Achen Commercial Development (Paseo del Norte / San Pedro – SE Corner)

Traffic Impact Study

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Presented to:

Transportation Development Division City of Albuquerque

Developer:

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Achen Commercial Development (Paseo del Norte / San Pedro Dr. - SE Corner) TRAFFIC IMPACT STUDY

STUDY PURPOSE

The study is being conducted in conjunction with a request for approval of a commercial development plan for the property located at the southeast corner of Paseo del Norte / San Pedro Rd. The purpose of this study is to identify the impact of the Development on the adjacent transportation system, and to make recommendations to mitigate any significant adverse impact on the adjacent transportation system resulting from the implementation of the facility. This report is being prepared to meet the requirements of the City of Albuquerque Transportation Development Section in association with the development of the proposed project associated with this site plan.

STUDY PROCEDURES

There was no scoping meeting held for this project study. A telephone conversation was held with Tony Loyd to determine the scope of study.

The basic procedure followed is described as follows:

- 1) Calculate the generated trips for the proposed commercial development consisting of a proposed 5,000 S.F. walk-in bank, a 10,000 S.F. High Turnover Sit-Down Restaurant, and an additional 6,600 S.F. of commercial retail center.
- Calculate trip distribution for the newly generated trips by this development. The commercial trips shall be distributed based on 2009 DASZ population data within a twomile radius of the proposed site.
- 3) Determine Trip Assignments for the newly generated trips based on the results of the Trip Distribution Analysis and logical routing to and from the site.
- 4) Perform AM Peak Hour and PM Peak Hour turning movement traffic counts at the intersection of Palomas Ave. / Louisiana Blvd.
- 5) Utilized historic annual growth rate from recent Traffic Impact Study for Palomas Plaza.
- 6) Determine 2009 NO BUILD intersection volumes by growing the data from the existing traffic counts at the calculated historic growth rate to the analysis year, then add in traffic volumes generated by nearby recently approved undeveloped projects.
- 7) Add in data from Trip Assignments Maps and Tables to the 2009 NO BUILD Volumes to obtain 2009 BUILD Volumes for this project.

8) Provide signalized and unsignalized intersection analyses for the intersection of Palomas Ave. / Louisiana Blvd. and the proposed driveway accessing this development.

PREVIOUS RELATED TRAFFIC IMPACT STUDIES

Data incorporated into this Traffic Impact Study were obtained from the previous Traffic Impact Studies:

- 1) Lowe's Site Replat TIS (Updated) June 5, 2003 by BHI
- 2) Palomas Plaza (San Pedro / Palomas) TIS June 28, 2005

The 2009 NO BUILD Volumes used in this report incorporated projected trips generated from the above listed approved development (Phase 2) where applicable.

GENERAL AREA CHARACTERISTICS

Surrounding land uses include an public and private schools, a church, and proposed commercial uses. This project is located within a relatively active development area.

AREA STREET NETWORK

Paseo del Norte is classified as a Principal Arterial roadway on the Long Range Roadway Plan for the Albuquerque Metropolitan Area. It is currently a paved urban six-lane facility with raised medians and curbs and gutters on both sides of the street. The posted speed limit on Paseo del Norte from I-25 to Wyoming varies from 40 to 45 M.P.H.

Louisiana Blvd. is classified as a Minor Arterial roadway on the Long Range Roadway Plan for the Albuquerque Metropolitan Area. It is a rural-type two lane paved roadway north of Paseo del Norte with no raised medians. The Paseo del Norte reconstruction project (1999) included the reconstruction of Louisiana Blvd. as a four lane divided urban roadway from Paseo del Norte to Holly Ave. Louisiana Blvd. will transition to a two-lane roadway north of Holly Ave.

San Pedro Drive is classified as a Collector roadway on the Long Range Roadway Plan for the Albuquerque Metropolitan Area. It is a rural-type two lane paved roadway north of Paseo del Norte with no raised medians. The Paseo del Norte reconstruction project (1999) included the reconstruction of San Pedro Dr. as a four lane divided urban roadway from Paseo del Norte to Holly Ave. San Pedro Dr. will transition to a two-lane roadway north of Holly Ave.

EXISTING TRAFFIC VOLUMES

2004 Average Weekday Traffic Volumes (AWDT) for major streets in the site plan area are shown on Page A-3 in Appendix A.

Traffic volumes for the intersection of Palomas Ave. / Lousiana Blvd. were recently counted by the consulting engineer performing this study.

EXISTING LEVELS OF SERVICE

The <u>Highway Capacity Manual</u> defines Level of Service (LOS) for signalized intersections in terms of average controlled delay per vehicle as follows:

| LOS A | 10.0" or less | Most Vehicles do not stop |
|-------|---------------|-------------------------------------|
| LOS B | 10.1 to 20.0" | Some Vehicles stop |
| LOS C | 20.1 to 35.0" | Significant number of vehicles stop |
| LOS D | 35.1 to 55.0" | Many vehicles stop. |
| LOSE | 55.1 to 80.0" | Limit of acceptable delay. |
| LOS F | > 80.0" | Unacceptable delay. |

Level of Service D is generally considered acceptable in urban areas and is the desirable base condition for analysis in a traffic study. In addition to consideration of the overall level-of-service of the signalized intersection, the levels-of-service of each individual movement should be considered also.

There were no signalized intersection analyses in this study.

Unsignalized intersection levels-of-service are defined by average contol delay as per the following table:

LEVEL-OF-SERVICE CRITERIA FOR UNSIGNALIZED INTERSECTIONS

| Average Delay | Level-of-Servic |
|---------------|-----------------|
| (secs) | |
| ≤ 10 | Α |
| > 10 and ≤ 15 | В |
| > 15 and ≤ 25 | С |
| > 25 and ≤ 35 | D |
| > 35 and ≤ 50 | E |
| > 50 | F |
| | |

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

The following table summarizes the existing geometry and the existing AM Peak Hour and PM Peak Hour levels-of-service of the unsignalized intersection analyzed in this study:

Existing Geometry (Palomas Ave. / Lousiana Blvd.)

* * * * * * * * * *

| Approach | Left Turn Lanes | Thru/Lefts | Thru Lanes | Thru/Rights | Right Turn Lanes |
|--------------------|--------------------|------------|------------|-------------|---------------------|
| EB Palomas Ave. | 1 | 0 | 0 | 0 | 1 |
| WB N/A | 0 | 0 | 0 | 0 | 0 |
| NB Louisiana Blvd. | 1 | 0 | 2 | 0 | 0 |
| SB Louisiana Blvd. | 0 | 0 | 1 | 1 | 0 |

| | 2005 E | xisting |
|--------------------------------|--------|---------|
| | AM | PM |
| Palomas Ave. / Louisiana Blvd. | | |
| Minor Street (Palomas Ave) | | |
| EB Left | F - * | C - 18 |
| EB Right | F - 50 | B - 10 |
| Major Street (Louisiana Blvd.) | | |
| NB Left | C - 16 | A - 8 |

PROPOSED DEVELOPMENT

The development plan is a proposed approximately 5 acre Commercial use consisting of an approximately 5,000 S.F. walk-in bank, a 10,000 S.F. High Turnover Sit-Down Restaurant, and an additional 6,600 S.F. of commercial retail center. The land uses utilized for this analysis should be representative of the type of uses that will result from the proposed development. Should the development occur in such a manner that the actual number of trips generated significantly exceed that projected in this study, the City of Albuquerque may require an updated Traffic Impact Study.

Access is provided into the proposed facility via a driveway accessing Palomas Ave. The proposed driveway accessing Palomas Ave. is designated as Driveway "A" in this study.

TRIP GENERATION

Projected trips were calculated from data in the Institute of Transportation Engineers <u>Trip Generation</u> report (7th Edition, 2003). Trips for the development were determined based on land uses projected to be associated with the zone change request for this property.

The resulting number of trips generated for the proposed development is summarized in the following table:

Achen Commercial Development (Paseo del Norte / San Pedro)

Trip Generation Data

| USE (ITE CODE) | | 24 HR VOL | A. M. PEAK HR. | | P. M. PEAK HR. | |
|---|-------|-----------|----------------|------|----------------|------|
| DESCRIPTION | | GROSS | ENTER | EXIT | ENTER | EXIT |
| Summary Sheet | Units | | | | | |
| Walk-In Bank (911) | 5.00 | 2,100 | 54 | 54 | 105 | 105 |
| Shopping Center (820) | 6.60 | 1,160 | 19 | 12 | 50 | 54 |
| High Turnover (Sit-Down) Restaurant (932) | 10.00 | 1,272 | 60 | 55 | 67 | 43 |
| Subtotal | | 4,532 | 133 | 121 | 222 | 202 |

(Also, see Pages A-4 thru A-7 in the Appendix of this report for Trip Generation Worksheets and Summary Table.)

TRIP DISTRIBUTION

Trips were distributed as follows:

Primary and Diverted Linked Trips:

Commercial Land Use

Primary and diverted linked trips for the both the commercial land use development were distributed proportionally to the 2009 projected population of Data Analysis Subzones within a 2-mile radius around the proposed development. Population data for the years 2000 and 2005 were taken from the 2025 Socioeconomic Forecasts by Data Analysis Subzones for the Mid-Region of New Mexico, S-02-01 (April, 2003), supplied by the Mid-Region Council of Governments (MRCOG). Population data from the years 2000 and 2025 was interpolated linearly to obtain 2009 population data to utilize for this analysis. Population Subzones were grouped based on the most likely major streets or route to the subject project. The trip distribution worksheets and associated map of subareas and data analysis subzones are shown on Pages A-8 thru A-9 in the Appendix. The resulting Trip Distribution model is demonstrated by the Trip Distribution Map on Pages A-10 in the Appendix.

TRIP ASSIGNMENT

Trip assignments are first made on a percentage basis derived from data established in the trip distribution determination process and logical routing. Those percentages are then applied to the projected trips to determine individual traffic movements. Percentage trip assignments are shown in the Appendix, Pages A-11 thru A-12. No adjustments for Pass-by Trips on this project were applied.

