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Andalucia, Tract 6
(Montano Rd. / Coors Blvd.)

Traffic Impact Study UPDATE

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D R A F T

Presented to:

City of Albuquerque
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&
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District 3

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**Andalucia, Tract 6 Development
TRAFFIC IMPACT STUDY
(UPDATE)**

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Andalucia, Tract 6 Development TRAFFIC IMPACT STUDY (UPDATE)

STUDY PURPOSE

The study is being conducted as an update to the former Traffic Impact Study entitled Montano Shoppes / Andalucia, Tract 6 (Montano Rd. / Coors Blvd.) Traffic Impact Study dated June 1, 2007. The former approved study was associated with development plans proposing two new commercial centers including the Andalucia, Tract 6 project as shown conceptually in the Appendix (Pages A-81) of this report. The approved Andalucia, Tract 6 plan is proposed to be amended to implement the current proposed plan as shown on Page A-3 in the Appendix of this report. The purpose of this study is to re-evaluate the impact of the current proposed development on the adjacent transportation system, and to make recommendations to mitigate any significant adverse impact on the adjacent transportation system resulting from the implementation of the site development plan. This study is being prepared to meet the requirements of the City of Albuquerque Transportation Development Section and the New Mexico Department of Transportation, District 3 Office.

STUDY PROCEDURES

A scoping meeting was held with City of Albuquerque staff including the City Engineer, the traffic engineer, prior to beginning the study to discuss scope and methodology to be utilized within the report. Specific items included format, intersections to be studied, intersection analysis procedures, existing traffic counts, trip distribution methodology, and implementation year definition. In reviewing the generated trips for the center a more conservative approach was used to separate the proposed Wal-Mart store into its components of grocery and discount, which resulted in more trips being generated than the stand alone store. Bosque School was considered as existing back ground traffic in the analysis.

The basic procedure followed is described as follows:

- 1) Calculate the generated trips for the proposed development consisting of the following described lane uses:
 - An approximately 40,000 S.F. Supermarket*
 - An approximately 59,000 S.F. Free-standing Discount Store*

NOTE: The Supermarket floor space and the Free-standing Discount Store floor space combined constitute the Walmart Store. These two land use categories were utilized in the determination of the trip generation rates for the project to provide a conservatively high trip generation rate. This trip generation calculation method results in a 25% or higher trip generation rate than a Supercenter Trip Generation Rate would yield.

 - Approximately 69,700 S.F. of general in line retail commercial building floor space
 - A Drive-In Bank (3 Drive-In Windows).

- *High Turnover Sit-Down Restaurants (Approximately 25,100 S.F for three different facilities.)*
 - *A 345 unit Apartment Complex*
- 2) Analysis included in this Traffic Impact Study will consist of considering an implementation year of 2015 (full **build** out of the center will be accomplished over that time period).
- 3) Calculate trip distribution for the newly generated trips by these developments. The new commercial trips will be distributed based on year 2015 population within a two (2) mile radius boundary of the proposed site as shown on Page A-16 in the Appendix of this report. In addition, an adjusted boundary was used for the proposed Walmart store based on locations of other adjacent Walmart stores. The new residential trips will be distributed based on year 2015 employment citywide inversely proportional to the distance of the employment subarea from the proposed project location.
- 4) 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 (See Pages A-16 thru A-38 in the Appendix of this report).
- 5) Acquire a recent traffic count for the intersection of Montano Rd. / Coors Blvd.
- 6) Perform new traffic counts (turning movement counts) for the intersections of Dellyne Ave. / Coors Blvd., Montano Rd. / 4th St and Montano Rd. / Winterhaven Rd.
- 7) A 1.2% growth rate was used in this study based on Traffic Flow data and recent traffic count data in the area based upon the historic traffic growth in the area.
- 8) Determine 2015 NO BUILD Volumes by growing the existing turning movement counts to the year 2015 utilizing the appropriate annual historic growth rate for the area. Additionally, the trips generated by the U. S. New Mexico Credit Union project at Learning Rd. / Coors Blvd. were added in to the 2015 background volumes in this study.
- 9) Add in data from Trip Assignments Maps and Tables to the 2015 NO BUILD Volumes to obtain 2015 BUILD Volumes for this project.
- 10) Provide signalized and / or unsignalized intersection analyses for the following intersections:

| INTERSECTION | TYPE CONTROL | NO BUILD | BUILD |
|--------------------------------------|----------------|----------|-------|
| 3) Montano Rd. / Coors Blvd. | Traffic Signal | 2015 | 2015 |
| 4) Dellyne Ave. / Coors Blvd. | Traffic Signal | 2015 | 2015 |
| 7) Montano Rd. / 4 th St. | Traffic Signal | 2015 | 2015 |
| 8) Montano Rd. / Winterhaven Rd. | Stop Sign | 2015 | 2015 |
| 9) Montano Rd. / Antequera Rd | Stop Sign | N/A | 2015 |
| 10) E-W Street / Coors Blvd. | Stop Sign | N/A | 2015 |
| 11) Mirandela St / Coors Blvd. | Stop Sign | N/A | 2015 |

PREVIOUS RELATED TRAFFIC IMPACT STUDIES

Included in the background traffic volumes for this project are the trips generated by the following previous Traffic Impact Study:

- 1) *U. S. New Mexico Credit Union at Dellyne Ave / Coors Blvd*

The Implementation Year Trips Generated Volumes from those reports were added into the 2015 Background Subtotal Volumes in this report to obtain the 2015 NO BUILD Volumes. The proposed U. S. New Mexico Credit Union project is being developed on a parcel of land that was included in the 2007 Traffic Impact Study for the Montano Shoppes / Andalucia, Tract 6 project. The Credit Union tract is located on the south end of the Andalucia project. This study considers the Credit Union trips as included in the 2015 background traffic volumes.

GENERAL AREA CHARACTERISTICS

The proposed requested site development plan is at the southeast corner of Montano Rd. / Coors Blvd. as shown on the Vicinity Map on Page A-1 of the Appendix of this report. Properties surrounding this site are a mix of commercial, school, and residential uses. The property to the east of Andalucia, Tract 6 is the existing Bosque Prep Private School. The proposed ABCWA (Albuquerque Bernalillo County Water Authority) treatment plant will generate nominal maintenance traffic and was considered to be included in the annual background traffic growth increases. Most of the land surrounding this site to the north and west is substantially developed or being developed. The property to the south is being developed into apartments and the school will have more expansion plans to the east of the site. In conversations with the property owner, the apartments should break ground for development this year. More detailed zoning information may be obtained upon inspection of the Vicinity Maps on Page A-1 and A-2 in the Appendix.

AREA STREET NETWORK

Coors Boulevard is classified as a Principal Arterial roadway south of Alameda Blvd. on the Long Range Roadway System for the Albuquerque Urban Area. It is generally a six lane paved urban roadway with curbs and gutters on both sides of the roadway and raised medians in the center. There is a paved shoulder and bicycle lanes on each side of Coors Blvd.

Montano Road is classified as a Limited Access Minor Arterial Roadway on the Long Range Roadway System for the Albuquerque Urban Area. It is a four lane paved urban section roadway with curbs and gutters on both side of the street and a raised median. The posted speed limit on Montano Rd. from Taylor Ranch Rd. to Coors Blvd. is 40 MPH.

Dellyne Ave. is classified as a Collector Street on the Long Range Roadway System for the Albuquerque Metropolitan Area. It is currently a two lane paved facility west of Coors Blvd.

4th St. from Central Ave. to Alameda Blvd. is classified as a Minor Arterial Roadway on the Long Range Roadway System for the Albuquerque Metropolitan Area. It is currently a four lane urban roadway with curbs and gutters on both sides of the street and raised medians.

EXISTING TRAFFIC VOLUMES

2010 Average Weekday Traffic Volumes (AWDT) for major streets in the site plan area are shown on Page A-5 of the Appendix.

Current turning movement volumes obtained during the AM and PM Peak Hours for this project were acquired from recent field counts conducted by the consulting engineer.

Existing AM and PM Peak Hour turning movement counts were provided by the City of Albuquerque for the following intersections:

Montano Rd. / Coors Blvd. (2010)

Additionally, AM and PM Peak Hour turning movement counts for 2011 were obtained by field traffic counts taken for the following intersections:

Dellyne Ave. (Learning Rd.) / Coors Blvd. (2011)

Montano Rd. / 4th St. (2011)

Montano Rd. / Winterhaven Rd. (2011)

EXISTING (2011) LEVELS OF SERVICE

The Highway Capacity Manual 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. |
| LOS E | 55.1 to 80.0" | Limit of acceptable delay. |
| LOS F | > 80.0" | Increased delay with multiple cycle waits . |

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.

The existing levels-of-service were not calculated for this report. An approximation of the existing levels of service can be acquired from the 2015 NO BUILD levels-of-service since the annual growth rates in this area are so low.

PROPOSED DEVELOPMENT

The proposed location is at the southeast corner of the existing signalized intersection of Montano Rd. / Coors Blvd. It is called Andalucia, Tract 6 in this study. This Traffic Impact Study Update considers the entirety of the Andalucia, Tract 6 land, but the primary application for approval by the City of Albuquerque Environmental Planning Commission is the retail commercial component on the north half of the project. The

following commercial uses are proposed for this property (as mentioned the proposed Wal-Mart store has been separated into its component parts):

- An approximately 40,000 S.F. Supermarket*
- An approximately 59,000 S.F. Free-standing Discount Store*
- Approximately 69,700 S.F. of retail commercial building floor space
- A Drive-In Bank (3 Drive-In Windows).
- High Turnover Sit-Down Restaurants (Approximately 25,100 S.F.)

**NOTE: The Supermarket floor space and the Free-standing Discount Store floor space combined constitute the Walmart Store. These two land use categories were utilized in the determination of the trip generation rates for the project to provide a conservatively high trip generation rate. This trip generation calculation method results in a 25% or higher trip generation rate than a Supercenter Trip Generation Rate would yield.*

See the conceptual site development plan on Page A-3 in the Appendix of this report to acquire more detailed information about the proposed development plan.

The site plan is conceptual at this point in time and is subject to minor changes as progress takes place in the design process. The plan and level of traffic generation should, however, provide a reliable basis upon which to analyze the impact of the development on the adjacent transportation system and provide guidelines for mitigating the impact and establishing access criteria. The conceptual site plan as it is shown in this report proposes four (4) primary access points or driveways into the sites from arterial roadways.

The proposed retail commercial plan will be accessed from Montano Rd. at Winterhaven Rd. and Antequera; from Coors Blvd. at two proposed driveways located between Dellyne Ave. and Montano Rd. The driveway at Mirandela / Coors Blvd. is an approved right-in, right-out, left-in only unsignalized driveway. A second proposed driveway to the north is designated as a right-in, right-out only access, **and requires T.C.C. approval by the Mid-Region Council of Governments.**

The proposed driveway configuration can be seen on the site development plan on Page A-3 in the Appendix of this study.

TRIP GENERATION

Projected trips were calculated from data in the Institute of Transportation Engineers Trip Generation report (8th Edition, 2008). Trips for the development were determined based on land uses defined on the Conceptual Site Development Plan on Page A-3 in the Appendix of this report. This project is rather unique in that it is an updated plan for Andalucia, Tract 6. The previous Andalucia, Tract 6 plan was proposed in 2005, and the previous Traffic Impact Study evaluated the trips generated by that plan. This study will consider not only the trips being generated under this new plan, but will provide a comparison to the **trips generated in the 2007 Traffic Impact Study.** The resulting number of trips generated for the currently proposed development (and comparison with the previous plan **in the 2007 TIS**) are summarized in the following table:

Andalucia, Tract 6 Update (Montano / Coors)
Trip Generation Data (ITE Trip Generation Manual - 8th Edition)

| COMMENT | USE (ITE CODE) | DESCRIPTION | 24 HR VOL | A. M. PEAK HR. | P. M. PEAK HR. | | |
|--|---|-------------|----------------|----------------|----------------|--------------|--------------|
| | | | GROSS | ENTER | EXIT | ENTER | EXIT |
| Summary Sheet | | | | | | | |
| Walmart (Grocery) | Supermarket (850) | Units | | | | | |
| | 40.00 | 4,070 | 88 | 56 | 251 | 241 | |
| Walmart (Dry Goods) | Free-Standing Discount Store (815) | | 59.00 | 2,363 | 43 | 20 | 148 |
| NORTH TRACT | Shopping Center (820) | | 70.24 | 5,398 | 76 | 49 | 246 |
| NORTH TRACT | Drive-In Bank (912) | | 3 | 418 | 16 | 12 | 40 |
| NORTH TRACT | High Turnover (Sit-Down) Restaurant (932) | | 24.10 | 3,064 | 144 | 133 | 159 |
| SOUTH TRACT | Drive-In Bank (912) | | 12.37 | 1,833 | 86 | 67 | 160 |
| SOUTH TRACT | General Office Building (710) - Less than 51,000 S.F. | | 10.00 | 147 | 18 | 2 | 4 |
| Apartments | Apartment, Post-1973 (220) | | 345 | 2,214 | 35 | 138 | 135 |
| Subtotal | | | 19,507 | 506 | 477 | 1,143 | 1,050 |
| Subtotal (Commercial Trips) | | | 17,146 | 453 | 337 | 1,004 | 957 |
| Pass-by Trip Reduction | | | 30% | (5,144) | (136) | (101) | (301) |
| Net New Commercial Trips on Adjacent Transportation System | | | 12,002 | 317 | 236 | 703 | 670 |
| New Office Trips on Adjacent Transportation System | | | 147 | 18 | 2 | 4 | 20 |
| New Residential Trips on Adjacent Transportation System | | | 2,214 | 35 | 138 | 135 | 73 |
| Total New Trips on Adjacent Transportation System | | | 14,363 | 370 | 376 | 842 | 763 |
| Net New Trips Utilized in Original Traffic Impact Study | | | 19,363 | 502 | 620 | 1,038 | 906 |
| Net Increase (Decrease) in Traffic Generated | | | (5,000) | (132) | (244) | (196) | (143) |
| Percentage Increase (-Decrease) in Traffic Generated | | | -26% | -26% | -39% | -19% | -16% |

Pass-by trip credits were taken for the 2015 analysis due to the size of the development considered and types of commercial uses. Pass-by trip credits taken for retail commercial uses only the ITE manual allows this percentage to grow as high as 50 percent but a more conservative 30 percent was used for this analysis.

NOTE: The Supermarket floor space and the Free-standing Discount Store floor space combined constitute the Walmart Store. These two land use categories were utilized in the determination of the trip generation rates for the project to provide a conservatively high trip generation rate. This trip generation calculation method results in a 25% or higher trip generation rate than a Supercenter Trip Generation Rate would yield.

More detailed information regarding trip generation rates for this project can be viewed in Pages A-6 thru A-15 in the Appendix of this report.

TRIP DISTRIBUTION

Primary and Diverted Linked Trips:

Trips were distributed as follows:

Commercial Land Use / Walmart Use

Primary and diverted linked trips for the both the commercial land use development were distributed proportionally to the 2015 projected population of Data Analysis Subzones within a two mile radius of the proposed development. Population data for the years 2015 and 2025 Data were taken from Mid-Region Council of Governments' 2035 Socioeconomic Forecasts by Data Analysis Subzones for the Mid-Region of New Mexico supplied by the Middle Rio Grande Council of Governments (MRGCOG). Population data from the years 2015 and 2025 was interpolated linearly to obtain 2015 population data to utilize for this analysis. Population Subzones were grouped based on

the most likely major street(s) or route(s) to the subject development. The trip distribution worksheets and associated map of subareas and data analysis subzones is shown on Appendix Pages A-16 and A-18 thru A-21.

In addition, the same analysis was performed for the Walmart store, but with an expanded and uneven boundary established approximately midway between this proposed Walmart facility and the nearest three adjacent existing Walmart facilities. See Trip Distribution Map on Page A-16 in the Appendix and Trip Distribution Worksheets on Pages A-22 thru A-24 in the Appendix of this report.

Residential Land Use

Primary and diverted linked trips for residential development have been distributed proportionally to the 2015 projected employment of Subareas citywide. Employment data for 2015 and 2025 Data were taken from Mid-Region Council of Governments' 2035 Socioeconomic Forecasts by Data Analysis Subzones for the Mid-Region of New Mexico supplied by the Middle Rio Grande Council of Governments (MRGCOG). Employment data was interpolated linearly between the 2015 and 2025 data to obtain 2015 values and adjusted for distance from the proposed new facility. The trip distribution worksheets and associated map of subareas and data analysis subzones are shown on Appendix Pages A-17 and A-25 thru A-28.

TRIP ASSIGNMENT

Trip assignments are 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 including pass-by trip assignments are shown on Appendix Pages A-29 thru A-38.

BACKGROUND TRAFFIC GROWTH

The annual growth rate utilized in this Traffic Impact Study is 1.2% annually. This annual growth rate was determined by evaluating historic traffic flow data from the Mid-Region Council of Governments (MRCOG) annually published Traffic Flow Maps to determine a recent historic growth trend over the most recent five-year period of time (2006 – 2010). Most of the growth rate analyses yielded recent historic growth trends of less than 1%. It is the conclusion of this study that a 1.2% annual growth rate will be the best model of actual traffic growth in the area which again reflects a more conservative approach.

PROJECTED PEAK HOUR TURNING MOVEMENTS FOR 2015 BUILDOUT

The established growth rates were applied to the most recent peak hour traffic counts (furnished by the consulting engineer and conducted for this study), and then the trips from the *Credit Union (Dellyne Ave / Coors Blvd) Traffic Impact Study* were added in to establish the 2015 background NO BUILD traffic volumes. To these volumes, the generated trips based on implementation of the proposed Andalucia, Tract 6 development

was added to obtain 2015 BUILD volumes for the intersection analyses. See Appendix Pages A-39 thru A-54 for further information regarding 2015 turning movement counts. The 2015 BUILD Conditions turning movement counts include trips generated by 100% implementation of the Andalucia, Tract 6 development (currently proposed plan).

INTERSECTION CAPACITY ANALYSIS

Intersection capacity analyses were performed in accordance with the procedures for signalized and unsignalized intersections in the Highway Capacity Manual, Special Report 209, Transportation Research Board, 2000, using Synchro 7 software. Synchro 8 software has recently been released which conforms with the 2010 Highway Capacity Manual, but there are several significant inconsistencies or bugs in the software. Trafficware, Inc., producers of Synchro 8 software are working on the computational engine to rectify the known issues with the program. Fixes are not expected before the end of the year. Therefore, this analysis was performed using Synchro 7. For signalized intersections, the operational method of analysis was used for implementation year (2015) conditions (NO BUILD and BUILD).

Capacity analyses were performed for the following traffic conditions.

Andalucia, Tract 6 Implementation Year – 2015

Implementation Year (2015) - NO BUILD

Implementation Year (2015) – BUILD of 2005 Approved Plan

Implementation Year (2015) – BUILD of Current Proposed Plan

The results of the implementation year (2015) for the Andalucia, Tract 6 developments' capacity analyses are summarized in the following sections - *Results and Discussion of Intersection Capacity Analyses*.

RESULTS OF SIGNALIZED INTERSECTION CAPACITY ANALYSES

IMPLEMENTATION YEAR (2015)

Intersection #1 – La Orilla Rd. / Coors Blvd.

The intersection of La Orilla Rd. / Coors Blvd. was not analyzed in this study. In determining the scope of analysis for this study, the City of Albuquerque determined that analysis of this intersection was not necessary for two reasons:

- 1) The trip distribution / trip assignments analysis indicated that there were not a significant volume of new turning movements generated at this intersection by this project.
- 2) In the previous 2007 Traffic Impact Study, the analysis of these intersections based on a project that generated a higher volume of trips did not result in any mitigation measures being required. Therefore, it was considered that the analysis of these same intersections when applying a project that generates a lesser volume of trips will not result in any mitigation measure.

Intersection #2 – Montano Plaza / Coors Blvd.

The intersection of Montano Plaza / Coors Blvd. was not analyzed in this study. In determining the scope of analysis for this study, the City of Albuquerque determined that analysis of this intersection was not necessary for two reasons:

- 1) The trip distribution / trip assignments analysis indicated that there were not a significant volume of new turning movements generated at this intersection by this project.
- 2) In the previous 2007 Traffic Impact Study, the analysis of these intersections based on a project that generated a higher volume of trips did not result in any mitigation measures being required. Therefore, it was considered that the analysis of these same intersections when applying a project that generates a lesser volume of trips will not result in any mitigation measure.

Intersection #3 - Montano Rd. / Coors Blvd. – Pages A-55 thru A-58

The intersection data and results of the analysis of the signalized intersection of Montano Rd. / Coors Blvd. are summarized in the following tables:

Existing Geometry (Montano Rd. / Coors Blvd.)

| Approach | Left Turn Lanes | Thru/Lefts | Thru Lanes | Thru/Rights | Right Turn Lanes |
|----------------|-----------------|------------|------------|-------------|------------------|
| EB Montano Rd. | 2 | 0 | 2 | 0 | 1 |
| WB Montano Rd. | 2 | 0 | 1 | 1 | 0 |
| NB Coors Blvd. | 2 | 0 | 3 | 0 | 2* |
| SB Coors Blvd. | 2 | 0 | 3 | 0 | 1 |

* - Note that dual northbound right turn lanes were constructed by this developer as a result of the mitigation requirement to construct a fourth northbound thru lane on Coors Blvd. along the frontage of the project.

Intersection: #3 - Montano Rd. / Coors Blvd.

| 2015 AM Peak Hour | | | | 2015 PM Peak Hour | | | |
|---------------------------------|-----------|----------------|-----------|-------------------|----------|----------------|-----------|
| NO BUILD GEOM. | | BUILD GEOMETRY | | NO BUILD GEOM. | | BUILD GEOMETRY | |
| NO BUILD | | 2005 PLAN | 2011 PLAN | NO BUILD | | 2005 PLAN | 2011 PLAN |
| Lanes | LOS-Delay | Lanes | LOS-Delay | LOS-Delay | Lanes | LOS-Delay | LOS-Delay |
| Eastbound - Montano Rd. | | | | | | | |
| L | 2 | E - 55.7 | 2 | E - 55.7 | E - 55.8 | 2 | F - 222 |
| T | 2 | F - 160 | 2 | F - 186 | F - 163 | 2 | D - 43.5 |
| R | 1 | C - 29.1 | 1 | C - 29.0 | C - 27.4 | 1 | D - 35.6 |
| Westbound - Montano Rd. | | | | | | | |
| L | 2 | E - 63.6 | 2 | F - 200 | F - 172 | 2 | D - 52.1 |
| T | 2 | C - 33.3 | 2 | C - 34.2 | C - 34.1 | 2 | F - 153 |
| R | > | C - 33.3 | > | C - 34.2 | C - 34.1 | > | F - 153 |
| Northbound - Coors Blvd. | | | | | | | |
| L | 2 | F - 148 | 2 | F - 184 | F - 137 | 2 | F - 186 |
| T | 3 | E - 73.0 | 3 | F - 109 | F - 112 | 3 | D - 43.7 |
| R | 1 | F - 113 | 2 | B - 19.4 | C - 20.1 | 1 | B - 12.6 |
| Southbound - Coors Blvd. | | | | | | | |
| L | 2 | F - 225 | 2 | F - 209 | F - 204 | 2 | F - 126 |
| T | 3 | D - 52.5 | 3 | E - 69.3 | E - 76.8 | 3 | F - 98.6 |
| R | 1 | B - 18.5 | 1 | B - 19.7 | B - 19.7 | 1 | C - 26.4 |
| Intersection: | | | | F - 100 | F - 114 | F - 107 | F - 96.9 |
| | | | | | | F - 121 | F - 119 |

NOTE: > denotes a shared thru/right and / or thru/left turn lane.

The three conditions analyzed and summarized above for this intersection are 1) 2015 NO BUILD, 2) 2015 BUILD (2005 Approved Plan), and 3) 2015 BUILD (2011 current proposed plan). Since this developer constructed the dual northbound right turn lanes on Coors Blvd. at Montano Rd. as a mitigation measure associated with the development of the 2005 plan, then the NO BUILD analysis assumes that there is only a single northbound right turn lane since that is what would exist today absent this land development project. The 2015 BUILD (2005 Plan) assumes the intersection geometry that exists today with the traffic from the approved 2005 Plan superimposed onto the 2015 NO BUILD Volumes. The 2015 BUILD (2011 Plan) assumes the intersection geometry that exists today with the traffic from the currently proposed 2011 Plan superimposed onto the 2015 NO BUILD Volumes. (NOTE: The developer constructed a fourth northbound thru lane on Coors Blvd. from Dellyne Ave. to Montano Rd. Since there is not an existing fourth northbound thru lane on Coors north of Montano Rd., the new lane was configured as a second right turn lane for now).

In summary, it can be concluded that the volumes generated by the 2011 Plan have minimal impact on the intersection for the 2015 AM Peak Hour condition and moderate impact on the intersection for the 2015 PM Peak Hour condition. Also, since the 2011 Plan generates significantly less traffic than the 2005 Plan, then the levels-of-service and delays associated with the approved 2005 Plan are higher than those for the newly proposed 2011 Plan. In other words, the proposed 2011 Plan results in a reduction in delays at this intersection when compared to the 2005 Plan for all conditions analyzed.

Proposed optimized timing for the intersection of Montano Rd. / Coors Blvd. can be maintained by constructing median pedestrian push buttons on Coors Blvd. so that pedestrians will have time to walk from the curb to the median and then push the button in the median to cross the other half of Coors Blvd.

The Queuing Analysis for this signalized intersection is calculated using Poisson's Arrival Equations with an associated 95th Percentile confidence level. The Queuing Analysis for this intersection is summarized in the following table.

Queueing Analysis Summary Sheet

Project: Andalucia Update (Montano Rd / Coors Blvd)
 Intersection: Montano Rd / Coors Blvd

| 2015 | | | | | | | | | | |
|-----------------------------|-------------------|------------|------------|-----------------------|--------------------|------------|--------------------|------------|------------|--|
| Approach | Left Turns | | | Thru Movements | Right Turns | | | | | |
| | Eastbound | # Lanes | Vol. | Length | # Lanes | Vol. | Length | | | |
| <i>Existing Lane Length</i> | 2 | 234 | 290 | 2 | 1,107 | Cont | 1 | 300 | 290 | |
| AM NO BUILD Queue | 2 | 248 | 200 | 2 | 1,185 | 750 | 1 | 330 | 425 | |
| AM BUILD Queue | 2 | 248 | 200 | 2 | 1,226 | 775 | 1 | 372 | 450 | |
| <i>Existing Lane Length</i> | 2 | 262 | 290 | 2 | 271 | Cont | 1 | 357 | 290 | |
| PM NO BUILD Queue | 2 | 278 | 250 | 2 | 304 | 250 | 1 | 395 | 525 | |
| PM BUILD Queue | 2 | 278 | 250 | 2 | 401 | 325 | 1 | 497 | 625 | |
| <hr/> | | | | <hr/> | | | | | | |
| Westbound | # Lanes | Vol. | Length | Thru Movements | | | Right Turns | | | |
| | # Lanes | Vol. | Length | # Lanes | Vol. | Length | # Lanes | Vol. | Length | |
| <i>Existing Lane Length</i> | 2 | 230 | 380 | 2 | 216 | Cont | 0 | 148 | 0 | |
| AM NO BUILD Queue | 2 | 245 | 200 | 2 | 229 | 200 | 0 | 157 | 225 | |
| AM BUILD Queue | 2 | 264 | 225 | 2 | 229 | 200 | 0 | 157 | 225 | |
| <i>Existing Lane Length</i> | 2 | 378 | 380 | 2 | 1,051 | Cont | 0 | 154 | 0 | |
| PM NO BUILD Queue | 2 | 402 | 325 | 2 | 1,114 | 750 | 0 | 163 | 250 | |
| PM BUILD Queue | 2 | 438 | 350 | 2 | 1,114 | 750 | 0 | 163 | 250 | |
| <hr/> | | | | <hr/> | | | | <hr/> | | |
| Northbound | # Lanes | Vol. | Length | Thru Movements | | | Right Turns | | | |
| | # Lanes | Vol. | Length | # Lanes | Vol. | Length | # Lanes | Vol. | Length | |
| <i>Existing Lane Length</i> | 2 | 252 | 650 | 3 | 1,124 | Cont | 2 | 622 | 450 | |
| AM NO BUILD Queue | 2 | 282 | 225 | 3 | 1,196 | 550 | 2 | 659 | 450 | |
| AM BUILD Queue | 2 | 348 | 275 | 3 | 1,243 | 575 | 2 | 659 | 450 | |
| <i>Existing Lane Length</i> | 2 | 567 | 650 | 3 | 1,638 | Cont | 2 | 235 | 450 | |
| PM NO BUILD Queue | 2 | 640 | 475 | 3 | 1,748 | 825 | 2 | 249 | 225 | |
| PM BUILD Queue | 2 | 824 | 575 | 3 | 1,815 | 850 | 2 | 249 | 225 | |
| <hr/> | | | | <hr/> | | | | <hr/> | | |
| Southbound | # Lanes | Vol. | Length | Thru Movements | | | Right Turns | | | |
| | # Lanes | Vol. | Length | # Lanes | Vol. | Length | # Lanes | Vol. | Length | |
| <i>Existing Lane Length</i> | 2 | 622 | 475 | 3 | 1,312 | Cont | 1 | 11 | 320 | |
| AM NO BUILD Queue | 2 | 659 | 450 | 3 | 1,398 | 625 | 1 | 12 | 50 | |
| AM BUILD Queue | 2 | 671 | 450 | 3 | 1,417 | 625 | 1 | 12 | 50 | |
| <i>Existing Lane Length</i> | 2 | 314 | 475 | 3 | 1,463 | Cont | 1 | 65 | 320 | |
| PM NO BUILD Queue | 2 | 333 | 275 | 3 | 1,562 | 750 | 1 | 69 | 125 | |
| PM BUILD Queue | 2 | 359 | 300 | 3 | 1,619 | 750 | 1 | 69 | 125 | |

AM **PM**
 Cycle Length: **120** **130**

NOTE: Queue lengths are in feet.

