to allow for construction trips to turn to/from the side street. Adequate operations would also occur at the adjacent SR 98 intersections, where project traffic is assumed to pass-through.

11.0 SIGNIFICANCE OF IMPACTS AND MITIGATION MEASURES

The capacity analyses performed for the key roadway segments and unsignalized intersections indicate that no significant impacts would occur during the total construction of *Phases A & B* of the proposed project, which is shown to generate more traffic than the subsequent maintenance and operations stages. Therefore, no significant impacts would be associated with maintenance and operations, either. No mitigation measures are required.



TECHNICAL APPENDICES
CALEXICO SOLAR FARM I
County of Imperial, California
July 8, 2011

LLG Ref. 3-11-2034

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Greenspan, Engineers**
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Suite 100
San Diego, CA 92111
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APPENDICES

APPENDIX

- A. Intersection Manual Count Sheets & Caltrans 2009 Traffic Volumes
- B. Peak Hour Intersection Analysis Worksheets – *Existing*
- C. Cumulative Traffic Data Information
- D. Peak Hour Intersection Analysis Worksheets – *Baseline Without Construction Traffic* and *Baseline With Total Construction Traffic*

APPENDIX A

INTERSECTION AND SEGMENT MANUAL COUNT SHEETS

True Count
 3401 First Ave. #123
 San Diego, CA, 92103

File Name : 1079.01.S LA BRUCHERIE RD.W MCCABE RD
 Site Code : 00000000
 Start Date : 10/7/2010
 Page No : 1

Groups Printed- Vehicles

	S LA BRUCHERIE RD Southbound				W MCCABE RD Westbound				S LA BRUCHERIE RD Northbound				W MCCABE RD Eastbound				Int. Total
	Start Time	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Left	Thru	Right	Peds
07:00	8	12	2	0	0	10	12	0	3	8	2	0	5	8	2	0	72
07:15	18	14	5	0	0	30	24	0	4	15	4	0	3	20	5	0	142
07:30	24	28	9	0	1	38	62	0	10	43	1	0	5	36	3	0	260
07:45	49	27	18	1	1	51	65	0	2	51	0	0	7	56	6	1	335
Total	99	81	34	1	2	129	163	0	19	117	7	0	20	120	16	1	809
08:00	43	30	22	0	0	96	13	0	5	15	3	0	18	72	7	0	324
08:15	6	11	5	0	2	41	15	0	0	12	1	0	13	80	0	0	186
08:30	9	5	4	0	1	4	13	0	1	6	1	0	6	15	1	0	66
08:45	7	6	3	0	0	15	32	0	2	14	0	0	1	10	3	0	93
Total	65	52	34	0	3	156	73	0	8	47	5	0	38	177	11	0	669

*** BREAK ***

16:00	28	15	5	0	1	31	33	0	3	14	1	0	15	44	4	0	194
16:15	23	14	3	0	1	15	20	0	1	11	1	0	3	18	1	0	111
16:30	24	12	6	0	0	14	25	0	1	7	0	0	1	12	1	0	103
16:45	20	19	6	0	2	9	19	0	0	11	0	0	8	4	0	0	98
Total	95	60	20	0	4	69	97	0	5	43	2	0	27	78	6	0	506
17:00	24	15	3	0	1	29	41	1	0	11	0	0	2	7	2	0	136
17:15	26	25	6	0	0	15	30	0	3	15	4	0	3	10	3	0	140
17:30	14	13	3	1	3	17	32	0	1	15	0	2	0	9	2	1	113
17:45	18	11	0	0	0	11	29	0	1	9	1	0	1	15	0	0	96
Total	82	64	12	1	4	72	132	1	5	50	5	2	6	41	7	1	485

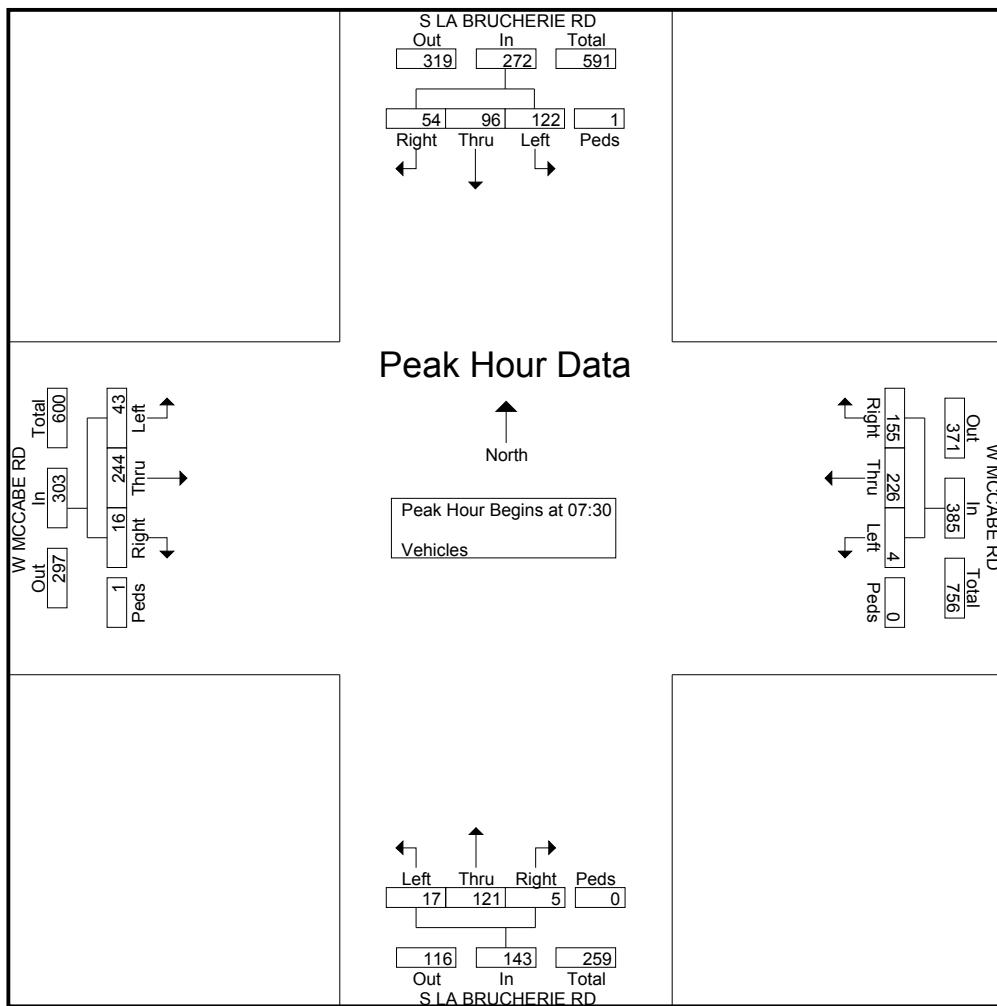
Grand Total	341	257	100	2	13	426	465	1	37	257	19	2	91	416	40	2	2469
Apprch %	48.7	36.7	14.3	0.3	1.4	47.1	51.4	0.1	11.7	81.6	6	0.6	16.6	75.8	7.3	0.4	
Total %	13.8	10.4	4.1	0.1	0.5	17.3	18.8	0	1.5	10.4	0.8	0.1	3.7	16.8	1.6	0.1	

True Count

3401 First Ave. #123
San Diego, CA, 92103

File Name : 1079.01.S LA BRUCHERIE RD.W MCCABE RD
Site Code : 00000000
Start Date : 10/7/2010
Page No : 2

	S LA BRUCHERIE RD Southbound					W MCCABE RD Westbound					S LA BRUCHERIE RD Northbound					W MCCABE RD Eastbound					
Start Time	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Int. Total
Peak Hour Analysis From 07:00 to 11:45 - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 07:30																					
07:30	24	28	9	0	61	1	38	62	0	101	10	43	1	0	54	5	36	3	0	44	260
07:45	49	27	18	1	95	1	51	65	0	117	2	51	0	0	53	7	56	6	1	70	335
08:00	43	30	22	0	95	0	96	13	0	109	5	15	3	0	23	18	72	7	0	97	324
08:15	6	11	5	0	22	2	41	15	0	58	0	12	1	0	13	13	80	0	0	93	186
Total Volume	122	96	54	1	273	4	226	155	0	385	17	121	5	0	143	43	244	16	1	304	1105
% App. Total	44.7	35.2	19.8	0.4		1	58.7	40.3	0		11.9	84.6	3.5	0		14.1	80.3	5.3	0.3		
PHF	.622	.800	.614	.250	.718	.500	.589	.596	.000	.823	.425	.593	.417	.000	.662	.597	.763	.571	.250	.784	.825

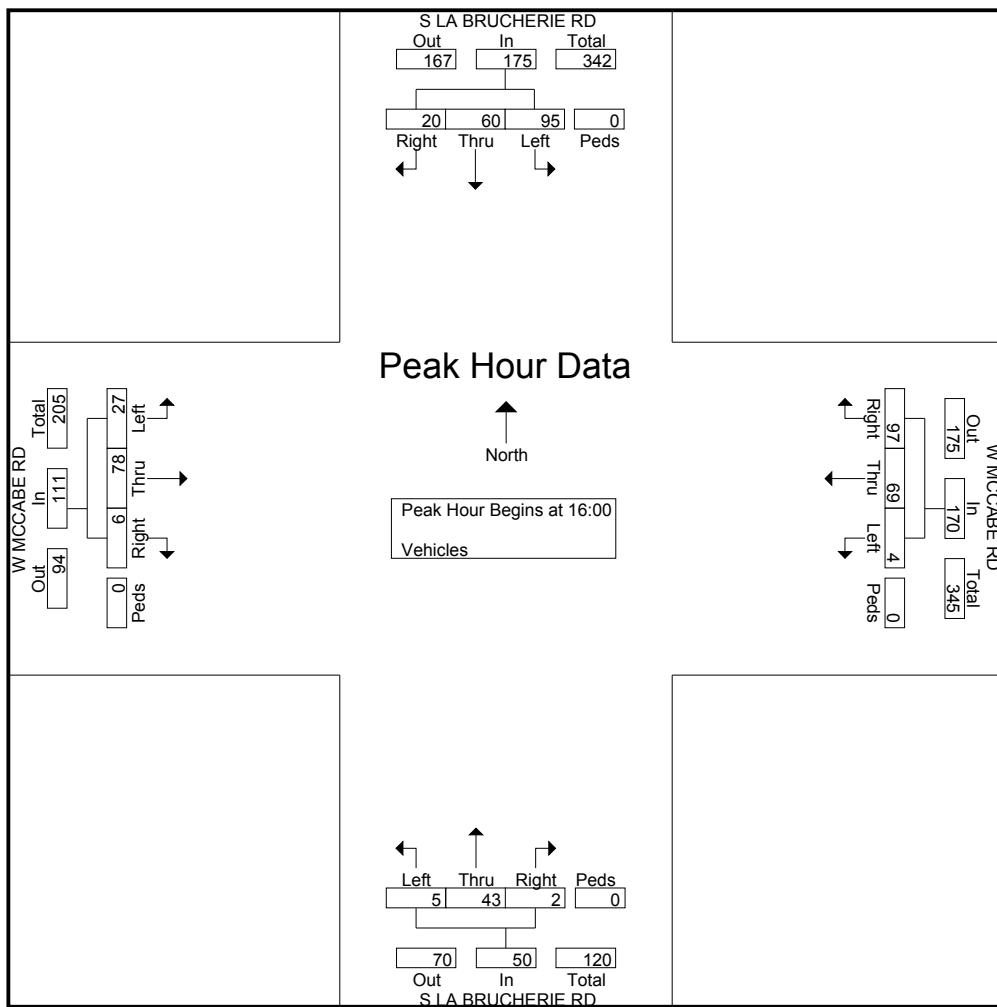


True Count

3401 First Ave. #123
San Diego, CA, 92103

File Name : 1079.01.S LA BRUCHERIE RD.W MCCABE RD
Site Code : 00000000
Start Date : 10/7/2010
Page No : 3

	S LA BRUCHERIE RD Southbound					W MCCABE RD Westbound					S LA BRUCHERIE RD Northbound					W MCCABE RD Eastbound					
Start Time	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Int. Total
Peak Hour Analysis From 12:00 to 17:45 - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 16:00																					
16:00	28	15	5	0	48	1	31	33	0	65	3	14	1	0	18	15	44	4	0	63	194
16:15	23	14	3	0	40	1	15	20	0	36	1	11	1	0	13	3	18	1	0	22	111
16:30	24	12	6	0	42	0	14	25	0	39	1	7	0	0	8	1	12	1	0	14	103
16:45	20	19	6	0	45	2	9	19	0	30	0	11	0	0	11	8	4	0	0	12	98
Total Volume	95	60	20	0	175	4	69	97	0	170	5	43	2	0	50	27	78	6	0	111	506
% App. Total	54.3	34.3	11.4	0		2.4	40.6	57.1	0		10	86	4	0		24.3	70.3	5.4	0		
PHF	.848	.789	.833	.000	.911	.500	.556	.735	.000	.654	.417	.768	.500	.000	.694	.450	.443	.375	.000	.440	.652



True Count

3401 First Ave. #123
San Diego, CA, 92103

File Name : 1079.02.BROCKMAN RD.SR-98
Site Code : 00000000
Start Date : 10/7/2010
Page No : 1

Groups Printed- Vehicles

Start Time	BROCKMAN RD Southbound				SR-98 Westbound				BROCKMAN RD Northbound				SR-98 Eastbound				Int. Total
	Left	Thru	Rght	Peds	Left	Thru	Rght	Peds	Left	Thru	Rght	Peds	Left	Thru	Rght	Peds	
07:00	1	1	0	1	0	9	2	0	0	1	0	0	0	2	0	0	17
07:15	2	0	0	0	3	15	2	0	0	0	1	0	0	6	0	0	29
07:30	1	1	0	0	0	10	1	0	0	3	0	0	1	11	0	0	28
07:45	0	1	0	0	0	8	0	0	0	1	1	0	0	11	0	0	22
Total	4	3	0	1	3	42	5	0	0	5	2	0	1	30	0	0	96
08:00	1	0	0	0	0	6	0	0	0	0	0	0	0	9	0	0	16
08:15	1	0	2	0	0	5	0	0	0	0	0	0	0	5	0	0	13
08:30	0	0	1	0	0	19	2	0	0	0	0	0	0	10	0	0	32
08:45	1	1	0	0	1	13	3	0	0	0	1	0	0	11	0	0	31
Total	3	1	3	0	1	43	5	0	0	0	1	0	0	35	0	0	92

*** BREAK ***

16:00	2	0	1	0	0	11	0	0	0	0	1	0	0	20	0	0	35
16:15	2	0	0	0	0	10	0	0	0	0	0	0	0	19	0	0	31
16:30	1	2	0	0	0	14	0	0	0	1	0	0	0	15	0	0	33
16:45	4	0	2	0	0	18	0	0	0	0	0	0	1	21	0	0	46
Total	9	2	3	0	0	53	0	0	0	1	1	0	1	75	0	0	145
17:00	2	0	0	0	0	5	1	0	0	0	0	0	0	21	0	0	29
17:15	1	1	1	0	0	14	2	0	1	0	0	0	0	24	0	0	44
17:30	0	0	0	0	0	10	0	0	0	0	0	0	0	16	0	0	26
17:45	2	0	0	0	0	8	0	0	0	0	0	0	1	12	0	0	23
Total	5	1	1	0	0	37	3	0	1	0	0	0	1	73	0	0	122

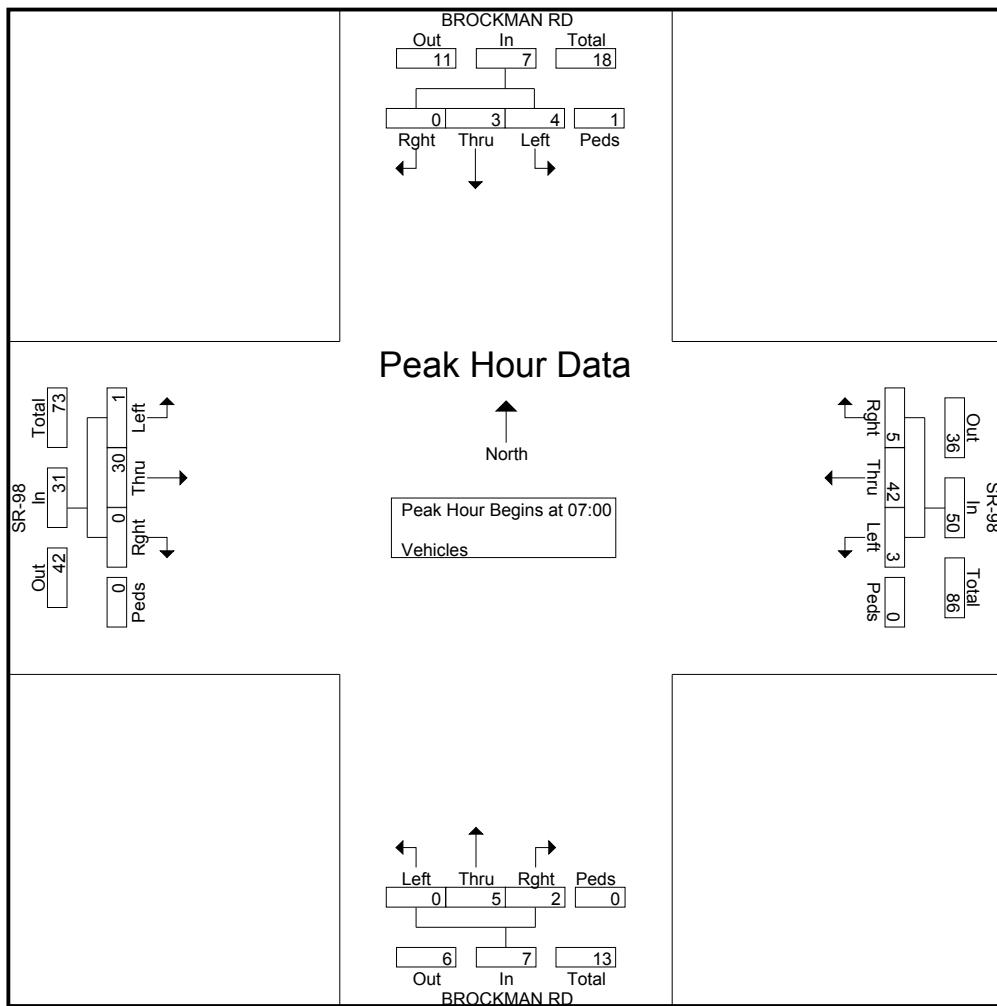
Grand Total	21	7	7	1	4	175	13	0	1	6	4	0	3	213	0	0	455
Apprch %	58.3	19.4	19.4	2.8	2.1	91.1	6.8	0	9.1	54.5	36.4	0	1.4	98.6	0	0	
Total %	4.6	1.5	1.5	0.2	0.9	38.5	2.9	0	0.2	1.3	0.9	0	0.7	46.8	0	0	

True Count

3401 First Ave. #123
San Diego, CA, 92103

File Name : 1079.02.BROCKMAN RD.SR-98
Site Code : 00000000
Start Date : 10/7/2010
Page No : 2