BACKGROUND TRAFFIC GROWTH

Background traffic growth rates were taken from the Traffic Impact Study for Palomas Plaza (San Pedro / Palomas) submitted by Bohannan-Huston, Inc. dated June 28, 2005.

PROJECTED PEAK HOUR TURNING MOVEMENTS FOR 2009 BUILDOUT

The calculated annual growth rates were applied to the existing (2005) peak hour traffic counts furnished by the City of Albuquerque (or counted by the consultant) to establish the 2009 background traffic volumes. Generated trips from one other recently approved project were added to obtain the 2009 NO BUILD Volumes. To these volumes, the generated trips based on implementation of the proposed assumed land uses were added to obtain the 2009 BUILD volumes for the intersection analyses. See the Appendix for further information regarding turning movement counts. 2009 NO BUILD Volumes Map, Trips Generated Map, and 2009 BUILD Volumes Map are on Pages A-.

INTERSECTION CAPACITY ANALYSIS

Intersection capacity analyses were performed in accordance with the procedures for signalized and unsignalized intersections in the <u>Highway Capacity Manual</u>, Special Report 209, Transportation Research Board, 2000, using HiCAP Version 2 for unsignalized intersections.

Capacity analyses were performed for the following traffic conditions.

- ⇒ 2009 without development of the subject property (NO BUILD)
- \Rightarrow 2009 with development as per the assumed land uses considering total implementation of the plan.

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

RESULTS OF UNSIGNALIZED INTERSECTION CAPACITY ANALYSES

IMPLEMENTATION YEAR (2009)

Palomas Ave. / Louisiana Blvd.

The results of the analysis of the unsignalized intersection of Palomas Ave. / Louisiana Blvd. are summarized in the following table:

| | 2005 E | xisting | 2009 N | O BUILD | 2009 | BUILD |
|--------------------------------|--------|---------|--------|---------|--------|--------|
| | AM | PM | AM | PM | AM | PM |
| Palomas Ave. / Louisiana Blvd. | | | | | | |
| Minor Street (Palomas Ave.) | | | | | | |
| EB Left | F - * | C - 18 | F - * | C - 25 | F-* | D - 26 |
| EB Right | F - 50 | B - 10 | F-* | B - 11 | F - * | B - 12 |
| Major Street (Louisiana Blvd.) | | | | | | |
| NB Left | C - 16 | A - 8 | C - 25 | A - 9 | D - 31 | A - 9 |

The intersection of Palomas Ave. / Louisiana Blvd. operates at satisfactory levels-of-service during the PM Peak Hour, but is significantly congested during the AM Peak Hour due to the fact that there are two existing schools located on Palomas Ave. Hope Christian School (a private elementary, mid-high, and high school) and Edmund G. Ross Elementary School (a public elementary school) are both located on Palomas Ave. west of Louisiana Blvd. School at Hope starts about 8:00 am and school at Edmund G. Ross Elementary School begins about 8:20 am. The period of congestion at the intersection of Palomas Ave. / Louisiana Blvd. lasts about 45 minutes to one hour. Based on field observation, just prior to that period of time and just afterwards, there is dramatically less traffic at the intersection.

Palomas Ave. / Driveway "A"

The results of the analysis of the unsignalized intersection of Palomas Ave. / Driveway "A" are summarized in the following table:

| | 2009 | BUILD |
|--------------------------------|--------|--------|
| | AM | PM |
| Palomas Ave. / Driveway "A" | | |
| Minor Street (Driveway "A") | | |
| SB Left | B - 14 | D - 30 |
| SB Right | A - 10 | B - 11 |
| Major Street (Louisiana Blvd.) | | |
| EB Left | A - 8 | A - 8 |

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

LEVEL-OF-SERVICE CRITERIA FOR UNSIGNALIZED INTERSECTIONS

| Average Delay | Level-of-Service |
|---------------|------------------|
| (secs) | |
| ≤ 10 | Α |
| > 10 and ≤ 15 | В |
| > 15 and ≤ 25 | С |
| > 25 and ≤ 35 | D |
| > 35 and ≤ 50 | E |
| > 50 | F |
| | |

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

CONCLUSIONS

This analysis was conducted using the following methodology: Trip Generation was established using the Institute of Transportation Engineers' (ITE's) Trip Generation Manual (7th Edition). Generated Trips were distributed proportionately based on the Population Data Analysis Subzones within a 2-mile radius of the site; Growth rate of background traffic volumes was established from a recent Traffic Impact Study for a neighboring project; and the intersection analyses were performed in accordance with the 2000 Highway Capacity Manual, Special Report 209. The Traffic Analysis showed a moderate increase in traffic congestion for the adjacent transportation network based on 100% buildout of the proposed project.

In summary, the proposed development of the Achen Commercial Development facility at the southeast corner of Paseo del Norte / San Pedro Rd. will present no significant adverse impact to the adjacent transportation system provided that the following recommendations are followed:

RECOMMENDATIONS

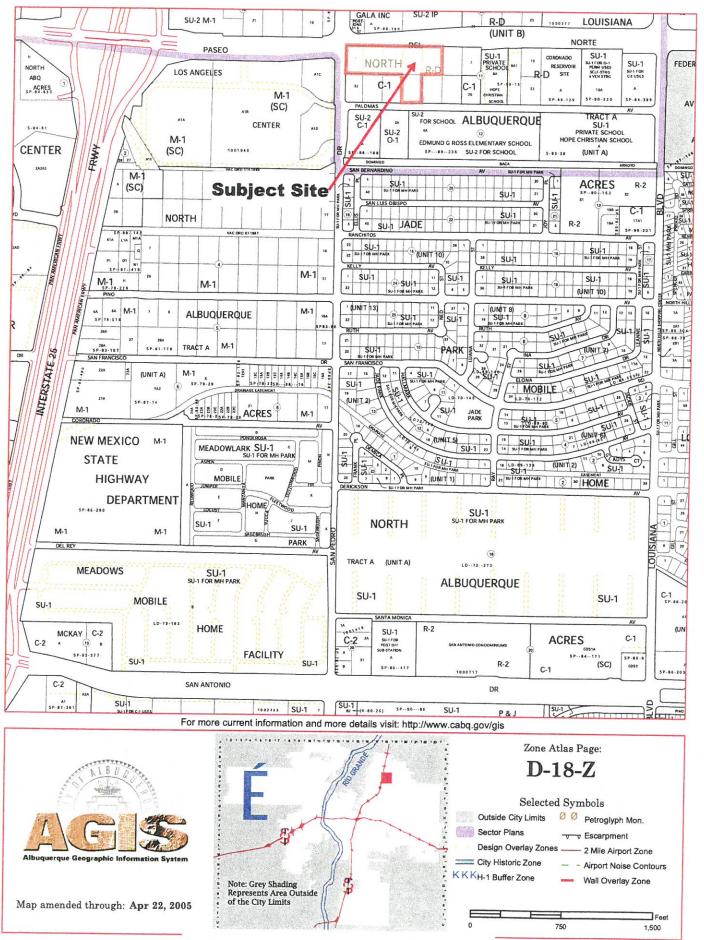
FROM IMPLEMENTATION YEAR (2009) ANALYSIS

 Design and construction of the proposed development should be such that adequate site distances are maintained at all proposed driveways and intersections, and at existing intersections contingent to this site.