All calculated queue lengths at this intersection appear to be adequate. The right turn calculated queue length can be reduced by 50% to account for right-turns-on-red and overlap phases. Also, the eastbound right turn lane cannot be extended due to the presence of an existing driveway. No recommendation is made.

Intersection #4 – Dellyne Ave. (Learning Rd.) / Coors Blvd. – Pages A-59 thru A-62

The intersection data and results of the analysis of the signalized intersection of Dellyne Ave. (Learning Rd.) / Coors Blvd. are summarized in the following tables:

Existing Geometry (Dellyne Ave. / Coors Blvd.)

| Approach | Left Turn Lanes | Thru/Lefts | Thru Lanes | Thru/Rights | Right Turn Lanes |
|-----------------|-----------------|------------|------------|-------------|------------------|
| EB Dellyne Ave. | 2 | 0 | 0 | 1 | 0 |
| WB Learning Rd. | 2 | 0 | 1 | 0 | 1 |
| NB Coors Blvd. | 1 | 0 | 3 | 0 | 1 |
| SB Coors Blvd. | 2 | 0 | 3 | 0 | 1 |

Intersection: #4 - Dellyne Ave. (Learning Rd.) / Coors Blvd.

2015 AM Peak Hour

2015 PM Peak Hour

| NO BUILD GEOM. | | BUILD GEOMETRY | | NO BUILD GEOM. | | BUILD GEOMETRY | |
|--|-----------|----------------|-----------|----------------|----------|----------------|-----------|
| NO BUILD | | 2005 PLAN | 2011 PLAN | NO BUILD | | 2005 PLAN | 2011 PLAN |
| Lanes | LOS-Delay | Lanes | LOS-Delay | LOS-Delay | Lanes | LOS-Delay | LOS-Delay |
| Eastbound - Dellyne Ave. (Learning Rd.) | | | | | | | |
| L | 1 | F - 101 | 2 | E - 56.5 | E - 57.1 | 1 | F - 96.2 |
| T | 1 | D - 37.6 | 1 | F - 115 | F - 91.3 | 1 | E - 57.4 |
| R | 1 | E - 69.1 | > | F - 115 | F - 91.3 | 1 | E - 56.7 |
| Westbound - Dellyne Ave. (Learning Rd.) | | | | | | | |
| L | 1 | E - 66.9 | 2 | F - 100 | F - 96.7 | 1 | E - 73.1 |
| T | 1 | D - 48.2 | 1 | D - 43.8 | D - 43.5 | 1 | E - 59.7 |
| R | 1 | D - 47.7 | 1 | D - 44.8 | D - 43.4 | 1 | E - 57.8 |
| Northbound - Coors Blvd. | | | | | | | |
| L | 1 | C - 29.8 | 1 | C - 31.7 | C - 31.6 | 1 | D - 53.0 |
| T | 3 | C - 29.6 | 3 | C - 32.5 | C - 29.5 | 3 | B - 18.9 |
| R | 1 | B - 16.7 | 1 | B - 18.0 | B - 16.7 | 1 | A - 8.3 |
| Southbound - Coors Blvd. | | | | | | | |
| L | 1 | E - 68.0 | 2 | E - 74.7 | E - 73.9 | 1 | E - 62.4 |
| T | 3 | C - 26.6 | 3 | C - 29.7 | C - 24.5 | 3 | B - 15.9 |
| R | 1 | A - 8.1 | 1 | A - 2.6 | A - 2.2 | 1 | A - 1.3 |
| Intersection: | | D - 36.0 | D - 42.4 | D - 36.3 | C - 23.6 | D - 36.9 | C - 30.9 |

NOTE: > denotes a shared thru/right and / or thru/left turn lane.

The three conditions analyzed and summarized above for this intersection are 1) 2015 NO BUILD, 2) 2015 BUILD (2005 Approved Plan), and 3) 2015 BUILD (2011 current proposed plan). Since this developer constructed improvements to the intersection of Dellyne Ave. (Learning Rd.) / Coors Blvd. as a mitigation measure associated with the development of the 2005 plan, then the NO BUILD analysis assumes that the 2004 geometry is the base geometry. The 2015 BUILD (2005 Plan) assumes the intersection geometry that exists today with the traffic from the approved 2005 Plan superimposed onto the 2015 NO BUILD Volumes. The 2015 BUILD (2011 Plan) assumes the intersection geometry that exists today with the traffic from the currently proposed 2011 Plan superimposed onto the 2015 NO BUILD Volumes.

In summary, it can be concluded that the volumes generated by the 2011 Plan have minimal impact on the intersection for the 2015 AM Peak Hour condition and moderate impact on the intersection for the 2015 PM Peak Hour condition. Also, since the 2011 Plan generates significantly less traffic than the 2005 Plan, then the levels-of-service and delays associated with the approved 2005 Plan are higher than those for the newly proposed 2011 Plan. In other words, the proposed 2011 Plan results in a reduction in delays at this intersection when compared to the 2005 Plan for all conditions analyzed.

Proposed optimized timing for the intersection of **Dellyne Ave. (Learning Rd.)** / Coors Blvd. can be maintained by constructing median pedestrian push buttons on Coors Blvd. so that pedestrians will have time to walk from the curb to the median and then push the button in the median to cross the other half of Coors Blvd.

The Queuing Analysis for this signalized intersection is calculated using Poisson's Arrival Equations with an associated 95th Percentile confidence level. The Queuing Analysis for this intersection is summarized in the following table.

Queueing Analysis Summary Sheet

Project: Andalucia Update (Montano Rd / Coors Blvd)
 Intersection: Dellyne Ave / Coors Blvd

| 2015 | | | | | | | | | | |
|-----------------------|-------------------|----------------------------------|------------|-----------------------|--------------|------------------|--------------------|------------|------------|------------|
| Approach | Left Turns | | | Thru Movements | | | Right Turns | | | |
| Eastbound | # Lanes | Vol. | Length | # Lanes | Vol. | Length | # Lanes | Vol. | Length | |
| Existing Lane Length | 2 | 231 | 120 | 1 | 30 | Cont | 0 | 282 | 0 | |
| AM NO BUILD Queue | 2 | 242 | 200 | 1 | 39 | 75 | 0 | 296 | 375 | |
| AM BUILD Queue | 2 | 270 | 225 | 1 | 39 | 75 | 0 | 296 | 375 | |
| Existing Lane Length | 2 | 109 | 120 | 1 | 8 | Cont | 0 | 101 | 0 | |
| PM NO BUILD Queue | 2 | 114 | 125 | 1 | 20 | 50 | 0 | 106 | 175 | |
| PM BUILD Queue | 2 | 179 | 175 | 1 | 20 | 50 | 0 | 106 | 175 | |
| <hr/> | | | | | | | | | | |
| Westbound | # Lanes | Vol. | Length | # Lanes | Vol. | Length | # Lanes | Vol. | Length | |
| Existing Lane Length | 2 | 51 | 180 | 1 | 8 | Cont | 1 | 8 | 180 | |
| AM NO BUILD Queue | 2 | 63 | 75 | 1 | 13 | 50 | 1 | 18 | 50 | |
| AM BUILD Queue | 2 | 136 | 125 | 1 | 34 | 75 | 1 | 78 | 125 | |
| Existing Lane Length | 2 | 37 | 180 | 1 | 7 | Cont | 1 | 11 | 180 | |
| PM NO BUILD Queue | 2 | 66 | 75 | 1 | 21 | 50 | 1 | 38 | 100 | |
| PM BUILD Queue | 2 | 236 | 200 | 1 | 82 | 150 | 1 | 70 | 125 | |
| <hr/> | | | | | | | | | | |
| Northbound | # Lanes | Vol. | Length | # Lanes | Vol. | Length | # Lanes | Vol. | Length | |
| Existing Lane Length | 1 | 59 | 350 | 3 | 1,615 | Cont | 1 | 69 | 200 | |
| AM NO BUILD Queue | 1 | 62 | 125 | 3 | 1,693 | 750 | 1 | 88 | 150 | |
| AM BUILD Queue | 1 | 62 | 125 | 3 | 1,723 | 750 | 1 | 116 | 175 | |
| Existing Lane Length | 1 | 337 | 350 | 3 | 2,382 | Cont | 1 | 20 | 200 | |
| PM NO BUILD Queue | 1 | 353 | 475 | 3 | 2,496 | >1,000 | * | 1 | 44 | 100 |
| PM BUILD Queue | 1 | 353 | 475 | 3 | 2,571 | >1,000 | * | 1 | 121 | 200 |
| <hr/> | | | | | | | | | | |
| Southbound | # Lanes | Vol. | Length | # Lanes | Vol. | Length | # Lanes | Vol. | Length | |
| Existing Lane Length | 2 | 40 | 280 | 3 | 2,077 | Cont | 1 | 29 | 240 | |
| AM NO BUILD Queue | 2 | 52 | 75 | 3 | 2,177 | >1,000 | * | 1 | 30 | 75 |
| AM BUILD Queue | 2 | 75 | 100 | 3 | 2,177 | >1,000 | * | 1 | 30 | 75 |
| Existing Lane Length | 2 | 7 | 280 | 3 | 1,971 | Cont | 1 | 141 | 240 | |
| PM NO BUILD Queue | 2 | 21 | 50 | 3 | 2,066 | >1,000 | * | 1 | 148 | 225 |
| PM BUILD Queue | 2 | 75 | 100 | 3 | 2,066 | >1,000 | * | 1 | 148 | 225 |
| <hr/> | | | | | | | | | | |
| AM | PM | NOTE: Queue lengths are in feet. | | | | | | | | |
| Cycle Length: | 120 | 130 | | | | | | | | |

All calculated queue lengths at this intersection appear to be adequate except for the eastbound dual left turn lanes, the westbound dual left turn lanes, and the northbound single left turn lane. The dual eastbound left turn lanes cannot be lengthened due to existing right-of-way constraints. Recommendation is made to lengthen the dual westbound left turn lanes and the northbound left turn lane to meet the calculated lengths in the above table if possible.

Intersection #5 – Sevilla Ave. / Coors Blvd.

The intersection of Sevilla Ave. / Coors Blvd. was not analyzed in this study. In determining the scope of analysis for this study, the City of Albuquerque determined that analysis of this intersection was not necessary for two reasons:

- 1) The trip distribution / trip assignments analysis indicated that there were not a significant volume of new turning movements generated at this intersection by this project.
- 2) In the previous 2007 Traffic Impact Study, the analysis of these intersections based on a project that generated a higher volume of trips did not result in any mitigation measures being required. Therefore, it was considered that the analysis of these same intersections when applying a project that generates a lesser volume of trips will not result in any mitigation measure.

Intersection #5 – Western Trail / Coors Blvd.

The intersection of Western Trail / Coors Blvd. was not analyzed in this study. In determining the scope of analysis for this study, the City of Albuquerque determined that analysis of this intersection was not necessary for two reasons:

- 1) The trip distribution / trip assignments analysis indicated that there were not a significant volume of new turning movements generated at this intersection by this project.
- 2) In the previous 2007 Traffic Impact Study, the analysis of these intersections based on a project that generated a higher volume of trips did not result in any mitigation measures being required. Therefore, it was considered that the analysis of these same intersections when applying a project that generates a lesser volume of trips will not result in any mitigation measure.

Intersection #7 – Montano Rd. / 4th St. – Pages A-63 thru A-66

The intersection data and results of the analysis of the signalized intersection of Montano Rd. / 4th St. are summarized in the following tables:

Existing Geometry (Montano Rd. / 4th St.)

| Approach | Left Turn Lanes | Thru/Lefts | Thru Lanes | Thru/Rights | Right Turn Lanes |
|------------------------|-----------------|------------|------------|-------------|------------------|
| EB Montano Rd. | 1 | 0 | 2 | 0 | 1 |
| WB Montano Rd. | 1 | 0 | 2 | 0 | 1 |
| NB 4 th St. | 2 | 0 | 2 | 0 | 1 |
| SB 4 th St. | 1 | 0 | 1 | 1 | 0 |

Intersection: #7 - Montano Rd. / Fourth St.

| 2015 AM Peak Hour | | | | 2015 PM Peak Hour | | | |
|--------------------------------|-----------|----------------|-----------|-------------------|----------|----------------|-----------|
| NO BUILD GEOM. | | BUILD GEOMETRY | | NO BUILD GEOM. | | BUILD GEOMETRY | |
| NO BUILD | | 2005 PLAN | 2011 PLAN | NO BUILD | | 2005 PLAN | 2011 PLAN |
| Lanes | LOS-Delay | Lanes | LOS-Delay | LOS-Delay | Lanes | LOS-Delay | LOS-Delay |
| Eastbound - Montano Rd. | | | | | | | |
| L | 1 | C - 26.2 | 1 | C - 27.4 | C - 26.3 | 1 | E - 73.5 |
| T | 2 | F - 136 | 2 | F - 157 | F - 162 | 2 | D - 37.8 |
| R | 1 | D - 35.4 | 1 | D - 39.5 | D - 38.8 | 1 | C - 34.8 |
| Westbound - Montano Rd. | | | | | | | |
| L | 1 | F - 223 | 1 | F - 223 | F - 224 | 1 | C - 20.2 |
| T | 2 | D - 37.5 | 2 | D - 38.5 | D - 38.7 | 2 | D - 52.6 |
| R | 1 | C - 23.7 | 1 | C - 24.3 | C - 24.5 | 1 | B - 17.6 |
| Northbound - Fourth St. | | | | | | | |
| L | 2 | F - 85.3 | 2 | F - 114 | F - 124 | 2 | E - 59.0 |
| T | 2 | C - 32.5 | 2 | C - 32.5 | C - 31.7 | 2 | D - 46.9 |
| R | 1 | C - 26.9 | 1 | C - 26.9 | C - 26.1 | 1 | C - 29.1 |
| Southbound - Fourth St. | | | | | | | |
| L | 1 | C - 20.9 | 1 | C - 20.9 | C - 20.2 | 1 | D - 41.5 |
| T | 2 | F - 129 | 2 | F - 156 | F - 139 | 2 | E - 61.3 |
| R | > | F - 129 | > | F - 156 | F - 139 | > | E - 61.3 |
| Intersection: | | | | F - 108 | F - 105 | D - 47.6 | E - 59.7 |
| | | | | | | | E - 61.4 |

The three conditions analyzed and summarized above for this intersection are 1) 2015 NO BUILD, 2) 2015 BUILD (2005 Approved Plan), and 3) 2015 BUILD (2011 current proposed plan). The 2015 NO BUILD and BUILD (2005 Plan) all assume the intersection geometry that exists today with the traffic from the approved 2005 Plan superimposed onto the 2015 NO BUILD Volumes. The 2015 BUILD (2011 Plan) assumes the intersection geometry that exists today with the traffic from the currently proposed 2011 Plan superimposed onto the 2015 NO BUILD Volumes.

In response to neighborhood comments, discussion of the percentage contribution of new trips at the intersection of Montano Rd. / 4th St. follow. The 2011 Plan for Andalucia, Tract 6 (commercial and residential) generates approximately 182 trips per hour during the 2015 AM Peak Hour period through this intersection. Total AM volume at the intersection is 5,293 vehicles per hour. The 2011 Plan comprises approximately 3.4% of the intersection traffic in the 2015 AM Peak Hour. The 2011 Plan generates about 420 vehicles per hour during the 2015 PM Peak Hour. Total volume at the intersection in the PM Peak Hour is 5,105 vehicles per hour. The 2011 Plan comprises approximately 8% of the traffic in the 2015 PM Peak Hour.

In summary, it can be concluded that the volumes generated by the 2011 Plan have moderate impact on the intersection for the 2015 AM and PM Peak Hour conditions. The 2011 Plan results in a slight decrease in delays during the 2015 AM Peak Hour when compared to the 2005 Plan and a minimal increase in delays (1.7 seconds) during the 2015 PM Peak Hour when compared to the 2005 Plan.

The Queuing Analysis for this signalized intersection is calculated using Poisson's Arrival Equations with an associated 95th Percentile confidence level. The Queuing Analysis for this intersection is summarized in the following table.

Queueing Analysis Summary Sheet

Project: Andalucia Update (Montano Rd / Coors Blvd)
 Intersection: Montano Rd / Fourth St

| 2015 | | | | | | | | | |
|-----------------------|-------------------|-------------|---------------|-----------------------|--------------------|---------------|----------------|--------------|------------------|
| Approach | Left Turns | | | Thru Movements | Right Turns | | | | |
| | # Lanes | Vol. | Length | | # Lanes | Vol. | Length | | |
| Eastbound | | | | | | | | | |
| Existing Lane Length | 1 | 148 | 180 | 2 | 1,239 | Cont | 1 | 473 | 270 |
| AM NO BUILD Queue | 1 | 157 | 250 | 2 | 1,298 | 850 | 1 | 505 | 650 |
| AM BUILD Queue | 1 | 172 | 275 | 2 | 1,333 | 875 | 1 | 551 | 675 |
| Existing Lane Length | 1 | 136 | 180 | 2 | 592 | Cont | 1 | 228 | 270 |
| PM NO BUILD Queue | 1 | 149 | 225 | 2 | 620 | 450 | 1 | 264 | 375 |
| PM BUILD Queue | 1 | 201 | 300 | 2 | 639 | 475 | 1 | 388 | 500 |
| Westbound | # Lanes | Vol. | Length | # Lanes | Vol. | Length | # Lanes | Vol. | Length |
| Existing Lane Length | 1 | 121 | 130 | 2 | 361 | Cont | 1 | 66 | 350 |
| AM NO BUILD Queue | 1 | 127 | 200 | 2 | 378 | 300 | 1 | 69 | 125 |
| AM BUILD Queue | 1 | 127 | 200 | 2 | 387 | 300 | 1 | 69 | 125 |
| Existing Lane Length | 1 | 153 | 130 | 2 | 1,218 | Cont | 1 | 193 | 350 |
| PM NO BUILD Queue | 1 | 160 | 250 | 2 | 1,276 | 850 | 1 | 202 | 300 |
| PM BUILD Queue | 1 | 160 | 250 | 2 | 1,311 | 875 | 1 | 202 | 300 |
| Northbound | # Lanes | Vol. | Length | # Lanes | Vol. | Length | # Lanes | Vol. | Length |
| Existing Lane Length | 2 | 194 | 160 | 2 | 405 | Cont | 1 | 179 | 70 |
| AM NO BUILD Queue | 2 | 218 | 200 | 2 | 424 | 325 | 1 | 188 | 275 |
| AM BUILD Queue | 2 | 274 | 250 | 2 | 424 | 325 | 1 | 188 | 275 |
| Existing Lane Length | 2 | 397 | 160 | 2 | 539 | Cont | 1 | 158 | 70 |
| PM NO BUILD Queue | 2 | 438 | 350 | 2 | 565 | 425 | 1 | 166 | 250 |
| PM BUILD Queue | 2 | 572 | 425 | 2 | 565 | 425 | 1 | 166 | 250 |
| Southbound | # Lanes | Vol. | Length | # Lanes | Vol. | Length | # Lanes | Vol. | Length |
| Existing Lane Length | 1 | 195 | 170 | 2 | 492 | Cont | 0 | 977 | 0 |
| AM NO BUILD Queue | 1 | 204 | 300 | 2 | 516 | 400 | 0 | 1,027 | >1,000 |
| AM BUILD Queue | 1 | 204 | 300 | 2 | 516 | 400 | 0 | 1,048 | >1,000 |
| Existing Lane Length | 1 | 168 | 170 | 2 | 496 | Cont | 0 | 137 | 0 |
| PM NO BUILD Queue | 1 | 176 | 275 | 2 | 520 | 400 | 0 | 149 | 225 |
| PM BUILD Queue | 1 | 176 | 275 | 2 | 520 | 400 | 0 | 205 | 300 |

AM **PM**
 Cycle Length: **130** **130**

NOTE: Queue lengths are in feet.

Due to various constraints imposed by virtue of the fact that this intersection is located in a fully developed urban environment, none of the left or right turn lanes can be extended without negatively impacting existing nearby intersections and / or driveways, or causing the reduction in the length of complementary left turn lanes. Therefore, no recommendation is made.

RESULTS OF UNSIGNALIZED INTERSECTION CAPACITY ANALYSES

IMPLEMENTATION YEAR (2015)

Intersection #8 –Montano Rd. / Winterhaven Rd. – Pages A-67 thru A-70

The results of the analysis of the unsignalized intersection of Montano Rd. / Winterhaven Rd. are summarized in the following table:

Intersection: **#8 - Montano Rd. / Winterhaven Rd. (Mirandela)**

| 2015 AM Peak Hour | | | | 2015 PM Peak Hour | | | |
|---|-----------|---------------|-----------|-------------------|-----------|---------------|-----------|
| | | BASE GEOMETRY | | | | BASE GEOMETRY | |
| NO BUILD | | 2005 Plan | 2011 Plan | NO BUILD | | 2005 Plan | 2011 Plan |
| Lanes | LOS-Delay | LOS-Delay | LOS-Delay | Lanes | LOS-Delay | LOS-Delay | LOS-Delay |
| Eastbound - Montano Rd. | | | | | | | |
| L | 1 | A - 8.8 | A - 9.3 | A - 9.2 | 1 | C - 19.3 | C - 19.4 |
| T | 2 | A - 0.0 | A - 0.0 | A - 0.0 | 2 | A - 0.0 | A - 0.0 |
| R | 1 | A - 0.0 | A - 0.0 | A - 0.0 | 1 | A - 0.0 | A - 0.0 |
| Westbound - Montano Rd. | | | | | | | |
| L | 1 | F - 98.7 | F - 120 | F - 116 | 1 | A - 9.9 | B - 13.1 |
| T | 2 | A - 0.0 | A - 0.0 | A - 0.0 | 2 | A - 0.0 | A - 0.0 |
| R | > | A - 0.0 | A - 0.0 | A - 0.0 | > | A - 0.0 | A - 0.0 |
| Northbound - Winterhaven Rd. (Mirandela) | | | | | | | |
| R | 1 | C - 18.7 | E - 37.0 | C - 24.9 | 1 | B - 11.2 | B - 14.1 |
| Southbound - Winterhaven Rd. (Mirandela) | | | | | | | |
| R | 1 | B - 10.4 | B - 11.0 | B - 10.9 | 1 | C - 25.0 | D - 25.5 |

NOTE: > denotes a shared thru/right and / or thru/left turn lane.

The intersection of Montano Rd. / Winterhaven Rd. is currently a right-in, right-out, left-in only unsignalized access intersection. As with the signalized intersection analyzed in this study, there were three conditions analyzed for Montano Rd. / Winterhaven Rd. (Mirandela St.). The 2015 NO BUILD condition was the analysis of the volumes that would be at the intersection if the Andalucia, Tract 6 acreage were to remain vacant. The 2015 BUILD (2005 Plan) considers the analysis of the intersection based on traffic generated by the 2005 Approved Plan. The 2015 BUILD (2011 Plan) considers the analysis of the intersection based on traffic generated by the currently proposed plan (2011). The preceding table demonstrates that the currently proposed 2011 Plan results in slightly less delays than would the implementation of the 2005 Plan.

Also, the calculated westbound left turn queue length (95th percentile) on Montano Rd. at Mirandela St. is 148 feet for the 2015 AM Peak Hour period and 57 feet for the 2015 PM Peak Hour period. The unsignalized 95th percentile queue lengths are those reported by Synchro 7 in the HCM Unsignalized Intersection Report. (See next section for discussion of operation of Montano Rd. / Winterhaven (Mirandela) if the proposed right-in, right-out at Montano Rd. / Antequera Rd. is not approved.)

Intersection #9 –Montano Rd. / Antequera Rd. - Pages A-71 thru A-72

The results of the analysis of the unsignalized intersection of Montano Rd. / Antequera Rd. are summarized in the following table:

Intersection: #9 - Montano Rd. / Antequera Ave.

| 2015 AM Peak Hour | | | | 2015 PM Peak Hour | | | |
|---|-----------|-----------------|-----------|-------------------|-----------|-----------------|-----------|
| BASE GEOMETRY | | | | BASE GEOMETRY | | | |
| | | BUILD Condition | | | | BUILD Condition | |
| NO BUILD | | 2005 Plan | 2011 Plan | NO BUILD | | 2005 Plan | 2011 Plan |
| Lanes | LOS-Delay | LOS-Delay | LOS-Delay | Lanes | LOS-Delay | LOS-Delay | LOS-Delay |
| Eastbound - Montano Rd. | | | | | | | |
| T 2 A - 0.0 A - 0.0 A - 0.0 2 A - 0.0 A - 0.0 A - 0.0 | | | | | | | |
| R 1 A - 0.0 A - 0.0 A - 0.0 1 A - 0.0 A - 0.0 A - 0.0 | | | | | | | |
| Westbound - Montano Rd. | | | | | | | |
| T 2 A - 0.0 A - 0.0 A - 0.0 2 A - 0.0 A - 0.0 A - 0.0 | | | | | | | |
| R 1 A - 0.0 D - 28.4 C - 24.6 1 A - 0.0 B - 10.6 B - 10.7 | | | | | | | |
| Northbound - Antequera Ave. | | | | | | | |
| R 1 A - 0.0 D - 28.4 C - 24.6 1 A - 0.0 B - 10.6 B - 10.7 | | | | | | | |

NOTE: > denotes a shared thru/right and / or thru/left turn lane.

The proposed intersection of Montano Rd. / Antequera Rd. is a right-in, right-out only unsignalized intersection. Implementation and construction of the driveway will require approval from the Mid-Region Council of Governments' (MRCOG) Transportation Coordinating Committee (T.C.C.).

If it becomes the case that the new right-in, right-out driveway on Montano Rd. at Antequera Rd. is not approved by the T.C.C., then the right-turn-in movements and the right-turn-out movements at that driveway would be transferred to the intersection of Montano Rd. / Mirandela (Winterhaven). In that case, during the AM Peak Hour, the northbound right turn movement on Mirandela at Montano will be increased from 141 vph to 191 vph, the eastbound right turn volume will be increased from 37 vph to 123 vph, and the eastbound thru volume will be reduced from 2163 vph to 2113 vph. The resulting impact to the intersection will be that the northbound right turn movement LOS will increase from "C" to "D" with an average delay of 29.2 seconds. Additionally, the westbound left turn calculated queue length will increase from 148 feet to 159 feet. During the PM Peak Hour, the northbound right turn movement on Mirandela at Montano will be increased from 189 vph to 292 vph, the eastbound right turn volume will be increased from 29 vph to 170 vph, and the eastbound thru volume will be reduced from 853 vph to 750 vph. The resulting impact to the intersection will be that the northbound right turn movement LOS will increase from "B" to "C" with an average delay of 18.3 seconds. Additionally, the westbound left turn calculated queue length will increase from 58 feet to 65 feet. Absence of the right-in, right-out driveway at Montano Rd. / Antequera will not have a significant impact on the intersection of Montano Rd. / Winterhaven (Mirandela).