	BROCKMAN RD Southbound					SR-98 Westbound					BROCKMAN RD Northbound					SR-98 Eastbound					
Start Time	Left	Thru	Rght	Peds	App. Total	Left	Thru	Rght	Peds	App. Total	Left	Thru	Rght	Peds	App. Total	Left	Thru	Rght	Peds	App. Total	Int. Total
Peak Hour Analysis From 07:00 to 11:45 - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 07:00																					
07:00	1	1	0	1	3	0	9	2	0	11	0	1	0	0	1	0	2	0	0	2	17
07:15	2	0	0	0	2	3	15	2	0	20	0	0	1	0	1	0	6	0	0	6	29
07:30	1	1	0	0	2	0	10	1	0	11	0	3	0	0	3	1	11	0	0	12	28
07:45	0	1	0	0	1	0	8	0	0	8	0	1	1	0	2	0	11	0	0	11	22
Total Volume	4	3	0	1	8	3	42	5	0	50	0	5	2	0	7	1	30	0	0	31	96
% App. Total	50	37.5	0	12.5		6	84	10	0		0	71.4	28.6	0		3.2	96.8	0	0		
PHF	.500	.750	.000	.250	.667	.250	.700	.625	.000	.625	.000	.417	.500	.000	.583	.250	.682	.000	.000	.646	.828

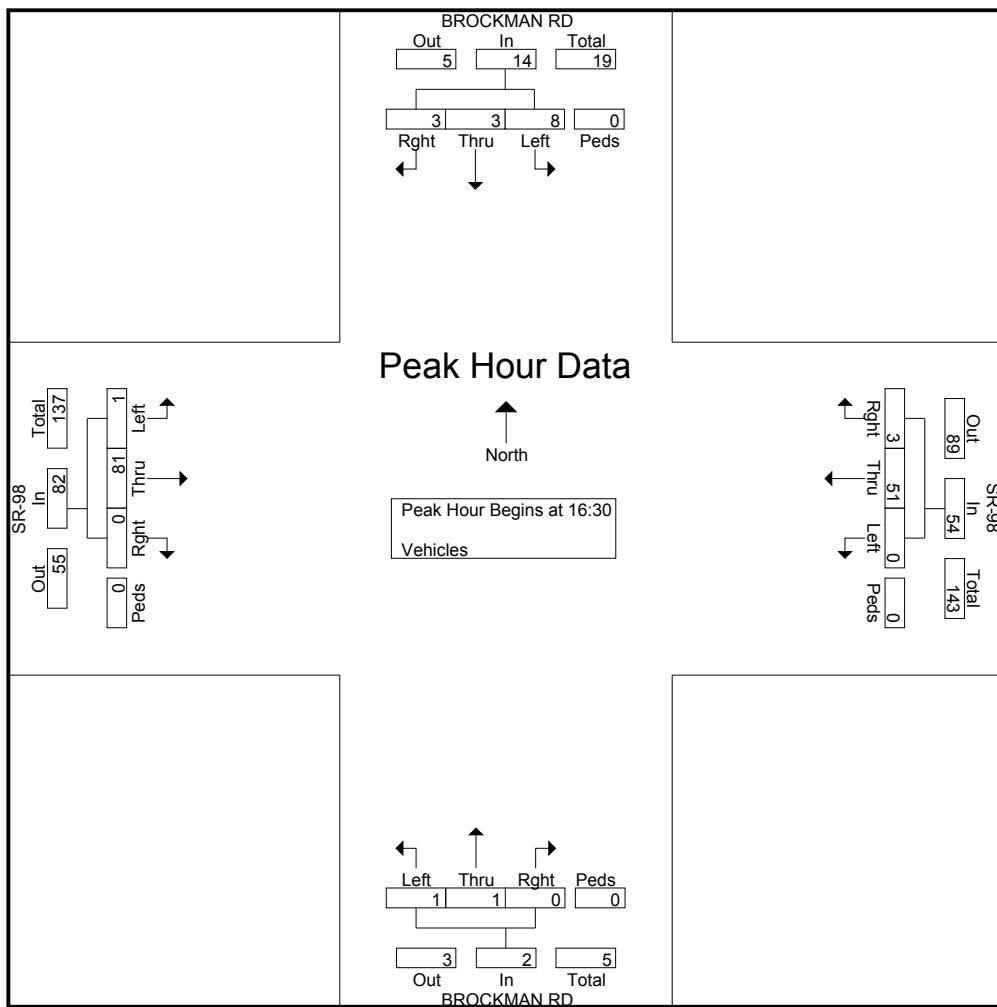


True Count

3401 First Ave. #123
San Diego, CA, 92103

File Name : 1079.02.BROCKMAN RD.SR-98
Site Code : 00000000
Start Date : 10/7/2010
Page No : 3

	BROCKMAN RD Southbound					SR-98 Westbound					BROCKMAN RD Northbound					SR-98 Eastbound					
Start Time	Left	Thru	Rght	Peds	App. Total	Left	Thru	Rght	Peds	App. Total	Left	Thru	Rght	Peds	App. Total	Left	Thru	Rght	Peds	App. Total	Int. Total
Peak Hour Analysis From 12:00 to 17:45 - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 16:30																					
16:30	1	2	0	0	3	0	14	0	0	14	0	1	0	0	1	0	15	0	0	15	33
16:45	4	0	2	0	6	0	18	0	0	18	0	0	0	0	0	1	21	0	0	22	46
17:00	2	0	0	0	2	0	5	1	0	6	0	0	0	0	0	0	21	0	0	21	29
17:15	1	1	1	0	3	0	14	2	0	16	1	0	0	0	1	0	24	0	0	24	44
Total Volume	8	3	3	0	14	0	51	3	0	54	1	1	0	0	2	1	81	0	0	82	152
% App. Total	57.1	21.4	21.4	0		0	94.4	5.6	0		50	50	0	0	1.2	98.8	0	0			
PHF	.500	.375	.375	.000	.583	.000	.708	.375	.000	.750	.250	.250	.000	.000	.500	.250	.844	.000	.000	.854	.826



True Count

3401 First Ave. #123
San Diego, CA, 92103

File Name : 1079.03.FERRELL RD.SR-98
Site Code : 00000000
Start Date : 10/7/2010
Page No : 1

Groups Printed- Vehicles

Start Time	FERRELL RD Southbound				SR-98 Westbound				FERRELL RD Northbound				SR-98 Eastbound				Int. Total
	Left	Thru	Rght	Peds	Left	Thru	Rght	Peds	Left	Thru	Rght	Peds	Left	Thru	Rght	Peds	
07:00	2	1	2	1	0	13	5	0	1	1	0	0	1	2	1	0	30
07:15	4	2	1	0	0	10	5	0	0	0	0	0	1	9	0	0	32
07:30	6	6	0	0	0	13	6	0	0	2	0	0	1	8	0	0	42
07:45	10	4	2	0	0	7	3	0	0	0	0	0	4	12	0	0	42
Total	22	13	5	1	0	43	19	0	1	3	0	0	7	31	1	0	146
08:00	4	3	0	0	1	4	4	0	0	2	0	0	2	7	0	0	27
08:15	7	2	0	0	0	11	7	0	0	1	0	0	0	8	1	0	37
08:30	3	3	1	0	0	17	2	0	0	1	1	0	0	10	1	0	39
08:45	4	0	1	0	0	15	2	0	1	3	0	0	1	13	1	0	41
Total	18	8	2	0	1	47	15	0	1	7	1	0	3	38	3	0	144

*** BREAK ***

16:00	5	5	0	0	0	11	1	0	0	8	0	0	0	23	0	0	53
16:15	7	0	1	0	0	11	3	0	0	3	0	0	0	21	1	0	47
16:30	6	3	0	0	1	12	0	0	0	2	1	0	0	17	0	0	42
16:45	5	2	0	0	0	18	4	0	0	1	0	0	3	23	0	0	56
Total	23	10	1	0	1	52	8	0	0	14	1	0	3	84	1	0	198
17:00	6	1	1	0	0	7	2	0	0	1	0	0	1	20	0	0	39
17:15	4	4	1	0	0	13	6	0	0	3	0	0	0	27	0	0	58
17:30	5	2	3	0	0	10	6	0	0	1	0	0	0	15	0	0	42
17:45	3	3	2	0	0	8	5	0	0	0	0	0	1	18	0	0	40
Total	18	10	7	0	0	38	19	0	0	5	0	0	2	80	0	0	179

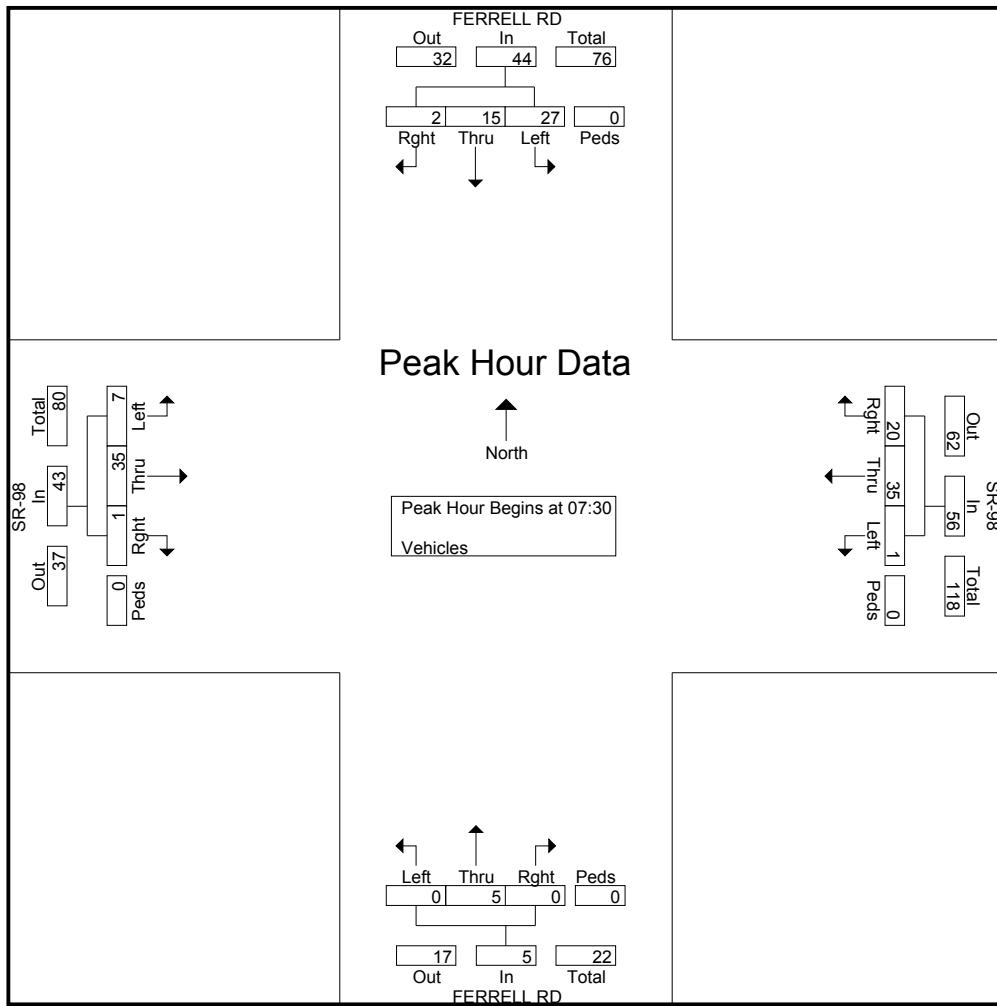
Grand Total	81	41	15	1	2	180	61	0	2	29	2	0	15	233	5	0	667
Apprch %	58.7	29.7	10.9	0.7	0.8	74.1	25.1	0	6.1	87.9	6.1	0	5.9	92.1	2	0	
Total %	12.1	6.1	2.2	0.1	0.3	27	9.1	0	0.3	4.3	0.3	0	2.2	34.9	0.7	0	

True Count

3401 First Ave. #123
San Diego, CA, 92103

File Name : 1079.03.FERRELL RD.SR-98
Site Code : 00000000
Start Date : 10/7/2010
Page No : 2

	FERRELL RD Southbound					SR-98 Westbound					FERRELL RD Northbound					SR-98 Eastbound					
Start Time	Left	Thru	Rght	Peds	App. Total	Left	Thru	Rght	Peds	App. Total	Left	Thru	Rght	Peds	App. Total	Left	Thru	Rght	Peds	App. Total	Int. Total
Peak Hour Analysis From 07:00 to 11:45 - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 07:30	6	6	0	0	12	0	13	6	0	19	0	2	0	0	2	1	8	0	0	9	42
07:30	6	6	0	0	12	0	13	6	0	19	0	2	0	0	2	1	8	0	0	9	42
07:45	10	4	2	0	16	0	7	3	0	10	0	0	0	0	0	4	12	0	0	0	16
08:00	4	3	0	0	7	1	4	4	0	9	0	2	0	0	2	2	7	0	0	9	27
08:15	7	2	0	0	9	0	11	7	0	18	0	1	0	0	1	0	8	1	0	9	37
Total Volume	27	15	2	0	44	1	35	20	0	56	0	5	0	0	5	7	35	1	0	43	148
% App. Total	61.4	34.1	4.5	0		1.8	62.5	35.7	0		0	100	0	0		16.3	81.4	2.3	0		
PHF	.675	.625	.250	.000	.688	.250	.673	.714	.000	.737	.000	.625	.000	.000	.625	.438	.729	.250	.000	.672	.881

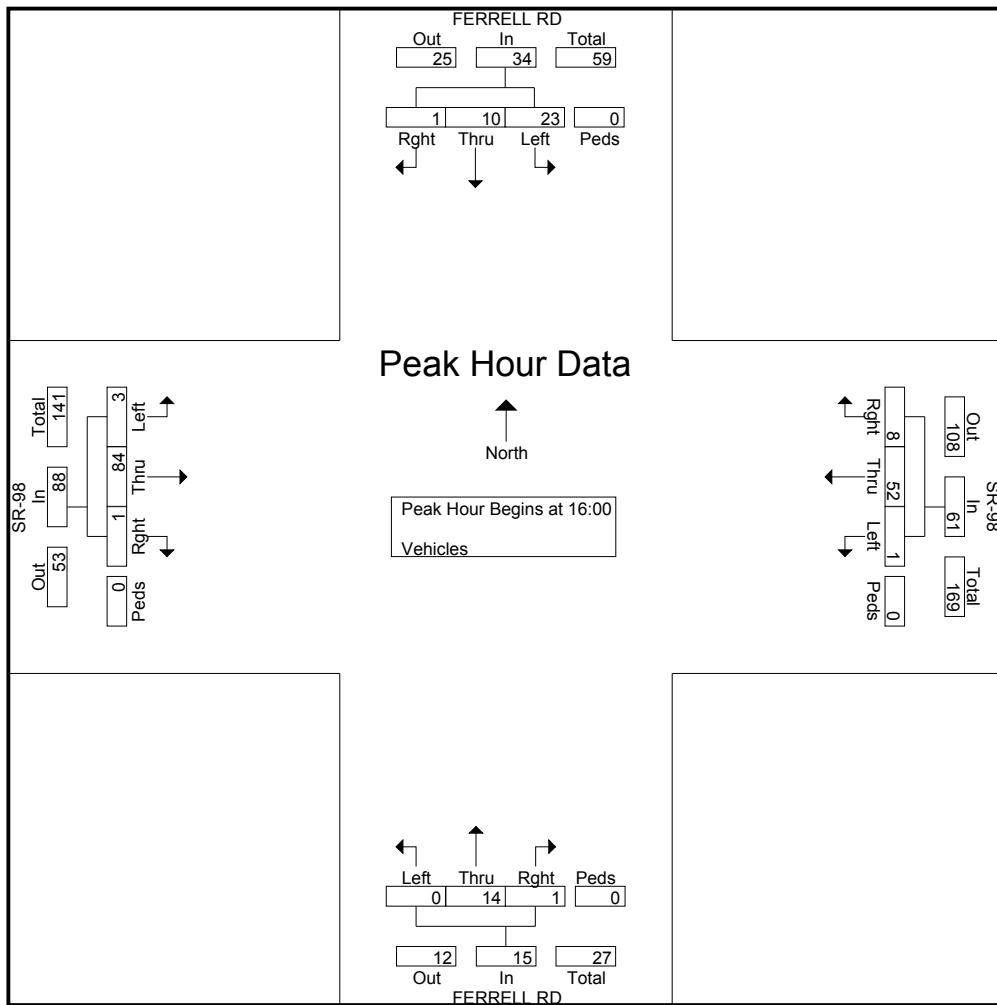


True Count

3401 First Ave. #123
San Diego, CA, 92103

File Name : 1079.03.FERRELL RD.SR-98
Site Code : 00000000
Start Date : 10/7/2010
Page No : 3

	FERRELL RD Southbound					SR-98 Westbound					FERRELL RD Northbound					SR-98 Eastbound						
Start Time	Left	Thru	Rght	Peds	App. Total	Left	Thru	Rght	Peds	App. Total	Left	Thru	Rght	Peds	App. Total	Left	Thru	Rght	Peds	App. Total	Int. Total	
Peak Hour Analysis From 12:00 to 17:45 - Peak 1 of 1																						
Peak Hour for Entire Intersection Begins at 16:00	16:00	5	5	0	0	10	0	11	1	0	12	0	8	0	0	8	0	23	0	0	23	53
	16:15	7	0	1	0	8	0	11	3	0	14	0	3	0	0	3	0	21	1	0	22	47
	16:30	6	3	0	0	9	1	12	0	0	13	0	2	1	0	3	0	17	0	0	17	42
	16:45	5	2	0	0	7	0	18	4	0	22	0	1	0	0	1	3	23	0	0	26	56
Total Volume	23	10	1	0	34	1	52	8	0	61	0	14	1	0	15	3	84	1	0	88	198	
% App. Total	67.6	29.4	2.9	0		1.6	85.2	13.1	0		0	93.3	6.7	0		3.4	95.5	1.1	0			
PHF	.821	.500	.250	.000	.850	.250	.722	.500	.000	.693	.000	.438	.250	.000	.469	.250	.913	.250	.000	.846	.884	



MetroCount Traffic Executive Vehicle Counts

553 -- English (ENU)

Datasets:

Site: [1079.01] SR-98 (ROCKWOOD RD-CORDA RD) EASTBOUND

Direction: 6 - West bound A>B, East bound B>A. **Lane:** 0

Survey Duration: 20:27 Wednesday, October 06, 2010 => 11:19 Friday, October 08, 2010

File: 1079.01Oct2010.EC0 (Regular)

Data type: Axle sensors - Paired (Class/Speed/Count)

Profile:

Filter time: 0:00 Thursday, October 07, 2010 => 0:00 Friday, October 08, 2010

Included classes: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13

Direction: East (bound)

In profile: Vehicles = 979 / 1951 (50.18%)

* Thursday, October 07, 2010 - Total=979, 15 minute drops

0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300
26	16	5	7	9	11	32	38	41	54	36	60	50	43	42	69	85	80	66	78	36	43	27	25
11	7	1	3	1	1	4	4	8	16	7	15	18	11	15	12	22	22	17	19	7	14	7	2
7	4	0	1	2	6	8	10	8	12	10	20	8	10	7	21	22	25	18	24	6	13	7	8
3	4	1	0	3	1	12	9	10	10	10	10	11	15	12	13	17	15	14	17	9	11	10	7
5	1	3	3	3	3	8	15	15	16	9	15	13	7	8	23	24	18	17	18	14	5	3	8

AM Peak 1115 - 1215 (63), AM PHF=0.79

MetroCount Traffic Executive

Vehicle Counts

554 -- English (ENU)

Datasets:

Site: [1079.01] SR-98 (ROCKWOOD RD-CORDA RD) WESTBOUND
Direction: 6 - West bound A>B, East bound B>A. **Lane:** 0
Survey Duration: 20:27 Wednesday, October 06, 2010 => 11:19 Friday, October 08, 2010
File: 1079.01Oct2010.EC0 (Regular)
Data type: Axle sensors - Paired (Class/Speed/Count)