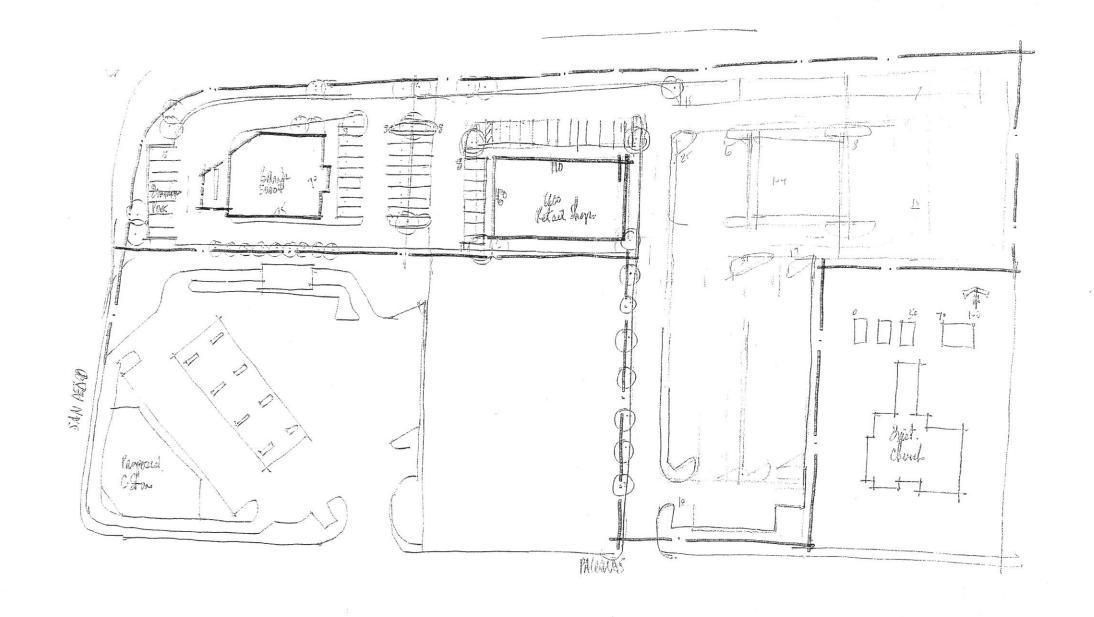
Appendix

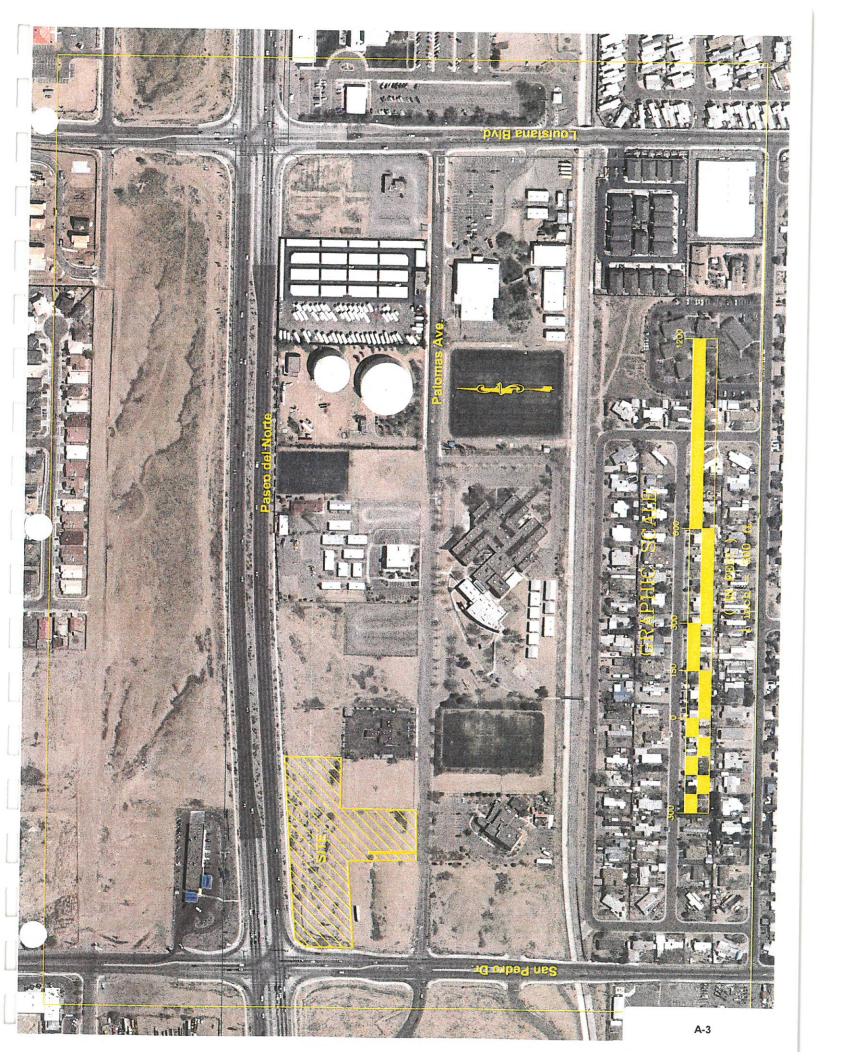
| SITE INFORMATION / TRIP GENERATION / TRIP DISTRIBUTION & ASSIGNMENTS | |
|--|----------------|
| Vicinity Map | A-1 |
| Preliminary Site Development Plan | A-2 |
| Aerial Photo of Adjacent Transportation System | A-3 |
| TRIP GENERATION | |
| Trip Generation Summary Sheet | A-4 |
| Individual Trip Generation Worksheet | A-5 thru A-7 |
| TRIP DISTRIBUTION | |
| Data Analysis Subarea Map | A-8 |
| Trip Distribution Worksheet for Project | A-9 |
| Percentage Trip Distribution Map | A-10 |
| Percentage Trip Assignments Worksheets | A-11 thru A-12 |
| TURNING MOVEMENT COUNTS | |
| 2009 Summary Table of Turning Movement Volumes | A-13 |
| Individual Intersection Turning Movement Volumes Worksheets | A-14 thru A-17 |
| MAP – 2009 NO BUILD Volumes | A-18 |
| MAP – Trips Generated Volumes | A-19 |
| MAP - 2009 BUILD Volumes | A-20 |
| UNSIGNALIZED INTERSECTION ANALYSES | |
| Unsignalized Intersection Analysis of Palomas Ave. / Louisiana Blvd. | A-21 thru A-26 |
| Unsignalized Intersection Analysis of Palomas Ave. / Driveway "A" | A-27 thru A-28 |
| Supporting Data | |
| Traffic Count Data | A-29 |

APPENDIX



Achen Commercial Development





Achen Commercial Development (Paseo del Norte / San Pedro Dr.) **Trip Generation Data**

9/9/2005

| USE (ITE CODE) | 24 HR VOL | A. M. PEAK HR. | AK HR. | P. M. PEAK HR. | AK HR. |
|----------------------------|-----------|----------------|--------|----------------|--------|
| DESCRIPTION | GROSS | ENTER | EXIT | ENTER | EXIT |
| Summary Sheet Units | | | | | |
| Walk-In Bank (911) 5.00 | 2,100 | 54 | 54 | 105 | 105 |
| Shopping Center (820) 6.60 | 1,160 | 19 | 12 | 20 | 54 |
| int (932) | 1,272 | 09 | 55 | 29 | 43 |
| Subtotal | 4,532 | 133 | 121 | 222 | 202 |

Achen_TRIPS.xls - Summary

A-4

Achen Commercial Development (Paseo del Norte / San Pedro Dr.) Tríp Generation Data

| PEAK HOUR PEAK HOUR | EXIT ENTER EXIT | 122 |
|------------------------------|-----------------|--------------------------------|
| YOUNDY VOLUME M.A. | S ENTER | 2,100 54 |
| AUOH AS | GROSS | Units 5.00 Z, 1,000 S.F. |
| USE (ITE CODE) | | Walk-In Bank (911) |

ITE Trip Generation Equations:

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

0 50% Exit T = 420 (X) + 50% Enter,

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

T = 21.49 (X) + 50% Enter, Average Vehicle Trip Ends on a Weekday, Peak Hour of Adjacent Street Traffic, One Hour Between 4pm and 6pm (P.M. PEAK HOUR)

T = 42.02 (X) + 50% Enter, 5 Comments: Tract No.

0 50% Exit

Based on ITE Trip Generation Manual - 7th Edition

A-5

Achen_TRIPS.xls - LandUse (1)

Achen Commercial Development (Paseo del Norte / San Pedro Dr.) Trip Generation Data

9/9/2005

| USE (ITE CODE) | 24 HOUR TWO-WAY VOLUME | | A. M. PEAK HOUR | " d | P. M. PEAK HOUR |
|----------------------------|------------------------------|-------|-----------------------|-------|-----------------------|
| | GROSS | ENTER | EXIT | ENTER | EXIT |
| Units | | | | | |
| Shopping Center (820) 6.60 | 1,160 | 19 | 12 | 20 | 54 |
| 1,000 S.F. | | | | | |

ITE Trip Generation Equations:

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

$$Ln(T) = 0.65 Ln(X) + 5.83$$

50% Enter, 50% Exit

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

Ln(T) = 0.6 Ln(X) + 2.29
61% Enter, 39% Exit

$$n(T) = 0.6 Ln(X) + 2.29$$

61% Enter, 39% Exit

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

Ln(T) = 0.66 Ln(X) + 3.403

48% Enter, 52% Exit

Based on ITE Trip Generation Manual - 7th Edition

Comments: Tract No.

A-6

Achen_TRIPS.xls - LandUse (2)

Achen Commercial Development (Paseo del Norte / San Pedro Dr.) Tríp Generation Data

9/9/2005

| USE (ITE CODE) | AUOH AS YAM-OWT | NOLUME | A. M. PEAK HOUR | Vo. | W. d | PEAK |
|---|--------------------|--------|-----------------------|-----|-------|------|
| | GROSS | ENTER | EXIT | + | ENTER | EXIT |
| T their | Units | | | | | |
| nign Turnover (Sit-Down) Restaurant (932) | | ,272 6 | 09 | 55 | 19 | 43 |
| | ,000 S.F. | | | | | |

ITE Trip Generation Equations:

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

0 50% Exit T = 127.15 (X) + 50% Enter,

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

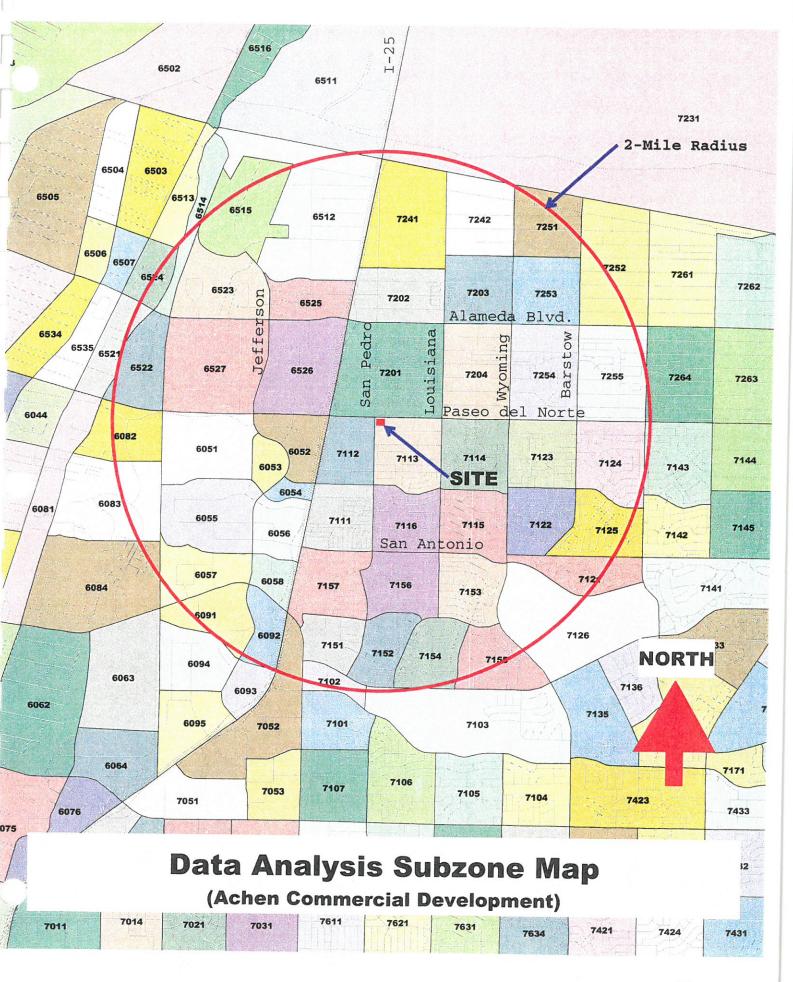
0 48% Exit T = 10.92 (X) + 0 61% Enter, 39% Exit T = 11.52 (X) + 52% Enter, Average Vehicle Trip Ends on a Weekday, Peak Hour of Adjacent Street Traffic, One Hour Between 4pm and 6pm (P.M. PEAK HOUR)

Based on ITE Trip Generation Manual - 7th Edition

Comments: Tract No.