Intersection #10 - E-W Street / Coors Blvd. – Pages A-73 thru A-74

The results of the analysis of the unsignalized intersection of E-W Street / Coors Blvd. are summarized in the following table:

Intersection: #10 - E-W Street / Coors Blvd.

| 2015 AM Peak Hour | | | | | 2015 PM Peak Hour | | | | |
|---------------------------------|-----------|-----------|-----------------|-----------|-------------------|-----------|-----------|-----------------|-----------|
| BASE GEOMETRY | | | | | BASE GEOMETRY | | | | |
| | | | BUILD Condition | | | | | BUILD Condition | |
| NO BUILD | | 2005 Plan | | 2011 Plan | NO BUILD | | 2005 Plan | | 2011 Plan |
| Lanes | LOS-Delay | LOS-Delay | LOS-Delay | LOS-Delay | Lanes | LOS-Delay | LOS-Delay | LOS-Delay | LOS-Delay |
| Westbound - E-W Street | | | | | | | | | |
| R | 1 | A - 0.0 | C - 19.0 | C - 15.7 | 1 | A - 0.0 | F - 93.3 | E - 45.6 | |
| Northbound - Coors Blvd. | | | | | | | | | |
| T | 4 | A - 0.0 | A - 0.0 | A - 0.0 | 4 | A - 0.0 | A - 0.0 | A - 0.0 | |
| R | 1 | A - 0.0 | A - 0.0 | A - 0.0 | 1 | A - 0.0 | A - 0.0 | A - 0.0 | |
| Southbound - Coors Blvd. | | | | | | | | | |
| L | 0 | A - 0.0 | A - 0.0 | A - 0.0 | 0 | A - 0.0 | A - 0.0 | A - 0.0 | |
| T | 3 | A - 0.0 | A - 0.0 | A - 0.0 | 3 | A - 0.0 | A - 0.0 | A - 0.0 | |
| R | 0 | A - 0.0 | A - 0.0 | A - 0.0 | 0 | A - 0.0 | A - 0.0 | A - 0.0 | |

NOTE: > denotes a shared thru/right and / or thru/left turn lane.

The proposed East-West Street intersection with Coors Blvd. is a right-in, right-out only unsignalized access to Andalucia, Tract 6 commercial portion of the project. It was approved and constructed under the approved 2005 Plan.

Intersection #11 – Mirandela St. / Coors Blvd. – Pages A-75 thru A-76

A right-turn-in, right-turn-out, left-turn-in driveway was **approved** and constructed approximately midway between the E-W Street and Dellyne Ave. based on the 2005 Plan. The results of the analysis of the unsignalized intersection of Mirandela St. / Coors Blvd. are summarized in the following table:

Intersection: #11 - Mirandela Ave. / Coors Blvd.

| 2015 AM Peak Hour | | | | | 2015 PM Peak Hour | | | | |
|-----------------------------------|-----------|-----------------|-----------|----------|-------------------|-----------|-----------------|----------|--|
| BASE GEOMETRY | | | | | BASE GEOMETRY | | | | |
| | | BUILD Condition | | | | | BUILD Condition | | |
| NO BUILD | | 2005 Plan | 2011 Plan | NO BUILD | | 2005 Plan | 2011 Plan | | |
| Lanes | LOS-Delay | LOS-Delay | LOS-Delay | Lanes | LOS-Delay | LOS-Delay | LOS-Delay | | |
| Westbound - Mirandela Ave. | | | | | | | | | |
| R | 1 | B - 10.3 | B - 10.3 | A - 9.9 | 1 | B - 11.1 | B - 14.3 | B - 12.4 | |
| Northbound - Coors Blvd. | | | | | | | | | |
| T | 4 | A - 0.0 | A - 0.0 | A - 0.0 | 4 | A - 0.0 | A - 0.0 | A - 0.0 | |
| R | 1 | A - 0.0 | A - 0.0 | A - 0.0 | 1 | A - 0.0 | A - 0.0 | A - 0.0 | |
| Southbound - Coors Blvd. | | | | | | | | | |
| L | 1 | C - 15.1 | D - 28.3 | C - 22.6 | 1 | C - 18.7 | D - 26.0 | D - 28.3 | |
| T | 3 | A - 0.0 | A - 0.0 | A - 0.0 | 3 | A - 0.0 | A - 0.0 | A - 0.0 | |

Operation of the existing right-in, right-out, left-in only unsignalized driveway is demonstrated to be acceptable for the 2015 AM and PM Peak Hour BUILD conditions.

It should be noted that Levels of Service (LOS) for unsignalized intersections cannot be compared directly with Levels of Service for signalized intersections.

LEVEL-OF-SERVICE CRITERIA FOR UNSIGNALIZED INTERSECTIONS

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

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

CONCLUSIONS

The comparison of the NO BUILD with the BUILD condition results of this analysis for the adjacent transportation system associated with the proposed commercial / residential development indicate that there will be minimal increases in average intersection delays along Coors Blvd. at the intersections analyzed in this study. When compared with the approved 2007 Traffic Impact Study evaluating the 2005 plan (which generates more traffic than this plan), the implementation of the currently proposed 2011 Plan will result generally in less delay and more favorable conditions on the adjacent transportation system. The roadway improvements constructed by this developer at the intersection of Dellyne Ave. (Learning Rd.) / Coors Blvd. and at Montano Rd. / Coors Blvd. have reduced the impact of the additional traffic generated by the Andalucia, Tract 6 project (2005 and 2011 Plans).

The implementation year for this study was determined to be 2015 since that is the expected year that the project will be fully implemented. Consideration of the 2017 conditions would be very similar to those of the 2015 in this study since minimal background traffic growth is expected from 2015 to 2017, especially in this economic climate.

In summary, the proposed site development plans for the Andalucia, Tract 6 Project present minimal adverse impact to the adjacent transportation system provided that recommendations are implemented as follows:

RECOMMENDATIONS

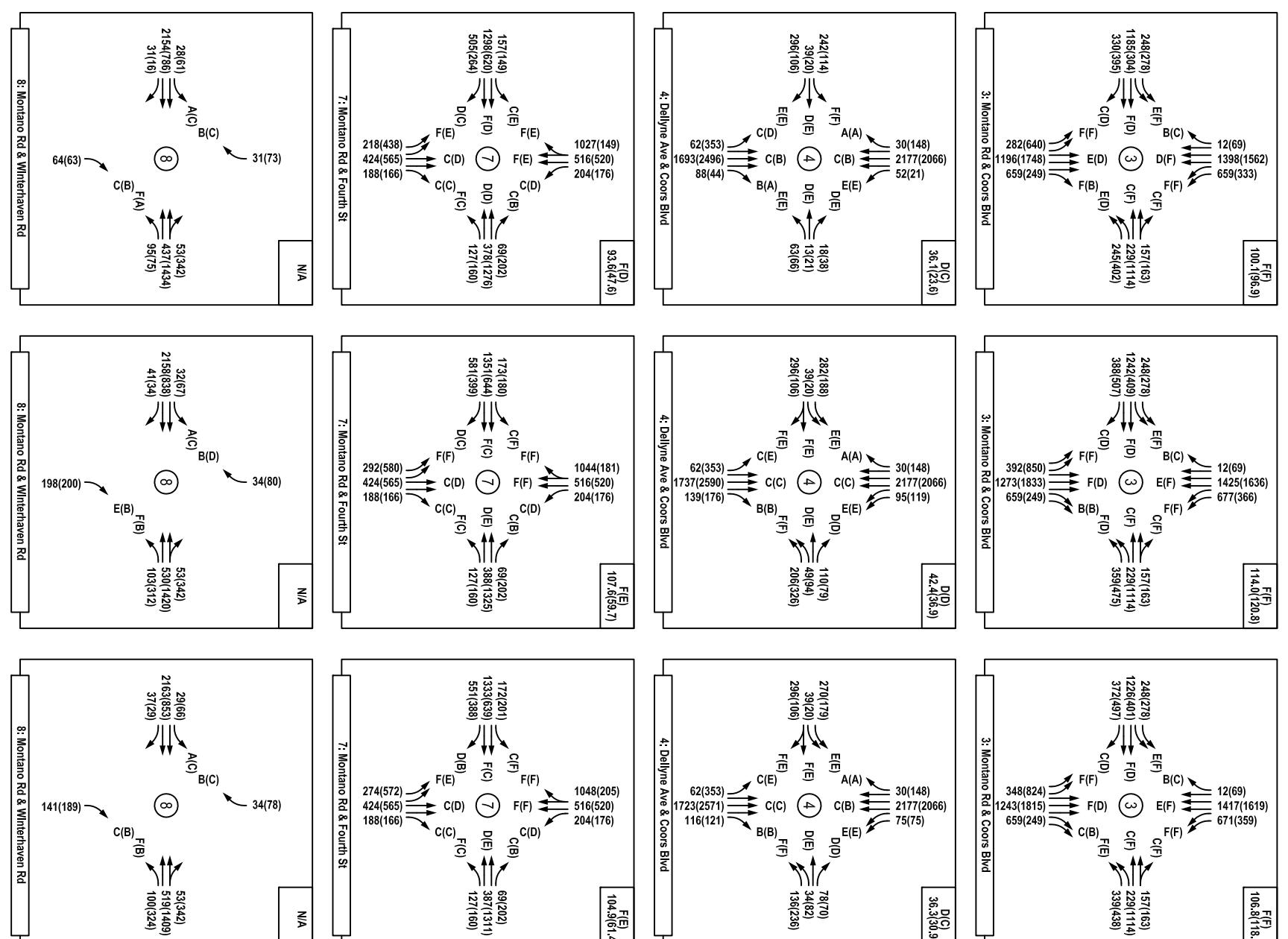
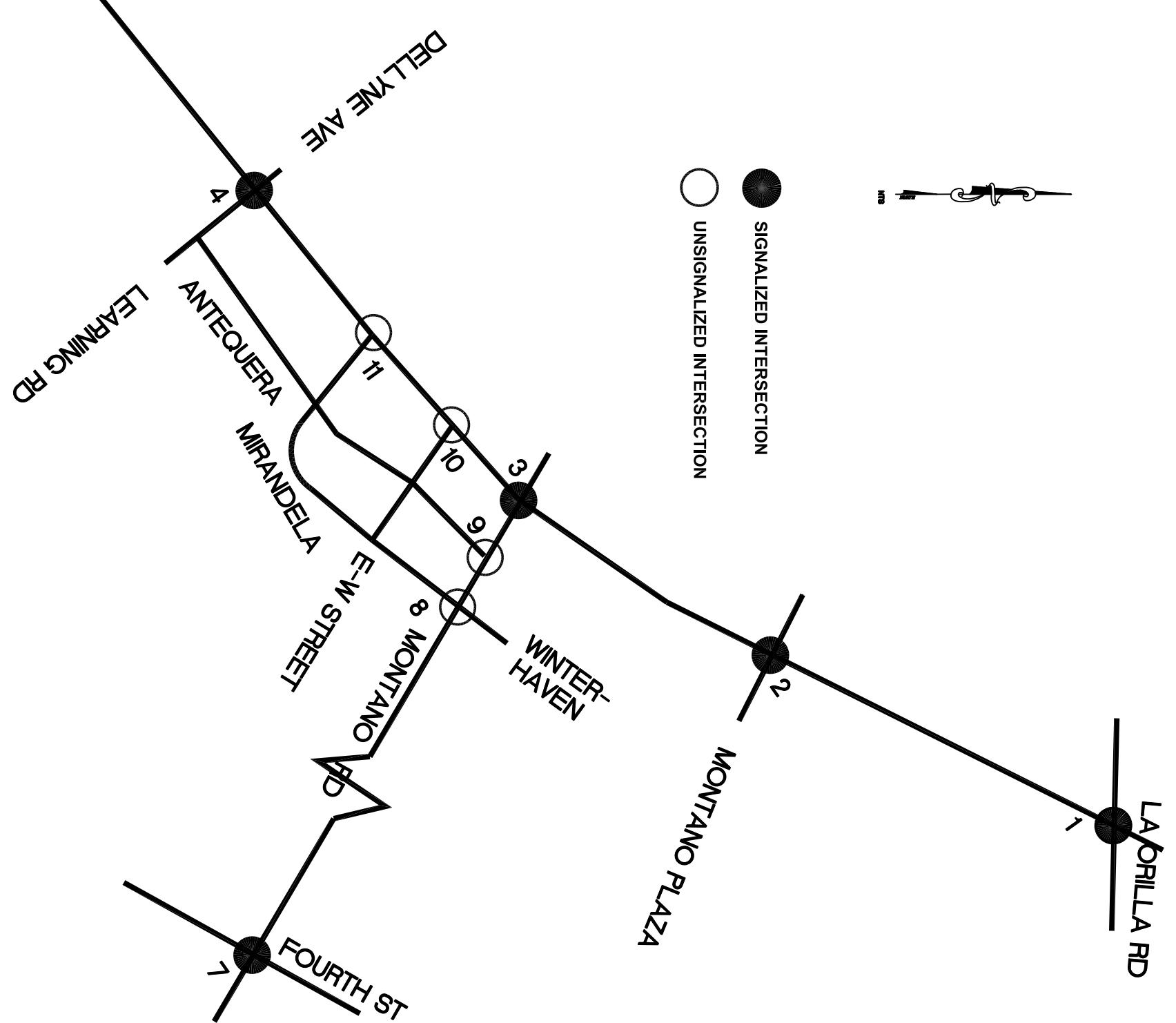
- All design and construction for this project shall insure that adequate site distances at the proposed driveways along Montano Rd. and along Coors Blvd. are provided.
- Driveways shall be constructed using a minimum of 25-foot radius curb returns or the minimum required by the City of Albuquerque Development Process Manual (D.P.M.) or the New Mexico Department of Transportation's State Access Management Manual. Larger radii may be required to accommodate delivery trucks.

General Access:

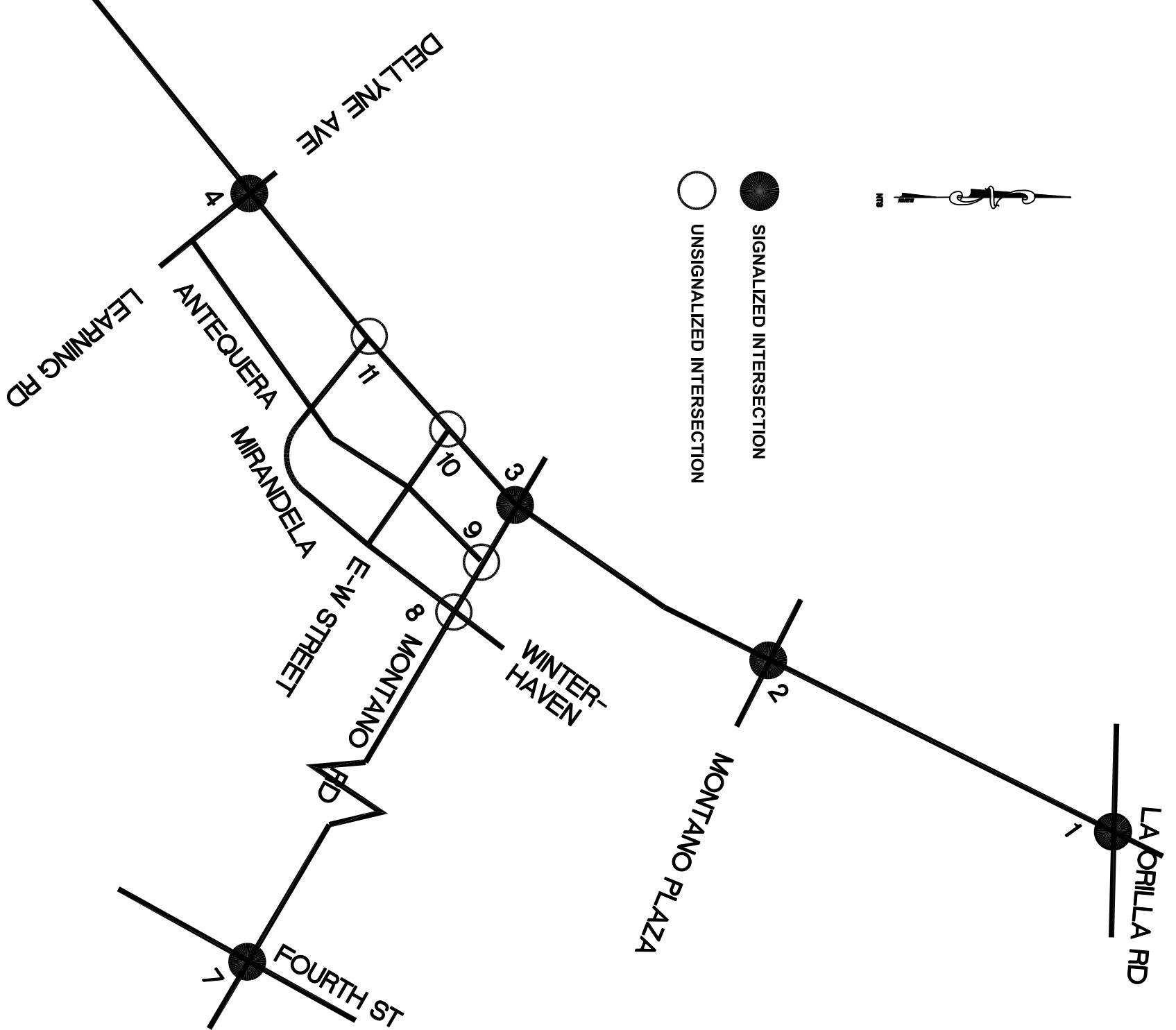
- The Andalucia, Tract 6 Commercial / Residential Development should be accessed via four existing or proposed intersections / driveways along Coors Blvd. and Montano Rd. The primary access to the commercial component at the extreme northwest corner of the project will be via an existing extension of Winterhaven Rd. (Mirandela) to the south of Montano Rd. and the existing approved right-turn-in, right-turn-out, left-turn-in driveway (Mirandela St.) on Coors Blvd. approximately midway between Montano Rd. and Dellyne Ave. (Learning Rd.). Additionally an existing right-turn-in, right-turn-out driveway approximately midway between Mirandela St. and Montano Rd. along the east side of Coors Blvd. will serve the commercial component of this development. The residential component (multi-family) of Andalucia, Tract 6 to the south of the commercial tract is accessed primarily via the existing signalized intersection of Dellyne Ave. (Learning Rd.) / Coors Blvd. as well as the previously mentioned right-turn-in, right-turn-out, left-turn-in driveway (Mirandela St.). Proposed access is demonstrated on the site plan on Page A-3 in the Appendix of this study.

For the 2015 Analysis:

- **Dellyne Ave. (Learning Rd.) / Coors Blvd.** – Lengthen the existing westbound dual left turn lanes as far as possible to try to achieve a total length of 200 feet plus transition. Extend the northbound left turn lane as far as possible to try to achieve a total length of 475 feet plus transition.
- **Montano Rd. / Winterhaven Dr. (Mirandela St.)** – lengthen the westbound left turn lane on Montano Rd. to a **minimum** total length of 175 feet plus transition.
- **Montano Rd. / Antequera** – Acquire approval from the Transportation Coordinating Committee to construct the driveway on Montano Rd. as a right-in, right-out unsignalized driveway.
- **Montano Rd. / Coors Blvd.** – construct pedestrian push buttons in the medians on Coors Blvd. (Widening of median may be necessary.)
- **Dellyne Ave. (Learning Rd.) / Coors Blvd.** - construct pedestrian push buttons in the medians on Coors Blvd. (Widening of median may be necessary.)



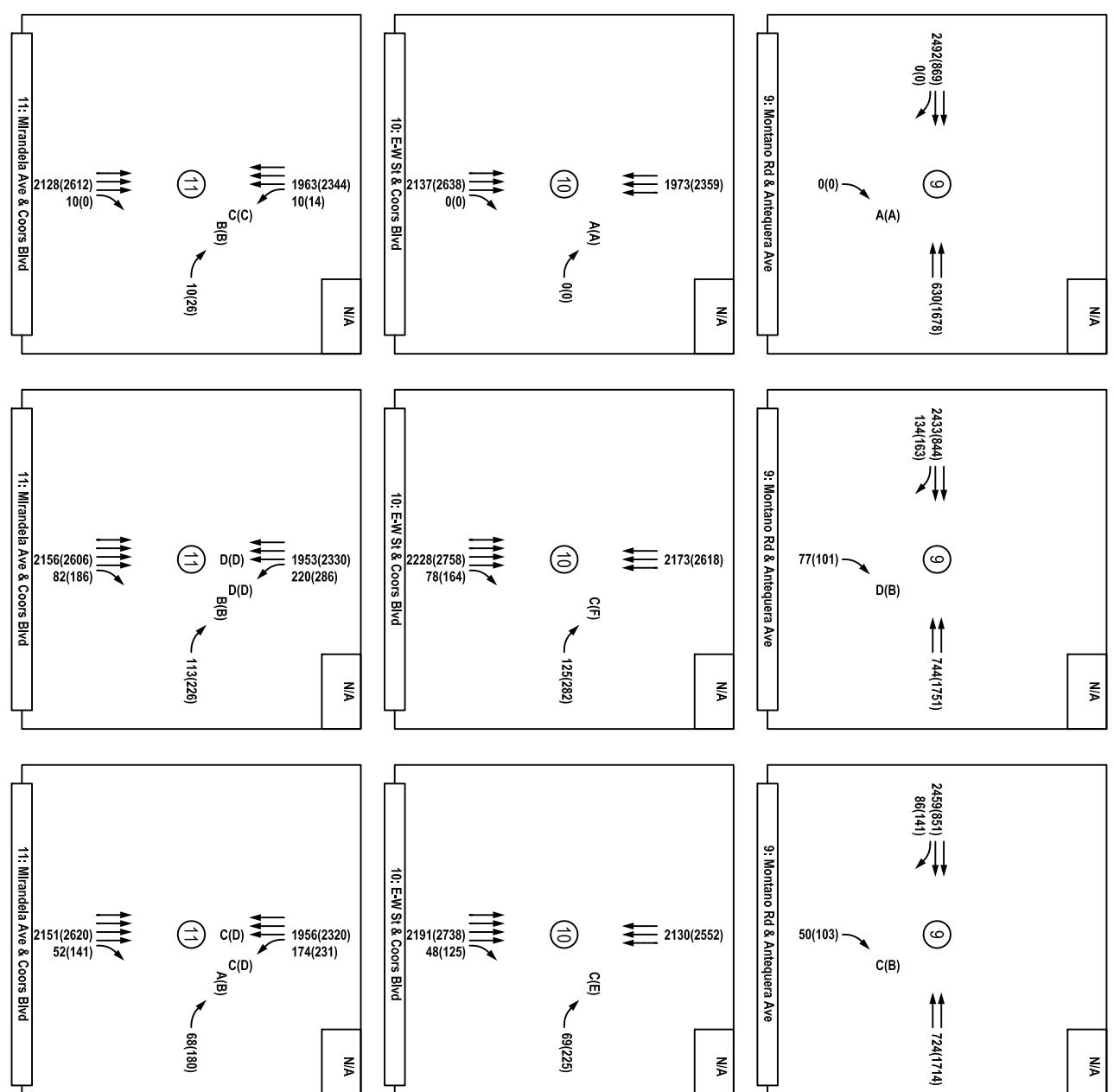
Andalucia, Tract 6 Update
Montano Rd. / Coors Blvd.
LOS / Volume Analysis Map