Profile:

Filter time: 0:00 Thursday, October 07, 2010 => 0:00 Friday, October 08, 2010
Included classes: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13
Direction: West (bound)
In profile: Vehicles = 750 / 1951 (38.44%)

* **Thursday, October 07, 2010 - Total=750, 15 minute drops**

0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300
15	8	12	20	29	36	45	48	49	40	38	46	33	32	34	28	53	42	32	30	18	32	19	11
3	0	4	5	8	10	16	9	6	10	11	9	10	9	5	2	11	7	8	10	4	17	7	0
2	2	2	4	8	7	8	20	8	14	9	9	8	6	9	10	11	17	10	6	4	7	5	3
5	2	2	7	9	4	12	11	20	9	9	10	5	5	6	10	15	10	6	6	3	3	4	5
5	4	4	4	4	15	9	8	15	7	9	18	10	12	14	6	16	8	8	8	7	5	3	3

AM Peak 0830 - 0930 (59), AM PHF=0.74

MetroCount Traffic Executive Vehicle Counts

556 -- English (ENU)

Datasets:

Site: [1079.02] COUNTY HWY S-30 (BROCKMAN RD-NORTH OF SR-98) SOUTHBOUND
Direction: 7 - North bound A>B, South bound B>A. **Lane:** 0
Survey Duration: 21:17 Wednesday, October 06, 2010 => 11:17 Friday, October 08, 2010
File: 1079.0208Oct2010.EC0 (Regular)
Data type: Axle sensors - Paired (Class/Speed/Count)

Profile:

Filter time: 0:00 Thursday, October 07, 2010 => 0:00 Friday, October 08, 2010
Included classes: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13
Direction: South (bound)
In profile: Vehicles = 91 / 185 (49.19%)

* Thursday, October 07, 2010 - Total=91, 15 minute drops

0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300
0	0	0	0	1	3	10	7	7	6	6	1	2	5	9	5	15	7	4	1	0	1	1	0
0	0	0	0	1	1	2	1	1	1	1	0	1	0	5	0	4	2	1	0	0	1	0	0
0	0	0	0	0	0	4	2	3	3	1	0	0	1	1	3	2	3	1	1	0	0	1	0
0	0	0	0	0	0	1	3	2	1	1	3	0	1	4	1	1	3	0	0	0	0	0	0
0	0	0	0	0	0	1	2	1	2	1	1	1	0	0	2	1	6	2	2	0	0	0	0

AM Peak 0615 - 0715 (11), AM PHF=0.69

MetroCount Traffic Executive Vehicle Counts

555 -- English (ENU)

Datasets:

Site: [1079.02] COUNTY HWY S-30 (BROCKMAN RD-NORTH OF SR-98) NORTHBOUND
Direction: 7 - North bound A>B, South bound B>A. **Lane:** 0
Survey Duration: 21:17 Wednesday, October 06, 2010 => 11:17 Friday, October 08, 2010
File: 1079.0208Oct2010.EC0 (Regular)
Data type: Axle sensors - Paired (Class/Speed/Count)

Profile:

Filter time: 0:00 Thursday, October 07, 2010 => 0:00 Friday, October 08, 2010
Included classes: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13
Direction: North (bound)
In profile: Vehicles = 89 / 185 (48.11%)

* Thursday, October 07, 2010 - Total=89, 15 minute drops

0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300
1	0	3	2	8	8	5	9	4	5	3	3	5	7	5	4	3	4	2	2	3	1	2	0
0	0	1	1	1	2	0	1	1	2	0	2	3	1	1	1	1	0	0	1	0	0	0	0
0	0	0	1	1	3	4	4	0	2	0	1	2	0	1	2	0	3	1	0	0	1	0	-
1	0	1	0	5	2	1	2	2	1	1	0	0	5	1	0	0	0	0	1	0	0	1	0
0	0	1	0	1	1	0	2	1	0	2	0	0	1	2	1	2	1	1	0	3	1	0	0

AM Peak 0430 - 0530 (11), AM PHF=0.55

MetroCount Traffic Executive Vehicle Counts

558 -- English (ENU)

Datasets:

Site: [1079.03] FERRELL RD (LA BRUCHERIE RD-NORTH OF SR-98) SOUTHBOUND
Direction: 7 - North bound A>B, South bound B>A. **Lane:** 0
Survey Duration: 19:42 Wednesday, October 06, 2010 => 11:19 Friday, October 08, 2010
File: 1079.0308Oct2010.EC0 (Base)
Data type: Axle sensors - Paired (Class/Speed/Count)

Profile:

Filter time: 0:00 Thursday, October 07, 2010 => 0:00 Friday, October 08, 2010
Included classes: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13
Direction: South (bound)
In profile: Vehicles = 442 / 867 (50.98%)

* Thursday, October 07, 2010 - Total=442, 15 minute drops

0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300
8	3	1	4	0	10	12	39	26	40	21	21	21	19	34	42	34	31	26	14	6	19	7	4
0	0	0	0	0	1	2	5	6	10	9	4	4	2	5	9	9	8	10	4	2	13	4	2
5	0	0	2	0	2	1	6	9	17	3	6	7	5	13	13	9	8	5	6	1	4	0	1
2	2	0	1	0	3	3	11	7	9	4	8	5	6	7	14	9	9	7	2	2	1	2	0
1	1	1	1	0	4	6	17	4	4	5	3	5	6	9	6	7	6	4	2	1	1	1	1

AM Peak 0730 - 0830 (43), AM PHF=0.63

MetroCount Traffic Executive Vehicle Counts

557 -- English (ENU)

Datasets:

Site: [1079.03] FERRELL RD (LA BRUCHERIE RD-NORTH OF SR-98) NORTHBOUND
Direction: 7 - North bound A>B, South bound B>A. **Lane:** 0
Survey Duration: 19:42 Wednesday, October 06, 2010 => 11:19 Friday, October 08, 2010
File: 1079.0308Oct2010.EC0 (Base)
Data type: Axle sensors - Paired (Class/Speed/Count)

Profile:

Filter time: 0:00 Thursday, October 07, 2010 => 0:00 Friday, October 08, 2010
Included classes: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13
Direction: North (bound)
In profile: Vehicles = 354 / 867 (40.83%)

* Thursday, October 07, 2010 - Total=354, 15 minute drops

0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300
4	2	7	1	9	9	22	29	24	26	14	24	15	11	32	21	27	28	17	9	7	8	4	4
0	1	0	0	0	0	4	8	8	3	5	5	3	3	4	5	11	4	4	3	2	2	0	1
4	0	3	1	1	0	3	5	6	13	2	6	5	2	8	5	10	6	2	2	3	1	1	-
0	1	2	0	3	3	10	5	5	3	5	10	4	2	6	5	3	8	5	3	2	3	2	1
0	0	2	0	5	6	5	11	5	7	2	3	3	4	14	6	8	6	2	1	1	0	1	-

AM Peak 0730 - 0830 (30), AM PHF=0.68

2009 Caltrans Volumes

District	Route	County	Postmile	Description	Back Peak Hour	Back Peak Month	Back AADT	Ahead Peak Hour	Ahead Peak Month	Ahead AADT
11	098	IMP	22.197	DREW RD (SUNSET BLVD)	250	2,300	2,100	240	2,350	2,200
11	098	IMP	27.21	FERRELL RD	240	2,350	2,200	290	2,900	2,650
11	098	IMP	28.74	CLARK RD	290	2,900	2,650	400	4,350	4,100

APPENDIX B

PEAK HOUR INTERSECTION ANALYSIS WORKSHEETS – EXISTING

Calexico Solar Farm I - 88 FT

Existing AM

Wed Apr 6, 2011 09:50:49

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88FT
3-11-2034

Level Of Service Computation Report
2000 HCM 4-Way Stop Method (Base Volume Alternative)

Intersection #1 La Brucherie/McCabe

Cycle (sec): 100 Critical Vol./Cap.(X): 0.688
Loss Time (sec): 0 Average Delay (sec/veh): 16.5
Optimal Cycle: 0 Level Of Service: C

Street Name:	La Brucherie				McCabe												
Approach:	North Bound		South Bound		East Bound		West Bound										
Movement:	L	-	T	-	R	L	-	T	-	R	L	-	T	-	R		
Control:	Stop Sign				Stop Sign				Stop Sign				Stop Sign				
Rights:	Include				Include				Include				Include				
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Lanes:	0	0	1!	0	0	0	0	1!	0	0	0	0	0	0	1!	0	0

Volume Module:												
Base Vol:	17	121	5	122	96	54	43	244	16	4	226	155
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:	17	121	5	122	96	54	43	244	16	4	226	155
User 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 Adj:	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
PHF Volume:	18	132	5	133	104	59	47	265	17	4	246	168
Reduc Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	18	132	5	133	104	59	47	265	17	4	246	168
PCE 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
MLF 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
FinalVolume:	18	132	5	133	104	59	47	265	17	4	246	168

Saturation Flow Module:												
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	0.12	0.85	0.03	0.45	0.35	0.20	0.14	0.81	0.05	0.01	0.59	0.40
Final Sat.:	56	396	16	238	188	106	80	453	30	6	357	245

Capacity Analysis Module:												
Vol/Sat:	0.33	0.33	0.33	0.56	0.56	0.56	0.59	0.59	0.59	0.69	0.69	0.69
Crit Moves:	****			****			****			****		
Delay/Veh:	12.3	12.3	12.3	15.7	15.7	15.7	16.2	16.2	16.2	19.0	19.0	19.0
Delay 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
AdjDel/Veh:	12.3	12.3	12.3	15.7	15.7	15.7	16.2	16.2	16.2	19.0	19.0	19.0
LOS by Move:	B	B	B	C	C	C	C	C	C	C	C	C
ApproachDel:	12.3			15.7			16.2			19.0		
Delay Adj:	1.00			1.00			1.00			1.00		
ApprAdjDel:	12.3			15.7			16.2			19.0		
LOS by Appr:	B			C			C			C		
AllWayAvgQ:	0.3	0.3	0.3	0.9	0.9	0.9	1.1	1.1	1.1	1.7	1.7	1.7

Note: Queue reported is the number of cars per lane.

Existing AM

Wed Apr 6, 2011 09:50:49

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88FT
3-11-2034

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

Intersection #2 SR 98/Ferrell

Average Delay (sec/veh): 3.6 Worst Case Level Of Service: A[9.7]

Street Name:	Ferrell SR 98			
Approach:	North Bound	South Bound	East Bound	West Bound
Movement:	L - T - R	L - T - R	L - T - R	L - T - R
Control:	Stop Sign	Stop Sign	Uncontrolled	Uncontrolled
Rights:	Include	Include	Include	Include
Lanes:	0 0 1 0 0	0 0 1! 0 0	0 0 1! 0 0	0 0 1! 0 0

Volume Module:

Base Vol:	0 5 0 27 15 2 7 35 1 1 35 20
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 5 0 27 15 2 7 35 1 1 35 20
User 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 Adj:	0.92 0.92 0.92 0.92 0.92 0.92 0.92 0.92 0.92 0.92 0.92 0.92
PHF Volume:	0 5 0 29 16 2 8 38 1 1 38 22
Reduct Vol:	0 0 0 0 0 0 0 0 0 0 0 0
FinalVolume:	0 5 0 29 16 2 8 38 1 1 38 22

Critical Gap Module:

Critical Gp:xxxxx	6.5 xxxxx	7.1 6.5 6.2	4.1 xxxxx xxxxx	4.1 xxxxx xxxxx
FollowUpTim:xxxxx	4.0 xxxxx	3.5 4.0 3.3	2.2 xxxxx xxxxx	2.2 xxxxx xxxxx

Capacity Module:

Cnflct Vol:	xxxxx 116 xxxxx	108 105 49	60 xxxxx xxxxx	39 xxxxx xxxxx
Potent Cap.:	xxxxx 778 xxxxx	876 788 1025	1557 xxxxx xxxxx	1584 xxxxx xxxxx
Move Cap.:	xxxxx 774 xxxxx	868 784 1025	1557 xxxxx xxxxx	1584 xxxxx xxxxx
Volume/Cap:	xxxxx 0.01 xxxxx	0.03 0.02 0.00	0.00 xxxxx xxxxx	0.00 xxxxx xxxxx

Level Of Service Module:

2Way95thQ:	xxxxx 0.0 xxxxx	xxxxx xxxx xxxx	0.0 xxxxx xxxxx	0.0 xxxxx xxxxx
Control Del:xxxxx	9.7 xxxxx	xxxxx xxxx xxxx	7.3 xxxxx xxxxx	7.3 xxxxx xxxxx
LOS by Move:	* A * * *	* * * A	* * * A	* * *
Movement:	LT - LTR - RT			
Shared Cap.:	xxxxx xxxx xxxx	xxxxx 843 xxxxx	xxxxx xxxx xxxx	xxxxx xxxx xxxx
SharedQueue:xxxxx xxxx xxxx xxxx	0.2 xxxxx	xxxxx xxxx xxxx	xxxxx xxxx xxxx	xxxxx xxxx xxxx
Shrd ConDel:xxxxx xxxx xxxx xxxx	9.5 xxxxx	xxxxx xxxx xxxx	xxxxx xxxx xxxx	xxxxx xxxx xxxx
Shared LOS:	* * * * A	* * * * *	* * * * *	* * * *
ApproachDel:	9.7	9.5	xxxxxx	xxxxxx
ApproachLOS:	A	A	*	*

Note: Queue reported is the number of cars per lane.

Existing AM

Wed Apr 6, 2011 09:50:49

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88FT
3-11-2034

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

Intersection #3 SR 98/Brockman

Average Delay (sec/veh): 1.7 Worst Case Level Of Service: A[9.3]

Street Name:	Brockman SR 98			
Approach:	North Bound	South Bound	East Bound	West Bound
Movement:	L - T - R	L - T - R	L - T - R	L - T - R
Control:	Stop Sign	Stop Sign	Uncontrolled	Uncontrolled
Rights:	Include	Include	Include	Include
Lanes:	0 0 0 1 0	0 1 0 0 0	0 1 0 0 0	0 0 1! 0 0

Volume Module:

Base Vol:	0 5 2 4 3 0 1 30 0 3 42 5
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 5 2 4 3 0 1 30 0 3 42 5
User 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 Adj:	0.92 0.92 0.92 0.92 0.92 0.92 0.92 0.92 0.92 0.92 0.92 0.92
PHF Volume:	0 5 2 4 3 0 1 33 0 3 46 5
Reduct Vol:	0 0 0 0 0 0 0 0 0 0 0 0
FinalVolume:	0 5 2 4 3 0 1 33 0 3 46 5

Critical Gap Module:

Critical Gp:xxxxx 6.5 6.2 7.1 6.5 xxxx 4.1 xxxx xxxx 4.1 xxxx xxxx
FollowUpTim:xxxxx 4.0 3.3 3.5 4.0 xxxx 2.2 xxxx xxxx 2.2 xxxx xxxx

Capacity Module:

Cnflct Vol: xxxx 92 33 93 90 xxxx 51 xxxx xxxx 33 xxxx xxxx
Potent Cap.: xxxx 801 1047 895 804 xxxx 1568 xxxx xxxx 1592 xxxx xxxx
Move Cap.: xxxx 799 1047 887 802 xxxx 1568 xxxx xxxx 1592 xxxx xxxx
Volume/Cap: xxxx 0.01 0.00 0.00 0.00 xxxx 0.00 xxxx 0.00 xxxx

Level Of Service Module:

2Way95thQ: xxxx xxxx xxxx xxxx xxxx 0.0 xxxx xxxx 0.0 xxxx xxxx
Control Del:xxxxx xxxx xxxx xxxx xxxx 7.3 xxxx xxxx 7.3 xxxx xxxx
LOS by Move: * * * * * * * A * * * A * * *
Movement: LT - LTR - RT
Shared Cap.: xxxx xxxx 857 848 xxxx xxxx xxxx xxxx xxxx xxxx xxxx
SharedQueue:xxxxx xxxx 0.0 0.0 xxxx xxxx 0.0 xxxx xxxx xxxx xxxx xxxx
Shrd ConDel:xxxxx xxxx 9.2 9.3 xxxx xxxx 7.3 xxxx xxxx xxxx xxxx xxxx
Shared LOS: * * A A * * * A * * * * * *
ApproachDel: 9.2 9.3 * * * * * *
ApproachLOS: A A * * *

Note: Queue reported is the number of cars per lane.

Existing PM

Wed Apr 6, 2011 09:50:49

Page 2-1

Level Of Service Computation Report
2000 HCM 4-Way Stop Method (Base Volume Alternative)

Intersection #1 La Brucherie/McCabe

Cycle (sec):	100	Critical Vol./Cap.(X):	0.259
Loss Time (sec):	0	Average Delay (sec/veh):	8.7
Optimal Cycle:	0	Level Of Service:	A

Street Name: La Brucherie McCabe
Approach: North Bound South Bound East Bound West Bound
Movement: L - T - R L - T - R L - T - R L - T - R
-----|-----|-----|-----|-----|-----|-----|-----|
Control: Stop Sign Stop Sign Stop Sign Stop Sign
Rights: Include Include Include Include
Min. Green: 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Lanes: 0 0 1! 0 0 0 0 1! 0 0 0 0 1! 0 0 0 0
-----|-----|-----|-----|-----|-----|-----|-----|
Volume Module:
Base Vol: 5 43 2 95 60 20 27 78 6 4 69 97
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: 5 43 2 95 60 20 27 78 6 4 69 97
User 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 Adj: 0.92 0.92 0.92 0.92 0.92 0.92 0.92 0.92 0.92 0.92 0.92 0.92
PHF Volume: 5 47 2 103 65 22 29 85 7 4 75 105
Reduct Vol: 0 0 0 0 0 0 0 0 0 0 0 0
Reduced Vol: 5 47 2 103 65 22 29 85 7 4 75 105
PCE 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
MLF 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
FinalVolume: 5 47 2 103 65 22 29 85 7 4 75 105
-----|-----|-----|-----|-----|-----|-----|-----|
Saturation Flow Module:
Adjustment: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
Lanes: 0.10 0.86 0.04 0.55 0.34 0.11 0.24 0.71 0.05 0.02 0.41 0.57
Final Sat.: 70 602 28 398 251 84 177 512 39 19 325 457
-----|-----|-----|-----|-----|-----|-----|-----|
Capacity Analysis Module:
Vol/Sat: 0.08 0.08 0.08 0.26 0.26 0.26 0.17 0.17 0.17 0.23 0.23 0.23
Crit Moves: **** **** **** ****
Delay/Veh: 8.2 8.2 8.2 9.2 9.2 9.2 8.6 8.6 8.6 8.5 8.5 8.5
Delay 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
AdjDel/Veh: 8.2 8.2 8.2 9.2 9.2 9.2 8.6 8.6 8.6 8.5 8.5 8.5
LOS by Move: A A A A A A A A A A A A
ApproachDel: 8.2 9.2 8.6 8.5
Delay Adj: 1.00 1.00 1.00
ApprAdjDel: 8.2 9.2 8.6 8.5
LOS by Appr: A A A A
AllWayAvgQ: 0.1 0.1 0.1 0.3 0.3 0.3 0.2 0.2 0.2 0.3 0.3 0.3

Note: Queue reported is the number of cars per lane.