A-7

Achen_TRIPS.xls - LandUse (3)



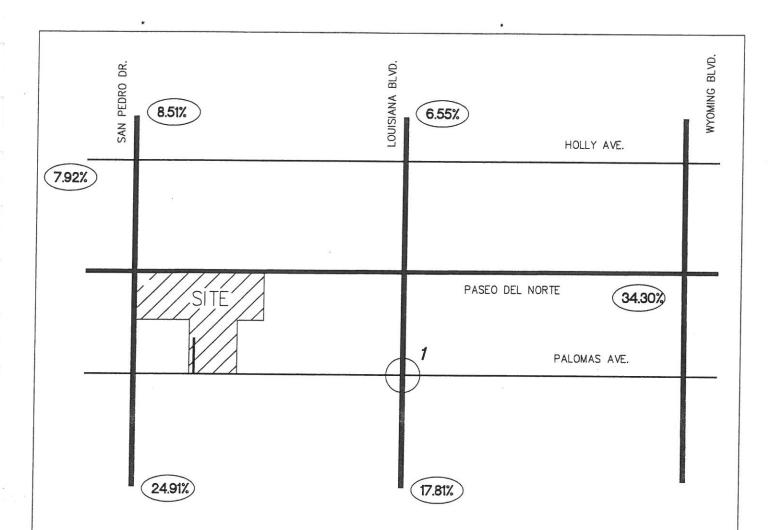
Trip Distribution Table

Achen Commercial Development (Paseo del Norte / San Pedro)

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

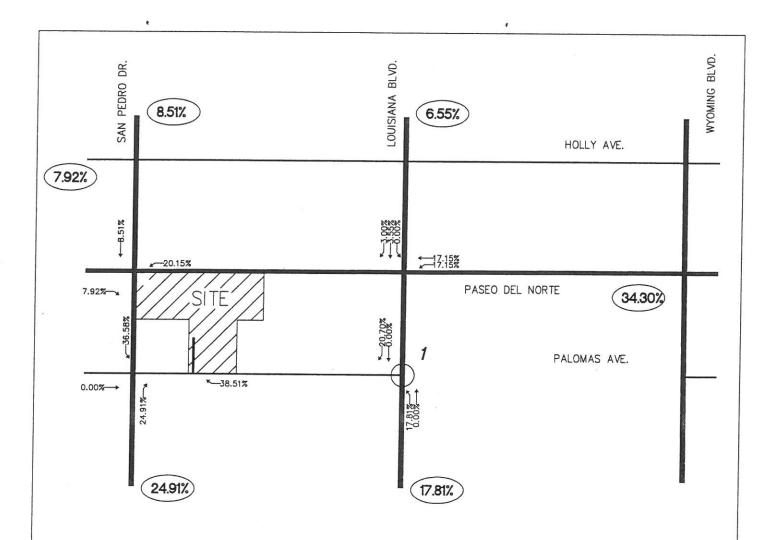
1995, 2005, & 2020 Data Taken from Middle Rio Grande Council of Governments' 2020 <u>Socioeconomic</u> Forecasts for Data Analysis Subzones in State Planning and Development District 3 (TR-125)

| | 10000 | T | | Interpolated | 1 20 | 1 | <u>l</u> | (LN) Louisiana Nort | h | Pas | (PdNE) * eo del Norte I | East | L | (LS) ouisiana Sou | 2 | S | (SS) an Pedro Sou | th) | Pas | (PdNW) eo del Norte | West | S | (SN) an Pedro Nor | th |
|--------------|-------------------------|-------|-----------------|----------------------------|--|-----------------------|-------------|---------------------------|------------|-------------|----------------------------|------------|-------------|---------------------------|--------------|-------------|---------------------------|------------|--|---------------------------|------------|--|---------------------------|------------|
| DASZ# | % Sub Area in Study | | 2025 Population | Population for the Year | Population in Study | Percent Population | % Utilizing | % Population Utilizing | Population | % Utilizing | % Population Utilizing | Population | % Utilizing | % Population Utilizing | Population | % Utilizing | % Population Utilizing | Population | | % Population Utilizing | Population | | % Population Utilizing | Population |
| | 1 010 | 2000 | 2025 | 2009 | | | | | | | | | | | | | | | - | Ottileting | | | Ounzing | |
| 6051 | ecified on DASZ 100% | 2 мар | 0 | | | 0.000/ | | | | | | | | | | | | | | | | | | |
| 6052 | 100% | 0 | 9 | 3 | | | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 100% | 0.00% | 0 | 0% | 0.00% | |
| 6053 | 100% | 0 | | | | 0.01% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 070 | 0.00% | 0 | | 0.00% | 0 | | 0.01% | | | 0.00% | |
| 6054 | 100% | 2 | 1.1 | 2 | | 0.02% 0.01% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0.70 | 0.00% | 0 | | 0.01% | 3 | | 0.01% | | 0% | 0.00% | |
| 6055 | 100% | 0 | | . 3 | + | 0.01% | 0% | 0.00% | 0 | | 0.00% | 0 | 0.70 | 0.00% | 0 | | 0.01% | 2 | 0% | 0.00% | | | 0.00% | |
| 6056 | 100% | 0 | 23 | 8 | | 0.02% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | | 0.00% | 0 | 100% | 0.01% | 3 | 0% | 0.00% | 0 | 0% | 0.00% | |
| 6057 | 100% | 6 | 6 | 6 | F | 0.02% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | | 0.00% | 0 | | 0.02% | 8 | The same of the sa | 0.00% | 0 | 0% | 0.00% | |
| 6058 | 100% | 52 | 57 | 54 | 54 | 0.17% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 100% | 0.02% | . 6 | 0% | 0.00% | 0 | 0% | 0.00% | |
| 6082 | 60% | 57 | 58 | 57 | 34 | 0.10% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 100% | 0.17% | 54 | | 0.00% | 0 | 0% | 0.00% | |
| 6083 | 40% | 322 | 2404 | 1,072 | 429 | 1.32% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | The second secon | 0.10% | 34 | 100.000 | 0.00% | |
| 6091 | 90% | 0 | 0 | 0 | 0 | 0.00% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% 50% | 0.00% | 0 | 100% | 1.32% | 429 | 0% | 0.00% | |
| 6092 | 100% | 6 | 0 | 4 | | 0.01% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 100% | 0.00% | 0 | Property and a set of the second | 0.00% | 0 | | 0.00% | |
| 6512 | 100% | 3 | 379 | 138 | | 0.42% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.01% | 0 | 0% 50% | 0.00% | 0 | The second secon | 0.00% | |
| 6514 6515 | 40% | 101 | 207 | 139 | | 0.17% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 100% | 0.21% | 69 56 | 50% | 0.21% | |
| 6515 6522 | 70% 100% | 0 | 0 | 01 | | 0.00% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 50% | 0.17% | 0 | 50% | 0.00% | |
| 6523 | 100% | 602 | 633 | 612 | | 0.00% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 100% | 0.00% | 0 | | 0.00% | |
| 6524 | 40% | 260 | 633 253 | 613 257 | 613 103 | 1.88% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 50% | 0.94% | 307 | 50% | 0.00% | 30 |
| 6525 | 100% | 387 | 453 | 411 | 411 | 0.32% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 50% | 0.16% | 52 | 50% | 0.16% | |
| 6526 | 100% | 1330 | 1263 | 1,306 | | 1.26% 4.01% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | | 0.63% | 206 | 50% | 0.63% | 20 |
| 6527 | 100% | 0 | 2 | 1,300 | | 0.00% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 50% | 2.01% | 653 | 50% | 2.01% | 65 |
| 7102 | 80% | 494 | 463 | 483 | | 1.19% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 80% | 0.00% | - 1 | 20% | 0.00% | |
| 7111 | 100% | 1176 | 1184 | 1,179 | The second secon | 3.62% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 50% | 0.59% | 193 | 50% | 0.59% | 193 | 0% | 0.00% | |
| 7112 | 100% | 5 | 10 | 7 | 7 | 0.02% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 100% | 3.62% | 1,179 | 0% | 0.00% | 0 | 0% | 0.00% | |
| 7113 | 100% | 893 | 1145 | 984 | 984 | 3.02% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 30% | 0.00% | 0 | 100% | 0.02% | 7 | 0% | 0.00% | 0 | 0% | 0.00% | |
| 7114 | 100% | 1486 | 1408 | 1,458 | 1,458 | 4.48% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 80% | 0.91% 3.58% | 295 1,166 | 70% | 2.12% | 689 | 0% | 0.00% | 0 | 0% | 0.00% | |
| 7115 | 100% | 1541 | 1450 | 1,508 | 1,508 | 4.63% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 50% | 2.32% | 754 | 20% 50% | 0.90% | 292 | 0% | 0.00% | 0 | 0% | 0.00% | |
| 7116 | 100% | 1275 | 1372 | 1,310 | 1,310 | 4.02% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 20% | 0.80% | 262 | 80% | 2.32% 3.22% | 754 | 0% | 0.00% | 0 | 0% | 0.00% | |
| 7121 | 80% | 952 | 920 | 940 | 752 | 2.31% | 0% | 0.00% | 0 | 40% | 0.92% | 301 | 20% | 0.46% | 150 | 40% | 0.92% | 1,048 | 0% | 0.00% | 0 | 0% | 0.00% | |
| 7122 | 100% | 1310 | 1269 | 1,295 | 1,295 | 3.98% | 0% | 0.00% | 0 | 100% | 3.98% | 1,295 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | |
| 7123 | 100% | 1268 | 1729 | 1,434 | 1,434 | 4.40% | 0% | 0.00% | 0 | 100% | 4.40% | 1,434 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | |
| 7124 7125 | 100% | 1473 | 1491 | 1,479 | 1,479 | 4.54% | 0% | 0.00% | 0 | 100% | 4.54% | 1,479 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | |
| 7126 | 80% 40% | 1384 | 1297 | 1,353 | 1,082 | 3.32% | 0% | 0.00% | 0 | 100% | 3.32% | 1,082 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | |
| 7151 | 100% | 1029 | 1209 964 | 435 | 174 | 0.53% | 0% | 0.00% | 0 | 40% | 0.21% | 70 | 20% | 0.11% | 35 | 40% | 0.21% | 70 | 0% | 0.00% | 0 | 0% | 0.00% | |
| 7152 | 100% | 1418 | 1324 | 1,006 | 1,006 | 3.09% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 70% | 2.16% | 704 | 30% | 0.93% | 302 | 0% | 0.00% | |
| 7153 | 100% | 1420 | 1336 | 1,384 | 1,384 | 4.25% 4.27% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 30% | 1.28% | 415 | 70% | 2.98% | 969 | 0% | 0.00% | 0 | 0% | 0.00% | |
| 7154 | 100% | 1262 | 1156 | 1,224 | 1,224 | 3.76% | 0% | 0.00% | 0 | 20% | 0.85% | 278 | 80% | 3.41% | 1,112 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | |
| 7155 | 50% | 902 | 836 | 878 | 439 | 1.35% | 0% | 0.00% | 0 | 80% | 0.00% | 0 | 100% | 3.76% | 1,224 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | (|
| 7156 | 100% | 1525 | 1415 | 1,485 | 1,485 | 4.56% | 0% | 0.00% | 0 | 0% | 0.00% | 351 | 20% | 0.27% | 88 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | (|
| 7157 | 100% | 736 | 1232 | 915 | 915 | 2.81% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 20% | 0.91% | 297 | 80% | 3.65% | 1,188 | 0% | 0.00% | 0 | 0% | 0.00% | (|
| 7201 | 100% | 1826 | 2475 | 2,060 | 2,060 | 6.33% | 40% | 2.53% | 824 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 70% | 1.97% | 641 | 30% | 0.84% | 275 | 0% | 0.00% | (|
| 7202 | 100% | 106 | 214 | 145 | 145 | 0.45% | 40% | 0.18% | 58 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 60% | 3.80% | 1,236 |
| 7203 | 100% | 294 | 1362 | 678 | 678 | 2.08% | 70% | 1.46% | 475 | 30% | 0.62% | 203 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 60% | 0.27% | 87 |
| 7204 | 100% | 360 | 1666 | 830 | 830 | 2.55% | 70% | 1.78% | 581 | 30% | 0.76% | 249 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | (|
| 7241 | 100% | 0 | 647 | 233 | 233 | 0.72% | 30% | 0.21% | 70 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | (|
| 7242 | 100% | 34 | 371 | 155 | 155 | 0.48% | 80% | 0.38% | 124 | 20% | 0.10% | 31 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 70% | 0.50% | 163 |
| 7251 | 70% | 117 | 374 | 210 | 147 | 0.45% | 0% | 0.00% | 0 | 100% | 0.45% | 147 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | |
| 7252 7253 | 40% | 252 | 620 | 384 | 154 | 0.47% | 0% | 0.00% | 0 | 100% | 0.47% | 154 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | (|
| 7254 | 100% | 1109 | 1249 | 1,159 | 1,159 | 3.56% | 0% | 0.00% | 0 | 100% | 3.56% | 1,159 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | |
| 7255 | 100% | 1631 | 1645 2022 | 1,636 | 1,636 | 5.02% | 0% | 0.00% | 0 | 100% | 5.02% | 1,636 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | |
| 1200 | 10076 | 094 | 2022 | 1,300 | 1,300 | 3.99% | 0% | 0.00% | 0 | 100% | 3.99% | 1,300 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | |
| | | | | 35,016 | 32,564 | 100.00% | | | 2,132 | | | 11,169 | | | 5,799 | | | 8,113 | | | 2,580 | 0701 | 0.0076 | 2,772 |
| | | | | | | | | | 6.55% | | | 34.30% | | | 17.81% | | | 24.91% | | | 7.92% | | | 8.51% |