2015 NO BUILD Condition

2015 BUILD Condition

2015 BUILD Condition
(MITIGATED)

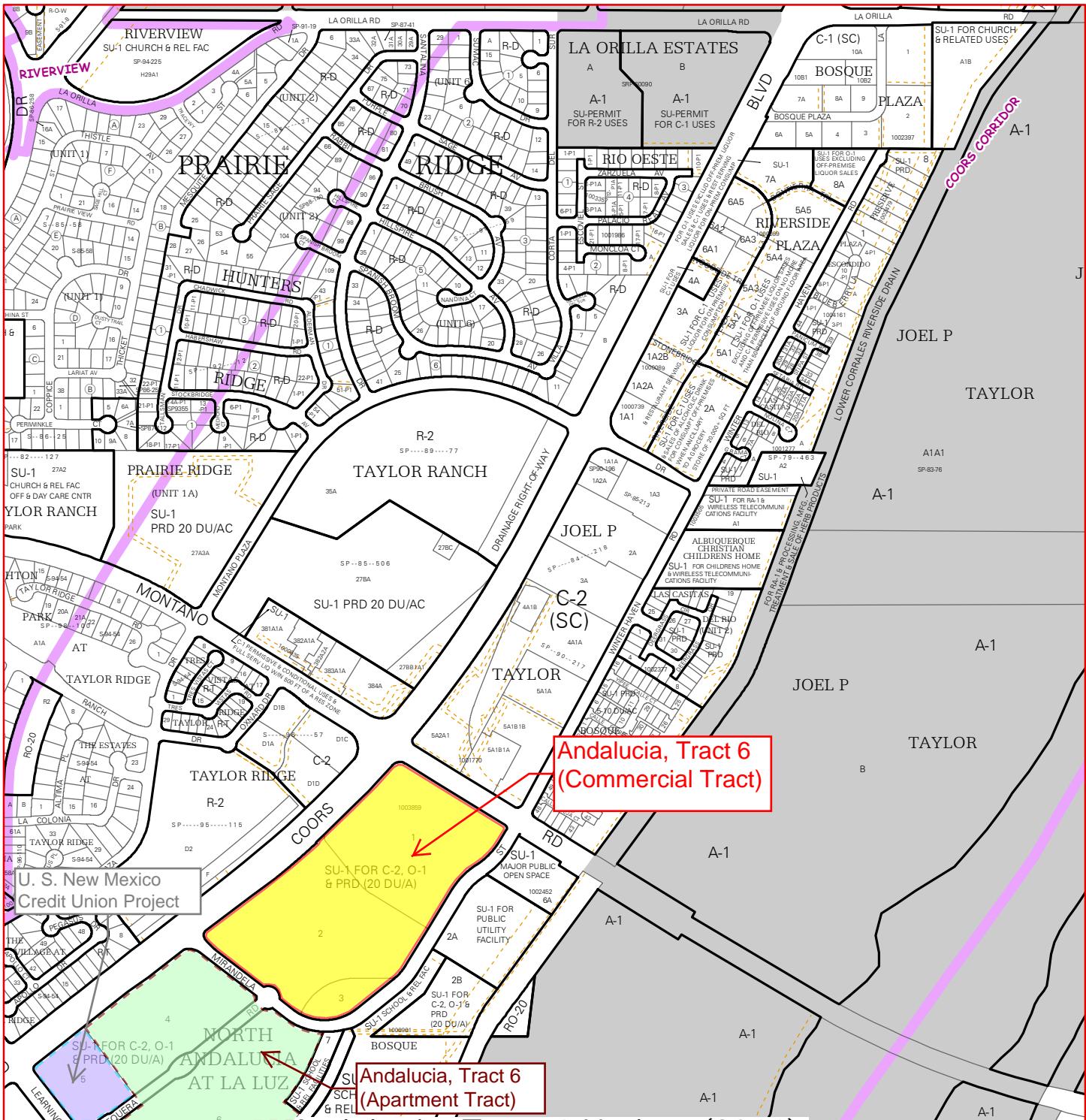


Andalucia, Tract 6 Update
Montano Rd. / Coors Blvd.
LOS / Volume Analysis Map

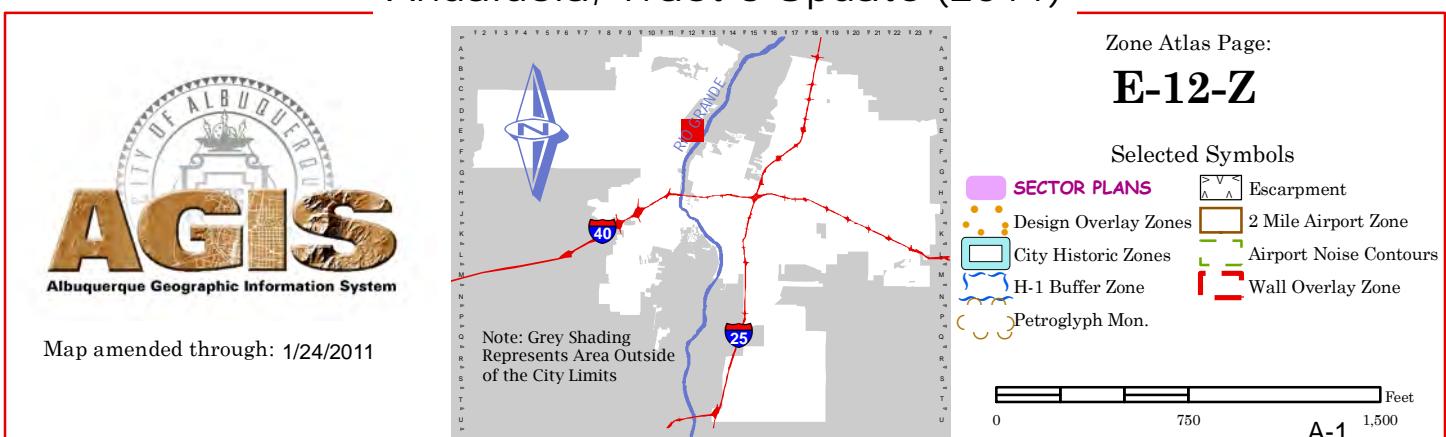
Appendix

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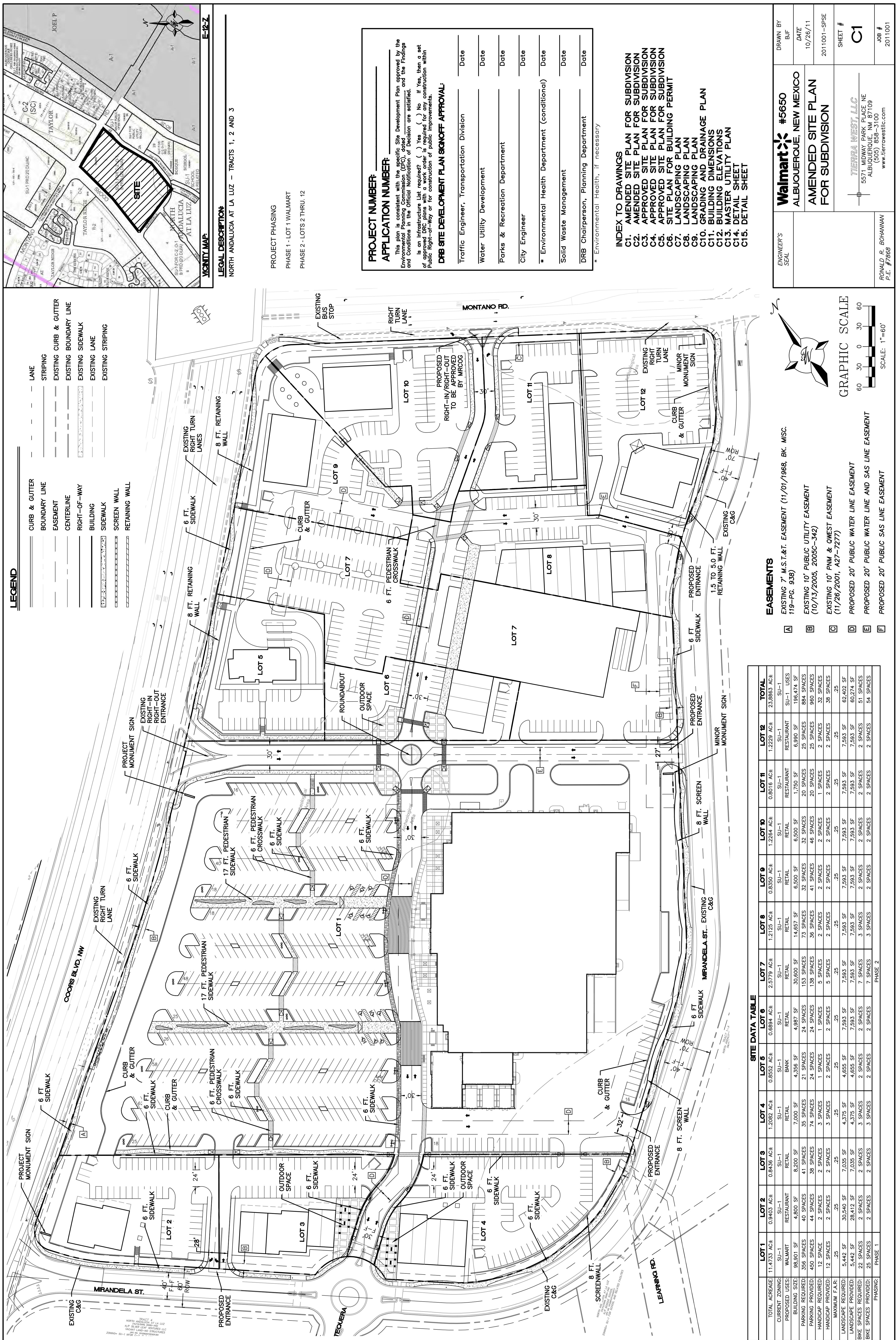
Appendix

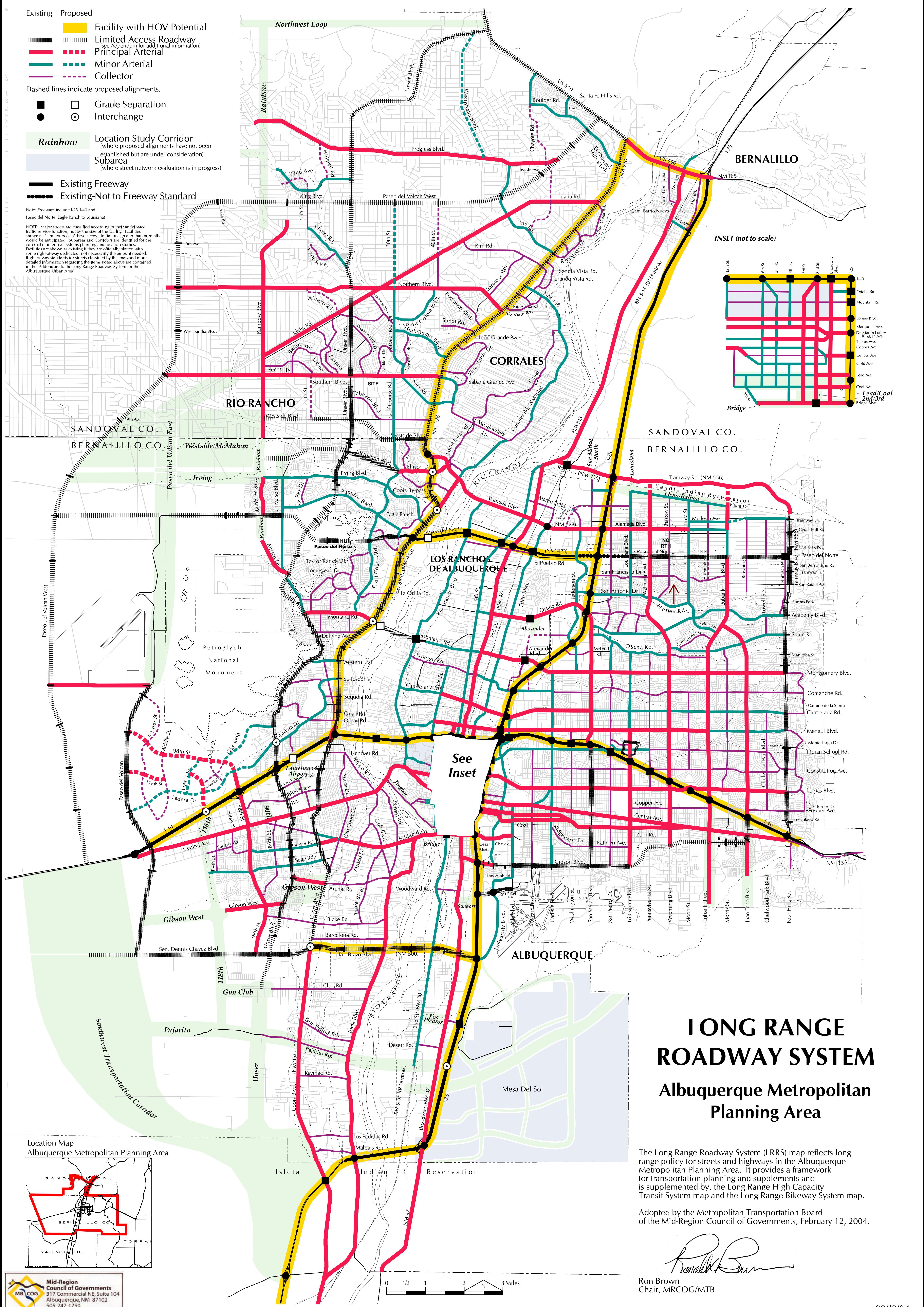


Andalucia, Tract 6 Update (2011)

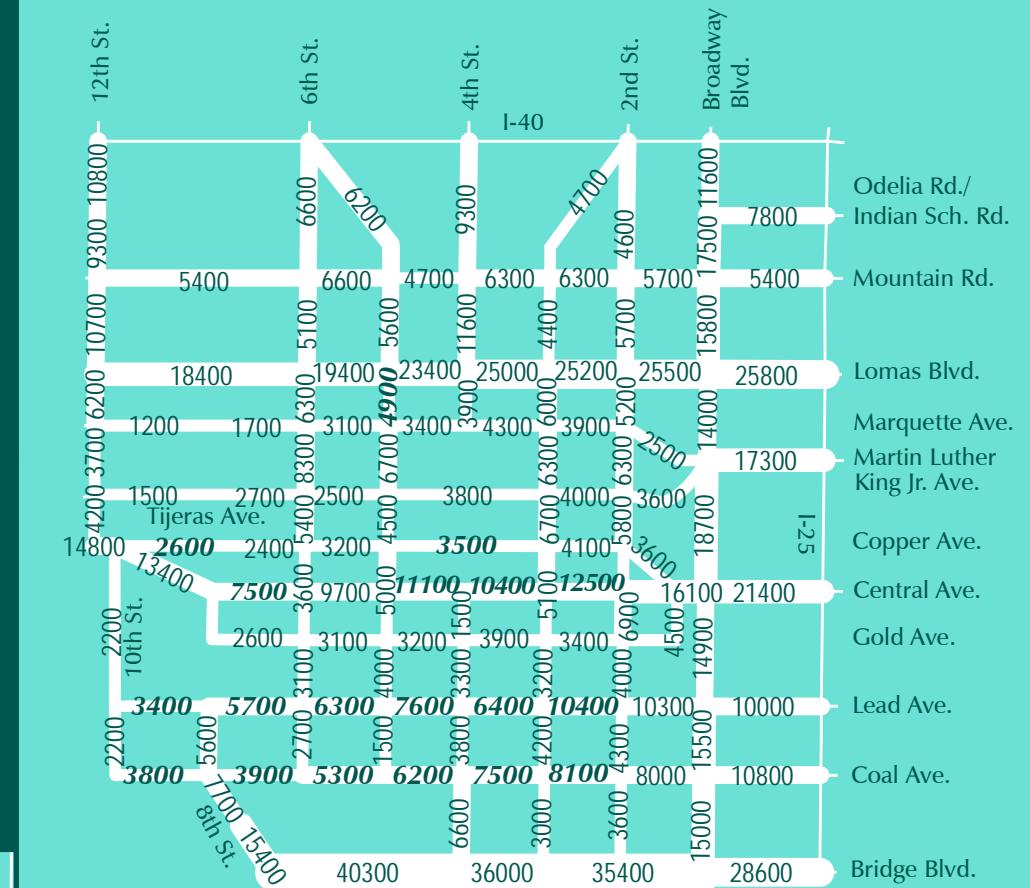




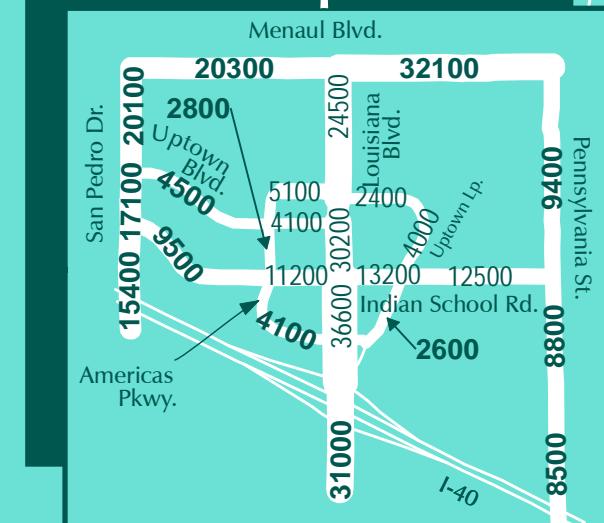




Inset for Downtown



Inset for Uptown



SANDOVAL CO.

BERNALILLO CO.

RIO RANCHO CORRALES

BERNALILLO CO.

1400

1400

1400

1400

1400

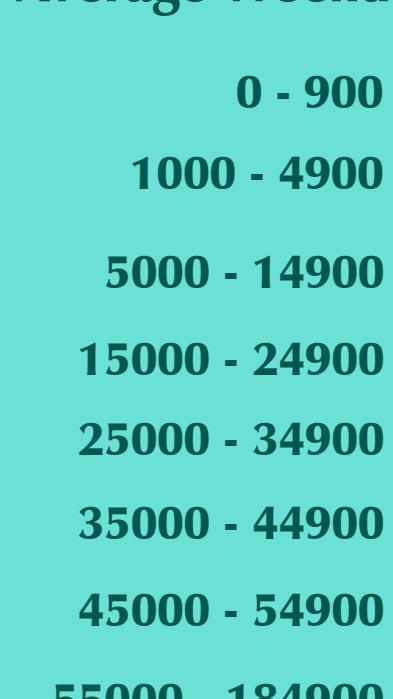
1400

1400

1400

1400

Average Weekday Traffic Flows



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

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

9500

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

9500

Link Volume is based either on traffic count data not in compliance with the NMSTMS or on professional judgement. NMDOT recommends that nonstandard data be used with caution.

0

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

1

Link Volume is based either on traffic count data not in compliance with the NMSTMS or on professional judgement. NMDOT recommends that nonstandard data be used with caution.

2

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

3

Link Volume is based either on traffic count data not in compliance with the NMSTMS or on professional judgement. NMDOT recommends that nonstandard data be used with caution.

4

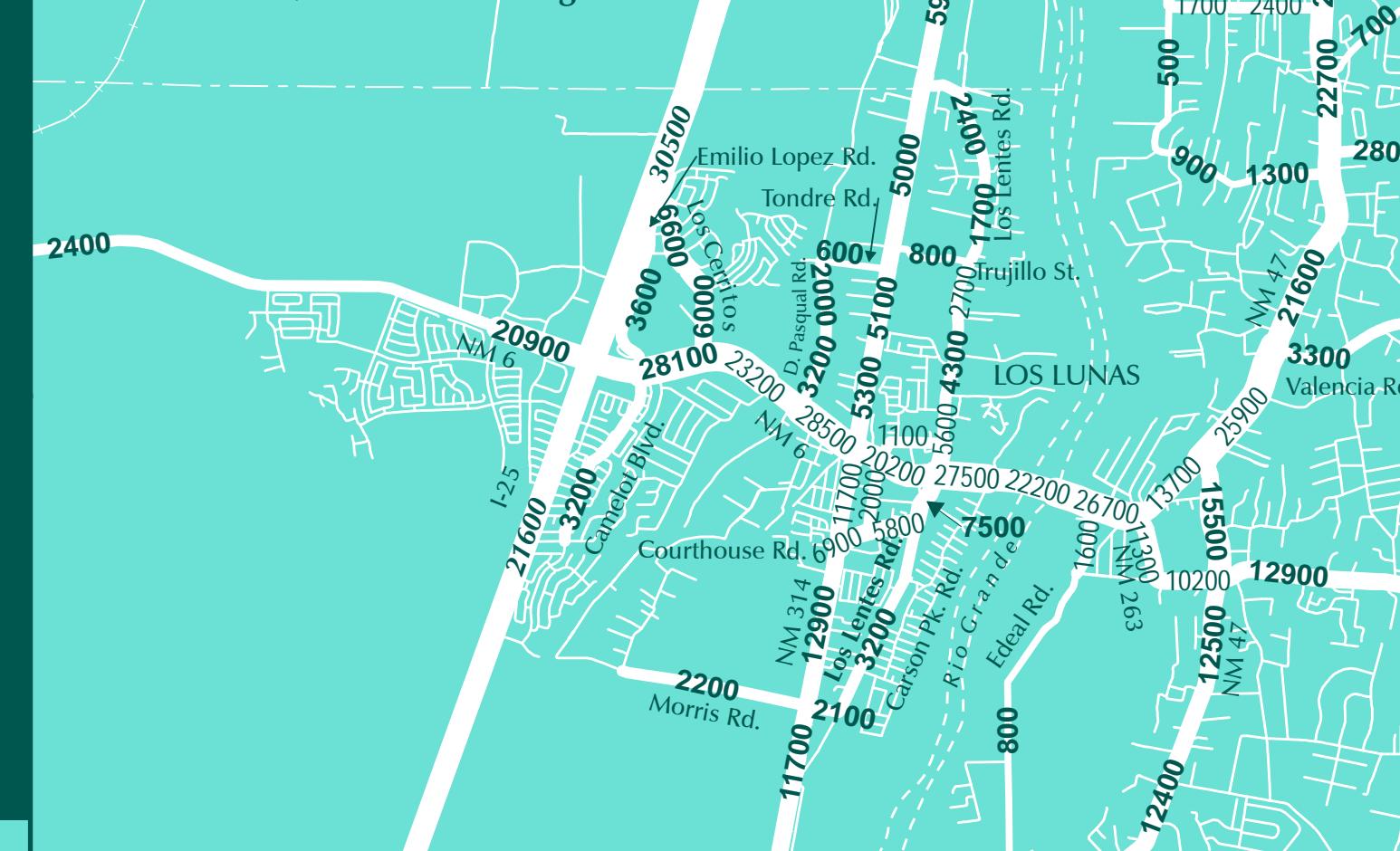
Link Volume is based on traffic count data accepted by the NM Department of Transportation Traffic Monitoring System (TMS) as standard in accordance with the New Mexico State Traffic Monitoring Standards (NMSTMS).

Miles

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

Inset for Los Lunas, Valencia County

Los Lunas is approximately 12 miles south of the I-25/NM 47 interchange.



**2010 Traffic Flows
for the Greater Albuquerque Area**

Andalucia, Tract 6 Update (Montano / Coors)
Trip Generation Data (ITE Trip Generation Manual - 8th Edition)

| COMMENT | USE (ITE CODE) | DESCRIPTION | 24 HR VOL | A. M. PEAK HR. | P. M. PEAK HR. | | |
|---------------------|--|----------------|----------------|----------------|----------------|--------------|--------------|
| | | | GROSS | ENTER | EXIT | ENTER | EXIT |
| | Summary Sheet | Units | | | | | |
| Walmart (Grocery) | Supermarket (850) | 40.00 | 4,070 | 88 | 56 | 251 | 241 |
| Walmart (Dry Goods) | Free-Standing Discount Store (815) | 59.00 | 2,363 | 43 | 20 | 148 | 148 |
| NORTH TRACT | Shopping Center (820) | 70.24 | 5,398 | 76 | 49 | 246 | 256 |
| NORTH TRACT | Drive-In Bank (912) | 3 | 418 | 16 | 12 | 40 | 42 |
| NORTH TRACT | High Turnover (Sit-Down) Restaurant (932) | 24.10 | 3,064 | 144 | 133 | 159 | 110 |
| SOUTH TRACT | Drive-In Bank (912) | 12.37 | 1,833 | 86 | 67 | 160 | 160 |
| SOUTH TRACT | General Office Building (710) - Less than 51,000 S.F. | 10.00 | 147 | 18 | 2 | 4 | 20 |
| Apartments | Apartment, Post-1973 (220) | 345 | 2,214 | 35 | 138 | 135 | 73 |
| | Subtotal | | 19,507 | 506 | 477 | 1,143 | 1,050 |
| | Subtotal (Commercial Trips) | | 17,146 | 453 | 337 | 1,004 | 957 |
| | Pass-by Trip Reduction | 30% | (5,144) | (136) | (101) | (301) | (287) |
| | Net New Commercial Trips on Adjacent Transportation System | 12,002 | 317 | 236 | 703 | 670 | |
| | New Office Trips on Adjacent Transportation System | 147 | 18 | 2 | 4 | 20 | |
| | New Residential Trips on Adjacent Transportation System | 2,214 | 35 | 138 | 135 | 73 | |
| | Total New Trips on Adjacent Transportation System | 14,363 | 370 | 376 | 842 | 763 | |
| | Net New Trips Utilized in Original Traffic Impact Study | 19,363 | 502 | 620 | 1,038 | 906 | |
| | Net Increase (Decrease) in Traffic Generated | (5,000) | (132) | (244) | (196) | (143) | |
| | Percentage Increase (-Decrease) in Traffic Generated | -26% | -26% | -39% | -19% | -16% | |
| | <u>NORTH TRACT (Walmart et al)</u> | | | | | | |
| | Trips Generated by North Tract | 15,313 | 367 | 270 | 844 | 797 | |
| | Pass-by Trip Reduction | 30% | (4,594) | (110) | (81) | (253) | (239) |
| >> | Net New Commercial Trips on Adjacent Transportation Syste | 10,719 | 257 | 189 | 591 | 558 | |
| | | | | 76.72% | 79.41% | 83.59% | 80.87% |
| | <u>SOUTH TRACT</u> | | | | | | |
| | Trips Generated by South Tract | 1,980 | 104 | 69 | 164 | 180 | |
| | Pass-by Trip Reduction (Commercial ONLY) | 30% | (550) | (26) | (20) | (48) | (48) |
| >> | Net New Commercial Trips on Adjacent Transportation Syste | 1,430 | 78 | 49 | 116 | 132 | |
| | | | | 23.28% | 20.59% | 16.41% | 19.13% |
| | Total Commercial / Office Trips (Adj. for Passby) | | | 335 | 238 | 707 | 690 |
| | <u>APARTMENTS TRACTS</u> | | | | | | |
| >> | Residential Trips Generated | | | 2,214 | 35 | 138 | 135 |
| | | | | | | | |
| | Walmart Trips | 6,433 | 131 | 76 | 399 | 389 | |
| | Pass-by Trip Reduction | 30% | (1,930) | (39) | (23) | (120) | (117) |
| | Net New Wal-Mart Trips on Adjacent Transportation System | 4,503 | 92 | 53 | 279 | 272 | |
| | Balance of Net Commercial Trips | 6,216 | 165 | 136 | 312 | 286 | |

NOTE: Walmart Trips were separated from other commercial trips so that they could be distributed differently (based on locale of adjacent existing Walmart Stores.)

'Supermarket' and 'Free-Standing Discount Store' categories were utilized in the determination of the trip generation rates for the project to provide a conservatively high trip generation rate. This trip generation calculation method results in a 25% or higher trip generation rate than a Supercenter Trip Generation Rate would yield.

Andalucia, Tract 6 Update (Montano / Coors)
Trip Generation Data (ITE Trip Generation Manual - 8th Edition)

| USE (ITE CODE) | 24 HOUR TWO-WAY VOLUME | A.M. PEAK HOUR | | | P.M. PEAK HOUR | | |
|-------------------|------------------------------|----------------------|-------|------|----------------------|------|--|
| | | GROSS | ENTER | EXIT | ENTER | EXIT | |
| Supermarket (850) | 40,000 | 4,070 | 88 | 56 | 251 | 241 | |
| | 1,000 S.F. | | | | | | |

ITE Trip Generation Equations:

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

$$T = 66.95 (X) + 50\% \text{ Enter, } 50\% \text{ Exit} \quad 1391.56$$

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

$$T = 3.59 (X) + 61\% \text{ Enter, } 39\% \text{ Exit} \quad 0$$

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

$$T = 0.61 \ln(X) + 3.95 \quad 51\% \text{ Enter, } 49\% \text{ Exit}$$

Comments:

Walmart (Grocery)

Based on ITE Trip Generation Manual - 8th Edition

Andalucia, Tract 6 Update (Montano / Coors)
Trip Generation Data (ITE Trip Generation Manual - 8th Edition)

| USE (ITE CODE) | 24 HOUR TWO-WAY VOLUME | A.M. PEAK HOUR | P.M. PEAK HOUR | ENTER | EXIT | ENTER | EXIT |
|------------------------------------|------------------------|----------------|----------------|-------|-------|-------|------|
| | | | | GROSS | ENTER | EXIT | |
| Free-Standing Discount Store (815) | 59.00 | 2,363 | 43 | 20 | 148 | 148 | |
| | 1,000 S.F. | | | | | | |

ITE Trip Generation Equations:

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

$$\text{Ln}(T) = \frac{1.52}{50\%} \text{ Enter, } \frac{\ln(X)}{50\%} + \frac{1.57}{50\%} \text{ Exit}$$

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

$$T = \frac{1.06}{68\%} \text{ Enter, } \frac{(X)}{32\%} + \frac{0}{32\%} \text{ Exit}$$

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

$$T = \frac{5}{50\%} \text{ Enter, } \frac{(X)}{50\%} + \frac{0}{50\%} \text{ Exit}$$

Comments:

Walmart (Dry Goods)

Based on ITE Trip Generation Manual - 8th Edition

Andalucia, Tract 6 Update (Montano / Coors)
Trip Generation Data (ITE Trip Generation Manual - 8th Edition)

| USE (ITE CODE) | 24 HOUR TWO-WAY VOLUME | A.M. PEAK HOUR | P.M. PEAK HOUR | ENTER | EXIT | ENTER | EXIT |
|------------------------------|------------------------|----------------|----------------|------------|------------|------------|------|
| | | | | GROSS | ENTER | EXIT | |
| Shopping Center (820) | 7024 | 5,398 | 76 | 49 | 246 | 256 | |
| | | | | Units | | | |
| | | | | 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)

$$\ln(T) = 0.59 \ln(X) + 2.32$$

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)

$$\ln(T) = 0.67 \ln(X) + 3.37$$

49% Enter, 51% Exit

Comments:

NORTH TRACT

Based on ITE Trip Generation Manual - 8th Edition

Andalucia, Tract 6 Update (Montano / Coors)
Trip Generation Data (ITE Trip Generation Manual - 8th Edition)

| USE (ITE CODE) | 24 HOUR TWO-WAY VOLUME | A.M. PEAK HOUR | | | P.M. PEAK HOUR | | |
|---------------------|------------------------------|----------------------|-------|------|----------------------|------|--|
| | | GROSS | ENTER | EXIT | ENTER | EXIT | |
| Drive-In Bank (912) | 3,00 | 418 | 16 | 12 | 40 | 42 | |
| Drive-In Lanes | | | | | | | |

ITE Trip Generation Equations:

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

$$T = 139.25 (X) + 0 \\ 50\% \text{ Enter,} \quad 50\% \text{ Exit}$$

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

$$T = 9.44 (X) + 0 \\ 58\% \text{ Enter,} \quad 42\% \text{ Exit}$$

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

$$T = 27.41 (X) + 0 \\ 49\% \text{ Enter,} \quad 51\% \text{ Exit}$$

Comments:

NORTH TRACT

Based on ITE Trip Generation Manual - 8th Edition

Andalucia, Tract 6 Update (Montano / Coors)
Trip Generation Data (ITE Trip Generation Manual - 8th Edition)

| USE (ITE CODE) | 24 HOUR TWO-WAY VOLUME | A.M. PEAK HOUR | P.M. PEAK HOUR | ENTER | EXIT | ENTER | EXIT |
|--|------------------------------|----------------------|----------------------|-------|------|-------|------|
| | | GROSS | | ENTER | EXIT | ENTER | EXIT |
| High Turnover (Sit-Down) Restaurant (932) | 24.10 | 3,064 | 144 | 133 | 159 | 110 | |
| 1,000 S.F. | | | | | | | |

ITE Trip Generation Equations:

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

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

50% Enter, 50% Exit

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

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

52% Enter, 48% Exit

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

$$T = 11.15 (X) + 0$$

59% Enter, 41% Exit

Comments:
NORTH TRACT

Based on ITE Trip Generation Manual - 8th Edition

Andalucia, Tract 6 Update (Montano / Coors)
Trip Generation Data (ITE Trip Generation Manual - 8th Edition)

| USE (ITE CODE) | 24 HOUR TWO-WAY VOLUME | A.M. PEAK HOUR | | P.M. PEAK HOUR | | ENTER | EXIT | ENTER | EXIT |
|--|------------------------------|----------------------|-------|----------------------|------|-------|------|-------|------|
| | | GROSS | ENTER | ENTER | EXIT | | | | |
| Fast Food Restaurant w/o Drive-Thru Window (933) | 0.00 | - | - | - | - | - | - | - | - |
| | 1,000 S.F. | | | | | | | | |

ITE Trip Generation Equations:

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

$$T = 716 (X) + 0 \\ 50\% \text{ Enter,} \quad 50\% \text{ Exit}$$

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

$$T = 43.87 (X) + 0 \\ 60\% \text{ Enter,} \quad 40\% \text{ Exit}$$

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

$$T = 26.15 (X) + 0 \\ 51\% \text{ Enter,} \quad 49\% \text{ Exit}$$

Comments:

NORTH TRACT

Based on ITE Trip Generation Manual - 8th Edition

Andalucia, Tract 6 Update (Montano / Coors)
Trip Generation Data (ITE Trip Generation Manual - 8th Edition)

| USE (ITE CODE) | 24 HOUR TWO-WAY VOLUME | A.M. PEAK HOUR | | | P.M. PEAK HOUR | | |
|---------------------|------------------------------|----------------------|-------|------|----------------------|------|--|
| | | GROSS | ENTER | EXIT | ENTER | EXIT | |
| Drive-In Bank (912) | 12.37 | 1,833 | 86 | 67 | 160 | 160 | |
| | 1,000 S.F. | | | | | | |

ITE Trip Generation Equations:

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

$$T = 148.15 (X) + 0 \\ 50\% \text{ Enter,} \quad 50\% \text{ Exit}$$

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

$$T = 12.35 (X) + 0 \\ 56\% \text{ Enter,} \quad 44\% \text{ Exit}$$

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

$$T = 25.82 (X) + 0 \\ 50\% \text{ Enter,} \quad 50\% \text{ Exit}$$

Comments:

SOUTH TRACT

Based on ITE Trip Generation Manual - 8th Edition

Andalucia, Tract 6 Update (Montano / Coors)
Trip Generation Data (ITE Trip Generation Manual - 8th Edition)

| USE (ITE CODE) | 24 HOUR TWO-WAY VOLUME | A.M. PEAK HOUR | P.M. PEAK HOUR | | | ENTER | EXIT | ENTER | EXIT |
|---|------------------------------|----------------------|----------------------|-------|------|-------|------|-------|------|
| | | | GROSS | ENTER | EXIT | | | | |
| General Office Building (710) - Less than 51,000 S.F. | 10.00 | 147 | 18 | 2 | 4 | 20 | | | |
| | 1,000 S.F. | | | | | | | | |

ITE Trip Generation Equations:

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

$$T = 14.729 (X) + 0$$

50% Enter, 50% Exit

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

$$T = 2.055 (X) + 0$$

88% Enter, 12% Exit

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

$$T = 2.369 (X) + 0$$

17% Enter, 83% Exit

Comments:
SOUTH TRACT

Based on ITE Trip Generation Manual - 8th Edition

Andalucia, Tract 6 Update (Montano / Coors)
Trip Generation Data (ITE Trip Generation Manual - 8th Edition)

| USE (ITE CODE) | 24 HOUR TWO-WAY VOLUME | A.M. PEAK HOUR | | | P.M. PEAK HOUR | | |
|----------------------------|------------------------------|----------------------|-------|------|----------------------|------|--|
| | | GROSS | ENTER | EXIT | ENTER | EXIT | |
| Apartment, Post-1973 (220) | 345.00 | 2,214 | 35 | 138 | 135 | 73 | |
| Dwelling Units | | | | | | | |

ITE Trip Generation Equations:

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

$$T = 6.06 (X) + 50\% \text{ Enter, } 123.56$$

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

$$T = 0.49 (X) + 3.73$$

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

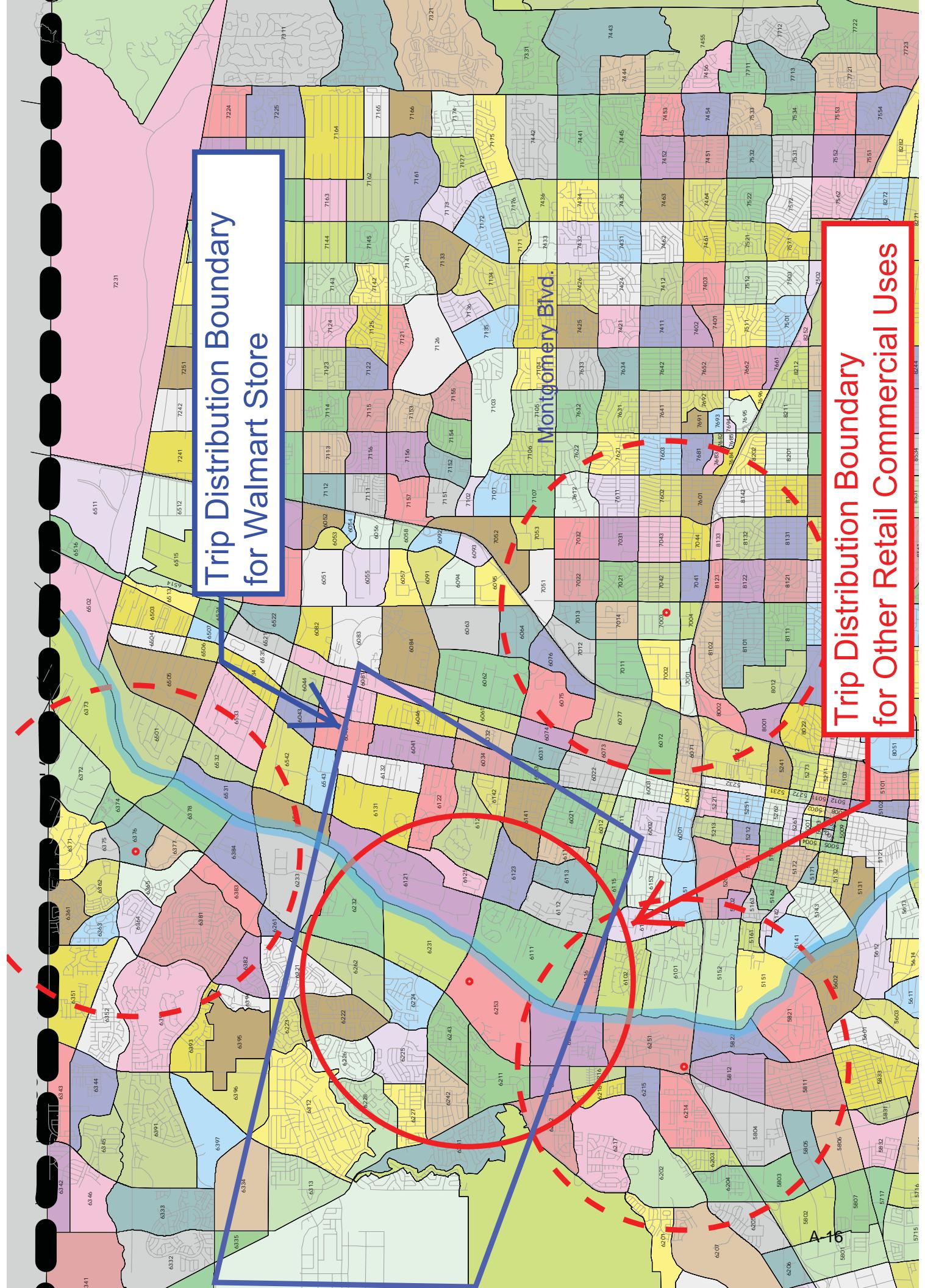
$$T = 0.55 (X) + 17.65$$

Comments:
Tract No.

Based on ITE Trip Generation Manual - 8th Edition

Trip Distribution Boundary for Walmart Store

Trip Distribution Boundary for Other Retail Commercial Uses



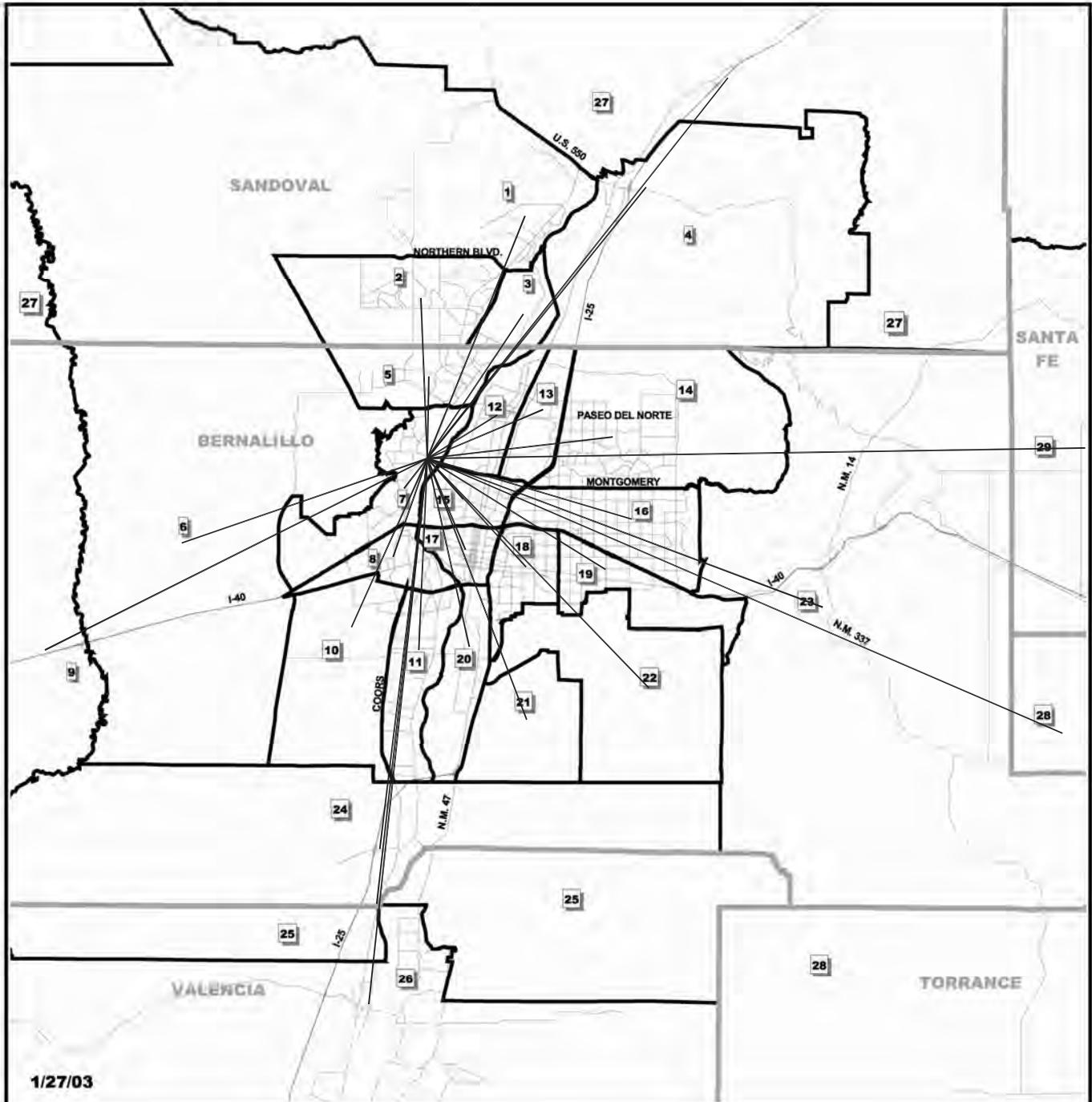


Figure 6
Subareas of the MRCOG Region



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

Subarea boundaries extend to county boundary where full extent of subarea not shown except for Subarea 29 which only includes southern Santa Fe County.

**Andalucia Update
(Montano Rd / Coors Blvd)
Trip Distribution Subarea Map**

Trip Distribution Table**Andulicia, Tract 6 RETAILCOMMERCIAL (Montano / Coors)**Data Analysis Subzone Population Data for determination of Local Trip Distribution for Proposed **Retail Commercial Trips**

2015 and 2025 Data Taken from Mid-Region Council of Governments'

2035 Socioeconomic Forecasts by Data Analysis Subzones for the Mid-Region of New Mexico

| DASZ # | % Sub Area in Study | | | | | (CN) Coors Blvd North | | | (LE) La Orilla Rd East | | | (MPE) Montano Plaza East | | | (WN) Winterhaven Rd North | | | |
|--------|---------------------|--------------------------------|------|-------|---------------------|--------------------------|-------------|------------------------|---------------------------|-------------|------------------------|-----------------------------|-------------|------------------------|------------------------------|-------------|------------------------|------------|
| | | 2015 | 2025 | 2015 | Population in Study | Percent Population | % Utilizing | % Population Utilizing | Population | % Utilizing | % Population Utilizing | Population | % Utilizing | % Population Utilizing | Population | % Utilizing | % Population Utilizing | Population |
| | | Boundary Specified on DASZ Map | | | | | | | | | | | | | | | | |
| 6102 | 35% | 1395 | 1352 | 1,395 | 488 | 1.32% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6111 | 100% | 1333 | 1290 | 1,333 | 1,333 | 3.60% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6112 | 100% | 1157 | 1123 | 1,157 | 1,157 | 3.12% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6113 | 95% | 755 | 729 | 755 | 717 | 1.93% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6114 | 80% | 772 | 745 | 772 | 618 | 1.67% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6115 | 40% | 1400 | 1358 | 1,400 | 560 | 1.51% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6116 | 100% | 788 | 771 | 788 | 788 | 2.13% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6121 | 80% | 737 | 723 | 737 | 590 | 1.59% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6122 | 35% | 868 | 847 | 868 | 304 | 0.82% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6123 | 100% | 868 | 850 | 868 | 868 | 2.34% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6124 | 75% | 833 | 804 | 833 | 625 | 1.69% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6125 | 100% | 150 | 141 | 150 | 150 | 0.40% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6131 | 10% | 610 | 595 | 610 | 61 | 0.16% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6141 | 30% | 2181 | 2179 | 2,181 | 654 | 1.76% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6152 | 25% | 897 | 866 | 897 | 224 | 0.60% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6211 | 100% | 2469 | 2384 | 2,469 | 2,469 | 6.66% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6212 | 55% | 2378 | 2434 | 2,378 | 1,308 | 3.53% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6213 | 100% | 731 | 718 | 731 | 731 | 1.97% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6216 | 65% | 434 | 457 | 434 | 282 | 0.76% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6218 | 35% | 2205 | 2126 | 2,205 | 772 | 2.08% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6221 | 40% | 2555 | 2512 | 2,555 | 1,022 | 2.76% | 100% | 2.76% | 1,022 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6222 | 95% | 3194 | 3144 | 3,194 | 3,034 | 8.19% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6224 | 100% | 2664 | 2574 | 2,664 | 2,664 | 7.19% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6225 | 100% | 1938 | 1907 | 1,938 | 1,938 | 5.23% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6226 | 90% | 1637 | 1609 | 1,637 | 1,473 | 3.98% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6227 | 90% | 1703 | 1652 | 1,703 | 1,533 | 4.14% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6228 | 50% | 1819 | 1760 | 1,819 | 910 | 2.46% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6231 | 100% | 384 | 382 | 384 | 384 | 1.04% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 10% | 0.10% | 38 | 90% | 0.93% | 346 |
| 6232 | 90% | 714 | 699 | 714 | 643 | 1.74% | 85% | 1.47% | 547 | 15% | 0.26% | 96 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6241 | 45% | 2616 | 2531 | 2,616 | 1,177 | 3.18% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6242 | 100% | 2044 | 2020 | 2,044 | 2,044 | 5.52% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6243 | 100% | 2138 | 2078 | 2,138 | 2,138 | 5.77% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6251 | 20% | 1987 | 1944 | 1,987 | 397 | 1.07% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6252 | 100% | 1403 | 1373 | 1,403 | 1,403 | 3.79% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6253 | 100% | 1478 | 2183 | 1,478 | 1,478 | 3.99% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6262 | 95% | 124 | 117 | 124 | 118 | 0.32% | 80% | 0.25% | 94 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |

51,359 37,055 100.00%

1,663
4.49%96
0.26%38
0.10%346
0.93%

Trip Distribution Table**Andulicia, Tract 6 RETAILCOMMERCIAL (Montano / Coors)**Data Analysis Subzone Population Data for determination of Local Trip Distribution for Proposed **Retail Commercial**

2015 and 2025 Data Taken from Mid-Region Council of Governments'

2035 Socioeconomic Forecasts by Data Analysis Subzones for the Mid-Region of New Mexico

| DASZ # | % Sub Area in Study | | | | | | (4N) Fourth St North | | | (ME) Montano Rd East | | | (4S) Fourth St South | | | (SE) Sevilla Ave East | | |
|--------------------------------|---------------------|-----------------|-----------------|--------------------------------------|---------------------|--------------------|----------------------|------------------------|------------|----------------------|------------------------|------------|----------------------|------------------------|------------|-----------------------|------------------------|------------|
| | | 2015 Population | 2025 Population | Interpolated 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 |
| | | 2015 | 2025 | 2015 | | | | | | | | | | | | | | |
| Boundary Specified on DASZ Map | | | | | | | | | | | | | | | | | | |
| 6102 | 35% | 1395 | 1352 | 1,395 | 488 | 1.32% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 100% | 1.32% | 488 | 0% | 0.00% | 0 |
| 6111 | 100% | 1333 | 1290 | 1,333 | 1,333 | 3.60% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 100% | 3.60% | 1,333 | 0% | 0.00% | 0 |
| 6112 | 100% | 1157 | 1123 | 1,157 | 1,157 | 3.12% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 100% | 3.12% | 1,157 | 0% | 0.00% | 0 |
| 6113 | 95% | 755 | 729 | 755 | 717 | 1.93% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 100% | 1.93% | 717 | 0% | 0.00% | 0 |
| 6114 | 80% | 772 | 745 | 772 | 618 | 1.67% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 100% | 1.67% | 618 | 0% | 0.00% | 0 |
| 6115 | 40% | 1400 | 1358 | 1,400 | 560 | 1.51% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 100% | 1.51% | 560 | 0% | 0.00% | 0 |
| 6116 | 100% | 788 | 771 | 788 | 788 | 2.13% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 100% | 2.13% | 788 | 0% | 0.00% | 0 |
| 6121 | 80% | 737 | 723 | 737 | 590 | 1.59% | 100% | 1.59% | 590 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6122 | 35% | 868 | 847 | 868 | 304 | 0.82% | 100% | 0.82% | 304 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6123 | 100% | 868 | 850 | 868 | 868 | 2.34% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 100% | 2.34% | 868 | 0% | 0.00% | 0 |
| 6124 | 75% | 833 | 804 | 833 | 625 | 1.69% | 100% | 1.69% | 625 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6125 | 100% | 150 | 141 | 150 | 150 | 0.40% | 100% | 0.40% | 150 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6131 | 10% | 610 | 595 | 610 | 61 | 0.16% | 100% | 0.16% | 61 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6141 | 30% | 2181 | 2179 | 2,181 | 654 | 1.76% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 100% | 1.76% | 654 | 0% | 0.00% | 0 |
| 6152 | 25% | 897 | 866 | 897 | 224 | 0.60% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 100% | 0.60% | 224 | 0% | 0.00% | 0 |
| 6211 | 100% | 2469 | 2384 | 2,469 | 2,469 | 6.66% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6212 | 55% | 2378 | 2434 | 2,378 | 1,308 | 3.53% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6213 | 100% | 731 | 718 | 731 | 731 | 1.97% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6216 | 65% | 434 | 457 | 434 | 282 | 0.76% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6218 | 35% | 2205 | 2126 | 2,205 | 772 | 2.08% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6221 | 40% | 2555 | 2512 | 2,555 | 1,022 | 2.76% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6222 | 95% | 3194 | 3144 | 3,194 | 3,034 | 8.19% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6224 | 100% | 2664 | 2574 | 2,664 | 2,664 | 7.19% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6225 | 100% | 1938 | 1907 | 1,938 | 1,938 | 5.23% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6226 | 90% | 1637 | 1609 | 1,637 | 1,473 | 3.98% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6227 | 90% | 1703 | 1652 | 1,703 | 1,533 | 4.14% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6228 | 50% | 1819 | 1760 | 1,819 | 910 | 2.46% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6231 | 100% | 384 | 382 | 384 | 384 | 1.04% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6232 | 90% | 714 | 699 | 714 | 643 | 1.74% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6241 | 45% | 2616 | 2531 | 2,616 | 1,177 | 3.18% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6242 | 100% | 2044 | 2020 | 2,044 | 2,044 | 5.52% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6243 | 100% | 2138 | 2078 | 2,138 | 2,138 | 5.77% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6251 | 20% | 1987 | 1944 | 1,987 | 397 | 1.07% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6252 | 100% | 1403 | 1373 | 1,403 | 1,403 | 3.79% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6253 | 100% | 1478 | 2183 | 1,478 | 1,478 | 3.99% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 90% | 3.59% | 1,330 |
| 6262 | 95% | 124 | 117 | 124 | 118 | 0.32% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |

51,359 37,055 100.00%

1,730
4.67%-
0.00%7,407
19.99%1,330
3.59%

Trip Distribution Table**Andulicia, Tract 6 RETAILCOMMERCIAL (Montano / Coors)**Data Analysis Subzone Population Data for determination of Local Trip Distribution for Proposed **Retail Commercial**

2015 and 2025 Data Taken from Mid-Region Council of Governments'

2035 Socioeconomic Forecasts by Data Analysis Subzones for the Mid-Region of New Mexico

| DASZ # | % Sub Area in Study | | | | Population in Study | Percent Population | (WE) Western Trail East | | (CS) Coors Blvd South | | (WW) Western Trail West | | (SW) Sevilla Ave West | | | | | |
|--------------------------------|---------------------|------|------|-------|---------------------|--------------------|----------------------------|------------------------|--------------------------|-------------|----------------------------|------------|--------------------------|------------------------|------------|-----|-------|-----|
| | | 2015 | 2025 | 2015 | | | % Utilizing | % Population Utilizing | Population | % Utilizing | % Population Utilizing | Population | % Utilizing | % Population Utilizing | Population | | | |
| Boundary Specified on DASZ Map | | | | | | | | | | | | | | | | | | |
| 6102 | 35% | 1395 | 1352 | 1,395 | 488 | 1.32% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6111 | 100% | 1333 | 1290 | 1,333 | 1,333 | 3.60% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6112 | 100% | 1157 | 1123 | 1,157 | 1,157 | 3.12% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6113 | 95% | 755 | 729 | 755 | 717 | 1.93% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6114 | 80% | 772 | 745 | 772 | 618 | 1.67% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6115 | 40% | 1400 | 1358 | 1,400 | 560 | 1.51% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6116 | 100% | 788 | 771 | 788 | 788 | 2.13% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6121 | 80% | 737 | 723 | 737 | 590 | 1.59% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6122 | 35% | 868 | 847 | 868 | 304 | 0.82% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6123 | 100% | 868 | 850 | 868 | 868 | 2.34% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6124 | 75% | 833 | 804 | 833 | 625 | 1.69% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6125 | 100% | 150 | 141 | 150 | 150 | 0.40% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6131 | 10% | 610 | 595 | 610 | 61 | 0.16% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6141 | 30% | 2181 | 2179 | 2,181 | 654 | 1.76% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6152 | 25% | 897 | 866 | 897 | 224 | 0.60% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6211 | 100% | 2469 | 2384 | 2,469 | 2,469 | 6.66% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 50% | 3.33% | 1,235 | 15% | 1.00% | 370 |
| 6212 | 55% | 2378 | 2434 | 2,378 | 1,308 | 3.53% | 0% | 0.00% | 0 | 85% | 3.00% | 1,112 | 15% | 0.53% | 196 | 0% | 0.00% | 0 |
| 6213 | 100% | 731 | 718 | 731 | 731 | 1.97% | 0% | 0.00% | 0 | 50% | 0.99% | 366 | 50% | 0.99% | 366 | 0% | 0.00% | 0 |
| 6216 | 65% | 434 | 457 | 434 | 282 | 0.76% | 0% | 0.00% | 0 | 100% | 0.76% | 282 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6218 | 35% | 2205 | 2126 | 2,205 | 772 | 2.08% | 0% | 0.00% | 0 | 100% | 2.08% | 772 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6221 | 40% | 2555 | 2512 | 2,555 | 1,022 | 2.76% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6222 | 95% | 3194 | 3144 | 3,194 | 3,034 | 8.19% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6224 | 100% | 2664 | 2574 | 2,664 | 2,664 | 7.19% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6225 | 100% | 1938 | 1907 | 1,938 | 1,938 | 5.23% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6226 | 90% | 1637 | 1609 | 1,637 | 1,473 | 3.98% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6227 | 90% | 1703 | 1652 | 1,703 | 1,533 | 4.14% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6228 | 50% | 1819 | 1760 | 1,819 | 910 | 2.46% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6231 | 100% | 384 | 382 | 384 | 384 | 1.04% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6232 | 90% | 714 | 699 | 714 | 643 | 1.74% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6241 | 45% | 2616 | 2531 | 2,616 | 1,177 | 3.18% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6242 | 100% | 2044 | 2020 | 2,044 | 2,044 | 5.52% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6243 | 100% | 2138 | 2078 | 2,138 | 2,138 | 5.77% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6251 | 20% | 1987 | 1944 | 1,987 | 397 | 1.07% | 0% | 0.00% | 0 | 100% | 1.07% | 397 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6252 | 100% | 1403 | 1373 | 1,403 | 1,403 | 3.79% | 15% | 0.57% | 210 | 85% | 3.22% | 1,193 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6253 | 100% | 1478 | 2183 | 1,478 | 1,478 | 3.99% | 10% | 0.40% | 148 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6262 | 95% | 124 | 117 | 124 | 118 | 0.32% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |

51,359 37,055 100.00%

358 0.97%

4,121 11.12%

1,796 4.85%

370 1.00%

Trip Distribution Table**Andulicia, Tract 6 RETAILCOMMERCIAL (Montano / Coors)**Data Analysis Subzone Population Data for determination of Local Trip Distribution for Proposed **Retail Commercial**

2015 and 2025 Data Taken from Mid-Region Council of Governments'

2035 Socioeconomic Forecasts by Data Analysis Subzones for the Mid-Region of New Mexico

| DASZ # | % Sub Area in Study | | | | | (DW) Dellyne Ave West | | | (MW) Montano Rd West | | | (MPW) Montano Plaza West | | | (LW) La Orilla Rd West | | | |
|--------------------------------|---------------------|--------|--------|---------|---------------------|--------------------------|-------------|------------------------|-------------------------|-------------|------------------------|-----------------------------|-------------|------------------------|---------------------------|-------------|------------------------|------------|
| | | 2015 | 2025 | 2015 | Population in Study | Percent Population | % Utilizing | % Population Utilizing | Population | % Utilizing | % Population Utilizing | Population | % Utilizing | % Population Utilizing | Population | % Utilizing | % Population Utilizing | Population |
| | | | | | | | | | | | | | | | | | | |
| Boundary Specified on DASZ Map | | | | | | | | | | | | | | | | | | |
| 6102 | 35% | 1395 | 1352 | 1,395 | 488 | 1.32% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6111 | 100% | 1333 | 1290 | 1,333 | 1,333 | 3.60% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6112 | 100% | 1157 | 1123 | 1,157 | 1,157 | 3.12% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6113 | 95% | 755 | 729 | 755 | 717 | 1.93% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6114 | 80% | 772 | 745 | 772 | 618 | 1.67% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6115 | 40% | 1400 | 1358 | 1,400 | 560 | 1.51% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6116 | 100% | 788 | 771 | 788 | 788 | 2.13% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6121 | 80% | 737 | 723 | 737 | 590 | 1.59% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6122 | 35% | 868 | 847 | 868 | 304 | 0.82% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6123 | 100% | 868 | 850 | 868 | 868 | 2.34% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6124 | 75% | 833 | 804 | 833 | 625 | 1.69% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6125 | 100% | 150 | 141 | 150 | 150 | 0.40% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6131 | 10% | 610 | 595 | 610 | 61 | 0.16% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6141 | 30% | 2181 | 2179 | 2,181 | 654 | 1.76% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6152 | 25% | 897 | 866 | 897 | 224 | 0.60% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6211 | 100% | 2469 | 2384 | 2,469 | 2,469 | 6.66% | 35% | 2.33% | 864 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6212 | 55% | 2378 | 2434 | 2,378 | 1,308 | 3.53% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6213 | 100% | 731 | 718 | 731 | 731 | 1.97% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6216 | 65% | 434 | 457 | 434 | 282 | 0.76% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6218 | 35% | 2205 | 2126 | 2,205 | 772 | 2.08% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6221 | 40% | 2555 | 2512 | 2,555 | 1,022 | 2.76% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6222 | 95% | 3194 | 3144 | 3,194 | 3,034 | 8.19% | 0% | 0.00% | 0 | 100% | 8.19% | 3,034 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6224 | 100% | 2664 | 2574 | 2,664 | 2,664 | 7.19% | 0% | 0.00% | 0 | 30% | 2.16% | 799 | 35% | 2.52% | 932 | 35% | 2.52% | 932 |
| 6225 | 100% | 1938 | 1907 | 1,938 | 1,938 | 5.23% | 0% | 0.00% | 0 | 100% | 5.23% | 1,938 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6226 | 90% | 1637 | 1609 | 1,637 | 1,473 | 3.98% | 0% | 0.00% | 0 | 100% | 3.98% | 1,473 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6227 | 90% | 1703 | 1652 | 1,703 | 1,533 | 4.14% | 0% | 0.00% | 0 | 100% | 4.14% | 1,533 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6228 | 50% | 1819 | 1760 | 1,819 | 910 | 2.46% | 0% | 0.00% | 0 | 100% | 2.46% | 910 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6231 | 100% | 384 | 382 | 384 | 384 | 1.04% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6232 | 90% | 714 | 699 | 714 | 643 | 1.74% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6241 | 45% | 2616 | 2531 | 2,616 | 1,177 | 3.18% | 100% | 3.18% | 1,177 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6242 | 100% | 2044 | 2020 | 2,044 | 2,044 | 5.52% | 50% | 2.76% | 1,022 | 50% | 2.76% | 1,022 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6243 | 100% | 2138 | 2078 | 2,138 | 2,138 | 5.77% | 50% | 2.88% | 1,069 | 50% | 2.88% | 1,069 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6251 | 20% | 1987 | 1944 | 1,987 | 397 | 1.07% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6252 | 100% | 1403 | 1373 | 1,403 | 1,403 | 3.79% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6253 | 100% | 1478 | 2183 | 1,478 | 1,478 | 3.99% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6262 | 95% | 124 | 117 | 124 | 118 | 0.32% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 20% | 0.06% | 24 |
| | | 51,359 | 37,055 | 100.00% | | | 4,132 | 11.15% | | 11,778 | 31.79% | | 932 | 2.52% | | 956 | 2.58% | |