Existing PM

Wed Apr 6, 2011 09:50:49

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

Intersection #2 SR 98/Ferrell

Average Delay (sec/veh): 2.6 Worst Case Level Of Service: A[10.0]

Street Name:	Ferrell				SR 98
Approach:	North Bound	South Bound	East Bound	West Bound	
Movement:	L - T - R	L - T - R	L - T - R	L - T - R	
Control:	Stop Sign	Stop Sign	Uncontrolled	Uncontrolled	
Rights:	Include	Include	Include	Include	
Lanes:	0 0 0 1 0	0 0 1! 0 0	0 0 1! 0 0	0 0 1! 0 0	

Volume Module:

Base Vol:	0 14 1 23 10 1 3 84 1 1 52 8
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 14 1 23 10 1 3 84 1 1 52 8
User 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 Adj:	0.92 0.92 0.92 0.92 0.92 0.92 0.92 0.92 0.92 0.92 0.92 0.92
PHF Volume:	0 15 1 25 11 1 3 91 1 1 57 9
Reduct Vol:	0 0 0 0 0 0 0 0 0 0 0 0
FinalVolume:	0 15 1 25 11 1 3 91 1 1 57 9

Critical Gap Module:

Critical Gp:xxxxx 6.5 6.2 7.1 6.5 6.2 4.1 xxxx xxxx 4.1 xxxx xxxx
FollowUpTim:xxxxx 4.0 3.3 3.5 4.0 3.3 2.2 xxxx xxxx 2.2 xxxx xxxx

Capacity Module:

Cnflct Vol: xxxx 166 92 170 162 61 65 xxxx xxxx 92 xxxx xxxx
Potent Cap.: xxxx 731 971 799 734 1010 1550 xxxx xxxx 1515 xxxx xxxx
Move Cap.: xxxx 728 971 783 732 1010 1550 xxxx xxxx 1515 xxxx xxxx
Volume/Cap: xxxx 0.02 0.00 0.03 0.01 0.00 0.00 xxxx xxxx 0.00 xxxx xxxx

Level Of Service Module:

2Way95thQ: xxxx xxxx xxxx xxxx xxxx 0.0 xxxx xxxx 0.0 xxxx xxxx
Control Del:xxxxx xxxx xxxx xxxx xxxx 7.3 xxxx xxxx 7.4 xxxx xxxx
LOS by Move: * * * * * * A * * * A * *
Movement: LT - LTR - RT
Shared Cap.: xxxx xxxx 741 xxxx 772 xxxx xxxx xxxx xxxx xxxx xxxx xxxx
SharedQueue:xxxxx xxxx 0.1 xxxx 0.2 xxxx xxxx xxxx xxxx xxxx xxxx xxxx
Shrd ConDel:xxxxx xxxx 10.0 xxxx 9.9 xxxx xxxx xxxx xxxx xxxx xxxx xxxx
Shared LOS: * * A * A * * * * * * * *
ApproachDel: 10.0 9.9 xxxx xxxx
ApproachLOS: A A * *

Note: Queue reported is the number of cars per lane.

Existing PM

Wed Apr 6, 2011 09:50:49

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

Intersection #3 SR 98/Brockman

Average Delay (sec/veh): 1.0 Worst Case Level Of Service: A[9.6]

Street Name:	Brockman				SR 98
Approach:	North Bound	South Bound	East Bound	West Bound	
Movement:	L - T - R	L - T - R	L - T - R	L - T - R	
Control:	Stop Sign	Stop Sign	Uncontrolled	Uncontrolled	
Rights:	Include	Include	Include	Include	
Lanes:	0 1 0 0 0	0 0 1! 0 0	0 1 0 0 0	0 0 0 1 0	

Volume Module:
 Base Vol: 1 1 0 8 3 3 1 81 0 0 0 51 3
 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 1.00
 Initial Bse: 1 1 0 8 3 3 1 81 0 0 0 51 3
 User 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 1.00
 PHF Adj: 0.92 0.92 0.92 0.92 0.92 0.92 0.92 0.92 0.92 0.92 0.92 0.92 0.92
 PHF Volume: 1 1 0 9 3 3 1 88 0 0 0 55 3
 Reduct Vol: 0 0 0 0 0 0 0 0 0 0 0 0 0
 FinalVolume: 1 1 0 9 3 3 1 88 0 0 0 55 3

Critical Gap Module:
 Critical Gp: 7.1 6.5 xxxxx 7.1 6.5 6.2 4.1 xxxxx xxxxx xxxxx xxxxx xxxxx
 FollowUpTim: 3.5 4.0 xxxxx 3.5 4.0 3.3 2.2 xxxxx xxxxx xxxxx xxxxx xxxxx

Capacity Module:
 Cnflct Vol: 151 149 xxxxx 148 147 57 59 xxxxx xxxxx xxxx xxxx xxxx
 Potent Cap.: 822 746 xxxxx 825 748 1015 1558 xxxxx xxxxx xxxx xxxx xxxx
 Move Cap.: 816 746 xxxxx 824 747 1015 1558 xxxxx xxxxx xxxx xxxx xxxx
 Volume/Cap: 0.00 0.00 xxxxx 0.01 0.00 0.00 0.00 xxxxx xxxx xxxx xxxx xxxx

Level Of Service Module:
 2Way95thQ: xxxxx xxxxx xxxxx xxxxx xxxxx 0.0 xxxxx xxxxx xxxx xxxx xxxx
 Control Del:xxxxx xxxxx xxxxx xxxxx xxxxx 7.3 xxxxx xxxxx xxxxx xxxx xxxx
 LOS by Move: * * * * * * A * * * * * *
 Movement: LT - LTR - RT
 Shared Cap.: 779 xxxxx xxxxx xxxxx 839 xxxxx xxxxx xxxxx xxxxx xxxxx
 SharedQueue: 0.0 xxxxx xxxxx xxxxx 0.1 xxxxx 0.0 xxxxx xxxxx xxxxx xxxxx
 Shrd ConDel: 9.6 xxxxx xxxxx xxxxx 9.4 xxxxx 7.3 xxxxx xxxxx xxxxx xxxx xxxx
 Shared LOS: A * * * A * A * * * * * *
 ApproachDel: 9.6 9.4 xxxxxx xxxxxx
 ApproachLOS: A A * *

 Note: Queue reported is the number of cars per lane.

APPENDIX C

CUMULATIVE TRAFFIC DATA INFORMATION

STREET SEGMENT	Total Energy Cumulatives
Brockman Road	
Lyons Rd to Kubler Rd	0
Ferrell Road	
Kubler Rd to SR 98	0
SR 98	
Pulliam Rd to Rockwood Rd	220
Rockwood Rd to Ferrell Rd	280
Ferrell Road to Weed Road	280
East of Weed Road	280
SR-111	
North of Sinclair Road	630
Peterson Road to Linsday Road	1340
SR-115	
SR-111 to Railroad Ave	520
SR- 115 (Wiest Road)	
South of SR-115/Main St	630
Sinclair Road	
East of SR 111	70

INTERSECTION	DIRECTION	TOTAL ENERGY CUMULATIVES					
		Ram	Rpm	Tam	Tpm	Lam	Lpm
La Brucherie Rd/McCabe Rd	Sb	0	0	12	0	0	0
	Wb	0	0	0	0	0	0
	Nb	0	0	0	12	0	0
	Eb	0	0	0	0	0	0
SR 98/Ferrell Rd	Sb	0	0	0	0	0	0
	Wb	0	0	91	0	0	0
	Nb	0	0	0	0	0	0
	Eb	0	0	0	91	0	0
SR 98/ Brockman Rd	Sb	0	0	0	0	0	63
	Wb	63	0	28	0	0	0
	Nb	0	0	0	0	0	0
	Eb	0	0	0	28	0	0
4. SR-98/ S. Clark Rd	Sb	0	0	0	0	0	0
	Wb	0	0	91	0	0	0
	Nb	0	0	0	0	0	0
	Eb	0	0	0	91	0	0
5. SR-98/ Weed Rd	Sb	0	0	0	0	0	0
	Wb	0	0	91	0	0	0
	Nb	0	0	0	0	0	0
	Eb	0	0	0	91	0	0

Google maps

imperial county

LG BME PROJECTS

ENERGY PROJECTS
OTHER PROJECTS

Search Maps

Show search options

11/16/10

4/6/11

[Edit](#) [Print](#) [Send](#) [Link](#)

BME Cumulatives

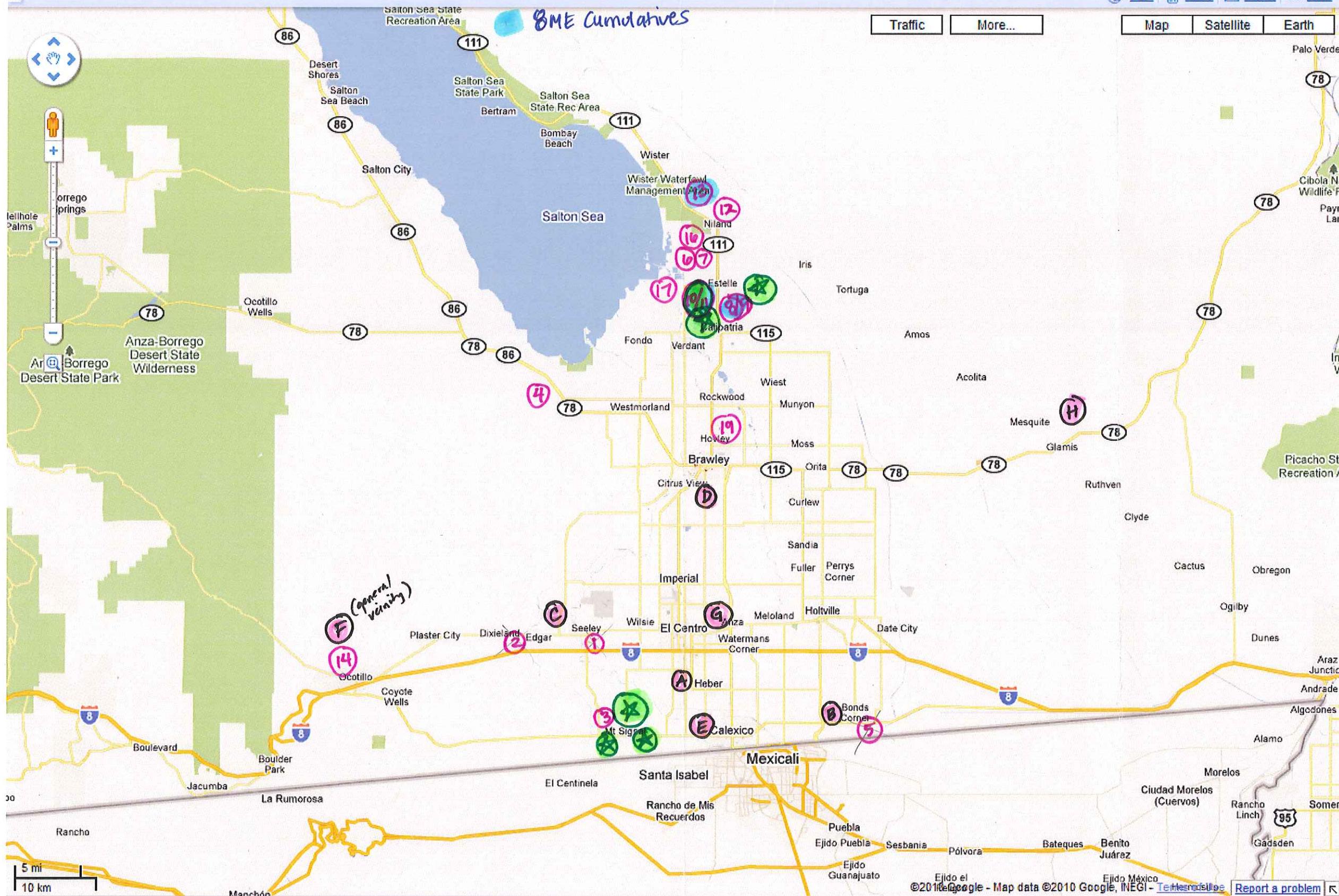
Traffic

More...

Map

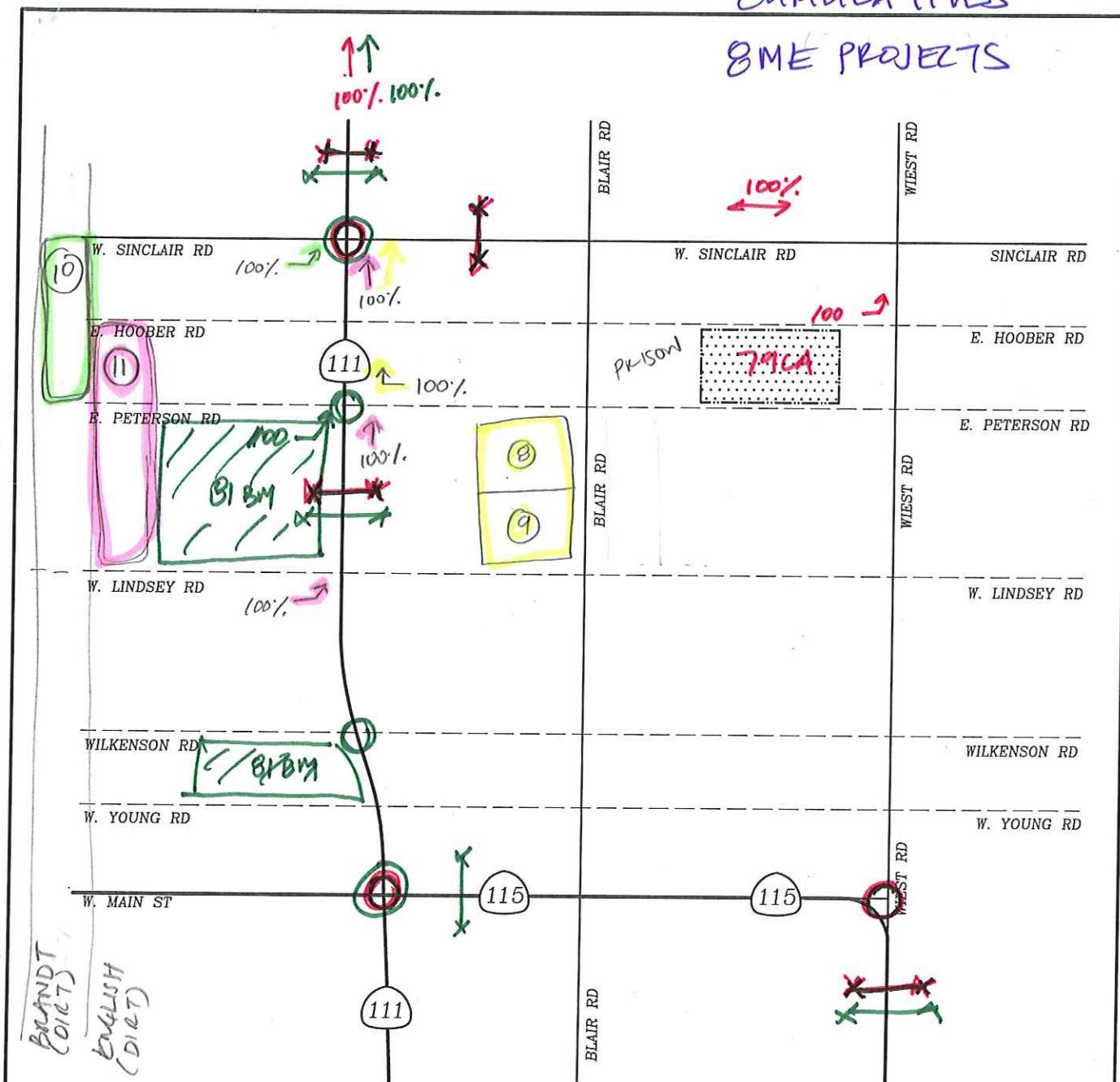
Satellite

Earth



CUMULATIVES

8ME PROJECTS



LEGEND

– Regional Trip Distribution

79 CA construction
81 BM construction

* 27+G #13 North of Miland = No construction
Traffic

A circular icon containing a white arrow pointing upwards, representing North. Below the icon, the text "NOT TO SCALE" is printed.