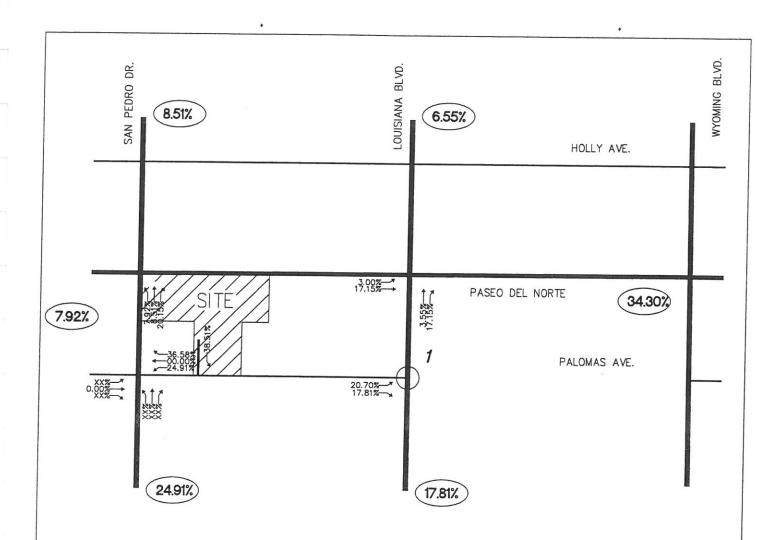


TRIP DISTRIBUTION MAP





TRIP ASSIGNMENTS MAP (% ENTERING)





TRIP ASSIGNMENTS MAP (% EXITING)

Achen Commercial Development (Paseo del Norte / San Pedro Dr.) Projected Turning Movements SUMMARY PROPOSED DEVELOPMENT (2009) - 100% Development

INTERSECTION:

Summary

| Palomas Ave. / Louisiana B | live | | | | | | | | | | | |
|-----------------------------|------|-------------|----------|----------|-------------|----------|----------|--------------|-----------|----------|--------------|-----------|
| (1) | | 0.50 | | | 0.90 | | | 0.75 | | | 0.70 | PHF |
| 3.0% Truck | | und (Palom | | | und (Palom | | | und (Louisia | na Blvd.) | Southbox | und (Louisia | na Blvd.) |
| | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right |
| Existing (2005) | 65 | 0 | | 0 | 0 | 0 | 175 | 278 | 0 | 0 | 324 | 523 |
| 2009 (NO BUILD - A.M.) | 78 | 0 | 233 | 0 | 0 | 0 | 210 | . 334 | 0 | 0 | 389 | 628 |
| 2009 (BUILD - A.M.) | 103 | 0 | 255 | 0 | 0 | 0 | 234 | 334 | 0 | 0 | 389 | 656 |
| | | 0.61 | | | 0.90 | | | 0.86 | | | 0.80 | PHF |
| | | und (Paloma | as Ave.) | Westbou | ind (Paloma | as Ave.) | Northbou | ind (Louisia | na Blvd.) | Southbou | ind (Louisia | |
| | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right |
| Existing (2005) | 81 | 1/ | 62 | 0 | 0 | 0 | 42 | 242 | 0 | 01 | 254 | 75 |
| 2009 (NO BUILD - P.M.) | 97 | 1 | 74 | 0 | 0 | 0 | 50 | 290 | 0 | 0 | 305 | 90 |
| 2009 (BUILD - P.M.) | 139 | | 110 | 0 | 0 | 0 | 90 | 290 | 0 | 0 | 305 | 136 |
| W | | | | | | | | | | | | |
| Palomas Ave. / Driveway "A" | | 0.85 | | | 0.85 | | | 0.85 | | | 0.85 | PHF |
| (2) | | nd (Paloma | s Ave.) | Westbou | nd (Paloma | s Ave.) | Northbo | und (Drivew | av "A") | Southbou | und (Drivew | |
| 3.0% Truck | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right |
| Existing (2005) | 0 | 149 | 0 | 0 | 100 | 01 | 0 | 0 | 0 | 01 | 0 | Trigin |
| 2009 (NO BUILD - A.M.) | 0 | 179 | 0 | 0 | 120 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2009 (BUILD - A.M.) | 82 | 179 | 0 | 0 | 120 | 51 | 0 | 0 | 0 | 47 | 0 | 74 |
| | | 0.85 | | | 0.85 | | | 0.85 | | | 0.85 | PHF |
| | | nd (Palomas | | Westbour | nd (Paloma: | s Ave.) | Northbou | ind (Drivewa | av "A") | Southbou | and (Drivewa | |
| | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right |
| Existing (2005) | 0 | 322 | 0 | 0 | 125 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2009 (NO BUILD - P.M.) | 0 | 386 | 0 | 0 | 150 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2009 (BUILD - P.M.) | 137 | 386 | 0 | 0 | 150 | 85 | 0 | 0 | 0 | 78 | 0 | 124 |

Achen Commercial Development (Paseo del Norte / San Pedro Dr.) Projected Turning Movements Worksheet

Palomas Ave. | Louisiana Blvd.

(1)

INTERSECTION:

E-W Street: Palomas Ave. N-S Street:

0

255

Louisiana Blvd.