Trip Distribution Table**Andalucia, Tract 6 WALMART STORE (Montano / Coors)**Data Analysis Subzone Population Data for determination of Local Trip Distribution for Proposed**Walmart Store Trips**

2015 and 2025 Data Taken from Mid-Region Council of Governments

2035 Socioeconomic Forecasts by Data Analysis Subzones for the Mid-Region of New Mexico

| DASZ # | % Sub Area in Study | | | | | | (CN) Coors Blvd North | | (LE) La Orilla Rd East | | | (MPE) Montano Plaza East | | | (WN) Winterhaven Rd North | | | (4N) Fourth St North | | | (ME) Montano Rd East | | | | | | |
|--------------------------------|---------------------|-----------------|-----------------|--------------------------------------|---------------------|--------------------|--------------------------|------------------------|---------------------------|-------------|------------------------|-----------------------------|-------------|------------------------|------------------------------|-------------|------------------------|-------------------------|-------------|------------------------|-------------------------|-------------|------------------------|------------|-------------|------------------------|-----|
| | | 2015 Population | 2025 Population | Interpolated 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 | % Utilizing | % Population Utilizing | Population | % Utilizing | % Population Utilizing | Population | % Utilizing | % Population Utilizing | |
| | | | | | | | 2015 | 2025 | 2015 | | | | | | | | | | | | | | | | | | |
| Boundary Specified on DASZ Map | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6002 | 10% | 1364 | 1380 | 1,364 | 136 | 0.26% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | |
| 6011 | 40% | 542 | 608 | 542 | 217 | 0.42% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | |
| 6012 | 65% | 954 | 942 | 954 | 620 | 1.19% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | |
| 6021 | 85% | 2238 | 2252 | 2,238 | 1,902 | 3.64% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | |
| 6032 | 20% | 651 | 629 | 651 | 130 | 0.25% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 100% | 0.25% | 130 |
| 6033 | 50% | 561 | 579 | 561 | 281 | 0.54% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.03% | 0 | 5% | 0.03% | 14 |
| 6034 | 100% | 449 | 479 | 449 | 449 | 0.86% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 95% | 0.82% | 427 | 5% | 0.04% | 22 |
| 6041 | 100% | 1162 | 1155 | 1,162 | 1,162 | 2.22% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 100% | 2.22% | 1,162 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6042 | 45% | 513 | 514 | 513 | 231 | 0.44% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 100% | 0.44% | 231 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6045 | 45% | 758 | 732 | 758 | 341 | 0.65% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 100% | 0.65% | 341 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6046 | 95% | 638 | 620 | 638 | 606 | 1.16% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 100% | 1.16% | 606 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6081 | 25% | 355 | 341 | 355 | 89 | 0.17% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 100% | 0.17% | 89 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6111 | 100% | 1333 | 1290 | 1,333 | 1,333 | 2.55% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6112 | 100% | 1157 | 1123 | 1,157 | 1,157 | 2.21% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6113 | 100% | 755 | 729 | 755 | 755 | 1.44% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6114 | 100% | 772 | 745 | 772 | 772 | 1.48% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6115 | 95% | 1400 | 1358 | 1,400 | 1,330 | 2.54% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6116 | 70% | 788 | 771 | 788 | 552 | 1.06% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6121 | 100% | 737 | 723 | 737 | 737 | 1.41% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 100% | 1.41% | 737 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6122 | 100% | 868 | 847 | 868 | 868 | 1.66% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 100% | 1.66% | 868 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6123 | 100% | 868 | 850 | 868 | 868 | 1.66% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6124 | 100% | 833 | 804 | 833 | 833 | 1.59% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 100% | 1.59% | 833 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6125 | 100% | 150 | 141 | 150 | 150 | 0.29% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 100% | 0.29% | 150 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6131 | 100% | 610 | 595 | 610 | 610 | 1.17% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 100% | 1.17% | 610 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6132 | 100% | 772 | 768 | 772 | 772 | 1.48% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 100% | 1.48% | 772 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6141 | 100% | 2181 | 2179 | 2,181 | 2,181 | 4.17% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6142 | 100% | 550 | 621 | 550 | 550 | 1.05% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 100% | 1.05% | 550 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6153 | 5% | 1640 | 1589 | 1,640 | 82 | 0.16% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | | | | | | | |

Trip Distribution Table**Andalucia, Tract 6 WALMART STORE (Montano / Coors)**Data Analysis Subzone Population Data for determination of Local Trip Distribution for Proposed **Walmart Store Trip**

2015 and 2025 Data Taken from Mid-Region Council of Governments

2035 Socioeconomic Forecasts by Data Analysis Subzones for the Mid-Region of New Mexico

| DASZ # | % Sub Area in Study | | | | (4S) Fourth St South | | | (SE) Sevilla Ave East | | | (WE) Western Trail East | | | (CS) Coors Blvd South | | | (WW) Western Trail West | | | (SW) Sevilla Ave West | | | | |
|--------------------------------|---------------------|-----------------|-----------------|--------------------------------------|----------------------|--------------------|-------------|------------------------|------------|-------------|-------------------------|------------|-------------|------------------------|------------|-------------|-------------------------|------------|-------------|------------------------|------------|-------------|------------------------|-----|
| | | 2015 Population | 2025 Population | Interpolated 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 | % Utilizing | % Population Utilizing | Population | % Utilizing | % Population Utilizing | |
| | | 2015 | 2025 | 2015 | | | | | | | | | | | | | | | | | | | | |
| Boundary Specified on DASZ Map | | | | | | | | | | | | | | | | | | | | | | | | |
| 6002 | 10% | 1364 | 1380 | 1,364 | 136 | 0.26% | 100% | 0.26% | 136 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6011 | 40% | 542 | 608 | 542 | 217 | 0.42% | 100% | 0.42% | 217 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6012 | 65% | 954 | 942 | 954 | 620 | 1.19% | 100% | 1.19% | 620 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6021 | 85% | 2238 | 2252 | 2,238 | 1,902 | 3.64% | 100% | 3.64% | 1,902 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6032 | 20% | 651 | 629 | 651 | 130 | 0.25% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6033 | 50% | 561 | 579 | 561 | 281 | 0.54% | 95% | 0.51% | 267 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6034 | 100% | 449 | 479 | 449 | 449 | 0.86% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6041 | 100% | 1162 | 1155 | 1,162 | 1,162 | 2.22% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6042 | 45% | 513 | 514 | 513 | 231 | 0.44% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6045 | 45% | 758 | 732 | 758 | 341 | 0.65% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6046 | 95% | 638 | 620 | 638 | 606 | 1.16% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6081 | 25% | 355 | 341 | 355 | 89 | 0.17% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6111 | 100% | 1333 | 1290 | 1,333 | 1,333 | 2.55% | 100% | 2.55% | 1,333 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6112 | 100% | 1157 | 1123 | 1,157 | 1,157 | 2.21% | 100% | 2.21% | 1,157 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6113 | 100% | 755 | 729 | 755 | 755 | 1.44% | 100% | 1.44% | 755 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6114 | 100% | 772 | 745 | 772 | 772 | 1.48% | 100% | 1.48% | 772 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6115 | 95% | 1400 | 1358 | 1,400 | 1,330 | 2.54% | 100% | 2.54% | 1,330 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6116 | 70% | 788 | 771 | 788 | 552 | 1.06% | 100% | 1.06% | 552 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6121 | 100% | 737 | 723 | 737 | 737 | 1.41% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6122 | 100% | 868 | 847 | 868 | 868 | 1.66% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6123 | 100% | 868 | 850 | 868 | 868 | 1.66% | 100% | 1.66% | 868 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6124 | 100% | 833 | 804 | 833 | 833 | 1.59% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6125 | 100% | 150 | 141 | 150 | 150 | 0.29% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6131 | 100% | 610 | 595 | 610 | 610 | 1.17% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6132 | 100% | 772 | 768 | 772 | 772 | 1.48% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6141 | 100% | 2181 | 2179 | 2,181 | 2,181 | 4.17% | 100% | 4.17% | 2,181 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6142 | 100% | 550 | 621 | 550 | 550 | 1.05% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6153 | 5% | 1640 | 1589 | 1,640 | 82 | 0.16% | 100% | 0.16% | 82 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6211 | 100% | 2469 | 2384 | 2,469 | 2,469 | 4.72% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 50% | 2.36% | 1,235 | 15% | 0.71% | 370 |
| 6212 | 25% | 2378 | 2434 | 2,378 | 595 | 1.14% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 85% | 0.97% | 506 | 15% | 0.17% | 89 | 0% | 0.00% | 0 |
| 6213 | 55% | 731 | 718 | 731 | 402 | 0.77% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 50% | 0.38% | 201 | 50% | 0.38% | 201 | 0% | 0.00% | 0 |
| 6221 | 55% | 2555 | 2512 | 2,555 | 1,405 | 2.69% | 0% | 0.00% | | | | | | | | | | | | | | | | |

Trip Distribution Table
Andalucia, Tract 6 WALMART STORE (Montano / Coors)

Data Analysis Subzone Population Data for determination of Local Trip Distribution for Proposed **Walmart Store Trip**

2015 and 2025 Data Taken from Mid-Region Council of Governments
 2035 Socioeconomic Forecasts by Data Analysis Subzones for the Mid-Region of New Mexico

| DASZ # | % Sub Area in Study | | | | | | (DW) Dellyne Ave West | | (MW) Montano Rd West | | (MPW) Montano Plaza West | | (LW) La Orilla Rd West | | |
|--------------------------------|---------------------|-----------------|-----------------|--------------------------------------|---------------------|--------------------|--------------------------|------------------------|-------------------------|-------------|-----------------------------|------------|---------------------------|------------------------|------------|
| | | 2015 Population | 2025 Population | Interpolated Population for the Year | Population in Study | Percent Population | % Utilizing | % Population Utilizing | Population | % Utilizing | % Population Utilizing | Population | % Utilizing | % Population Utilizing | Population |
| | | 2015 | 2025 | 2015 | | | | | | | | | | | |
| Boundary Specified on DASZ Map | | | | | | | | | | | | | | | |
| 6002 | 10% | 1364 | 1380 | 1,364 | 136 | 0.26% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6011 | 40% | 542 | 608 | 542 | 217 | 0.42% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6012 | 65% | 954 | 942 | 954 | 620 | 1.19% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6021 | 85% | 2238 | 2252 | 2,238 | 1,902 | 3.64% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6032 | 20% | 651 | 629 | 651 | 130 | 0.25% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6033 | 50% | 561 | 579 | 561 | 281 | 0.54% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6034 | 100% | 449 | 479 | 449 | 449 | 0.86% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6041 | 100% | 1162 | 1155 | 1,162 | 1,162 | 2.22% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6042 | 45% | 513 | 514 | 513 | 231 | 0.44% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6045 | 45% | 758 | 732 | 758 | 341 | 0.65% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6046 | 95% | 638 | 620 | 638 | 606 | 1.16% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6081 | 25% | 355 | 341 | 355 | 89 | 0.17% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6111 | 100% | 1333 | 1290 | 1,333 | 1,333 | 2.55% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6112 | 100% | 1157 | 1123 | 1,157 | 1,157 | 2.21% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6113 | 100% | 755 | 729 | 755 | 755 | 1.44% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6114 | 100% | 772 | 745 | 772 | 772 | 1.48% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6115 | 95% | 1400 | 1358 | 1,400 | 1,330 | 2.54% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6116 | 70% | 788 | 771 | 788 | 552 | 1.06% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6121 | 100% | 737 | 723 | 737 | 737 | 1.41% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6122 | 100% | 868 | 847 | 868 | 868 | 1.66% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6123 | 100% | 868 | 850 | 868 | 868 | 1.66% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6124 | 100% | 833 | 804 | 833 | 833 | 1.59% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6125 | 100% | 150 | 141 | 150 | 150 | 0.29% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6131 | 100% | 610 | 595 | 610 | 610 | 1.17% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6132 | 100% | 772 | 768 | 772 | 772 | 1.48% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6141 | 100% | 2181 | 2179 | 2,181 | 2,181 | 4.17% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6142 | 100% | 550 | 621 | 550 | 550 | 1.05% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6153 | 5% | 1640 | 1589 | 1,640 | 82 | 0.16% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6211 | 100% | 2469 | 2384 | 2,469 | 2,469 | 4.72% | 35% | 1.65% | 864 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6212 | 25% | 2378 | 2434 | 2,378 | 595 | 1.14% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6213 | 55% | 731 | 718 | 731 | 402 | 0.77% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6221 | 55% | 2555 | 2512 | 2,555 | 1,405 | 2.69% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6222 | 100% | 3194 | 3144 | 3,194 | 3,194 | 6.11% | 0% | 0.00% | 0 | 100% | 6.11% | 3,194 | 0% | 0.00% | 0 |
| 6223 | 85% | 996 | 962 | 996 | 847 | 1.62% | 0% | 0.00% | 0 | 100% | 1.62% | 847 | 0% | 0.00% | 0 |
| 6224 | 100% | 2664 | 2574 | 2,664 | 2,664 | 5.10% | 0% | 0.00% | 0 | 30% | 1.53% | 799 | 35% | 1.78% | 932 |
| 6225 | 100% | 1938 | 1907 | 1,938 | 1,938 | 3.71% | 0% | 0.00% | 0 | 100% | 3.71% | 1,938 | 0% | 0.00% | 0 |
| 6226 | 100% | 1637 | 1609 | 1,637 | 1,637 | 3.13% | 0% | 0.00% | 0 | 100% | 3.13% | 1,637 | 0% | 0.00% | 0 |
| 6227 | 100% | 1703 | 1652 | 1,703 | 1,703 | 3.26% | 0% | 0.00% | 0 | 100% | 3.26% | 1,703 | 0% | 0.00% | 0 |
| 6228 | 100% | 1819 | 1760 | 1,819 | 1,819 | 3.48% | 0% | 0.00% | 0 | 100% | 3.48% | 1,819 | 0% | 0.00% | 0 |
| 6231 | 100% | 384 | 382 | 384 | 384 | 0.73% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6232 | 100% | 714 | 699 | 714 | 714 | 1.37% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6233 | 20% | 968 | 1069 | 968 | 194 | 0.37% | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6241 | 100% | 2616 | 2531 | 2,616 | 2,616 | 5.00% | 100% | 5.00% | 2,616 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6242 | 100 | | | | | | | | | | | | | | |

Trip Distribution Table

Andalucia, Tract 6 Update (Montano Rd / Coors Blvd)

Sub Area Employment Data:

For determination of Trip Distribution for Proposed **Residential Development Trips**

2015 and 2025 Data Taken from Mid-Region Council of Governments' 2035

Socioeconomic Forecasts by Data Analysis Subzones for the Mid-Region of New Mexico

| Sub Area I.D.# | % Sub Area in Study | | | | | | (CN) Coors Blvd North | | | (LE) La Orilla Rd East | | | (MPE) Montano Plaza East | | | (WN) Winterhaven Rd North | | | |
|----------------|---------------------|-----------------|-----------------|--------------------------------------|---------------------|-------------|-----------------------|-------------|------------------------|------------------------|-------------|------------------------|--------------------------|-------------|------------------------|---------------------------|-------------|------------------------|------------|
| | | 2015 Employment | 2025 Employment | Interpolated Employment for the Year | Employment in Study | Dist. (Mi.) | Employment / Distance | % Utilizing | % Population Utilizing | Population | % Utilizing | % Population Utilizing | Population | % Utilizing | % Population Utilizing | Population | % Utilizing | % Population Utilizing | Population |
| | | 2015 | 2025 | 2015 | | | | | | | | | | | | | | | |
| 1 | 100% | 12,703 | 25,695 | 12,703 | 12,703 | 11.1 | 1,144 | 100% | 1.58% | 1,144 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 2 | 100% | 18,552 | 22,669 | 18,552 | 18,552 | 6.8 | 2,728 | 100% | 3.78% | 2,728 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 3 | 100% | 1,515 | 1,695 | 1,515 | 1,515 | 7.4 | 205 | 100% | 0.28% | 205 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 4 | 100% | 3,740 | 4,392 | 3,740 | 3,740 | 14.8 | 253 | 100% | 0.35% | 253 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 5 | 100% | 16,599 | 25,368 | 16,599 | 16,599 | 3.5 | 4,743 | 70% | 4.60% | 3,320 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6 | 100% | 1,853 | 8,317 | 1,853 | 1,853 | 11 | 168 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 7* | 100% | 9,714 | 15,525 | 9,714 | 9,714 | 1.6 | 6,071 | 5% | 0.42% | 304 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 4% | 0.34% | 243 |
| 8 | 100% | 10,946 | 16,047 | 10,946 | 10,946 | 4.4 | 2,488 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 9 | 100% | 1,745 | 2,012 | 1,745 | 1,745 | 18.2 | 96 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 10 | 100% | 3,782 | 7,258 | 3,782 | 3,782 | 7.9 | 479 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 11 | 100% | 6,376 | 7,317 | 6,376 | 6,376 | 8.2 | 778 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 12 | 100% | 6,731 | 7,304 | 6,731 | 6,731 | 3.5 | 1,923 | 45% | 1.20% | 865 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 13 | 100% | 40,930 | 43,430 | 40,930 | 40,930 | 5.4 | 7,580 | 50% | 5.25% | 3,790 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 14 | 100% | 37,316 | 40,591 | 37,316 | 37,316 | 7.9 | 4,724 | 50% | 3.27% | 2,362 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 15 | 100% | 16,633 | 17,690 | 16,633 | 16,633 | 2.3 | 7,232 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 16 | 100% | 62,474 | 65,263 | 62,474 | 62,474 | 9.1 | 6,865 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 17 | 100% | 39,102 | 39,919 | 39,102 | 39,102 | 4.2 | 9,310 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 18 | 100% | 46,080 | 50,268 | 46,080 | 46,080 | 6.2 | 7,432 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 19 | 100% | 28,254 | 29,328 | 28,254 | 28,254 | 8.9 | 3,175 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 20 | 100% | 7,602 | 9,770 | 7,602 | 7,602 | 8.2 | 927 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 21 | 100% | 1,392 | 21,398 | 1,392 | 1,392 | 11.9 | 117 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 22 | 100% | 28,721 | 30,372 | 28,721 | 28,721 | 13.6 | 2,112 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 23 | 100% | 2,916 | 4,611 | 2,916 | 2,916 | 18 | 162 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 24 | 100% | 2,337 | 2,604 | 2,337 | 2,337 | 16.7 | 140 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 25 | 100% | 207 | 231 | 207 | 207 | 19.1 | 11 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 26 | 100% | 19,091 | 27,014 | 19,091 | 19,091 | 23.4 | 816 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 27 | 100% | 6,750 | 7,930 | 6,750 | 6,750 | 20.7 | 326 | 100% | 0.45% | 326 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 28 | 100% | 4,759 | 5,816 | 4,759 | 4,759 | 29.5 | 161 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 29 | 100% | 2,042 | 2,773 | 2,042 | 2,042 | 28 | 73 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |

* - Subarea in which the site is located.

Trip Distribution Table

Andalucia, Tract 6 Update (Montano Rd / Coors Blvd)

Sub Area Employment Data:

For determination of Trip Distribution for Proposed **Residential Development Trips**

2015 and 2025 Data Taken from Mid-Region Council of Governments' 2035

Socioeconomic Forecasts by Data Analysis Subzones for the Mid-Region of New Mexico

| Sub Area I.D.# | % Sub Area in Study | | | | | | (4N) Fourth St North | | | (ME) Montano Rd East | | | (4S) Fourth St South | | | (SE) Sevilla Ave East | | | |
|----------------|---------------------|-----------------|-----------------|--------------------------------------|---------------------|-------------|-----------------------|-------------|------------------------|----------------------|-------------|------------------------|----------------------|-------------|------------------------|-----------------------|-------------|------------------------|------------|
| | | 2015 Employment | 2025 Employment | Interpolated Employment for the Year | Employment in Study | Dist. (Mi.) | Employment / Distance | % Utilizing | % Population Utilizing | Population | % Utilizing | % Population Utilizing | Population | % Utilizing | % Population Utilizing | Population | % Utilizing | % Population Utilizing | Population |
| | | 2015 | 2025 | 2015 | | | | | | | | | | | | | | | |
| 1 | 100% | 12,703 | 25,695 | 12,703 | 12,703 | 11.1 | 1,144 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 2 | 100% | 18,552 | 22,669 | 18,552 | 18,552 | 6.8 | 2,728 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 3 | 100% | 1,515 | 1,695 | 1,515 | 1,515 | 7.4 | 205 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 4 | 100% | 3,740 | 4,392 | 3,740 | 3,740 | 14.8 | 253 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 5 | 100% | 16,599 | 25,368 | 16,599 | 16,599 | 3.5 | 4,743 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6 | 100% | 1,853 | 8,317 | 1,853 | 1,853 | 11 | 168 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 7* | 100% | 9,714 | 15,525 | 9,714 | 9,714 | 1.6 | 6,071 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 8 | 100% | 10,946 | 16,047 | 10,946 | 10,946 | 4.4 | 2,488 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 9 | 100% | 1,745 | 2,012 | 1,745 | 1,745 | 18.2 | 96 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 10 | 100% | 3,782 | 7,258 | 3,782 | 3,782 | 7.9 | 479 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 11 | 100% | 6,376 | 7,317 | 6,376 | 6,376 | 8.2 | 778 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 12 | 100% | 6,731 | 7,304 | 6,731 | 6,731 | 3.5 | 1,923 | 25% | 0.67% | 481 | 15% | 0.40% | 288 | 15% | 0.40% | 288 | 0% | 0.00% | 0 |
| 13 | 100% | 40,930 | 43,430 | 40,930 | 40,930 | 5.4 | 7,580 | 0% | 0.00% | 0 | 50% | 5.25% | 3,790 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 14 | 100% | 37,316 | 40,591 | 37,316 | 37,316 | 7.9 | 4,724 | 0% | 0.00% | 0 | 50% | 3.27% | 2,362 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 15 | 100% | 16,633 | 17,690 | 16,633 | 16,633 | 2.3 | 7,232 | 0% | 0.00% | 0 | 15% | 1.50% | 1,085 | 50% | 5.01% | 3,616 | 0% | 0.00% | 0 |
| 16 | 100% | 62,474 | 65,263 | 62,474 | 62,474 | 9.1 | 6,865 | 0% | 0.00% | 0 | 50% | 4.75% | 3,433 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 17 | 100% | 39,102 | 39,919 | 39,102 | 39,102 | 4.2 | 9,310 | 0% | 0.00% | 0 | 20% | 2.58% | 1,862 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 18 | 100% | 46,080 | 50,268 | 46,080 | 46,080 | 6.2 | 7,432 | 0% | 0.00% | 0 | 20% | 2.06% | 1,486 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 19 | 100% | 28,254 | 29,328 | 28,254 | 28,254 | 8.9 | 3,175 | 0% | 0.00% | 0 | 50% | 2.20% | 1,587 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 20 | 100% | 7,602 | 9,770 | 7,602 | 7,602 | 8.2 | 927 | 0% | 0.00% | 0 | 50% | 0.64% | 464 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 21 | 100% | 1,392 | 21,398 | 1,392 | 1,392 | 11.9 | 117 | 0% | 0.00% | 0 | 50% | 0.08% | 58 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 22 | 100% | 28,721 | 30,372 | 28,721 | 28,721 | 13.6 | 2,112 | 0% | 0.00% | 0 | 50% | 1.46% | 1,056 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 23 | 100% | 2,916 | 4,611 | 2,916 | 2,916 | 18 | 162 | 0% | 0.00% | 0 | 50% | 0.11% | 81 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 24 | 100% | 2,337 | 2,604 | 2,337 | 2,337 | 16.7 | 140 | 0% | 0.00% | 0 | 50% | 0.10% | 70 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 25 | 100% | 207 | 231 | 207 | 207 | 19.1 | 11 | 0% | 0.00% | 0 | 50% | 0.01% | 5 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 26 | 100% | 19,091 | 27,014 | 19,091 | 19,091 | 23.4 | 816 | 0% | 0.00% | 0 | 50% | 0.56% | 408 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 27 | 100% | 6,750 | 7,930 | 6,750 | 6,750 | 20.7 | 326 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 28 | 100% | 4,759 | 5,816 | 4,759 | 4,759 | 29.5 | 161 | 0% | 0.00% | 0 | 50% | 0.11% | 81 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 29 | 100% | 2,042 | 2,773 | 2,042 | 2,042 | 28 | 73 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| | | 440,862 | 542,607 | 440,862 | 440,862 | 72,237 | | 0.67% | 481 | 0.67% | 25.08% | 18,116 | 25.08% | 5.40% | 3,904 | 5.40% | 0.00% | 0 | 0.00% |

* - Subarea in which the site is located.