Figure 7-1

Construction Project Distribution

79CA: SALTON SEA SOLAR FARM I

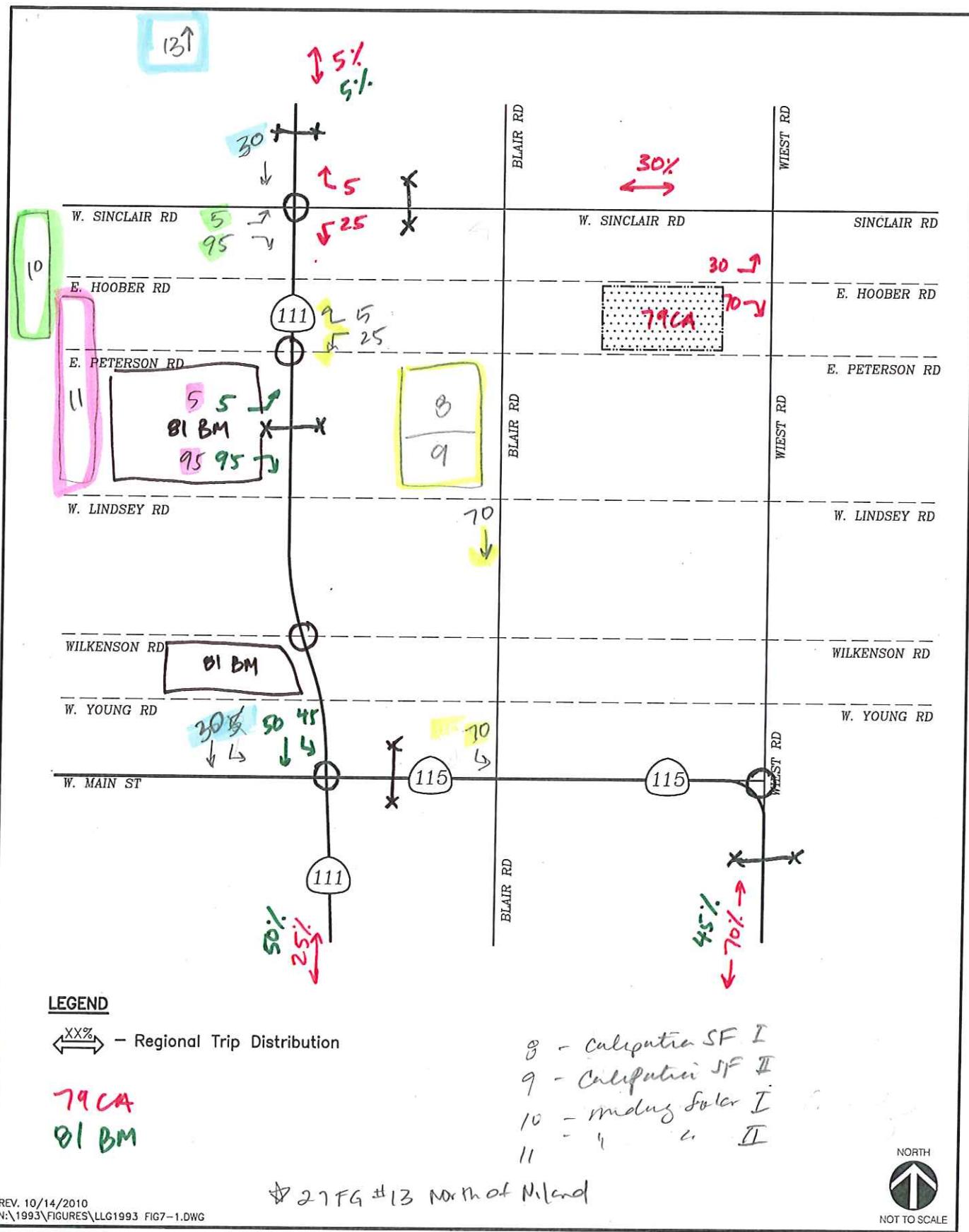


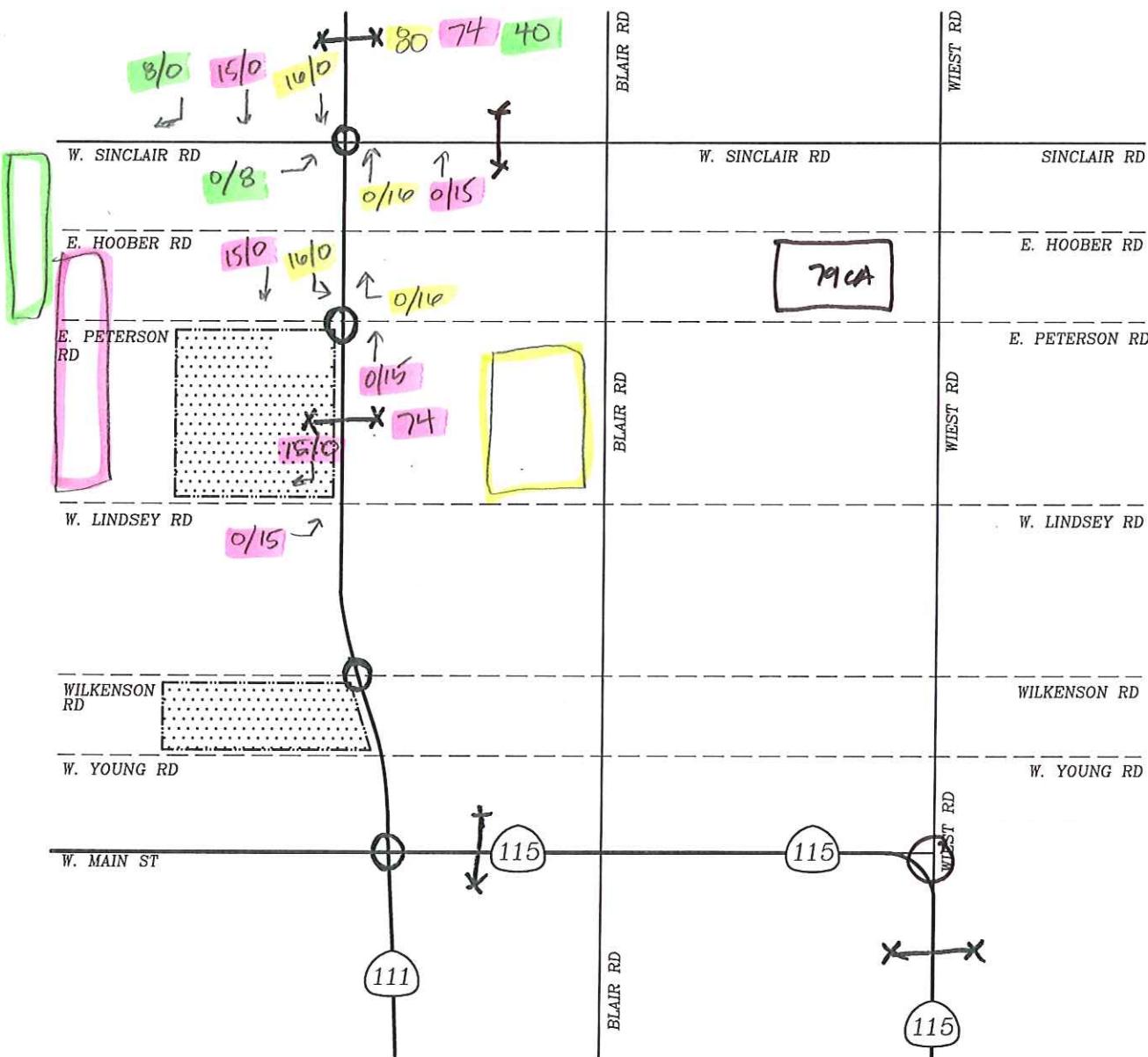
Figure 7-1

Construction Project Distribution
EMPLOYEE TRUCK TRIPS

79CA: SALTON SEA SOLAR FARM I

CUMULATIVES

SME PROJECTS



LEGEND

- $\overleftarrow{\overrightarrow{XX\%}}$ - Regional Trip Distribution
- \uparrow - Inbound Trip Distribution
- \downarrow - Outbound Trip Distribution

	IN	CNT
AM	10	0
PM	0	10
AM	IN	CNT
PM	0	8
AM	15	0
PM	0	15

$(8/0) = 80 \text{ ADT}$
 $(10) = 40$
 $(11) = 74$

REV. 10/18/2010
N:\1994\FIGURES\LLG1994 FIG7-1.DWG

11/17/10



NOT TO SCALE

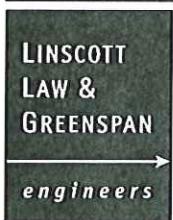
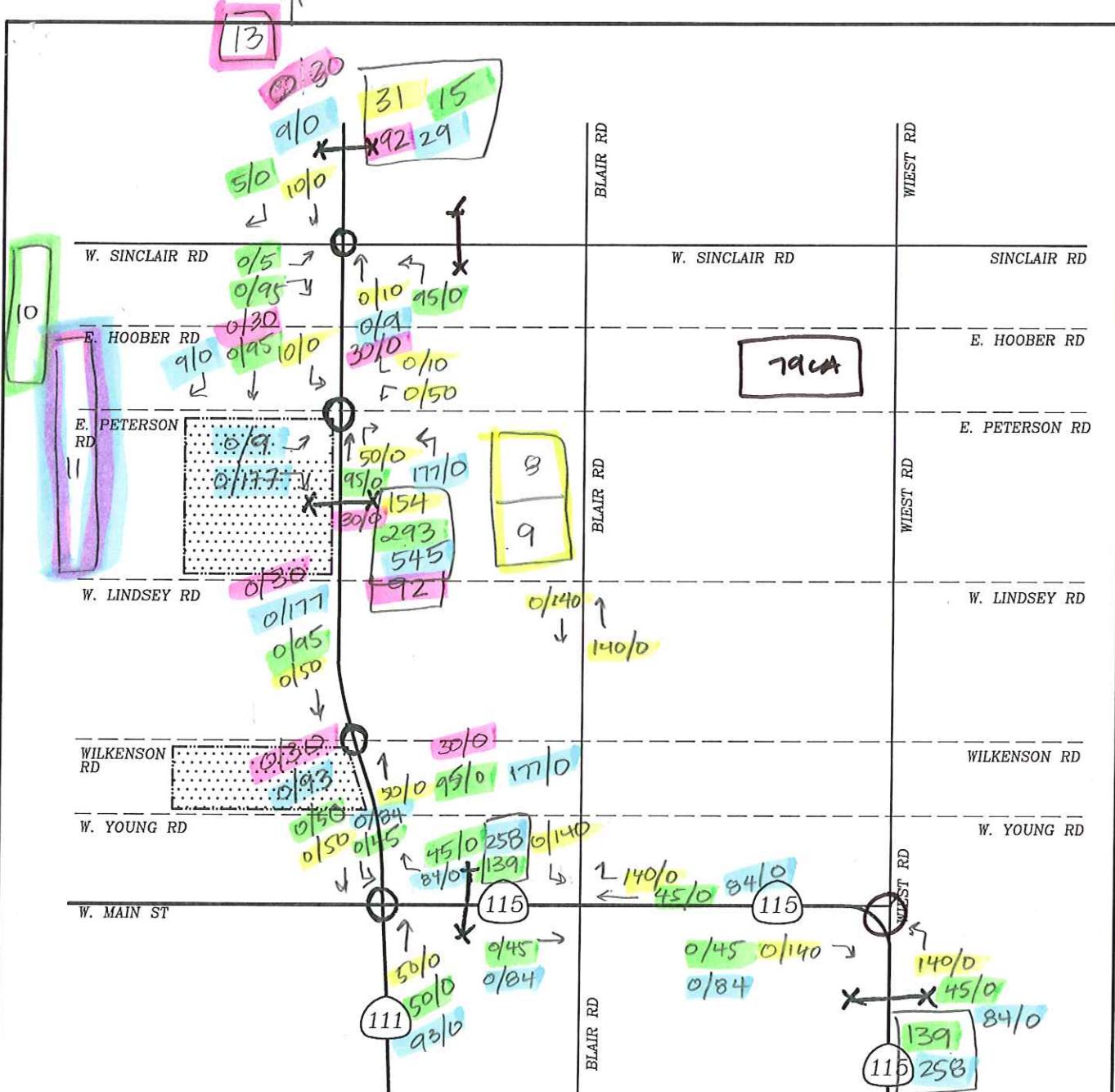


Figure 7-1
ASSIGNMENT
Construction Project Distribution
Truck Trips

8IBM: SALTON SEA SOLAR FARM II



LEGEND

-  – Regional Trip Distribution
 – Inbound Trip Distribution
 – Outbound Trip Distribution

REV. 10/18/2010
N:\1994\FIGURES\LLG1994 FIG7-1.DWG

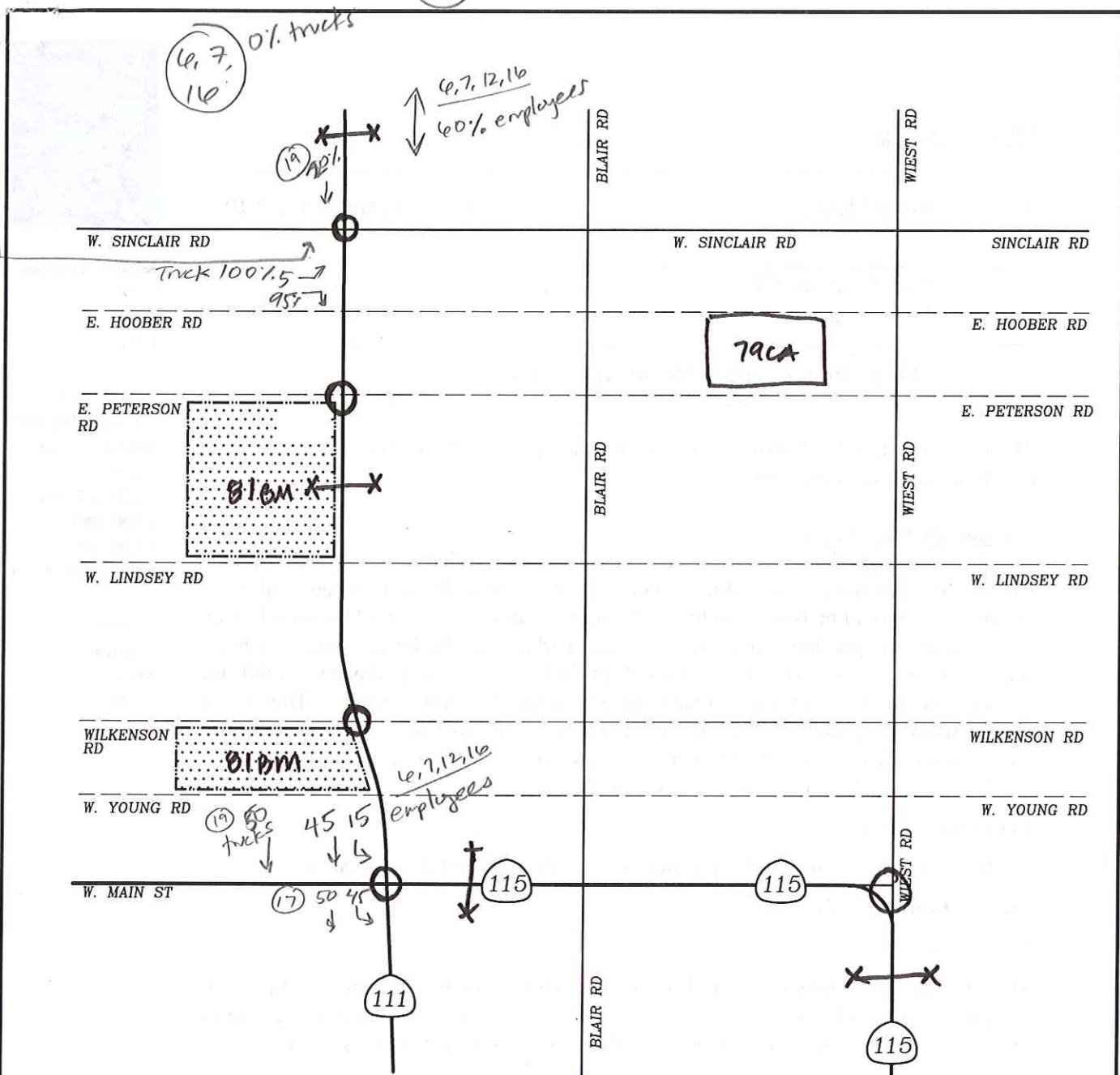
11/17/10

(8/9)	= 1616 ADT	IN 200 0 OUT 0 200
(10)	= 308 ADT	IN 100 0 OUT 0 100
(11)	= 574 ADT	IN 180 0 OUT 0 180
(13)	= 307 ADT	IN 100 0 OUT 0 100



Figure 7-1

Construction Project Distribution EMPLOYEE TRUCK TRIPS



LEGEND

- ↔ XX% - Regional Trip Distribution
- ↑ - Inbound Trip Distribution
- ↓ - Outbound Trip Distribution

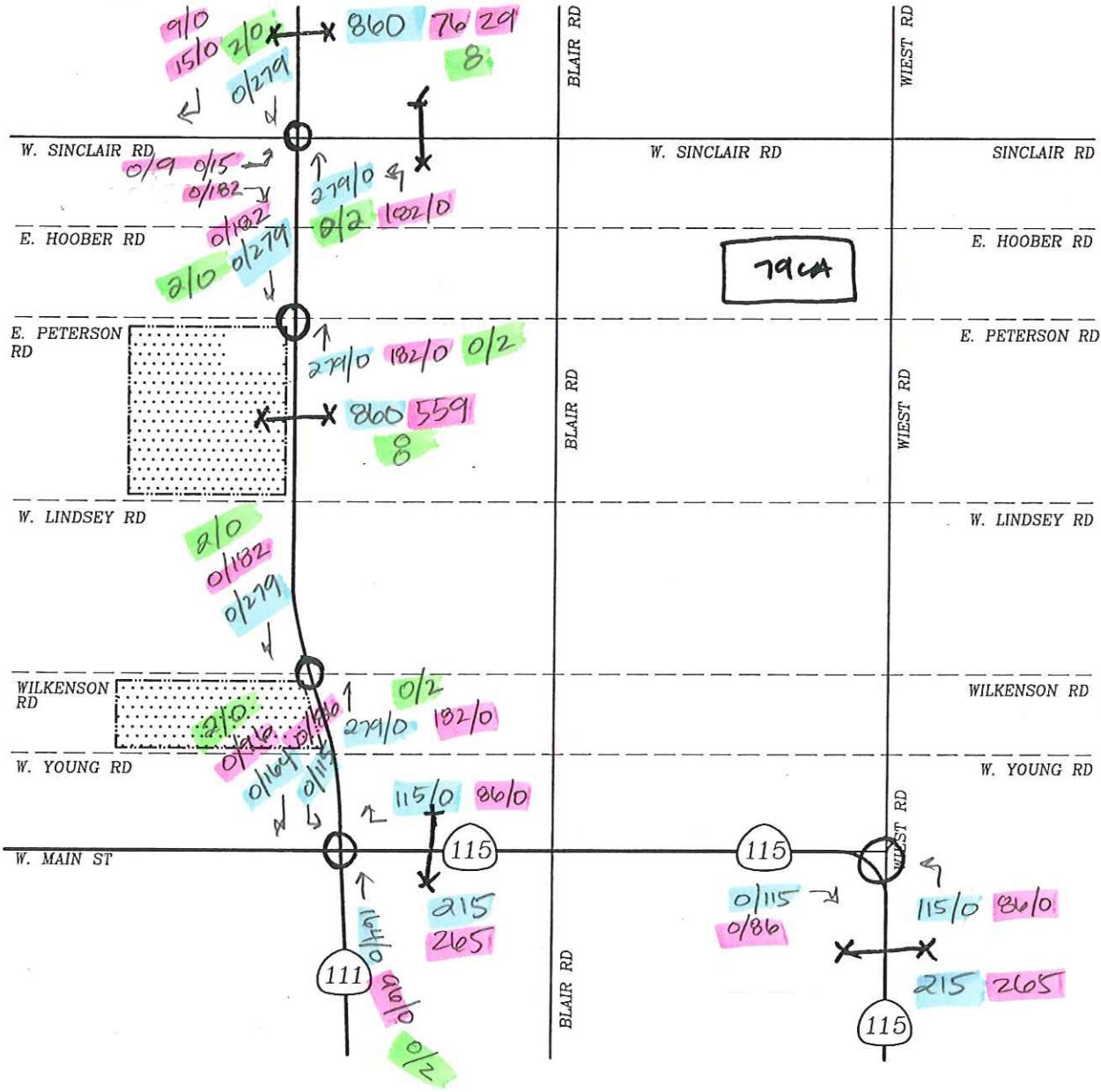
REV. 10/18/2010
N:\1994\FIGURES\LLG1994 FIG7-1.DWG



Figure 7-1
Construction Project Distribution

EMPLOYEES TRUCK TRIPS

8IBM: SALTON SEA SOLAR FARM II



LEGEND

-  — Regional Trip Distribution
 — Inbound Trip Distribution
 — Outbound Trip Distribution