103

Year of Existing Counts

Implementation Year

2005

2009 Growth Rates

Existing Volumes

Background Traffic Growth

Subtotal (NO BUILD - A.M.) Percent Commercial Trips Generated(Entering) Percent Commercial Trips Generated(Exiting) Total Trips Generated

Total AM Peak Hour BUILD Volumes

| | 5.00% | | | 5.00% | | | 5.00% | | | 5.00% | |
|-----------|-------------|-----------|--------|-------------|---------|----------|--------------|-----------|----------|-------------|-----------|
| Eastbo | and (Paloma | s Ave.) | Westbo | und (Paloma | s Ave.) | Northbou | nd (Louisian | na Blvd.) | Southbou | nd (Louisia | na Blvd) |
| Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right |
| 65 | 0 | 194 | 0 | 0 | 0 | 175 | 278 | 0 | 0 | 324 | 523 |
| <u>13</u> | 0 | <u>39</u> | 0 | 0 | 0 | 35 | 56 | 0 | 0 | 65 | 105 |
| 78 | 0 | 233 | 0 | 0 | 0 | 210 | 334 | 0 | 0 | 389 | 628 |
| 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 17.81% | 0.00% | 0.00% | 0.00% | 0.00% | 20.70% |
| 20.70% | 0.00% | 17.81% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.009/ |

24

234

334

Existing Volumes Background Traffic Growth Subtotal (NO BUILD - P.M.)

Percent Commercial Trips Generated(Entering) Percent Commercial Trips Generated(Exiting) Total Trips Generated

| | Total | PM | Peak | Hour | BUILD | Volumes |
|--|-------|----|------|------|-------|---------|
| | otal | PM | Peak | Hour | BUILD | Volume |

| Eastbou | nd (Paloma | s Ave.) | Westboo | und (Paloma | s Ave.) | Northbou | nd (Louisian | na Blvd.) | Southbou | nd (Louisia | na Blvd.) |
|---------|------------|---------|---------|-------------|---------|----------|--------------|-----------|----------|-------------|-----------|
| Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right |
| 81 | 1 | 62 | 0 | 0 | 0 | 42 | 242 | 0 | 01 | 254 | 75 |
| 16 | 0 | 12 | 0 | 0 | 0 | 8 | 48 | 0 | 0 | 51 | 15 |
| 97 | 1 | 74 | 0 | 0 | 0 | 0 50 290 | | 0 | 0 | 305 | 90 |
| 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 17.81% | 0.00% | 0.00% | 0.00% | 0.00% | 20.70% |
| 20.70% | 0.00% | 17.81% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 42 | 0 | 36 | 0 | 0 | 0 | 40 | 0 | 0 | 0 | 0 | 46 |
| 139 | 1 | 110 | 0 | 0 | 0 | 90 | . 290 | 0 | - 0 | 305 | 136 |

Number of Commercial Trips Generated

Entering Exiting

133 222

121 A.M. 202 P.M. 100% Commercial Development

28

656

389

Achen_TURNS.xls - Int_1

Achen Commercial Development (Paseo del Norte / San Pedro Dr.) Projected Turning Movements Worksheet

Palomas Ave. | Driveway "A"

INTERSECTION:

E-W Street: N-S Street:

Palomas Ave.

(2)

Year of Existing Counts

Implementation Year

2005

Driveway "A"

2009

Growth Rates

5.00% 5.00% 5.00% 5.00% Northbound (Driveway "A") Left | Thru | Right Eastbound (Palomas Ave.) Southbound (Driveway "A") Left Thru Right Westbound (Palomas Ave.) Thru Right Left Thru | Right Existing Volumes 100 Background Traffic Growth 0 30 20 Subtotal (NO BUILD - A.M.) 0 179 0 120 0 0 0 0 0 0 Percent Commercial Trips Generated(Entering) 61.49% 0.00% 0.00% 0.00% 0.00% 38.51% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% Percent Commercial Trips Generated(Exiting) 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 38.51% 0.00% 0.00% 61.49% Total Trips Generated 82 0 51 47 74 Total AM Peak Hour BUILD Volumes 82 120 51 0 0 47 0 74

Existing Volumes Background Traffic Growth Subtotal (NO BUILD - P.M.) Percent Commercial Trips Generated(Entering) Percent Commercial Trips Generated(Exiting) Total Trips Generated Total PM Peak Hour BUILD Volumes

| Eastbou | ınd (Paloma | s Ave.) | Westbo | und (Paloma | as Ave.) | Northbo | und (Drivew | av "A") | Southbo | und (Drivey | ("A" vav |
|---------|-------------|---------|--------|-------------|----------|---------|-------------|---------|---------|-------------|----------|
| Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right |
| 0 | 322 | 0 | 0 | 125 | 0 | 0 | 0 | 0 | 01 | 0 | 0 |
| 0 | <u>64</u> | 0 | 0 | 25 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 386 | 0 | 0 | 150 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 61.49% | 0.00% | 0.00% | 0.00% | 0.00% | 38.51% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 38.51% | 0.00% | 61.49% |
| 137 | 0 | 0 | 0 | 0 | 85 | 0 | 0 | 0 | 78 | 0 | 124 |
| 137 | 386 | 0 | 0 | 150 | 85 | 0 | 0 | 0 | 78 | 0 | 124 |

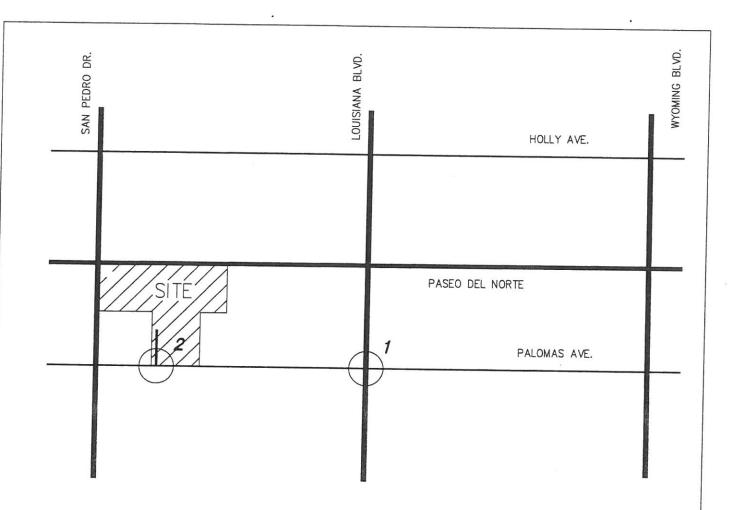
Number of Commercial Trips Generated

Exiting Entering

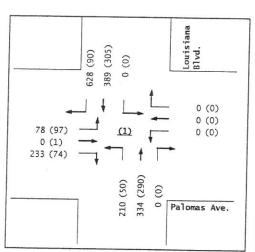
133 121

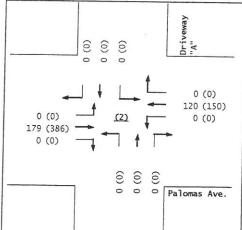
A.M. 222 P.M. 100% Commercial Development