Trip Distribution Table

Andalucia, Tract 6 Update (Montano Rd / Coors Blvd)

Sub Area Employment Data:

For determination of Trip Distribution for Proposed **Residential Development Trips**

2015 and 2025 Data Taken from Mid-Region Council of Governments' 2035

Socioeconomic Forecasts by Data Analysis Subzones for the Mid-Region of New Mexico

| Sub Area I.D.# | % Sub Area in Study | | | | | | (WE) Western Trail East | | | (CS) Coors Blvd South | | | (WW) Western Trail West | | | (SW) Sevilla Ave West | | | |
|----------------|---------------------|-----------------|-----------------|--------------------------------------|---------------------|-------------|-------------------------|-------------|------------------------|-----------------------|-------------|------------------------|-------------------------|-------------|------------------------|-----------------------|-------------|------------------------|------------|
| | | 2015 Employment | 2025 Employment | Interpolated Employment for the Year | Employment in Study | Dist. (Mi.) | Employment / Distance | % Utilizing | % Population Utilizing | Population | % Utilizing | % Population Utilizing | Population | % Utilizing | % Population Utilizing | Population | % Utilizing | % Population Utilizing | Population |
| | | 2015 | 2025 | 2015 | | | | | | | | | | | | | | | |
| 1 | 100% | 12,703 | 25,695 | 12,703 | 12,703 | 11.1 | 1,144 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 2 | 100% | 18,552 | 22,669 | 18,552 | 18,552 | 6.8 | 2,728 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 3 | 100% | 1,515 | 1,695 | 1,515 | 1,515 | 7.4 | 205 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 4 | 100% | 3,740 | 4,392 | 3,740 | 3,740 | 14.8 | 253 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 5 | 100% | 16,599 | 25,368 | 16,599 | 16,599 | 3.5 | 4,743 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 6 | 100% | 1,853 | 8,317 | 1,853 | 1,853 | 11 | 168 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 7* | 100% | 9,714 | 15,525 | 9,714 | 9,714 | 1.6 | 6,071 | 2% | 0.17% | 121 | 63% | 5.29% | 3,825 | 8% | 0.67% | 486 | 0% | 0.00% | 0 |
| 8 | 100% | 10,946 | 16,047 | 10,946 | 10,946 | 4.4 | 2,488 | 0% | 0.00% | 0 | 100% | 3.44% | 2,488 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 9 | 100% | 1,745 | 2,012 | 1,745 | 1,745 | 18.2 | 96 | 0% | 0.00% | 0 | 100% | 0.13% | 96 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 10 | 100% | 3,782 | 7,258 | 3,782 | 3,782 | 7.9 | 479 | 0% | 0.00% | 0 | 100% | 0.66% | 479 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 11 | 100% | 6,376 | 7,317 | 6,376 | 6,376 | 8.2 | 778 | 0% | 0.00% | 0 | 100% | 1.08% | 778 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 12 | 100% | 6,731 | 7,304 | 6,731 | 6,731 | 3.5 | 1,923 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 13 | 100% | 40,930 | 43,430 | 40,930 | 40,930 | 5.4 | 7,580 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 14 | 100% | 37,316 | 40,591 | 37,316 | 37,316 | 7.9 | 4,724 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 15 | 100% | 16,633 | 17,690 | 16,633 | 16,633 | 2.3 | 7,232 | 0% | 0.00% | 0 | 35% | 3.50% | 2,531 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 16 | 100% | 62,474 | 65,263 | 62,474 | 62,474 | 9.1 | 6,865 | 0% | 0.00% | 0 | 50% | 4.75% | 3,433 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 17 | 100% | 39,102 | 39,919 | 39,102 | 39,102 | 4.2 | 9,310 | 0% | 0.00% | 0 | 80% | 10.31% | 7,448 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 18 | 100% | 46,080 | 50,268 | 46,080 | 46,080 | 6.2 | 7,432 | 0% | 0.00% | 0 | 80% | 8.23% | 5,946 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 19 | 100% | 28,254 | 29,328 | 28,254 | 28,254 | 8.9 | 3,175 | 0% | 0.00% | 0 | 50% | 2.20% | 1,587 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 20 | 100% | 7,602 | 9,770 | 7,602 | 7,602 | 8.2 | 927 | 0% | 0.00% | 0 | 50% | 0.64% | 464 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 21 | 100% | 1,392 | 21,398 | 1,392 | 1,392 | 11.9 | 117 | 0% | 0.00% | 0 | 50% | 0.08% | 58 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 22 | 100% | 28,721 | 30,372 | 28,721 | 28,721 | 13.6 | 2,112 | 0% | 0.00% | 0 | 50% | 1.46% | 1,056 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 23 | 100% | 2,916 | 4,611 | 2,916 | 2,916 | 18 | 162 | 0% | 0.00% | 0 | 50% | 0.11% | 81 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 24 | 100% | 2,337 | 2,604 | 2,337 | 2,337 | 16.7 | 140 | 0% | 0.00% | 0 | 50% | 0.10% | 70 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 25 | 100% | 207 | 231 | 207 | 207 | 19.1 | 11 | 0% | 0.00% | 0 | 50% | 0.01% | 5 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 26 | 100% | 19,091 | 27,014 | 19,091 | 19,091 | 23.4 | 816 | 0% | 0.00% | 0 | 50% | 0.56% | 408 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 27 | 100% | 6,750 | 7,930 | 6,750 | 6,750 | 20.7 | 326 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 28 | 100% | 4,759 | 5,816 | 4,759 | 4,759 | 29.5 | 161 | 0% | 0.00% | 0 | 50% | 0.11% | 81 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| 29 | 100% | 2,042 | 2,773 | 2,042 | 2,042 | 28 | 73 | 0% | 0.00% | 0 | 100% | 0.10% | 73 | 0% | 0.00% | 0 | 0% | 0.00% | 0 |
| | | 440,862 | 542,607 | 440,862 | 440,862 | 72,237 | | 0.17% | 121 | 0.17% | 42.78% | 42.78% | 30,905 | 0.67% | 486 | 0.67% | 0 | 0.00% | 0 |
| | | | | | | | | | | | | | | | | | | 0.00% | |

* - Subarea in which the site is located.

Trip Distribution Table

Andalucia, Tract 6 Update (Montano Rd / Coors Blvd)

Sub Area Employment Data:

For determination of Trip Distribution for Proposed **Residential Development Trips**

2015 and 2025 Data Taken from Mid-Region Council of Governments' 2035

Socioeconomic Forecasts by Data Analysis Subzones for the Mid-Region of New Mexico

| Sub Area I.D.# | % Sub Area in Study | | | | | | | | (DW) Dellyne Ave West | | | (MW) Montano Rd West | | |
|----------------|---------------------|-----------------|-----------------|--------------------------------------|---------------------|-------------|-----------------------|-------------|------------------------|------------|-------------|------------------------|------------|--|
| | | 2015 Employment | 2025 Employment | Interpolated Employment for the Year | Employment in Study | Dist. (Mi.) | Employment / Distance | % Utilizing | % Population Utilizing | Population | % Utilizing | % Population Utilizing | Population | |
| | | | | | | | | 2015 | 2025 | | 0% | | | |
| 1 | 100% | 12,703 | 25,695 | 12,703 | 12,703 | 11.1 | 1,144 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | |
| 2 | 100% | 18,552 | 22,669 | 18,552 | 18,552 | 6.8 | 2,728 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | |
| 3 | 100% | 1,515 | 1,695 | 1,515 | 1,515 | 7.4 | 205 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | |
| 4 | 100% | 3,740 | 4,392 | 3,740 | 3,740 | 14.8 | 253 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | |
| 5 | 100% | 16,599 | 25,368 | 16,599 | 16,599 | 3.5 | 4,743 | 0% | 0.00% | 0 | 30% | 1.97% | 1,423 | |
| 6 | 100% | 1,853 | 8,317 | 1,853 | 1,853 | 11 | 168 | 0% | 0.00% | 0 | 100% | 0.23% | 168 | |
| 7* | 100% | 9,714 | 15,525 | 9,714 | 9,714 | 1.6 | 6,071 | 2% | 0.17% | 121 | 14% | 1.18% | 850 | |
| 8 | 100% | 10,946 | 16,047 | 10,946 | 10,946 | 4.4 | 2,488 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | |
| 9 | 100% | 1,745 | 2,012 | 1,745 | 1,745 | 18.2 | 96 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | |
| 10 | 100% | 3,782 | 7,258 | 3,782 | 3,782 | 7.9 | 479 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | |
| 11 | 100% | 6,376 | 7,317 | 6,376 | 6,376 | 8.2 | 778 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | |
| 12 | 100% | 6,731 | 7,304 | 6,731 | 6,731 | 3.5 | 1,923 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | |
| 13 | 100% | 40,930 | 43,430 | 40,930 | 40,930 | 5.4 | 7,580 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | |
| 14 | 100% | 37,316 | 40,591 | 37,316 | 37,316 | 7.9 | 4,724 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | |
| 15 | 100% | 16,633 | 17,690 | 16,633 | 16,633 | 2.3 | 7,232 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | |
| 16 | 100% | 62,474 | 65,263 | 62,474 | 62,474 | 9.1 | 6,865 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | |
| 17 | 100% | 39,102 | 39,919 | 39,102 | 39,102 | 4.2 | 9,310 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | |
| 18 | 100% | 46,080 | 50,268 | 46,080 | 46,080 | 6.2 | 7,432 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | |
| 19 | 100% | 28,254 | 29,328 | 28,254 | 28,254 | 8.9 | 3,175 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | |
| 20 | 100% | 7,602 | 9,770 | 7,602 | 7,602 | 8.2 | 927 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | |
| 21 | 100% | 1,392 | 21,398 | 1,392 | 1,392 | 11.9 | 117 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | |
| 22 | 100% | 28,721 | 30,372 | 28,721 | 28,721 | 13.6 | 2,112 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | |
| 23 | 100% | 2,916 | 4,611 | 2,916 | 2,916 | 18 | 162 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | |
| 24 | 100% | 2,337 | 2,604 | 2,337 | 2,337 | 16.7 | 140 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | |
| 25 | 100% | 207 | 231 | 207 | 207 | 19.1 | 11 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | |
| 26 | 100% | 19,091 | 27,014 | 19,091 | 19,091 | 23.4 | 816 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | |
| 27 | 100% | 6,750 | 7,930 | 6,750 | 6,750 | 20.7 | 326 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | |
| 28 | 100% | 4,759 | 5,816 | 4,759 | 4,759 | 29.5 | 161 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | |
| 29 | 100% | 2,042 | 2,773 | 2,042 | 2,042 | 28 | 73 | 0% | 0.00% | 0 | 0% | 0.00% | 0 | |
| | | 440,862 | 542,607 | 440,862 | 440,862 | | 72,237 | | | 0.17% | 121 | 0.17% | | |
| | | | | | | | | | | | 3.38% | 2,441 | | |
| | | | | | | | | | | | | 3.38% | | |

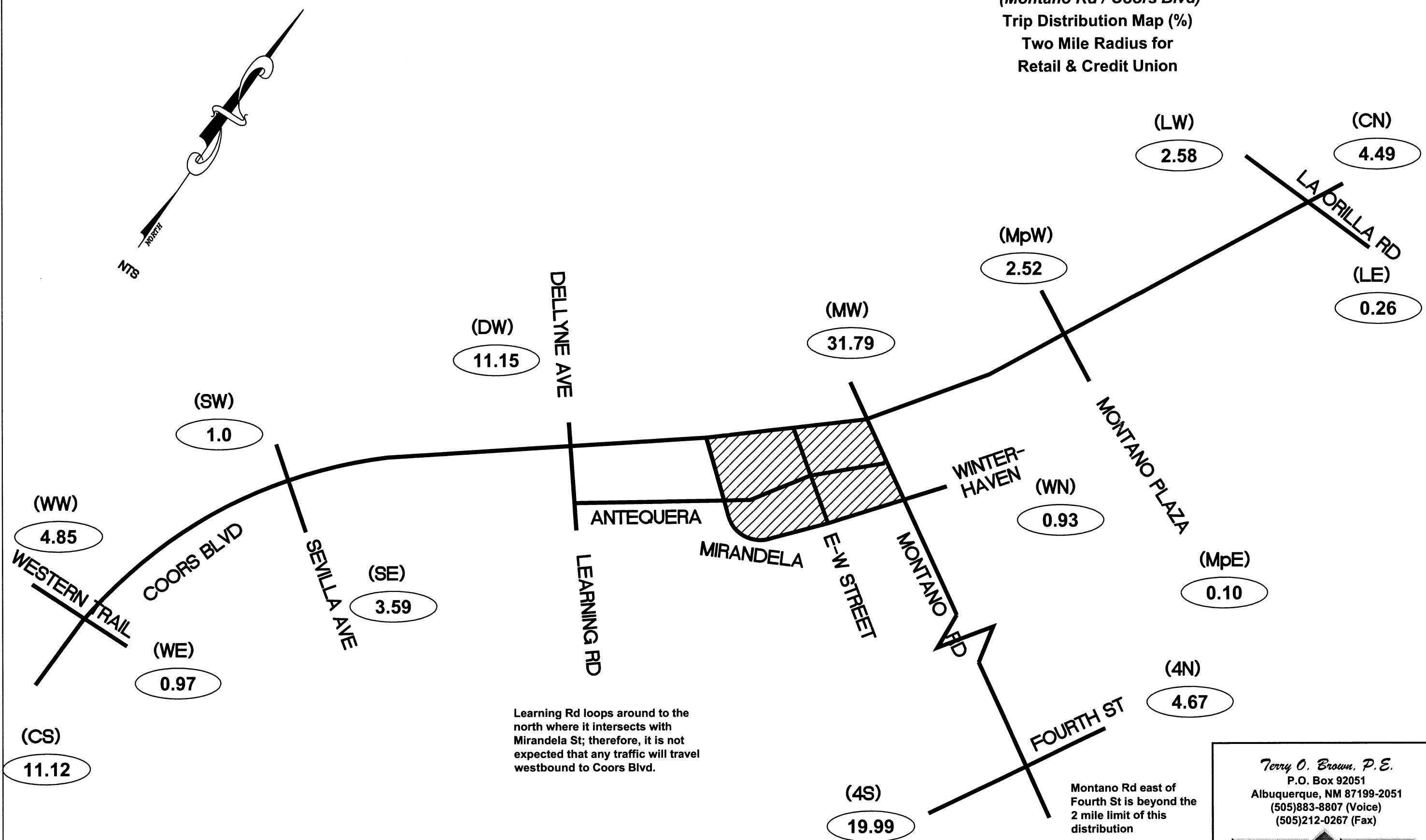
* - Subarea in which the site is located.

Walmart Development

(Montano Rd / Coors Blvd)

Trip Distribution Map (%)

Two Mile Radius for
Retail & Credit Union



Terry O. Brown, P.E.
P.O. Box 92051
Albuquerque, NM 87199-2051
(505)883-8807 (Voice)
(505)212-0267 (Fax)

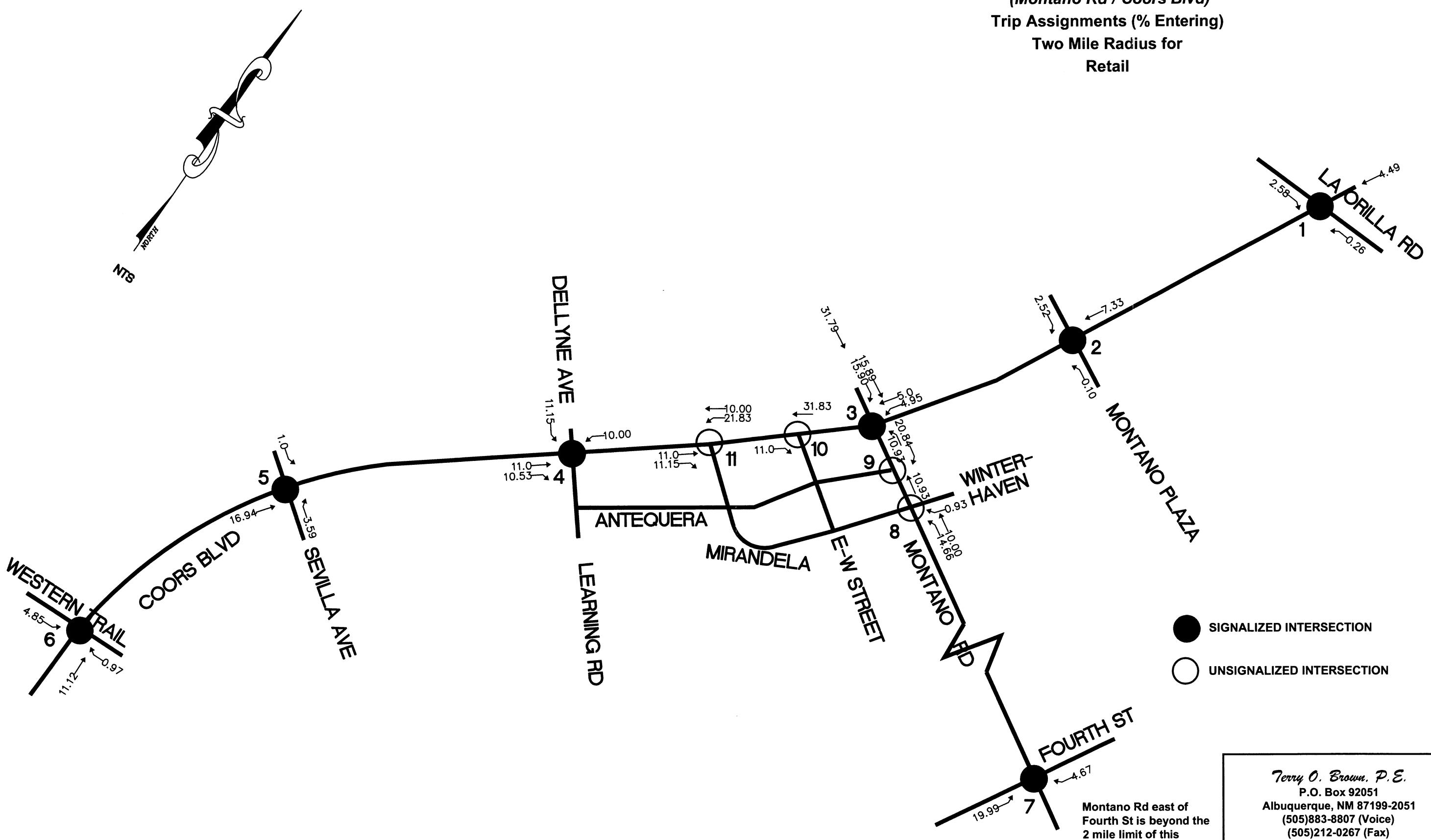
Walmart Development

(Montano Rd / Coors Blvd)

Trip Assignments (% Entering)

Two Mile Radius for

Retail



Terry O. Brown, P.E.
P.O. Box 92051
Albuquerque, NM 87199-2051
(505)883-8807 (Voice)
(505)212-0267 (Fax)

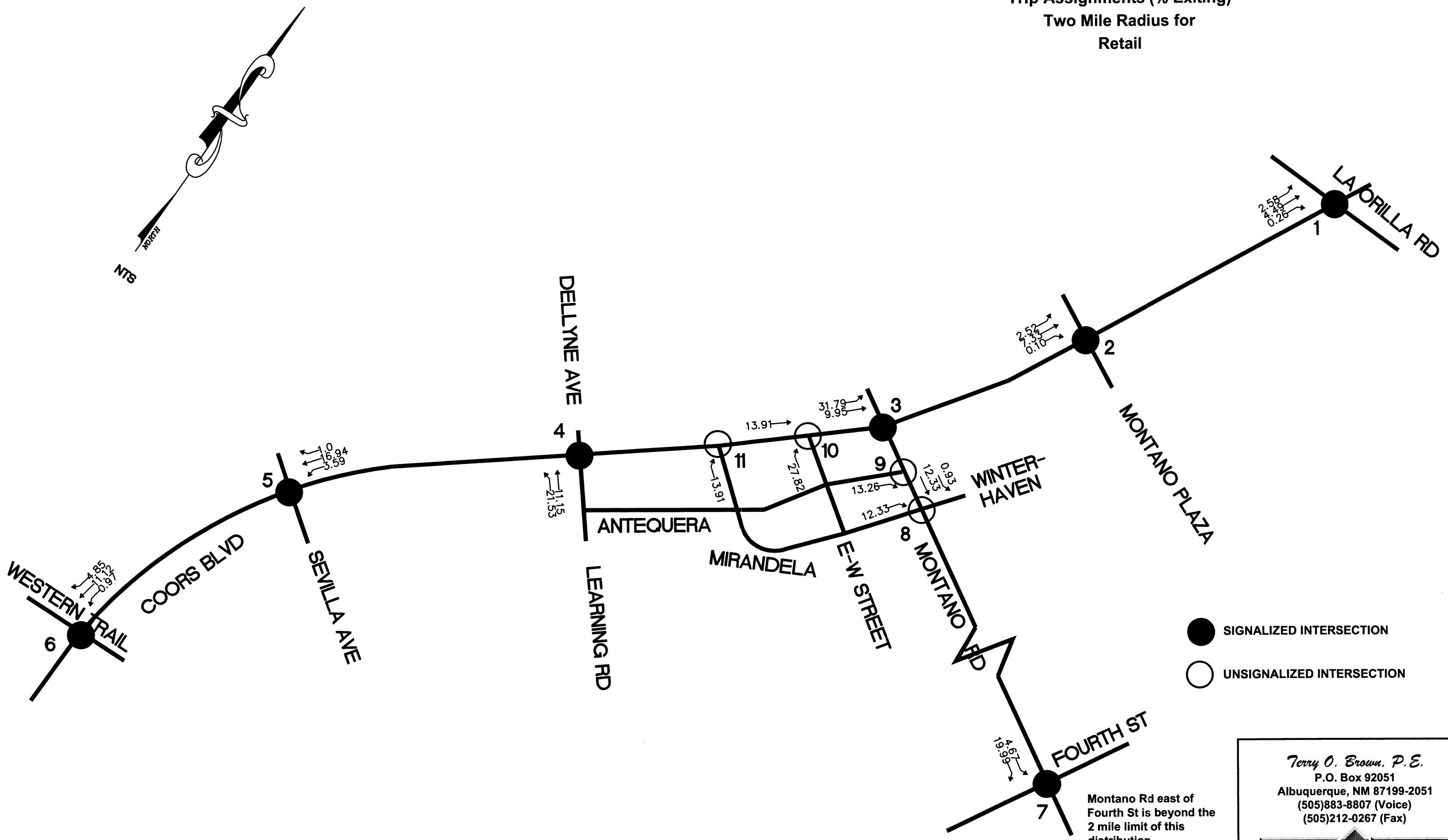
Walmart Development

(Montano Rd / Coors Blvd)

Trip Assignments (% Exiting)

Two Mile Radius for

Retail



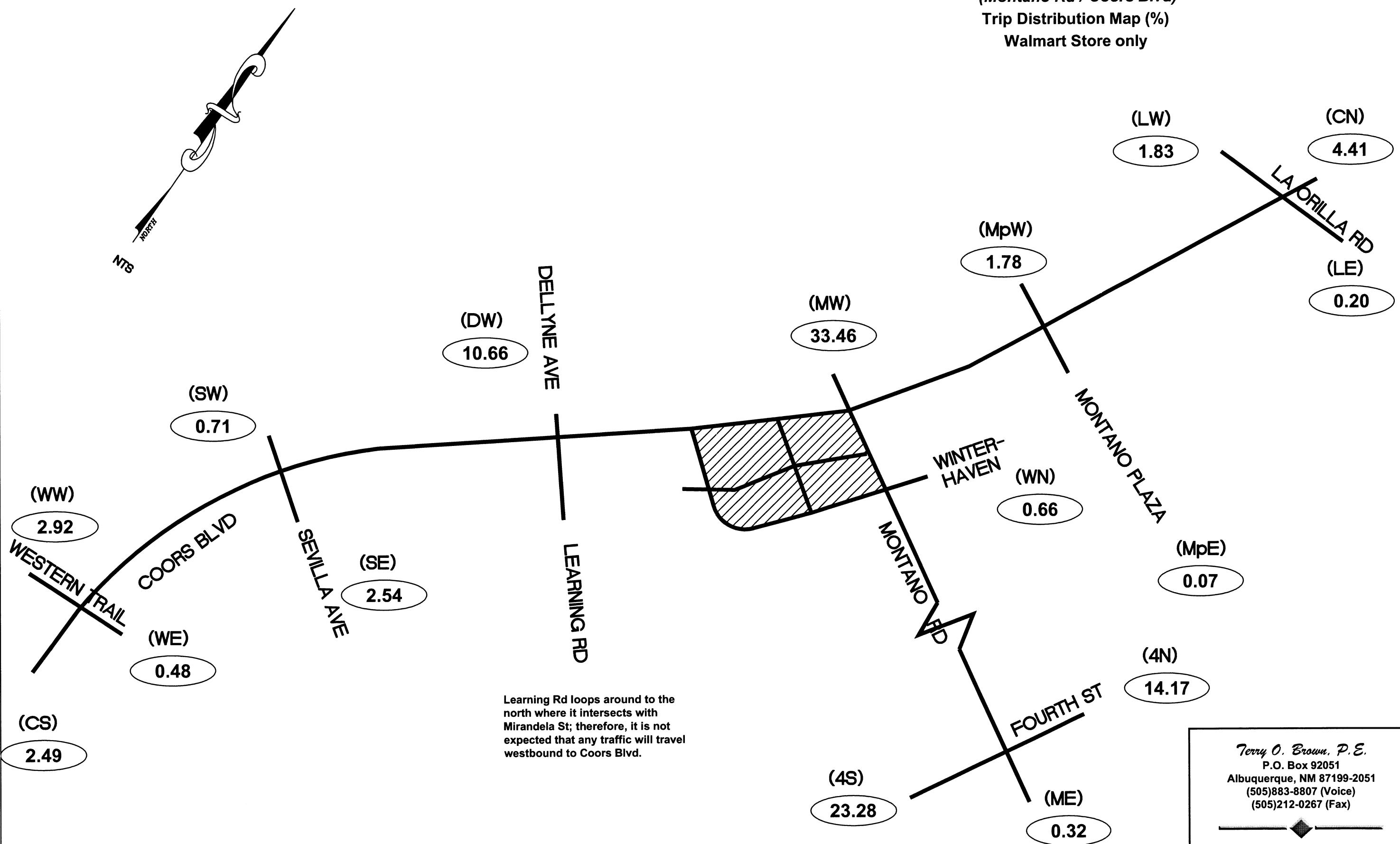
Terry O. Brown, P.E.
P.O. Box 92051
Albuquerque, NM 87199-2051
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Walmart Development

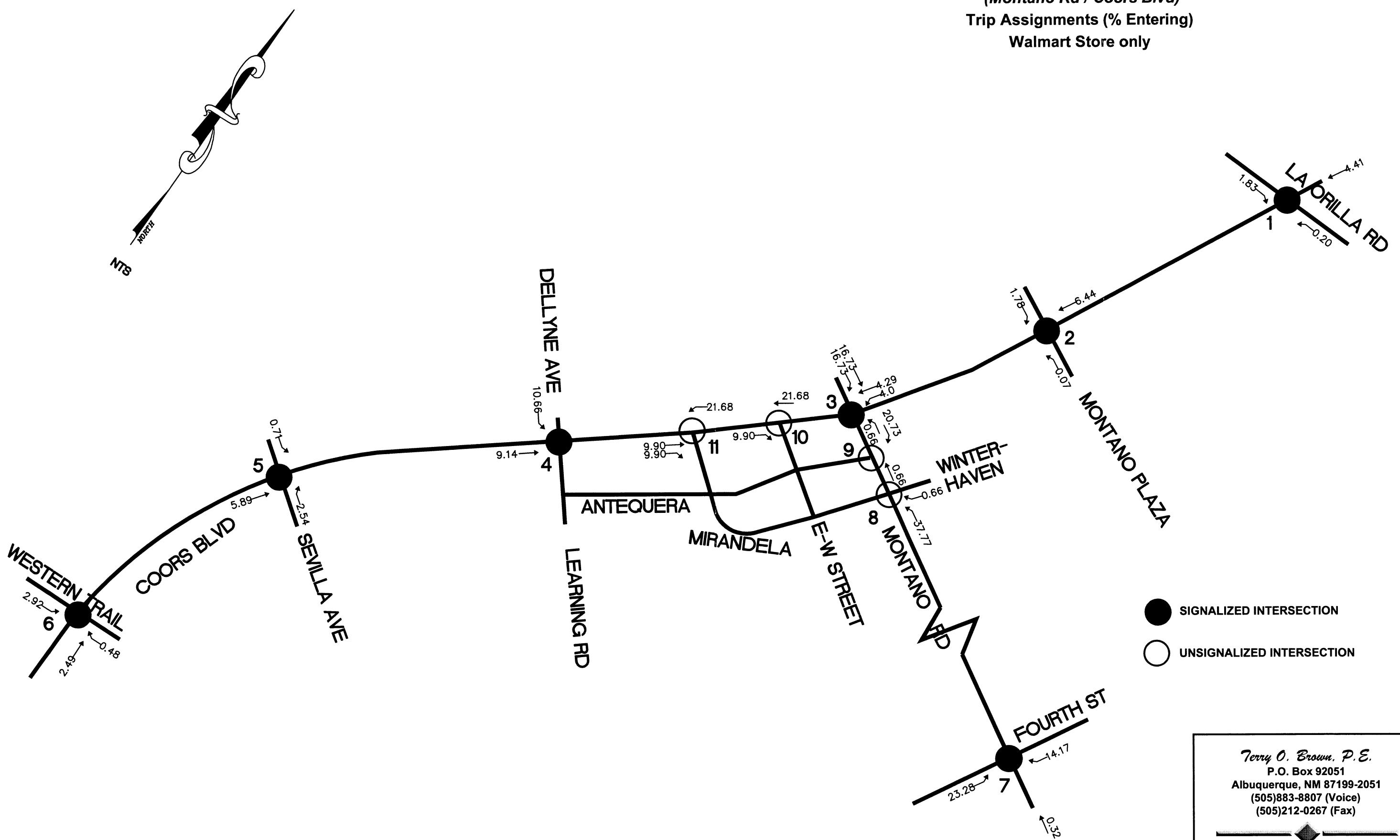
(Montano Rd / Coors Blvd)

Trip Distribution Map (%)

Walmart Store only



Walmart Development
 (Montano Rd / Coors Blvd)
 Trip Assignments (% Entering)
 Walmart Store only