REV. 10/18/2010
N:\1994\FIGURES\LLG1994 FIG7-1.DWG

11/17/10

40,7,12,16 employees = 1434 ADT
only

	AM	PM
I	465	0
O	0	465

(17) TRUCKS 76 AD

1 15 0

(17) Empl. 588

1 191 0 NORTH

(19) Trucks only 40

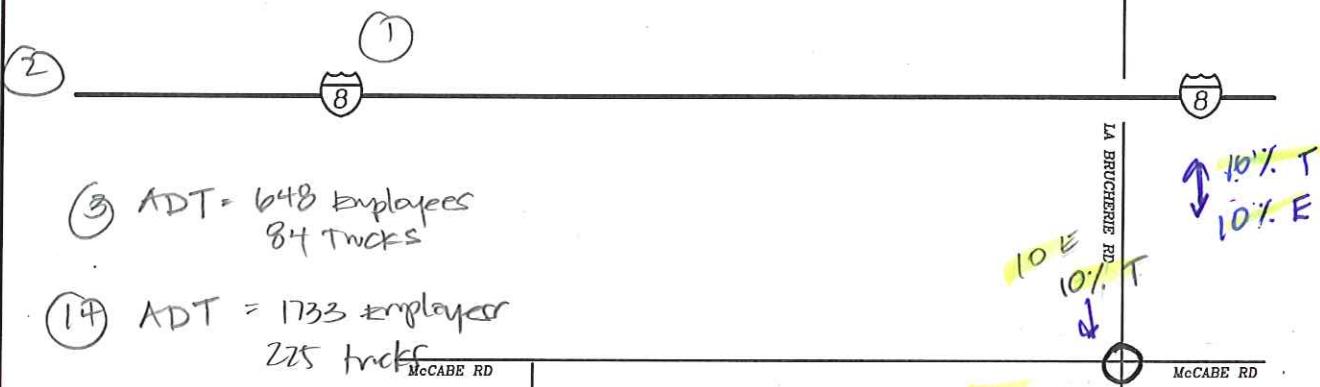
8 0
0 8 NOT TO SCALE

Figure 7-1

Construction Project Distribution

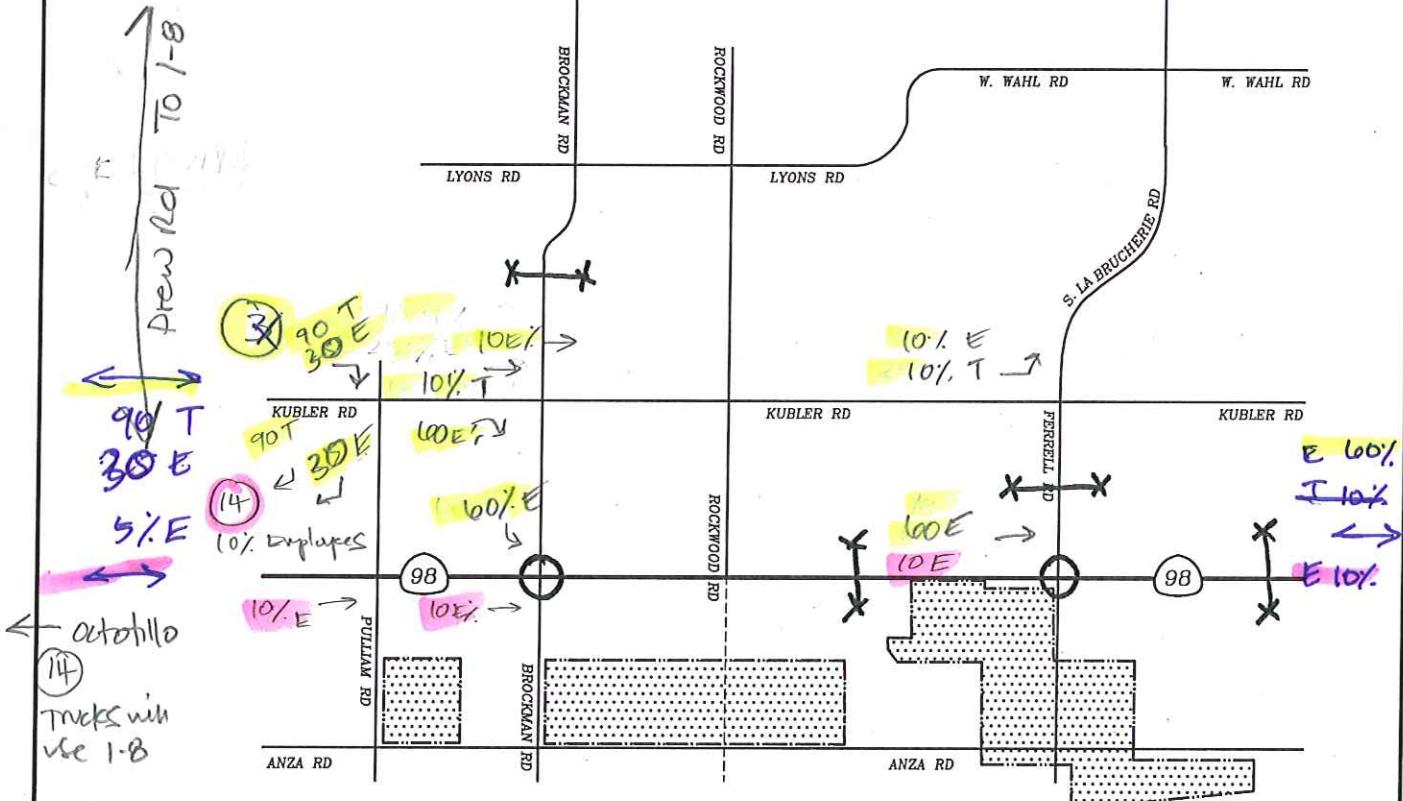
EMPLOYEE \backslash TRUCK TRIPS

#1 & 2 will most likely use 1-B from SR. III



LEGEND

– Regional Trip Distribution



REV. 10/19/2010
N:\1989\FIGURES\LLG1989 FIG7-1.DWG



Figure 7-1

Construction Project Distribution Truck Trips

MOUNT SIGNAL SOLAR FARM I

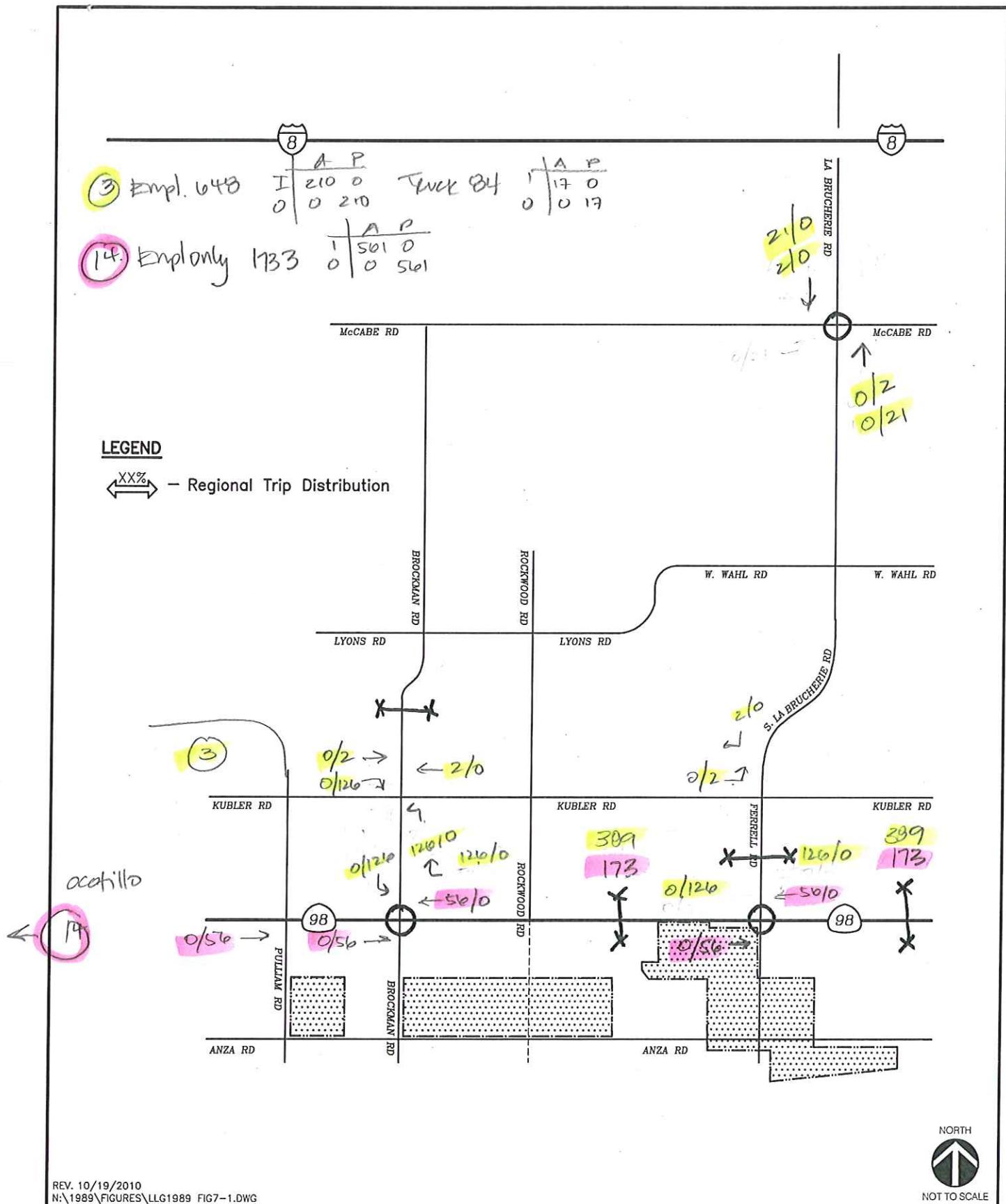


Figure 7-1

Construction Project Distribution Truck Trips

MOUNT SIGNAL SOLAR FARM I

Imperial County

Alternative Power Projects

CUP	Project Name	Project Acres	Mega-Watts	Daily Total	AM Peak Hour			PM Peak Hour		
					In	Out	Total	In	Out	Total
10-0011	1. Imperial Solar South	903.00	200.00							
	Construction Vehicles			462	150	0	150	0	150	150
	Construction Trucks			30	6	0	6	0	6	6
	Construction Trucks (w/PCE 2.0)			60	12	0	12	0	12	12
	Total Construction			522	162	0	162	0	162	162
	O&M Vehicles			60	12	3	15	3	12	15
10-0012	2. Imperial Solar West	1,138.00	200.00							
	Construction Vehicles			462	150	0	150	0	150	150
	Construction Trucks			30	6	0	6	0	6	6
	Construction Trucks (w/PCE 2.0)			60	12	0	12	0	12	12
	Total Construction			522	162	0	162	0	162	162
	O&M Vehicles			60	12	3	15	3	12	15
10-0017	3. Centinela Solar	2,067.00	175.00							
	Construction Vehicles			648	210	0	210	0	210	210
	Construction Trucks			42	8	0	8	0	8	8
	Construction Trucks (w/PCE 2.0)			84	17	0	17	0	17	17
	Total Construction			732	227	0	227	0	227	227
	O&M Vehicles			84	17	4	21	4	17	21
10-0015	4. Superstition Solar 1	5,516.00	500.00							
	Construction Vehicles			1155	374	0	374	0	374	374
	Construction Trucks			75	15	0	15	0	15	15
	Construction Trucks (w/PCE 2.0)			150	30	0	30	0	30	30
	Total Construction			1305	404	0	404	0	404	404
	O&M Vehicles			150	30	8	38	8	30	38
	Calexico Solar Farm I	1,033.00	200.00							
	Calexico Solar Farm II	1,477.00	200.00							
10-0031	Mount Signal Solar	1,375.00	200.00							

Imperial County

Alternative Power Projects

CUP	Project Name	Project Acres	Mega-Watts	Daily Total	AM Peak Hour			PM Peak Hour		
					In	Out	Total	In	Out	Total
10-0028	5. Bethel Solar X, Inc	571.00	49.40							
	Construction Vehicles			304	99	0	99	0	99	99
	Construction Trucks			20	4	0	4	0	4	4
	Construction Trucks (w/PCE 2.0)			40	8	0	8	0	8	8
	Total Construction			344	106	0	106	0	106	106
	O&M Vehicles			15	3	1	4	1	3	4
10-0032	6. Energy Source Solar I,LLC	480.00	80.00							
	Construction Vehicles			493	160	0	160	0	160	160
	Construction Trucks			32	6	0	6	0	6	6
	Construction Trucks (w/PCE 2.0)			64	13	0	13	0	13	13
	Total Construction			557	172	0	172	0	172	172
	O&M Vehicles			24	5	1	6	1	5	6
10-0033	7. Energy Source Solar II,LLC	480.00	80.00							
	Construction Vehicles			493	160	0	160	0	160	160
	Construction Trucks			32	6	0	6	0	6	6
	Construction Trucks (w/PCE 2.0)			64	13	0	13	0	13	13
	Total Construction			557	172	0	172	0	172	172
	O&M Vehicles			24	5	1	6	1	5	6
10-0029	Salton Sea Solar Farm I	320.00	49.90							
10-0030	Salton Sea Solar Farm II	623.00	100.00							
10-0034	8. Calipat Solar Farm I	280.00	50.00							
	Construction Vehicles			308	100	0	100	0	100	100
	Construction Trucks			20	4	0	4	0	4	4
	Construction Trucks (w/PCE 2.0)			40	8	0	8	0	8	8
	Total Construction			348	108	0	108	0	108	108
	O&M Vehicles			15	3	1	4	1	3	4

Imperial County

Alternative Power Projects

CUP	Project Name	Project Acres	Mega-Watts	Daily Total	AM Peak Hour			PM Peak Hour		
					In	Out	Total	In	Out	Total
10-0035	9. Calipat Solar Farm II	280.00	50.00							
	Construction Vehicles			308	100	0	100	0	100	100
	Construction Trucks			20	4	0	4	0	4	4
	Construction Trucks (w/PCE 2.0)			40	8	0	8	0	8	8
	Total Construction			348	108	0	108	0	108	108
	O&M Vehicles			15	3	1	4	1	3	4
10-0025	Frink Read Solar Power	280.00	30.04							
10-0024	Keystone Solar Power	40.00	6.06							
10-0036	10. Midway Solar Farm I	326.00	50.00							
	Construction Vehicles			308	100	0	100	0	100	100
	Construction Trucks			20	4	0	4	0	4	4
	Construction Trucks (w/PCE 2.0)			40	8	0	8	0	8	8
	Total Construction			348	108	0	108	0	108	108
	O&M Vehicles			15	3	1	4	1	3	4
10-0037	11. Midway Solar Farm II	803.00	155.00							
	Construction Vehicles			574	186	0	186	0	186	186
	Construction Trucks			37	7	0	7	0	7	7
	Construction Trucks (w/PCE 2.0)			74	15	0	15	0	15	15
	Total Construction			648	201	0	201	0	201	201
	O&M Vehicles			47	9	2	12	2	9	12
10-0014	12. IV Solar Company	123.00	23.00							
	Construction Vehicles			142	46	0	46	0	46	46
	Construction Trucks			9	2	0	2	0	2	2
	Construction Trucks (w/PCE 2.0)			18	4	0	4	0	4	4
	Total Construction			160	50	0	50	0	50	50
	O&M Vehicles			7	1	0	2	0	1	2

Imperial County

Alternative Power Projects

CUP	Project Name	Project Acres	Mega-Watts	Daily Total	AM Peak Hour			PM Peak Hour		
					In	Out	Total	In	Out	Total
10-0005	13. Chocolate Mountain	320.00	49.90							
	Construction Vehicles			307	100	0	100	0	100	100
	Construction Trucks			20	4	0	4	0	4	4
	Construction Trucks (w/PCE 2.0)			40	8	0	8	0	8	8
	Total Construction			347	108	0	108	0	108	108
	O&M Vehicles			15	3	1	4	1	3	4
				18,435.00	2,448.30					

CUP	Project Name	Project Acres	Mega-Watts							
10-0007	14. Ocotillo Express	15,000.00	750.00							
	Construction Vehicles			1733	561	0	561	0	561	561
	Construction Trucks			113	23	0	23	0	23	23
	Construction Trucks (w/PCE 2.0)			225	45	0	45	0	45	45
	Total Construction			1958	606	0	606	0	606	606
	O&M Vehicles			225	45	11	56	11	45	56
BLM/CEC	15. IV Solar	6,140.00	709.00							
	Construction Vehicles			1638	531	0	531	0	531	531
	Construction Trucks			106	21	0	21	0	21	21
	Construction Trucks (w/PCE 2.0)			213	43	0	43	0	43	43
	Total Construction			1850	573	0	573	0	573	573
	O&M Vehicles			213	43	11	53	11	43	53
				21,140.00	1,459.00					

Imperial County

Alternative Power Projects

CUP	Project Name	Project Acres	Mega-Watts	Daily Total	AM Peak Hour			PM Peak Hour		
					In	Out	Total	In	Out	Total
G10-0002	16. Hudson Ranch II	326.26	49.90							
	Construction Vehicles			307	100	0	100	0	100	100
	Construction Trucks			20	4	0	4	0	4	4
	Construction Trucks (w/PCE 2.0)			40	8	0	8	0	8	8
	Total Construction			347	108	0	108	0	108	108
	O&M Vehicles			15	3	1	4	1	3	4
10-0004	17. Black Rock Unit# 1 2 3	160.00	159.00							
	Construction Vehicles			588	191	0	191	0	191	191
	Construction Trucks			38	8	0	8	0	8	8
	Construction Trucks (w/PCE 2.0)			76	15	0	15	0	15	15
	Total Construction			665	206	0	206	0	206	206
	O&M Vehicles			48	10	2	12	2	10	12
10-0002	18. Ram Power/Overlay	27,875.00	50.00							
	Construction Vehicles			308	100	0	100	0	100	100
	Construction Trucks			20	4	0	4	0	4	4
	Construction Trucks (w/PCE 2.0)			40	8	0	8	0	8	8
	Total Construction			348	108	0	108	0	108	108
	O&M Vehicles			15	3	1	4	1	3	4
08-0023	19. Orni 19	32.00	49.90							
	Construction Vehicles			307	100	0	100	0	100	100
	Construction Trucks			20	4	0	4	0	4	4
	Construction Trucks (w/PCE 2.0)			40	8	0	8	0	8	8
	Total Construction			347	108	0	108	0	108	108
	O&M Vehicles			15	3	1	4	1	3	4

28,393.26 308.80

Imperial County

Alternative Power Projects

CUP	Project Name	Project Acres	Mega-Watts	Daily Total	AM Peak Hour			PM Peak Hour		
					In	Out	Total	In	Out	Total

DG/JM/PV/S/energy project spreadsheet **67,968.26** **4,216.10**

Rate Assumptions:

	ADT/MW Rate	AM/PM
Construction Vehicles		
<= 100 MW	6.16	32.4%
100>MW<200	3.7	
>=200 MW	2.31	
Construction Trucks		
<= 100 MW	0.4	20.0%
100>MW<200	0.24	
>=200 MW	0.15	
O&M Vehicles		Split
<= 100 MW	0.8	25.0%
100>MW<200	0.48	
>=200 MW	0.3	80:20