Achen_TURNS.xls - Int_2

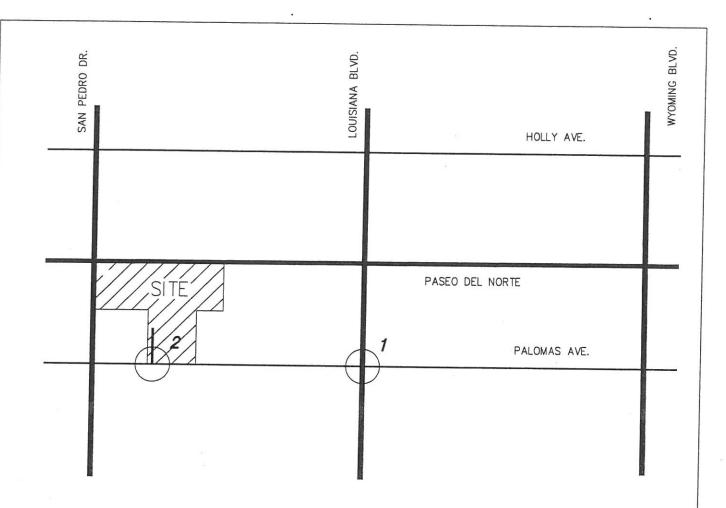




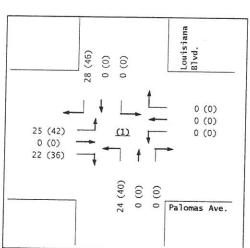


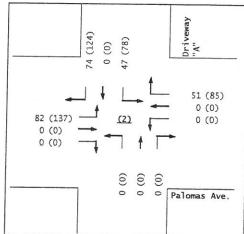


2009 NO BUILD VOLUMES

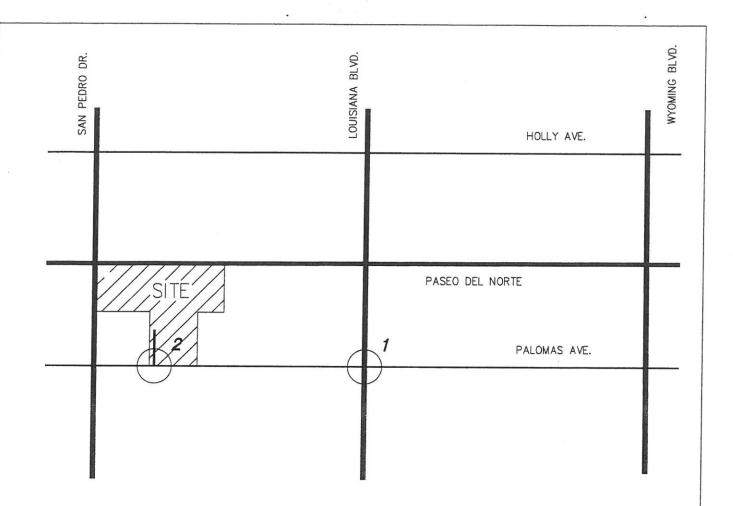




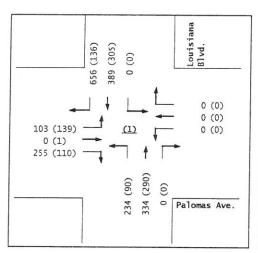


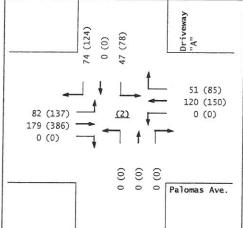


Trips Generated Volumes









2009 BUILD VOLUMES

CHAPTER 17 - TWSC - UNSIGNALIZED INTERSECTIONS WORKSHEET **Analysis Summary** General Information Site Information Analyst tob Jurisdiction/Date City of Albuque 9/9/2005 Agency or Company Terry O. Brown Major Street Louisiana Blvd. 2005 Analysis Period/Year AM Peak Palomas Ave. Minor Street 2005 AM Peak Hour Existing Conditions Comment Input Data Lane Configuration NB SB WB EB Lane 1 (curb) T TR R Lane 2 Т Т L Lane 3 L Lane 4 Lane 5 NB SB WB EB Movement 1 (LT) 2 (TH) 3 (RT) 4 (LT) 5 (TH) 6 (RT) 7 (LT) 8 (TH) 9 (RT) 10 (LT) 11 (TH) 12 (RT) Volume (veh/h) 175 278 324 523 65 194 PHF 0.75 0.70 0.75 0.70 0.50 0.50 Percent of heavy vehicles, HV 3 3 3 3 3 3 Flow rate 233 371 463 747 130 388 Flare storage (# of vehs) Median storage (# of vehs) 0 Signal upstream of Movement 2 ft Movement 5 ft 0.25 Length of study period (h) **Output Data** Lane Movement Flow Rate Control Delay Capacity v/c Queue Length LOS Approach (veh/h) (veh/h) (veh) (s) Delay and LOS 1 WB 2 3 R 1 388 438 F 9 0.885 50.2 181.8 L 130 EB 2 67 1.943 F 12 574.6 F 3 NB (1) 233 567 0.412 2 15.7 C (4) SB

HiCAP ™2.0.0.1 ©Catalina Engineering, Inc.

1 - 2005AX 1 of 1

CHAPTER 17 - TWSC - UNSIGNALIZED INTERSECTIONS WORKSHEET **Analysis Summary** General Information Site Information tob Analyst Jurisdiction/Date City of Albuque 9/9/2005 Agency or Company Terry O. Brown Major Street Louisiana Blvd. AM Peak Analysis Period/Year 2009 Palomas Ave. Minor Street 2009 AM Peak Hour NO BUILD Conditions Comment Input Data Lane Configuration NB SB WB EB Lane 1 (curb) T TR R Lane 2 T T L Lane 3 L Lane 4 Lane 5 NB SB WB EB Movement 1 (LT) 2 (TH) 3 (RT) 4 (LT) 5 (TH) 6 (RT) 7 (LT) 8 (TH) 9 (RT) 10 (LT) 11 (TH) 12 (RT) Volume (veh/h) 210 334 389 628 78 233 PHF 0.75 0.75 0.70 0.70 0.50 0.50 Percent of heavy vehicles, HV 3 3 3 3 3 3 Flow rate 280 445 556 897 156 466 Flare storage (# of vehs) Median storage (# of vehs) 0 Signal upstream of Movement 2 Movement 5 ft Length of study period (h) 0.25 **Output Data** Lane Movement Flow Rate Capacity v/c Queue Length Control Delay LOS Approach (veh/h) (veh/h) (veh) (s) Delay and LOS 1 WB 2 3 R 1 466 364 1.278 21 175.6 723.1 EB 2 L 156 28 5.615 19 F 2358.6 3 F NB (1) 280 457 0.613 24.6 С (4) SB

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1 - 2008ANX

CHAPTER 17 - TWSC - UNSIGNALIZED INTERSECTIONS WORKSHEET

Analysis Summary General Information Site Information Analyst Jurisdiction/Date City of Albuque 9/11/2005 Agency or Company Terry O. Brown Major Street Louisiana Blvd. Analysis Period/Year AM Peak 2009 Palomas Ave. Minor Street Comment 2009 AM Peak Hour BUILD Conditions Input Data Lane Configuration NB SB WB EB Lane 1 (curb) T TR R Lane 2 T T L Lane 3 L Lane 4 Lane 5 NB SB WB EB Movement 1 (LT) 2 (TH) 3 (RT) 4 (LT) 5 (TH) 6 (RT) 7 (LT) 8 (TH) 9 (RT) 10 (LT) 11 (TH) 12 (RT) Volume (veh/h) 234 334 389 656 103 255 PHF 0.75 0.75 0.70 0.70 0.50 0.50 Percent of heavy vehicles, HV 3 3 3 3 3 3 Flow rate 312 445 556 937 206 510 Flare storage (# of vehs) Median storage (# of vehs) 0 Signal upstream of Movement 2 ___ ft Movement 5 ft Length of study period (h) 0.25 **Output Data** Lane Movement Flow Rate Capacity v/c Queue Length Control Delay LOS Approach (veh/h) (veh/h) (veh) (s) Delay and LOS 1 WB 2 3 R 1 510 354 1.442 27 243.3 1609.7 EB L 206 2 18 11.192 26 F 4992.6 3 F NB (1) 312 441 0.708 5 30.6 D (4) SB

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1 - 2008ABX

CHAPTER 17 - TWSC - UNSIGNALIZED INTERSECTIONS WORKSHEET **Analysis Summary** General Information Site Information tob Analyst Jurisdiction/Date City of Albuque 9/9/2005 Agency or Company Terry O. Brown Major Street Louisiana Blvd. Analysis Period/Year PM Peak 2005 Minor Street Palomas Ave. Comment 2005 PM Peak Hour Existing Conditions Input Data Lane Configuration NB SB **WB** EB Lane 1 (curb) T TR R Lane 2 T T L Lane 3 L Lane 4 Lane 5 NB SB WB EB Movement 1 (LT) 2 (TH) 3 (RT) 4 (LT) 5 (TH) 6 (RT) 7 (LT) 8 (TH) 9 (RT) 10 (LT) 11 (TH) 12 (RT) Volume (veh/h) 42 242 254 75 81 62 PHF 0.86 0.86 0.80 0.80 0.61 0.61 Percent of heavy vehicles, HV 3 3 3 3 3 3 Flow rate 49 281 318 94 133 102 Flare storage (# of vehs) Median storage (# of vehs) 0 Signal upstream of Movement 2 _ ft Movement 5 Length of study period (h) 0.25 **Output Data** Lane Movement Flow Rate Capacity v/c Queue Length Control Delay LOS Approach (veh/h) (veh/h) (veh) (s) Delay and LOS 1 WB 2 3 1 R 102 798 0.128 0 10.2 В 14.6 EB L 133 2 410 0.324 1 C 17.9 3 В NB (1) 49 1137 0.043 0 8.3 Α (4) SB

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1 - 2005PX 1 of 1

CHAPTER 17 - TWSC - UNSIGNALIZED INTERSECTIONS WORKSHEET **Analysis Summary** General Information Site Information Analyst Jurisdiction/Date City of Albuque 9/9/2005 Agency or Company Terry O. Brown Major Street Louisiana Blvd. Analysis Period/Year PM Peak 2009 Palomas Ave. Minor Street Comment 2009 PM Peak Hour NO BUILD Conditions Input Data Lane Configuration NB SB WB EΒ Lane 1 (curb) Т TR R Lane 2 T T L Lane 3 L Lane 4 Lane 5 NB SB **WB** EB Movement 1 (LT) 2 (TH) 3 (RT) 4 (LT) 5 (TH) 6 (RT) 7 (LT) 8 (TH) 9 (RT) 10 (LT) 11 (TH) 12 (RT) Volume (veh/h) 50 290 305 90 97 74 PHF 0.86 0.86 0.80 0.80 0.61 0.61 Percent of heavy vehicles, HV 3 3 3 3 3 3 Flow rate 58 337 381 113 159 121 Flare storage (# of vehs) Median storage (# of vehs) 0 Signal upstream of Movement 2 ft Movement 5 0.25 Length of study period (h) **Output Data** Lane Movement Flow Rate Capacity Control Delay v/c Queue Length LOS Approach (veh/h) (veh/h) (veh) (s) Delay and LOS 1 WB 2 3 R 121 1 750 0.161 1 10.7 18.6 159 EB L 2 340 0.468 2 С 24.6 3 C NB (1) 58 1059 0.055 0 8.6 Α