Imperial County Planning & Development Services
Planning Project Status Report

*** As of October 29, 2010 ***

Internal Projects		Public Hearing Dates <small>(scheduled or projected for PC)</small>			
		ALUC	EEC	PC	B/S
General Plans					
GP 06-0008 (Mosaic SP)	054-160-023-000	Jim		8/9/07	7/28/10
GP 07-0005 (Procalamos RES)	059-140-007-000	Richard		5/29/08	11/24/10
GP 07-0007 (Desert Springs Oasis)	034-300-011-000	Richard		6/26/08	TBD
GP 07-0006 (Brookfield 101 Ranch SP)	040-190-010-000	David		4/24/08	12/8/10
GP 07-0002 (Rancho Los Lagos SP)	040-130-010-000	David		8/23/07	12/8/10
GP 08-0003 (Coyote Wells)	033-620-033-000	David			8/11/10 11/8/10
Specific Plans					
SP 06-0003 (Alder 70 - Scaroni)	054-290-004-000	Pat		n/a	n/a
SP 06-0004 (Mosaic)	054-160-023-000	Jim		8/9/07	7/28/10
SP 07-0003 (Procalamos RES)	059-140-007-000	Richard		5/29/08	11/24/10
SP 07-0005 (Desert Springs Oasis)	034-300-001-000	Richard		6/26/08	TBD
SP 08-0001 (Coyote Wells)	033-620-033-000	David			7/28/10 11/8/10
SP 07-0001 (Rancho Los Lago SP)	040-130-010-000	David		8/23/07	12/8/10
SP 07-0004 (Brookfield 101 Ranch SP)	040-190-010-000	David		4/24/08	12/8/10
Zone Changes					
ZC 06-0009 (Mosaic SP)	054-160-023-000	Jim		8/9/07	7/28/10
ZC 06-0005 (Ramirez)	058-010-004-000	David			11/24/10
ZC 07-0008 (Brookfield 101 Ranch SP)	040-190-010-000	David		4/24/08	12/8/10
ZC 08-0003 (Coyote Wells)	033-620-033-000	David			n/a 11/8/10
ZC 07-0002 (Rancho Los Lagos SP)	040-130-010-000	David		8/23/07	12/8/10
ZC 09-0002 (SunEco)	021-290-020-000	Angie			
ZC 08-0005 (J. Rodriguez)	054-260-005-000	Angie		4/7/10	10/27/10
ZC 09-0001 (County Center II-ICOE)	054-510-001-000	Joe		n/a	n/a
ZC 07-0009 (Desert Springs Oasis)	034-300-011-000	Richard		6/26/08	TBD
ZC 07-0007 (Procalamos/Wesfinn)	059-140-007-000	Richard			11/24/10
ZC 10-0002 (Ram Power)	039-110-015-000	Richard		n/a	n/a
Environmental Impact Reports					
Alder 70 (Scaroni) EIR - [MBA]	El Centro East	Pat			n/a
CUP 10-011 Imperial Solar Energy Center South	052-190-022-001	Pat	6/16/10	6/24/10	
CUP 10-012 Imperial Solar Energy Center West	034-360-076-001	Pat			7/14/10 8/10/10
Rancho Los Logos EIR - [MBA]	Brawley South	David		8/23/07	n/a
Coyote Wells [PMC]	Ocotillo	David			11/8/10
Brookfield 101 Ranch EIR [PMC]	Brawley South	David		4/24/08	n/a
TR 00985 Wind Zero	033-620-033	David			7/14/10 11/8/10
Centinela Solar [DEIR]	Seeley	David			n/a
Mosaic SP EIR - [BRG]	Heber	Jim		8/9/07	7/28/10
Ocotillo Express LLC	West Ocotillo	Angie		n/a	n/a
ORNI 19 Focused EIR	Brawley North	Angie		12/10/09	n/a
Mesquite Regional Landfill (BRG)	Glamis area	Richard		7/12/09	11/10/10
Procalamos RES EIR - [Recon]	Gateway	Richard		5/29/08	11/24/10
Desert Springs Oasis [BRG]	Seeley North	Richard		6/26/08	TBD
Tract Maps					
TR 00970 (Alder 70 - Scaroni)	054-290-004-000	Pat			n/a
TR 00971 (Mosaic SP)	054-160-023-000	Jim		8/9/07	7/28/10
TR 00974 (Rancho Los Lagos SP)	040-130-010-000	David		n/a	n/a
TR 00979 (Brookfield 101 Ranch SP)	040-190-010-000	David			n/a
TR 00980 (Desert Springs Oasis)	034-300-011-000	Richard		6/26/08	TBD
TR 00972 (Procalamos/Westfnn Inv.)- RES	059-140-007-000	Richard		5/29/08	11/24/10
TR 00941 (IPED, LLC)	059-210-045-000	Richard		2/28/08	Hold

APPENDIX D

PEAK HOUR INTERSECTION ANALYSIS WORKSHEETS – CONSTRUCTION YEAR

Construction Year W/O AM Wed Apr 6, 2011 09:50:51

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Level Of Service Computation Report
2000 HCM 4-Way Stop Method (Base Volume Alternative)

Intersection #1 La Brucherie/McCabe

Cycle (sec): 100 Critical Vol./Cap.(X): 0.750
Loss Time (sec): 0 Average Delay (sec/veh): 19.2
Optimal Cycle: 0 Level Of Service: C

Street Name: La Brucherie McCabe
Approach: North Bound South Bound East Bound West Bound
Movement: L - T - R L - T - R L - T - R L - T - R
Control: Stop Sign Stop Sign Stop Sign Stop Sign
Rights: Include Include Include Include
Min. Green: 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Lanes: 0 0 1! 0 0 0 0 1! 0 0 0 0 0 0 1! 0 0
Volume Module:
Base Vol: 18 127 5 128 112 57 45 256 17 4 237 163
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: 18 127 5 128 112 57 45 256 17 4 237 163
User 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 Adj: 0.92 0.92 0.92 0.92 0.92 0.92 0.92 0.92 0.92 0.92 0.92 0.92
PHF Volume: 20 138 5 139 122 62 49 278 18 4 258 177
Reduct Vol: 0 0 0 0 0 0 0 0 0 0 0 0
Reduced Vol: 20 138 5 139 122 62 49 278 18 4 258 177
PCE 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
MLF 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
FinalVolume: 20 138 5 139 122 62 49 278 18 4 258 177
Saturation Flow Module:
Adjustment: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
Lanes: 0.12 0.85 0.03 0.43 0.38 0.19 0.14 0.81 0.05 0.01 0.59 0.40
Final Sat.: 53 372 15 222 194 99 76 434 29 6 343 236
Capacity Analysis Module:
Vol/Sat: 0.37 0.37 0.37 0.63 0.63 0.63 0.64 0.64 0.64 0.75 0.75 0.75
Crit Moves: **** **** ****
Delay/Veh: 13.1 13.1 13.1 18.2 18.2 18.2 18.5 18.5 18.5 22.8 22.8 22.8
Delay 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
AdjDel/Veh: 13.1 13.1 13.1 18.2 18.2 18.2 18.5 18.5 18.5 22.8 22.8 22.8
LOS by Move: B B B C C C C C C C C C
ApproachDel: 13.1 18.2 18.5 22.8
Delay Adj: 1.00 1.00 1.00 1.00
ApprAdjDel: 13.1 18.2 18.5 22.8
LOS by Appr: B C C C
AllWayAvgQ: 0.4 0.4 0.4 1.2 1.2 1.2 1.4 1.4 1.4 2.3 2.3 2.3

Note: Queue reported is the number of cars per lane.

Construction Year W/O AM Wed Apr 6, 2011 09:50:51

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Level Of Service Computation Report

2000 HCM Unsignalized Method (Base Volume Alternative)

Intersection #2 SR 98/Ferrell

Average Delay (sec/veh): 2.4 Worst Case Level Of Service: B[10.4]

Street Name:	Ferrell				SR 98											
Approach:	North Bound		South Bound		East Bound		West Bound									
Movement:	L	-	T	-	R	L	-	T	-	R	L	-	T	-	R	
Control:	Stop Sign				Stop Sign				Uncontrolled				Uncontrolled			
Rights:	Include				Include				Include				Include			
Lanes:	0	0	1	0	0	0	0	1!	0	0	0	0	0	1!	0	0
Volume Module:																
Base Vol:	0	5	0	28	16	2	7	37	1	1	128	21				
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	5	0	28	16	2	7	37	1	1	128	21				
User 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 Adj:	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92				
PHF Volume:	0	5	0	30	17	2	8	40	1	1	139	23				
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0				
FinalVolume:	0	5	0	30	17	2	8	40	1	1	139	23				
Critical Gap Module:																
Critical Gp:xxxxx	6.5	xxxxx	7.1	6.5	6.2	4.1	xxxxx	xxxxx	4.1	xxxxx	xxxxx					
FollowUpTim:xxxxx	4.0	xxxxx	3.5	4.0	3.3	2.2	xxxxx	xxxxx	2.2	xxxxx	xxxxx					
Capacity Module:																
Cnflct Vol:	xxxxx	220	xxxxx	211	209	151	162	xxxxx	xxxxx	41	xxxxx	xxxxx				
Potent Cap.:	xxxxx	682	xxxxx	750	691	901	1429	xxxxx	xxxxx	1581	xxxxx	xxxxx				
Move Cap.:	xxxxx	678	xxxxx	742	687	901	1429	xxxxx	xxxxx	1581	xxxxx	xxxxx				
Volume/Cap:	xxxxx	0.01	xxxxx	0.04	0.03	0.00	0.01	xxxxx	xxxxx	0.00	xxxxx	xxxxx				
Level Of Service Module:																
2Way95thQ:	xxxxx	0.0	xxxxx	xxxxx	xxxxx	xxxxx	0.0	xxxxx	xxxxx	0.0	xxxxx	xxxxx				
Control Del:xxxxx	10.4	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx	7.5	xxxxx	xxxxx	7.3	xxxxx	xxxxx				
LOS by Move:	*	B	*	*	*	*	A	*	*	A	*	*				
Movement:	LT	-	LTR	-	RT	LT	-	LTR	-	RT	LT	-	LTR	-	RT	
Shared Cap.:	xxxxx	xxxxx	xxxxx	xxxxx	727	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx				
SharedQueue:xxxxx	xxxxx	xxxxx	xxxxx	xxxxx	0.2	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx				
Shrd ConDel:xxxxx	xxxxx	xxxxx	xxxxx	xxxxx	10.3	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx				
Shared LOS:	*	*	*	*	B	*	*	*	*	*	*	*				
ApproachDel:	10.4				10.3			xxxxxx			xxxxxx					
ApproachLOS:	B				B			*			*					

Note: Queue reported is the number of cars per lane.

Construction Year W/O AM Wed Apr 6, 2011 09:50:51

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Level Of Service Computation Report

2000 HCM Unsignalized Method (Base Volume Alternative)

Intersection #3 SR 98/Brockman

Average Delay (sec/veh): 0.9 Worst Case Level Of Service: A[9.7]

Street Name:	Brockman				SR 98
Approach:	North Bound	South Bound	East Bound	West Bound	
Movement:	L - T - R	L - T - R	L - T - R	L - T - R	
Control:	Stop Sign	Stop Sign	Uncontrolled	Uncontrolled	
Rights:	Include	Include	Include	Include	
Lanes:	0 0 0 1 0	0 1 0 0 0	0 1 0 0 0	0 0 1! 0 0	
Volume Module:					
Base Vol:	0 5 2 4 3 0	1 32	0 3 72	68	
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	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 5 2 4 3 0	1 32	0 3 72	68	
User 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	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 Adj:	0.92 0.92 0.92 0.92 0.92 0.92	0.92 0.92 0.92 0.92 0.92 0.92	0.92 0.92 0.92 0.92 0.92 0.92	0.92 0.92 0.92 0.92 0.92 0.92	
PHF Volume:	0 5 2 4 3 0	1 35	0 3 78	74	
Reduct Vol:	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	
FinalVolume:	0 5 2 4 3 0	1 35	0 3 78	74	
Critical Gap Module:					
Critical Gp:xxxxx 6.5 6.2 7.1 6.5 xxxx 4.1 xxxx xxxx 4.1 xxxx xxxx					
FollowUpTim:xxxxx 4.0 3.3 3.5 4.0 xxxx 2.2 xxxx xxxx 2.2 xxxx xxxx					
Capacity Module:					
Cnflct Vol: xxxx 196 35 163 159 xxxx 152 xxxx xxxx 35 xxxx xxxx					
Potent Cap.: xxxx 703 1044 807 737 xxxx 1441 xxxx xxxx 1590 xxxx xxxx					
Move Cap.: xxxx 701 1044 799 735 xxxx 1441 xxxx xxxx 1590 xxxx xxxx					
Volume/Cap: xxxx 0.01 0.00 0.01 0.00 xxxx 0.00 xxxx xxxx 0.00 xxxx xxxx					
Level Of Service Module:					
2Way95thQ: xxxx xxxx xxxx xxxx xxxx xxxx 0.0 xxxx xxxx 0.0 xxxx xxxx					
Control Del:xxxxx xxxx xxxx xxxx xxxx xxxx 7.5 xxxx xxxx 7.3 xxxx xxxx					
LOS by Move: * * * * * * A * * * A * * *					
Movement: LT - LTR - RT					
Shared Cap.: xxxx xxxx 774 770 xxxx xxxx xxxx xxxx xxxx xxxx xxxx xxxx					
SharedQueue:xxxxx xxxx 0.0 0.0 xxxx xxxx 0.0 xxxx xxxx xxxx xxxx xxxx					
Shrd ConDel:xxxxx xxxx 9.7 9.7 xxxx xxxx 7.5 xxxx xxxx xxxx xxxx xxxx					
Shared LOS: * * A A * * A * * * * * *					
ApproachDel: 9.7 9.7 xxxx xxxx					
ApproachLOS: A A * * *					

Note: Queue reported is the number of cars per lane.

Construction Year W/O PM Wed Apr 6, 2011 09:50:53

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Level Of Service Computation Report
2000 HCM 4-Way Stop Method (Base Volume Alternative)

Intersection #1 La Brucherie/McCabe

Cycle (sec): 100 Critical Vol./Cap.(X): 0.277
Loss Time (sec): 0 Average Delay (sec/veh): 8.9
Optimal Cycle: 0 Level Of Service: A

Street Name: La Brucherie McCabe
Approach: North Bound South Bound East Bound West Bound
Movement: L - T - R L - T - R L - T - R L - T - R
Control: Stop Sign Stop Sign Stop Sign Stop Sign
Rights: Include Include Include Include
Min. Green: 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Lanes: 0 0 1! 0 0 0 0 1! 0 0 0 0 0 0 1! 0 0
Volume Module:
Base Vol: 5 57 2 100 63 21 28 82 6 4 72 102
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: 5 57 2 100 63 21 28 82 6 4 72 102
User 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 Adj: 0.92 0.92 0.92 0.92 0.92 0.92 0.92 0.92 0.92 0.92 0.92 0.92
PHF Volume: 5 62 2 109 68 23 30 89 7 4 78 111
Reduct Vol: 0 0 0 0 0 0 0 0 0 0 0 0
Reduced Vol: 5 62 2 109 68 23 30 89 7 4 78 111
PCE 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
MLF 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
FinalVolume: 5 62 2 109 68 23 30 89 7 4 78 111

Saturation Flow Module:
Adjustment: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
Lanes: 0.08 0.89 0.03 0.55 0.34 0.11 0.24 0.71 0.05 0.02 0.40 0.58
Final Sat.: 54 614 22 392 247 82 172 504 37 18 317 449

Capacity Analysis Module:
Vol/Sat: 0.10 0.10 0.10 0.28 0.28 0.28 0.18 0.18 0.18 0.25 0.25 0.25
Crit Moves: **** * **** * **** * **** * **** * **** * ****
Delay/Veh: 8.4 8.4 8.4 9.4 9.4 9.4 8.7 8.7 8.7 8.7 8.7 8.7
Delay 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
AdjDel/Veh: 8.4 8.4 8.4 9.4 9.4 9.4 8.7 8.7 8.7 8.7 8.7 8.7
LOS by Move: A A A A A A A A A A A A
ApproachDel: 8.4 9.4 8.7 8.7
Delay Adj: 1.00 1.00 1.00 1.00
ApprAdjDel: 8.4 9.4 8.7 8.7
LOS by Appr: A A A A A A
AllWayAvgQ: 0.1 0.1 0.1 0.3 0.3 0.3 0.2 0.2 0.2 0.2 0.3 0.3 0.3

Note: Queue reported is the number of cars per lane.

Construction Year W/O PM Wed Apr 6, 2011 09:50:53

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Level Of Service Computation Report

2000 HCM Unsignalized Method (Base Volume Alternative)

Intersection #2 SR 98/Ferrell

Average Delay (sec/veh): 2.0 Worst Case Level Of Service: B[10.8]

Street Name:	Ferrell				SR 98												
Approach:	North Bound		South Bound		East Bound		West Bound										
Movement:	L	-	T	-	R	L	-	T	-	R	L	-	T	-	R		
Control:	Stop Sign				Stop Sign				Uncontrolled				Uncontrolled				
Rights:	Include				Include				Include				Include				
Lanes:	0	0	0	1	0	0	0	0	1!	0	0	0	0	0	1!	0	0
Volume Module:																	
Base Vol:	0	15	1	24	11	1	3	179	1	1	55	8					
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	15	1	24	11	1	3	179	1	1	55	8					
User 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 Adj:	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92					
PHF Volume:	0	16	1	26	12	1	3	195	1	1	60	9					
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0					
FinalVolume:	0	16	1	26	12	1	3	195	1	1	60	9					
Critical Gap Module:																	
Critical Gp:xxxxx	6.5	6.2	7.1	6.5	6.2	4.1	xxxxx	xxxxx	4.1	xxxxx	xxxxx						
FollowUpTim:xxxxx	4.0	3.3	3.5	4.0	3.3	2.2	xxxxx	xxxxx	2.2	xxxxx	xxxxx						
Capacity Module:																	
Cnflct Vol:	xxxxx	272	195	277	268	64	68	xxxxx	xxxxx	196	xxxxx	xxxxx					
Potent Cap.:	xxxxx	638	851	680	641	1006	1545	xxxxx	xxxxx	1389	xxxxx	xxxxx					
Move Cap.:	xxxxx	636	851	664	639	1006	1545	xxxxx	xxxxx	1389	xxxxx	xxxxx					
Volume/Cap:	xxxxx	0.03	0.00	0.04	0.02	0.00	0.00	xxxxx	xxxxx	0.00	xxxxx	xxxxx					
Level Of Service Module:																	
2Way95thQ:	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx	0.0	xxxxx	xxxxx	0.0	xxxxx	xxxxx					
Control Del:xxxxx	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx	7.3	xxxxx	xxxxx	7.6	xxxxx	xxxxx					
LOS by Move:	*	*	*	*	*	*	A	*	*	A	*	*					
Movement:	LT	-	LTR	-	RT	LT	-	LTR	-	RT	LT	-	LTR	-	RT		
Shared Cap.:	xxxxx	xxxxx	646	xxxxx	663	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx					
SharedQueue:xxxxx	xxxxx	0.1	xxxxx	0.2	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx					
Shrd ConDel:xxxxx	xxxxx	10.7	xxxxx	10.8	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx					
Shared LOS:	*	*	B	*	B	*	*	*	*	*	*	*					
ApproachDel:	10.7			10.8			xxxxxx			xxxxxx							
ApproachLOS:	B			B			*			*							

Note: Queue reported is the number of cars per lane.

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Level Of Service Computation Report

2000 HCM Unsignalized Method (Base Volume Alternative)

Intersection #3 SR 98/Brockman

Average Delay (sec/veh): 3.2 Worst Case Level Of Service: B[10.2]

Street Name:	Brockman				SR 98													
Approach:	North Bound		South Bound		East Bound		West Bound											
Movement:	L	-	T	-	R	L	-	T	-	R	L	-	T	-	R			
Control:	Stop Sign				Stop Sign				Uncontrolled				Uncontrolled					
Rights:	Include				Include				Include				Include					
Lanes:	0	1	0	0	0	0	1!	0	0	0	1	0	0	0	0	1	0	
Volume Module:																		
Base Vol:	1	1	0	71	3	3	1	113	0	0	0	54	3					
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	1.00	1.00				
Initial Bse:	1	1	0	71	3	3	1	113	0	0	0	54	3					
User 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	1.00	1.00				
PHF Adj:	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92				
PHF Volume:	1	1	0	77	3	3	1	123	0	0	0	59	3					
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
FinalVolume:	1	1	0	77	3	3	1	123	0	0	0	59	3					
Critical Gap Module:																		
Critical Gp:	7.1	6.5	xxxxx	7.1	6.5	6.2	4.1	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx					
FollowUpTim:	3.5	4.0	xxxxx	3.5	4.0	3.3	2.2	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx					
Capacity Module:																		
Cnflct Vol:	189	187	xxxxx	186	185	60	62	xxxxx	xxxxx	xxxx	xxxx	xxxx	xxxx					
Potent Cap.:	776	711	xxxxx	779	713	1011	1554	xxxxx	xxxxx	xxxx	xxxx	xxxx	xxxx					
Move Cap.:	770	711	xxxxx	778	712	1011	1554	xxxxx	xxxxx	xxxx	xxxx	xxxx	xxxx					
Volume/Cap:	0.00	0.00	xxxx	0.10	0.00	0.00	0.00	xxxx	xxxx	xxxx	xxxx	xxxx	xxxx					
Level Of Service Module:																		
2Way95thQ:	xxxxx	xxxxx	xxxxx	xxxx	xxxx	xxxxx	0.0	xxxxx	xxxxx	xxxx	xxxx	xxxxx						
Control Del:	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx	7.3	xxxxx	xxxxx	xxxxx	xxxx	xxxxx	xxxxx					
LOS by Move:	*	*	*	*	*	*	*	A	*	*	*	*	*	*	*	*		
Movement:	LT	-	LTR	-	RT	LT	-	LTR	-	RT	LT	-	LTR	-	RT			
Shared Cap.:	739	xxxxx	xxxxx	xxxx	782	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx	xxxx	xxxx	xxxxx					
SharedQueue:	0.0	xxxxx	xxxxx	xxxxx	0.4	xxxxx	0.0	xxxxx	xxxxx	xxxxx	xxxx	xxxx	xxxxx					
Shrd ConDel:	9.9	xxxxx	xxxxx	xxxxx	10.2	xxxxx	7.3	xxxxx	xxxxx	xxxxx	xxxx	xxxxx	xxxxx					
Shared LOS:	A	*	*	*	*	B	*	A	*	*	*	*	*	*	*	*		
ApproachDel:	9.9				10.2		xxxxxx		xxxxxx		xxxxxx		xxxxxx					
ApproachLOS:	A				B		*		*		*		*					

Note: Queue reported is the number of cars per lane.

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Level Of Service Computation Report
2000 HCM 4-Way Stop Method (Base Volume Alternative)

 Intersection #1 La Brucherie/McCabe

 Cycle (sec): 100 Critical Vol./Cap.(X): 0.795
 Loss Time (sec): 0 Average Delay (sec/veh): 23.3
 Optimal Cycle: 0 Level Of Service: C

 Street Name: La Brucherie McCabe
 Approach: North Bound South Bound East Bound West Bound
 Movement: L - T - R L - T - R L - T - R L - T - R
 |-----|-----|-----|-----|
 Control: Stop Sign Stop Sign Stop Sign Stop Sign
 Rights: Include Include Include Include
 Min. Green: 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
 Lanes: 0 0 1! 0 0 0 0 1! 0 0 0 0 0 0 1! 0 0
 |-----|-----|-----|-----|
 Volume Module:
 Base Vol: 18 127 5 128 175 57 45 256 17 4 237 163
 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: 18 127 5 128 175 57 45 256 17 4 237 163
 User 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 Adj: 0.92 0.92 0.92 0.92 0.92 0.92 0.92 0.92 0.92 0.92 0.92 0.92
 PHF Volume: 20 138 5 139 190 62 49 278 18 4 258 177
 Reduct Vol: 0 0 0 0 0 0 0 0 0 0 0 0
 Reduced Vol: 20 138 5 139 190 62 49 278 18 4 258 177
 PCE 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
 MLF 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
 FinalVolume: 20 138 5 139 190 62 49 278 18 4 258 177
 |-----|-----|-----|-----|
 Saturation Flow Module:
 Adjustment: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
 Lanes: 0.12 0.85 0.03 0.35 0.49 0.16 0.14 0.81 0.05 0.01 0.59 0.40
 Final Sat.: 50 350 14 183 250 82 72 408 27 5 324 223
 |-----|-----|-----|-----|
 Capacity Analysis Module:
 Vol/Sat: 0.39 0.39 0.39 0.76 0.76 0.76 0.68 0.68 0.68 0.80 0.80 0.80
 Crit Moves: **** **** **** ****
 Delay/Veh: 13.9 13.9 13.9 25.2 25.2 25.2 20.9 20.9 20.9 26.9 26.9 26.9
 Delay 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
 AdjDel/Veh: 13.9 13.9 13.9 25.2 25.2 25.2 20.9 20.9 20.9 26.9 26.9 26.9
 LOS by Move: B B B D D D C C C D D D
 ApproachDel: 13.9 25.2 20.9 26.9
 Delay Adj: 1.00 1.00 1.00 1.00
 ApprAdjDel: 13.9 25.2 20.9 26.9
 LOS by Appr: B D C D
 AllWayAvgQ: 0.4 0.4 0.4 2.2 2.2 2.2 1.6 1.6 1.6 2.7 2.7 2.7

 Note: Queue reported is the number of cars per lane.

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Level Of Service Computation Report

2000 HCM Unsignalized Method (Base Volume Alternative)

Intersection #2 SR 98/Ferrell

Average Delay (sec/veh): 3.3 Worst Case Level Of Service: B[11.1]

Street Name:	Ferrell				SR 98											
Approach:	North Bound		South Bound		East Bound		West Bound									
Movement:	L	-	T	-	R	L	-	T	-	R	L	-	T	-	R	
Control:	Stop Sign				Stop Sign				Uncontrolled				Uncontrolled			
Rights:	Include				Include				Include				Include			
Lanes:	0	0	1	0	0	0	0	1!	0	0	0	0	0	1!	0	0
Volume Module:																
Base Vol:	0	5	0	28	16	65	7	37	1	1	219	21				
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	5	0	28	16	65	7	37	1	1	219	21				
User 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 Adj:	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92				
PHF Volume:	0	5	0	30	17	71	8	40	1	1	238	23				
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0				
FinalVolume:	0	5	0	30	17	71	8	40	1	1	238	23				
Critical Gap Module:																
Critical Gp:xxxxx	6.5	xxxxx	7.1	6.5	6.2	4.1	xxxxx	xxxxx	4.1	xxxxx	xxxxx					
FollowUpTim:xxxxx	4.0	xxxxx	3.5	4.0	3.3	2.2	xxxxx	xxxxx	2.2	xxxxx	xxxxx					
Capacity Module:																
Cnflct Vol:	xxxxx	319	xxxxx	310	308	249	261	xxxxx	xxxxx	41	xxxxx	xxxxx				
Potent Cap.:	xxxxx	601	xxxxx	646	609	794	1315	xxxxx	xxxxx	1581	xxxxx	xxxxx				
Move Cap.:	xxxxx	597	xxxxx	638	605	794	1315	xxxxx	xxxxx	1581	xxxxx	xxxxx				
Volume/Cap:	xxxxx	0.01	xxxxx	0.05	0.03	0.09	0.01	xxxxx	xxxxx	0.00	xxxxx	xxxxx				
Level Of Service Module:																
2Way95thQ:	xxxxx	0.0	xxxxx	xxxxx	xxxxx	xxxxx	0.0	xxxxx	xxxxx	0.0	xxxxx	xxxxx				
Control Del:xxxxx	11.1	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx	7.8	xxxxx	xxxxx	7.3	xxxxx	xxxxx				
LOS by Move:	*	B	*	*	*	*	*	A	*	*	A	*	*	*	*	
Movement:	LT	-	LTR	-	RT	LT	-	LTR	-	RT	LT	-	LTR	-	RT	
Shared Cap.:	xxxxx	xxxxx	xxxxx	xxxxx	716	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx				
SharedQueue:xxxxx	xxxxx	xxxxx	xxxxx	xxxxx	0.6	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx				
Shrd ConDel:xxxxx	xxxxx	xxxxx	xxxxx	xxxxx	11.0	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx				
Shared LOS:	*	*	*	*	*	B	*	*	*	*	*	*	*	*	*	
ApproachDel:	11.1				11.0			xxxxxx			xxxxxx					
ApproachLOS:	B				B			*			*					

Note: Queue reported is the number of cars per lane.

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Level Of Service Computation Report

2000 HCM Unsignalized Method (Base Volume Alternative)

Intersection #3 SR 98/Brockman

Average Delay (sec/veh): 3.9 Worst Case Level Of Service: B[13.6]

Street Name:	Brockman				SR 98															
Approach:	North Bound		South Bound		East Bound		West Bound													
Movement:	L	-	T	-	R	L	-	T	-	R	L	-	T	-	R					
Control:	Stop Sign				Stop Sign				Uncontrolled				Uncontrolled							
Rights:	Include				Include				Include				Include							
Lanes:	0	0	0	1	0	0	1	0	0	0	0	1!	0	0	0	0	1!	0	0	
Volume Module:																				
Base Vol:	0	5	2	4	3	0	1	32	8	157	72	68								
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	5	2	4	3	0	1	32	8	157	72	68								
User 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 Adj:	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92								
PHF Volume:	0	5	2	4	3	0	1	35	9	171	78	74								
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0								
FinalVolume:	0	5	2	4	3	0	1	35	9	171	78	74								
Critical Gap Module:																				
Critical Gp:xxxxx	6.5	6.2	7.1	6.5	xxxxx	4.1	xxxx	xxxxx	4.1	xxxx	xxxxx									
FollowUpTim:xxxxx	4.0	3.3	3.5	4.0	xxxxx	2.2	xxxx	xxxxx	2.2	xxxx	xxxxx									
Capacity Module:																				
Cnflct Vol:	xxxx	535	39	502	502	xxxxx	152	xxxx	xxxxx	43	xxxx	xxxxx								
Potent Cap.:	xxxx	455	1038	483	474	xxxxx	1441	xxxx	xxxxx	1578	xxxx	xxxxx								
Move Cap.:	xxxx	400	1038	433	417	xxxxx	1441	xxxx	xxxxx	1578	xxxx	xxxxx								
Volume/Cap:	xxxx	0.01	0.00	0.01	0.01	xxxx	0.00	xxxx	xxxx	0.11	xxxx	xxxx								
Level Of Service Module:																				
2Way95thQ:	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx	0.0	xxxx	xxxxx	0.4	xxxx	xxxxx								
Control Del:xxxxx	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx	7.5	xxxx	xxxxx	7.6	xxxx	xxxxx								
LOS by Move:	*	*	*	*	*	*	*	A	*	*	A	*	*							
Movement:	LT	-	LTR	-	RT	LT	-	LTR	-	RT	LT	-	LTR	-	RT	LT	-	LTR	-	RT
Shared Cap.:	xxxx	xxxx	485	426	xxxx	xxxxx	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx								
SharedQueue:xxxxx	xxxx	0.0	0.1	xxxx	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxx	xxxxx								
Shrd ConDel:xxxxx	xxxx	12.5	13.6	xxxx	xxxxx	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx								
Shared LOS:	*	*	B	B	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
ApproachDel:	12.5			13.6			xxxxxx			xxxxxx										
ApproachLOS:	B			B			*			*										

Note: Queue reported is the number of cars per lane.

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Calexico Solar Farm I
3-11-2034

Level Of Service Computation Report
2000 HCM 4-Way Stop Method (Base Volume Alternative)

Intersection #1 La Brucherie/McCabe

Cycle (sec): 100 Critical Vol./Cap.(X): 0.285
Loss Time (sec): 0 Average Delay (sec/veh): 9.2
Optimal Cycle: 0 Level Of Service: A

Street Name:	La Brucherie				McCabe			
Approach:	North Bound	South Bound	East Bound	West Bound				
Movement:	L - T - R	L - T - R	L - T - R	L - T - R				
Control:	Stop Sign	Stop Sign	Stop Sign	Stop Sign				
Rights:	Include	Include	Include	Include				
Min. Green:	0 0 0	0 0 0	0 0 0	0 0 0				
Lanes:	0 0 1! 0 0	0 0 1! 0 0	0 0 1! 0 0	0 0 1! 0 0				
Volume Module:								
Base Vol:	5 120	2 100	63 21	28 82	6 4	72	102	
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	1.00 1.00	
Initial Bse:	5 120	2 100	63 21	28 82	6 4	72	102	
User 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	1.00 1.00	
PHF Adj:	0.92 0.92	0.92 0.92	0.92 0.92	0.92 0.92	0.92 0.92	0.92 0.92	0.92 0.92	
PHF Volume:	5 130	2 109	68 23	30 89	7 4	78	111	
Reduc Vol:	0 0	0 0	0 0	0 0	0 0	0 0	0 0	
Reduced Vol:	5 130	2 109	68 23	30 89	7 4	78	111	
PCE 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	1.00 1.00	
MLF 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	1.00 1.00	
FinalVolume:	5 130	2 109	68 23	30 89	7 4	78	111	
Saturation Flow Module:								
Adjustment:	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	
Lanes:	0.04 0.94	0.02 0.55	0.34 0.11	0.24 0.71	0.05 0.05	0.02 0.40	0.40 0.58	
Final Sat.:	27 652	11 382	241 80	164 480	35 17	302 428		
Capacity Analysis Module:								
Vol/Sat:	0.20 0.20	0.20 0.28	0.28 0.28	0.28 0.19	0.19 0.19	0.19 0.26	0.26 0.26	0.26
Crit Moves:	****	****		****	****			
Delay/Veh:	9.0 9.0	9.0 9.6	9.6 9.6	9.6 9.0	9.0 9.0	9.0 9.0	9.0 9.0	9.0
Delay 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	1.00 1.00	1.00
AdjDel/Veh:	9.0 9.0	9.0 9.6	9.6 9.6	9.6 9.0	9.0 9.0	9.0 9.0	9.0 9.0	9.0
LOS by Move:	A A	A A	A A	A A	A A	A A	A A	A
ApproachDel:	9.0		9.6		9.0		9.0	
Delay Adj:	1.00		1.00		1.00		1.00	
ApprAdjDel:	9.0		9.6		9.0		9.0	
LOS by Appr:	A		A		A		A	
AllWayAvgQ:	0.2 0.2	0.2 0.3	0.3 0.3	0.3 0.2	0.2 0.2	0.2 0.3	0.3 0.3	0.3

Note: Queue reported is the number of cars per lane.

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Calexico Solar Farm I
3-11-2034

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

Intersection #2 SR 98/Ferrell

Average Delay (sec/veh): 2.7 Worst Case Level Of Service: B[13.7]

Street Name:	SR 98			
Approach:	North Bound	South Bound	East Bound	West Bound
Movement:	L - T - R	L - T - R	L - T - R	L - T - R
Control:	Stop Sign	Stop Sign	Uncontrolled	Uncontrolled
Rights:	Include	Include	Include	Include
Lanes:	0 0 0 1 0	0 0 1! 0 0	0 0 1! 0 0	0 0 1! 0 0

Volume Module:

Base Vol:	0 15 1 24 11 1 66 270 1 1 1 55 8
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 1.00
Initial Bse:	0 15 1 24 11 1 66 270 1 1 1 55 8
User 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 1.00
PHF Adj:	0.92 0.92 0.92 0.92 0.92 0.92 0.92 0.92 0.92 0.92 0.92 0.92 0.92
PHF Volume:	0 16 1 26 12 1 72 293 1 1 1 60 9
Reduct Vol:	0 0 0 0 0 0 0 0 0 0 0 0 0
FinalVolume:	0 16 1 26 12 1 72 293 1 1 1 60 9

Critical Gap Module:

Critical Gp:xxxxx 6.5 6.2 7.1 6.5 6.2 4.1 xxxx xxxx 4.1 xxxx xxxx
FollowUpTim:xxxxx 4.0 3.3 3.5 4.0 3.3 2.2 xxxx xxxx 2.2 xxxx xxxx

Capacity Module:

Cnflct Vol: xxxx 508 294 513 504 64 68 xxxx xxxx 295 xxxx xxxx
Potent Cap.: xxxx 471 750 475 473 1006 1545 xxxx xxxx 1278 xxxx xxxx
Move Cap.: xxxx 447 750 444 450 1006 1545 xxxx xxxx 1278 xxxx xxxx
Volume/Cap: xxxx 0.04 0.00 0.06 0.03 0.00 0.05 xxxx xxxx 0.00 xxxx xxxx

Level Of Service Module:

2Way95thQ: xxxx xxxx xxxx xxxx xxxx 0.1 xxxx xxxx 0.0 xxxx xxxx
Control Del:xxxxx xxxx xxxx xxxx xxxx 7.4 xxxx xxxx 7.8 xxxx xxxx
LOS by Move: * * * * * * A * * * A * *
Movement: LT - LTR - RT
Shared Cap.: xxxx xxxx 459 xxxx 453 xxxx xxxx xxxx xxxx xxxx xxxx xxxx
SharedQueue:xxxxx xxxx 0.1 xxxxxx 0.3 xxxxxx xxxxxx xxxx xxxx xxxx xxxx
Shrd ConDel:xxxxx xxxx 13.2 xxxxxx 13.7 xxxxxx xxxx xxxx xxxx xxxx xxxx
Shared LOS: * * B * B * * * * * * * *
ApproachDel: 13.2 13.7 xxxxxx xxxxxx
ApproachLOS: B B * * *

Note: Queue reported is the number of cars per lane.

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Calexico Solar Farm I
3-11-2034

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

Intersection #3 SR 98/Brockman

Average Delay (sec/veh): 6.2 Worst Case Level Of Service: B[12.3]

Street Name:	Brockman				SR 98											
Approach:	North Bound		South Bound		East Bound		West Bound									
Movement:	L	-	T	-	R	L	-	T	-	R	L	-	T	-	R	
Control:	Stop Sign				Stop Sign				Uncontrolled				Uncontrolled			
Rights:	Include				Include				Include				Include			
Lanes:	0	0	1!	0	0	0	0	1	0	0	0	0	0	0	1	0

Volume Module:

Base Vol:	9	1	154	71	3	3	1	113	0	0	54	3
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:	9	1	154	71	3	3	1	113	0	0	54	3
User 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 Adj:	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
PHF Volume:	10	1	167	77	3	3	1	123	0	0	59	3
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
FinalVolume:	10	1	167	77	3	3	1	123	0	0	59	3

Critical Gap Module:

Critical Gp:	7.1	6.5	6.2	7.1	6.5	6.2	4.1	xxxxx	xxxxx	xxxxx	xxxx	xxxxx
FollowUpTim:	3.5	4.0	3.3	3.5	4.0	3.3	2.2	xxxxx	xxxxx	xxxxx	xxxx	xxxxx

Capacity Module:

Cnflct Vol:	189	187	123	270	185	60	62	xxxxx	xxxxx	xxxx	xxxx	xxxxxx
Potent Cap.:	776	711	934	687	713	1011	1554	xxxxx	xxxxx	xxxx	xxxx	xxxxx
Move Cap.:	770	711	934	563	712	1011	1554	xxxxx	xxxxx	xxxx	xxxx	xxxxx
Volume/Cap:	0.01	0.00	0.18	0.14	0.00	0.00	0.00	xxxxx	xxxx	xxxx	xxxx	xxxx

Level Of Service Module:

2Way95thQ:	xxxxx	xxxxx	xxxxxx	xxxx	xxxx	xxxxxx	0.0	xxxxx	xxxxxx	xxxx	xxxx	xxxxxx			
Control Del:	xxxxxx	xxxx	xxxxxx	xxxxxx	xxxx	xxxxxx	7.3	xxxxx	xxxxxx	xxxx	xxxx	xxxxxx			
LOS by Move:	*	*	*	*	*	*	A	*	*	*	*	*			
Movement:	LT	-	LTR	-	RT	LT	-	LTR	-	RT	LT	-	LTR	-	RT
Shared Cap.:	xxxxx	921	xxxxxx	xxxx	578	xxxxxx	xxxxx	xxxxx	xxxxxx	xxxx	xxxx	xxxxxx			
SharedQueue:	xxxxxx	0.7	xxxxxx	xxxxxx	0.5	xxxxxx	0.0	xxxxx	xxxxxx	xxxx	xxxx	xxxxxx			
Shrd ConDel:	xxxxxx	9.8	xxxxxx	xxxxxx	12.3	xxxxxx	7.3	xxxxx	xxxxxx	xxxx	xxxx	xxxxxx			
Shared LOS:	*	A	*	*	B	*	A	*	*	*	*	*			
ApproachDel:		9.8			12.3		xxxxxxx		xxxxxx		xxxx				
ApproachLOS:		A			B		*		*		*				

Note: Queue reported is the number of cars per lane.