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CHAPTER 17 - TWSC - UNSIGNALIZED INTERSECTIONS WORKSHEET Analysis Summary

| | Gen | eral Inform | ation | | | | | Site | Informa | tion | | | | | |
|------------------|---------|------------------|----------------------|----------|---|-----------------------------|----------|---|---|--------------|---|--|---------|-------------------|---------------------------------------|
| | Analy | st | tob | | | | | Jurisd | liction/Date | City | of Albu | aue | | 9/ | 11/200 |
| | Agend | cy or Company | Terry C |). Brown | n | | | | Street | | siana B | | | | 11/200 |
| | Analys | sis Period/Year | PM Pea | ak | | 2009 | 9 | | Street | | nas Av | | | | |
| 1 | Comm | nent | 2009 P | M Peak | Hour E | BUILD | Conditio | ons | | | | | | | |
| - | Inpu | t Data | | | | | | | | | 11.15 | | | | |
| L | ane C | Configuration | | | NB | | | SB | | | WB | | T | EB | |
| L | ane 1 | (curb) | | | Т | Hillian Marriage (1 house a | | TR | *************************************** | | | | | R | |
| L | ane 2 | | | | Т | | | Т | | | | | 1 | L | |
| L | ane 3 | | | | L | | | of the informer name was be the same of the | | | | ************************************* | | | #1.000 Processor to |
| L | ane 4 | | | | | | | | | | | ****************** | | | |
| L | ane 5 | | | | | | | | | _ | | | | | |
| | | | | | NB | | | SB | | | WB | | | EB | |
| | lovem | | | 1 (LT) | 2 (TH) | 3 (RT) | 4 (LT) | 5 (TH) | 6 (RT) | 7 (LT) | 8 (TH) | 9 (RT) | 10 (LT) | 11 (TH) | 12 (RT) |
| | | (veh/h) | | 90 | 290 | | | 305 | 136 | | | | 139 | | 110 |
| | HF | | | 0.86 | 0.86 | | | 0.80 | 0.80 | | | - | 0.61 | | 0.61 |
| P | ercent | of heavy vehicl | es, HV | 3 | 3 | | | 3 | 3 | | | | 3 | | 3 |
| FI | ow rat | te | | 105 | 337 | | | 381 | 170 | | | | 228 | | 180 |
| FI | are sto | orage (# of vehs | s) | | | | | | | | | | | | 100 |
| M | edian | storage (# of ve | ehs) | | | | | | | | | | 1 | | |
| Si | gnal u | pstream of Mov | /ement 2 | | ft | | Mov | ement 5 | | fi | | | | i | |
| Le | ngth o | of study period | (h) _ | 0.25 | | | | | | | | | | | |
| 0 | utpu | t Data | | | Marian Agric (1984) Marian Arianga (1984) | | | | | | *************************************** | | | | |
| | Lane | Movement | Flow Rate (veh/h) | Ca (1 | apacity veh/h) | V. | /c | | Length | Contro (s | | LO: | S | Appro Delay ar | |
| | 1 | | | | | | | | | | , | | | Delay ai | 10 203 |
| ٧B | 2 | | | | | | | | - | | | | | | |
| | 3 | | | | | | | | | | | 1980 | | | |
| | 1 | R | 180 | 7 | 719 | 0.2 | 250 | | 1 | 11. | 7 | В | | | |
| В | 2 | L | 228 | 3 | 393 | 0.5 | | | 1 | 26. | - | D | | 19. | 7 |
| A. C. Philippine | 3 | | | | | | | | | 20. | | | | С | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 |
| N | 3 | 1 | 105 | 10 | 008 | 0.1 | 04 | C |) | 9.0 | | A | | | |
| SE | 3 | (4) | | | | | | | | | | | | | |
| **** | | | | 1 | | | - 1 | | | | | | 1 | | |

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CHAPTER 17 - TWSC - UNSIGNALIZED INTERSECTIONS WORKSHEET **Analysis Summary** General Information Site Information Analyst tob Jurisdiction/Date City of Albuque 9/9/2005 Agency or Company Terry O. Brown Major Street Palomas Ave. Analysis Period/Year AM Peak 2009 Driveway "A" Minor Street Comment 2009 AM Peak Hour BUILD Conditions Input Data Lane Configuration ΕB WB NB SB Lane 1 (curb) Т TR R Lane 2 L L Lane 3 Lane 4 Lane 5 EB WB NB SB Movement 1 (LT) 2 (TH) 3 (RT) 4 (LT) 5 (TH) 6 (RT) 8 (TH) 9 (RT) 10 (LT) 11 (TH) 12 (RT) 7 (LT) Volume (veh/h) 82 179 120 51 47 74 PHF 0.85 0.85 0.85 0.85 0.85 0.85 Percent of heavy vehicles, HV 3 3 3 3 3 3 Flow rate 96 211 141 60 55 87 Flare storage (# of vehs) Median storage (# of vehs) Signal upstream of Movement 2 ft Movement 5 _ft Length of study period (h) 0.25 **Output Data** Lane Movement Flow Rate Capacity V/C Queue Length Control Delay LOS Approach (veh/h) (veh/h) (veh) (s) Delay and LOS 1 NB 2 3 R 1 87 870 0.100 0 9.6 A 11.4 SB L 55 444 0.124 0 14.2 3 В EB (1) 96 1365 0.071 0 7.8 A (4) WB

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CHAPTER 17 - TWSC - UNSIGNALIZED INTERSECTIONS WORKSHEET **Analysis Summary** General Information Site Information tob Analyst Jurisdiction/Date City of Albuque 9/9/2005 Agency or Company Terry O. Brown Major Street Palomas Ave. Analysis Period/Year PM Peak 2009 Minor Street Driveway "A" Comment 2009 PM Peak Hour BUILD Conditions Input Data Lane Configuration EB WB NB SB Lane 1 (curb) T TR R Lane 2 L L Lane 3 Lane 4 Lane 5 EB WB NB SB Movement 1 (LT) 2 (TH) 3 (RT) 4 (LT) 5 (TH) 6 (RT) 7 (LT) 9 (RT) 10 (LT) 11 (TH) 12 (RT) 8 (TH) Volume (veh/h) 137 386 150 85 78 124 PHF 0.85 0.85 0.85 0.85 0.85 0.85 Percent of heavy vehicles, HV 3 3 3 3 3 3 Flow rate 161 454 176 100 92 146 Flare storage (# of vehs) Median storage (# of vehs) Signal upstream of Movement 2 _ ft Movement 5 Length of study period (h) 0.25 **Output Data** Lane Movement Flow Rate Capacity v/c Control Delay Queue Length LOS Approach (veh/h) (veh/h) (veh) (s) Delay and LOS 1 NB 2 3 R 1 146 810 0.180 1 10.4 В 18.0 SB L 92 2 234 0.394 2 D 30.1 3 С EB (1) 161 1281 0.126 0 8.2 Α WB (4) **HiCAP** ™2.0.0.1 ©Catalina Engineering, Inc. 2 - 2009PB

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| Continuous and Continuous Ave. Continuo | Year Counts Taken. | Taken. | 2000 | | | וובו רומו חב | manudoray | (Faseo c | lel Norte / | Pedro Pedro Pedro Pedro Pedro Pedro | 6 | | | |
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| Find Eastbound (Palomas Ave.) Westbound (P | | | | | | | UNSIGN | VALIZED | | | Date o | of Count | 30 | I I I |
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| State Stat | 7:45 AM | 8:00 AM | 6 | | 3 9 | | 0 | 0 | 28 | 78 | 0 | 0 | 112 | 183 |
| State Stat | 8:00 AM | 8:15 AM | 43 | 0 | 200 | | 0 | 0 | 71 | 82 | 0 | 0 | 79 | 161 |
| State State | 8:15 AM | 8:30 AM | 24 | 0 | 3 07 | > 0 | 0 | 0 | 26 | 47 | 0 | 0 | 65 | 88 |
| 100 AM 14 0 17 0 0 0 17 0 0 0 101 mes 65 0 194 0 0 0 0 175 278 0 156% 124% 0.0% 0.0% 0.0% 11.2% 17.8% 0.0% 166% 124% 0.0% 0.0% 0.0% 11.2% 17.8% 0.0% 166% 124% 0.0% 0.0% 0.0% 11.2% 17.8% 0.0% 166% 124% 0.0% 0.0% 0.0% 11.2% 17.8% 0.0% 166% 124% 0.0% 0.0% 0.0% 11.2% 17.8% 0.0% 166% 124% 0.0% 0.0% 0.0% 11.2% 17.8% 0.0% 166% 124% 0.0% 0.0% 0.0% 0.0% 166% 124% 0.0% 0.0% 0.0% 0.0% 166% 124% 0.0% 0.0% 0.0% 166% 124% 0.0% 0.0% 0.0% 166% 124% 0.0% 0.0% 0.0% 166% 124% 0.0% 0.0% 0.0% 166% 166% 0.0% 0.0% 0.0% 166% 166% 0.0% 0.0% 0.0% 166% 166% 0.0% 0.0% 0.0% 166% 166% 0.0% 0.0% 0.0% 166% 166% 0.0% 0.0% 0.0% 166% 166% 0.0% 0.0% 0.0% 166% 166% 0.0% 0.0% 0.0% 0.0% 166% 166% 0.0% 0.0% 0.0% 0.0% 166% 166% 0.0% 0.0% 0.0% 0.0% 166% 166% 0.0% 0.0% 0.0% 0.0% 0.0% 166% 166% 0.0% 0.0% 0.0% 0.0% 0.0% 166% 166% 0.0% 0.0% 0.0% 0.0% 0.0% 166% 166% 0.0% 0.0% 0.0% 0.0% 0.0% 166% 166% 0.0% 0.0% 0.0% 0.0% 0.0% 166% 166% 0.0% 0.0% 0.0% 0.0% 0.0% 166% 166% 0.0% 0.0% 0.0% 0.0% 0.0% 166% 166% 0.0% 0.0% 0.0% 0.0% 0.0% 166% 166% 0.0% 0.0% 0.0% 0.0% 0.0% 166% 166% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 166% 166% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 166% 166% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 166% 166% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 166% 166% 0.0% 0 | 8:30 AM | 8:45 AM | 18 | ā | 78 | | 0 | θ | 43 | 25 | 0 | 0 | 64 | 11 |
| Index 65 0 174 0 0 0 175 278 0 0 0 0 175 278 0 0 0 0 0 0 0 175 278 0 0 0 0 0 0 0 0 0 | 8:45 AM | 9:00 AM | 14 | | 17 | D C | А | θ | # | 99 | θ | 0 | 99 | 14 |
| 124 | AM Peak Hou | r Volumes | 65 | | 707 | A | A | θ | 40 | 99 | θ | 0 | 58 | 15 |
| Total Tota | % of Total Traffic | | 300 | > 8 | 194 | 0 | 0 | 0 | 175 | 278 | 0 | 0 | 324 | 522 |
| To Signature To S | % Directional | | 4.2.70 | 0.0% | 12.4% | %0.0 | %0.0 | %0.0 | 11.2% | 17.8% | %0.0 | 0 0% | 70000 | 26.00 |
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