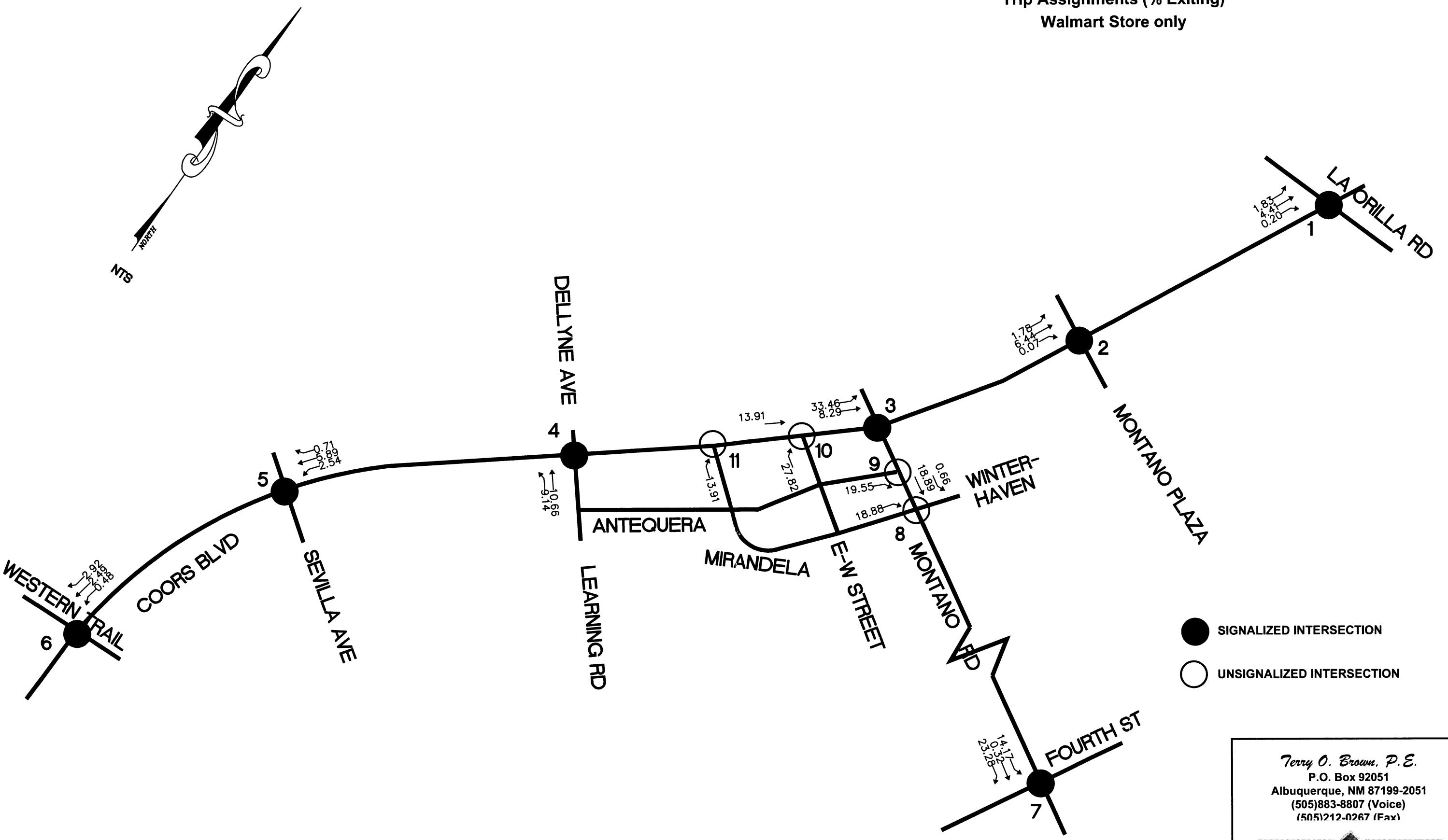
Terry O. Brown, P.E.
 P.O. Box 92051
 Albuquerque, NM 87199-2051
 (505)883-8807 (Voice)
 (505)212-0267 (Fax)

Walmart Development

(Montano Rd / Coors Blvd)

Trip Assignments (% Exiting)

Walmart Store only



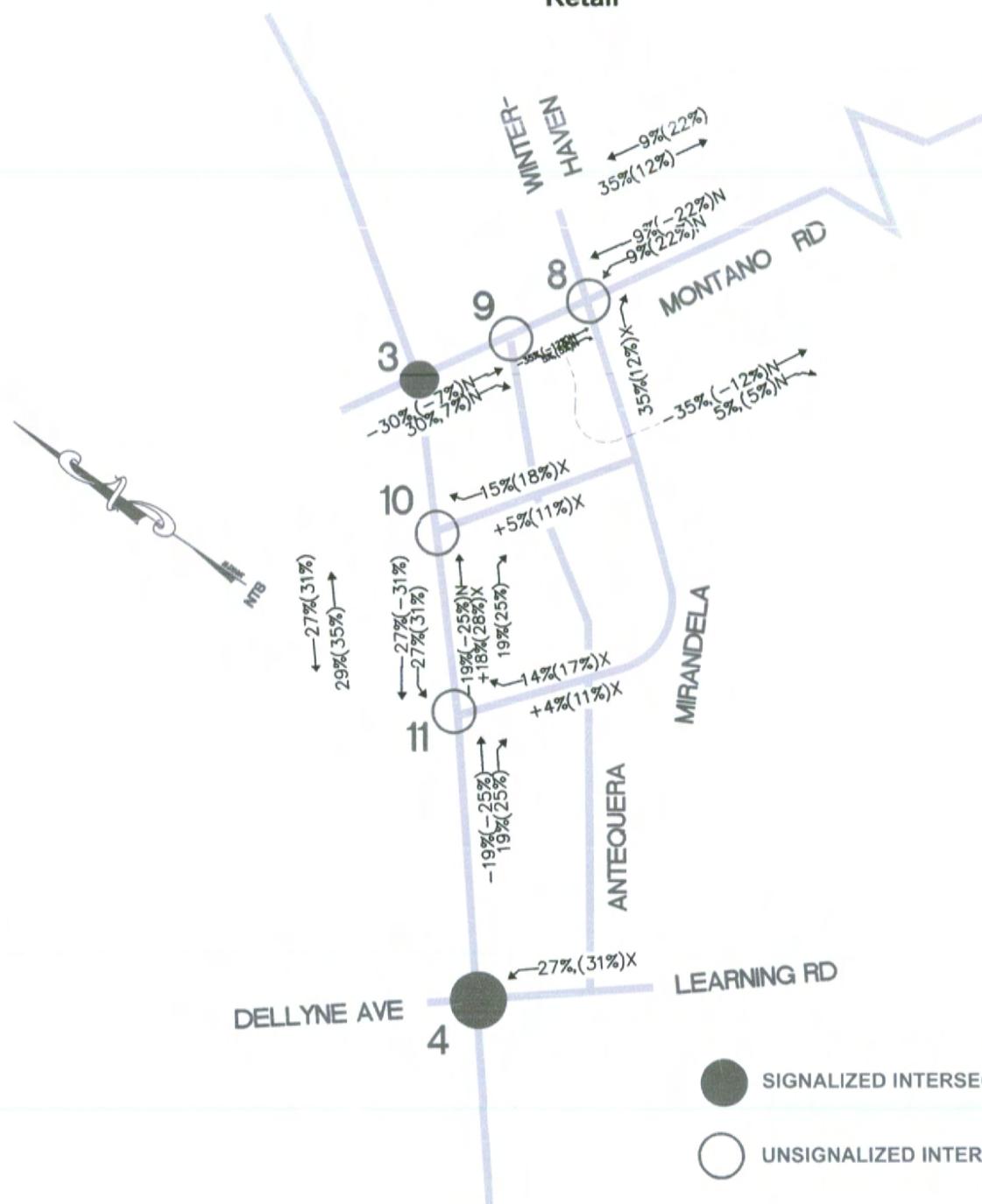
Terry O. Brown, P.E.
P.O. Box 92051
Albuquerque, NM 87199-2051
(505)883-8807 (Voice)
(505)212-0267 (Fax)

Walmart Development

(Montano Rd / Coors Blvd)

Pass-by Trips (%)

Retail



Montano Rd east of
Fourth St is beyond the
2 mile limit of this
distribution

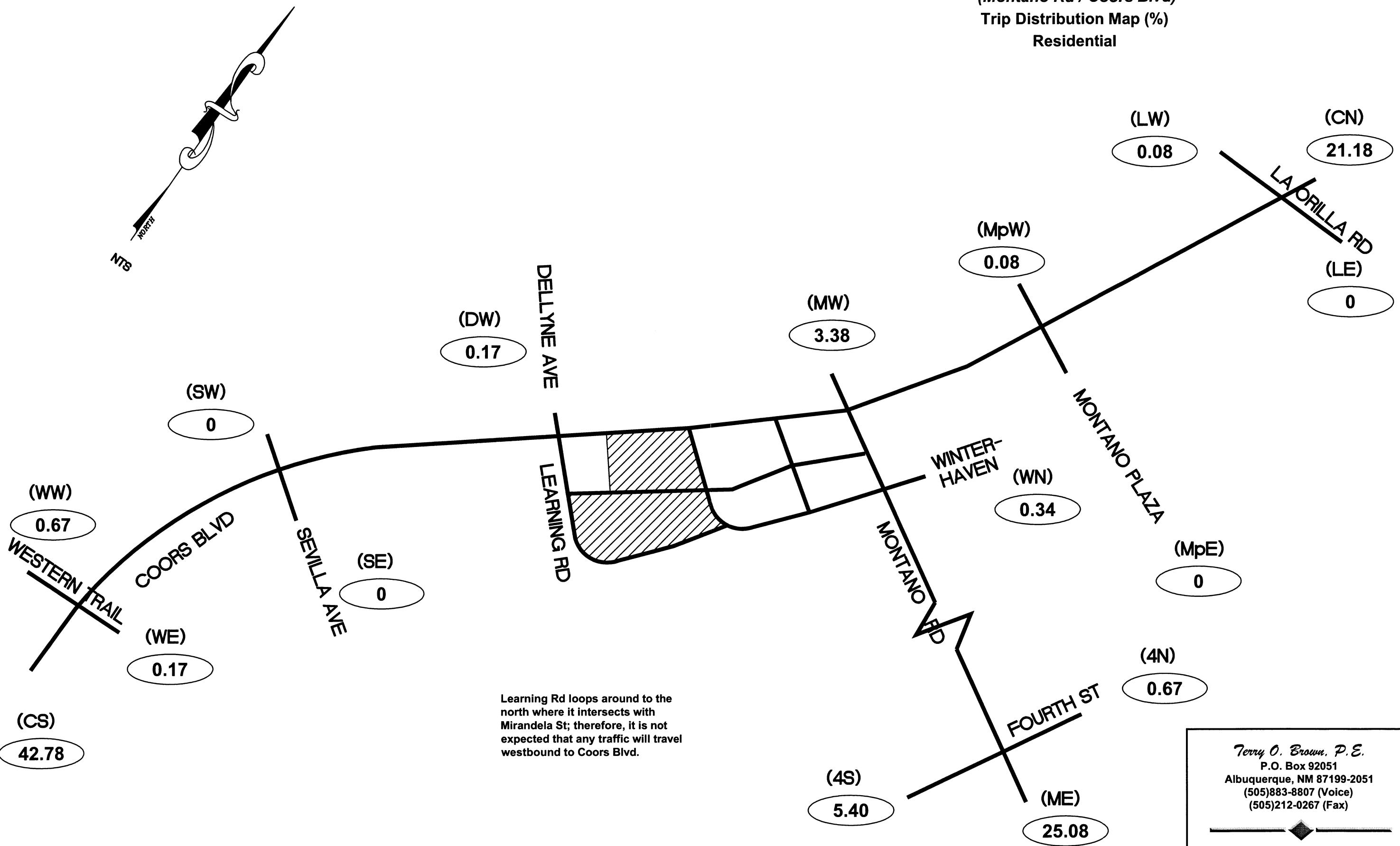
Terry O. Brown, P.E.
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Walmart Development

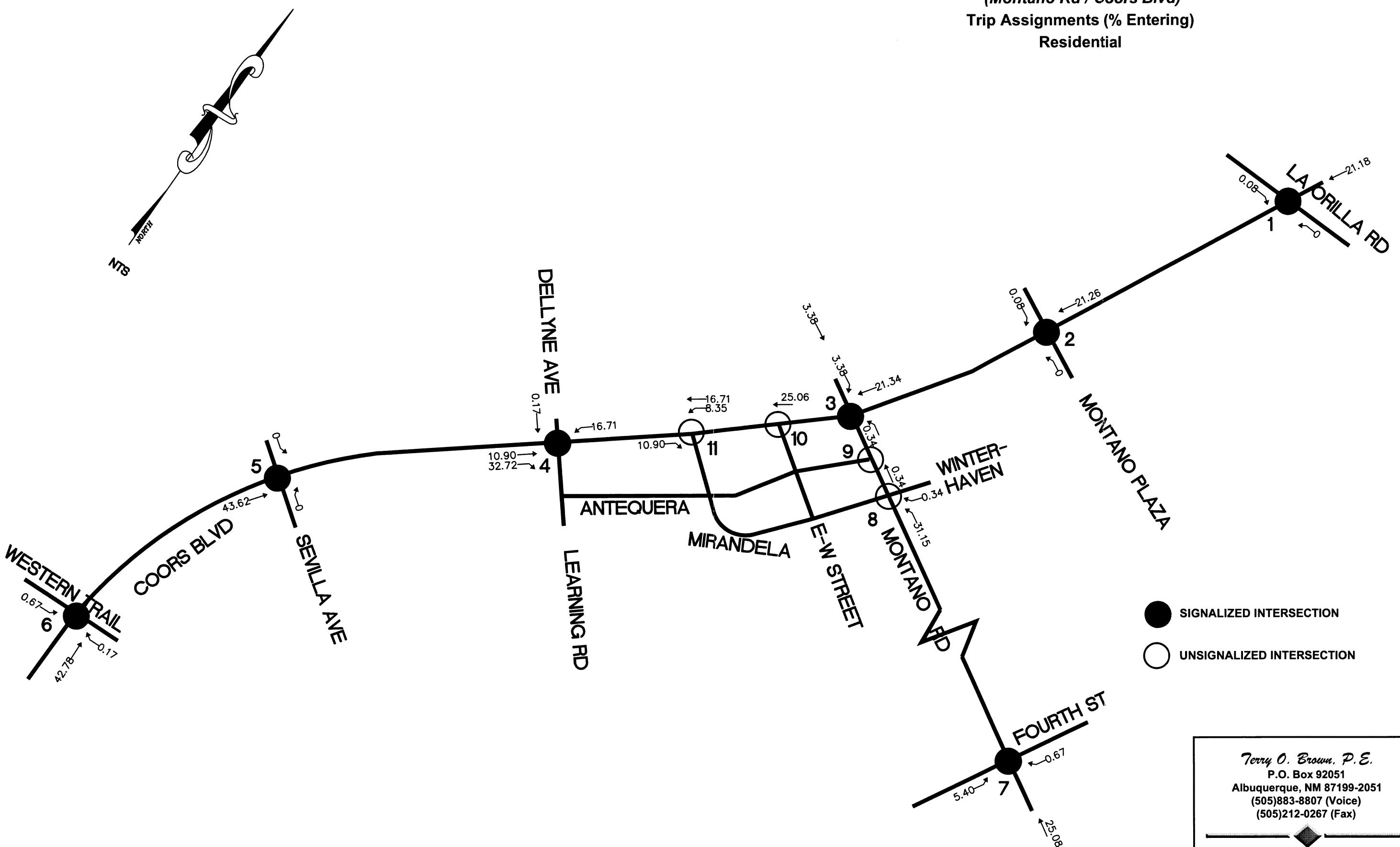
(Montano Rd / Coors Blvd)

Trip Distribution Map (%)

Residential



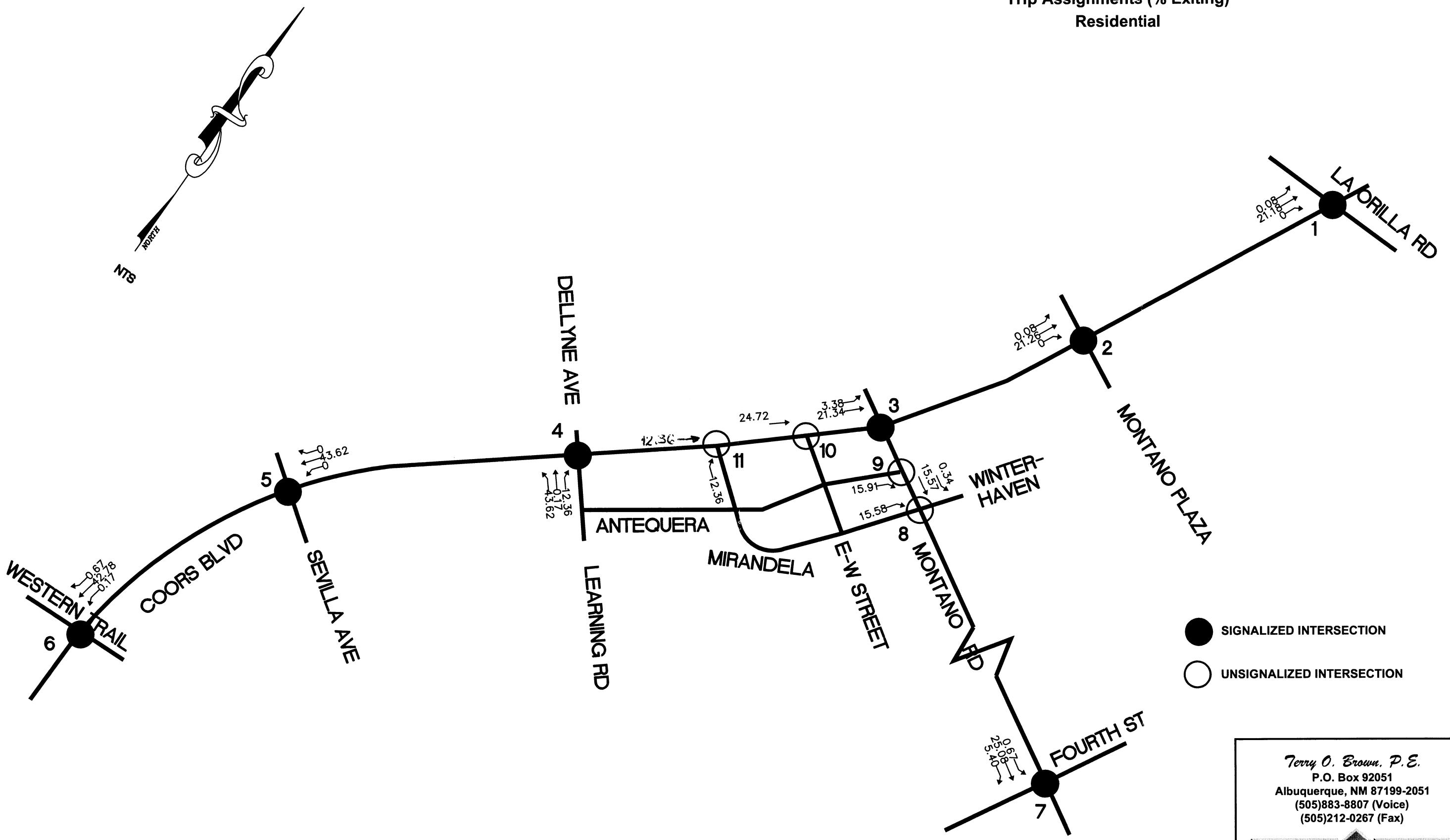
Walmart Development
 (Montano Rd / Coors Blvd)
 Trip Assignments (% Entering)
 Residential



● SIGNALIZED INTERSECTION
 ○ UNSIGNALIZED INTERSECTION

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Walmart Development
 (Montano Rd / Coors Blvd)
 Trip Assignments (% Exiting)
 Residential

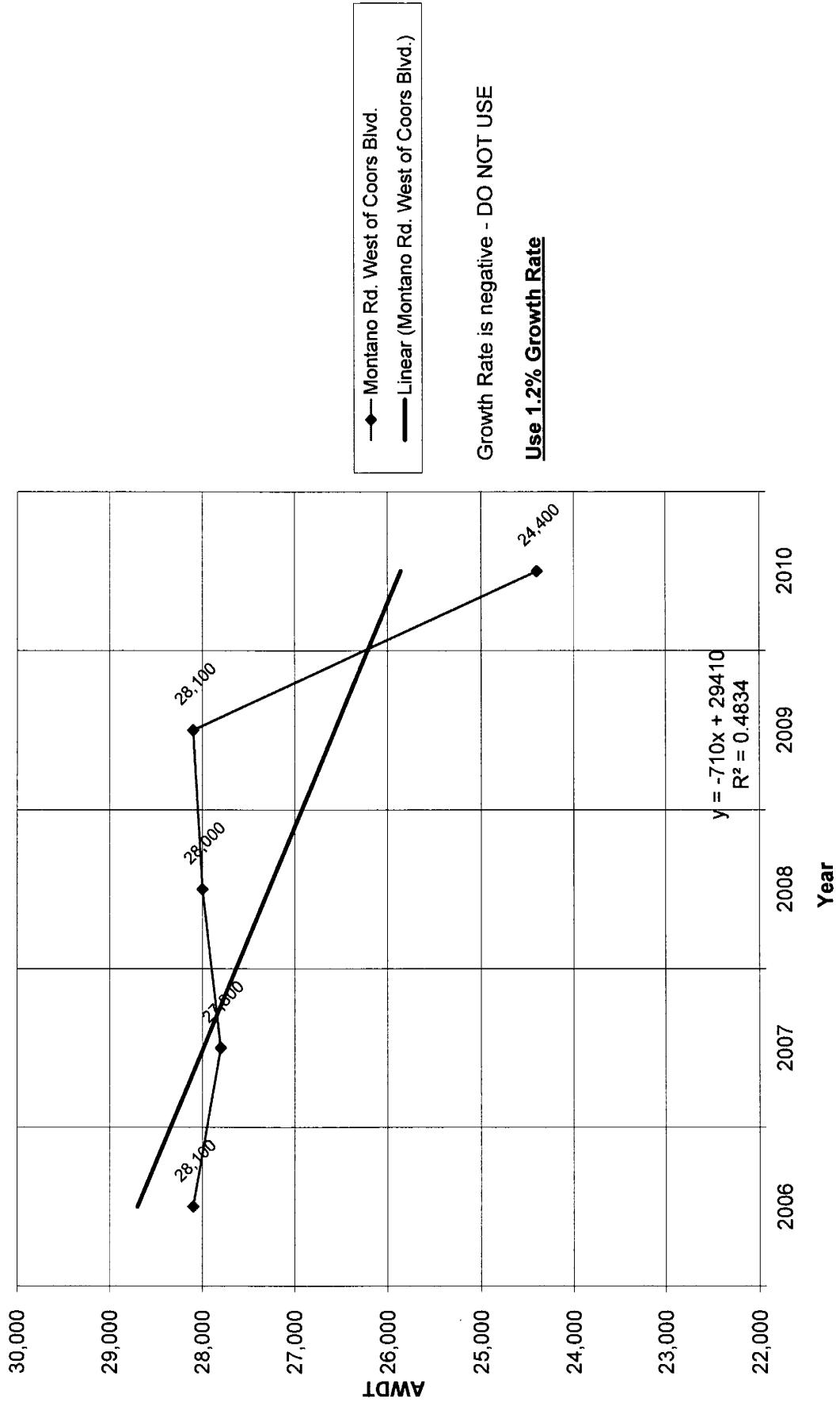


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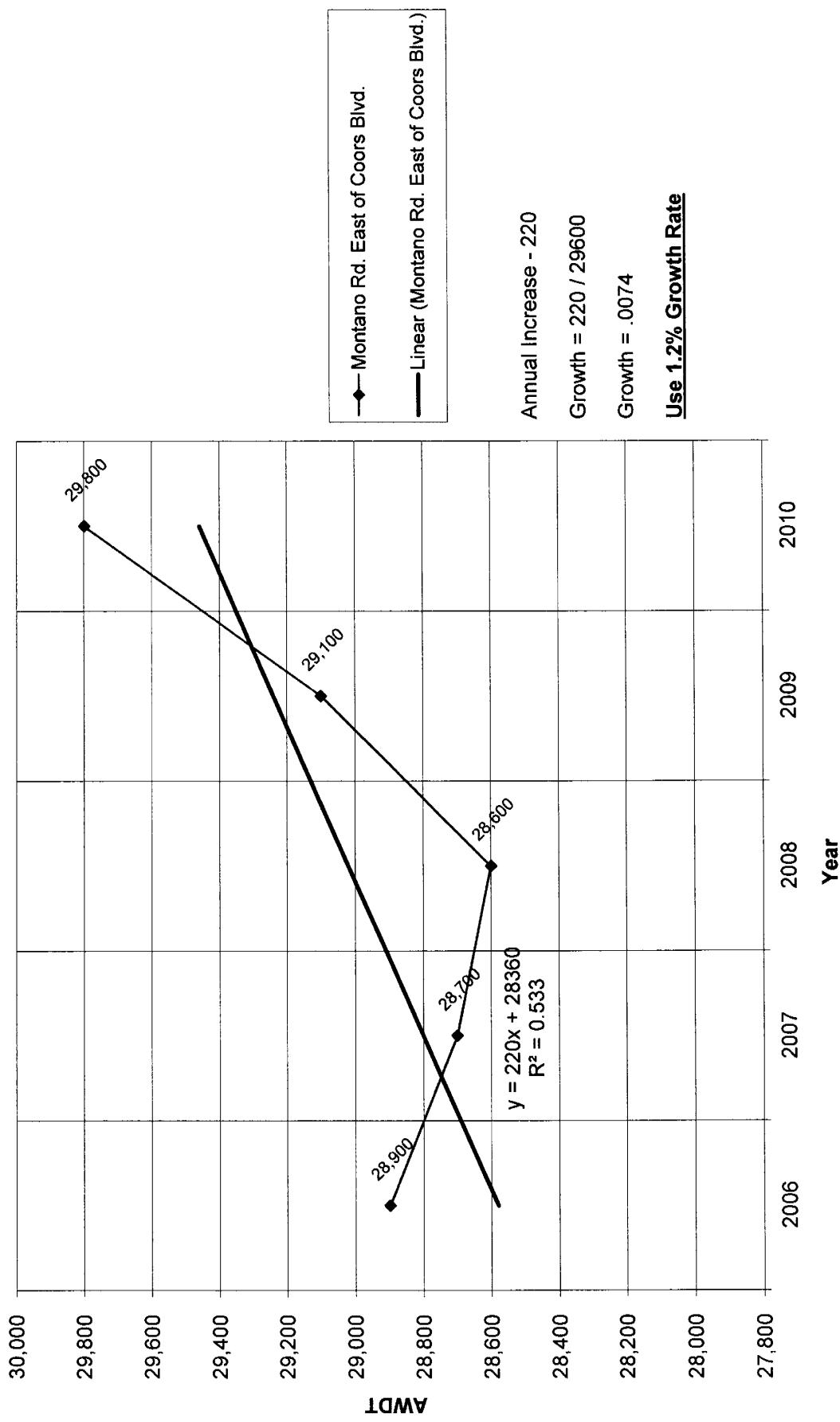
Andalucia, Tract 6 (Montano Rd. / Coors Blvd.)
Historic Growth Rate Table

| Traffic Flows from MRCOG Map | 2006 | 2007 | 2008 | 2009 | 2010 |
|-----------------------------------|--------|--------|--------|--------|--------|
| Montano Rd. West of Coors Blvd. | 28,100 | 27,800 | 28,000 | 28,100 | 24,400 |
| Montano Rd. East of Coors Blvd. | 28,900 | 28,700 | 28,600 | 29,100 | 29,800 |
| Coors Blvd. North of Montano Rd. | 42,800 | 43,900 | 44,900 | 39,000 | 38,900 |
| Coors Blvd. South of Montano Rd. | 45,600 | 46,800 | 56,900 | 57,100 | 57,100 |
| | | | | | |
| Dellyne Ave. West of Coors Blvd. | 3,900 | 4,500 | 4,500 | 5,600 | 5,600 |
| Learning Rd. East of Coors Blvd. | - | - | - | - | - |
| Coors Blvd. North of Dellyne Ave. | 45,600 | 46,800 | 56,900 | 57,100 | 57,100 |
| Coors Blvd. South of Dellyne Ave. | 43,500 | 44,600 | 55,200 | 55,400 | 46,500 |

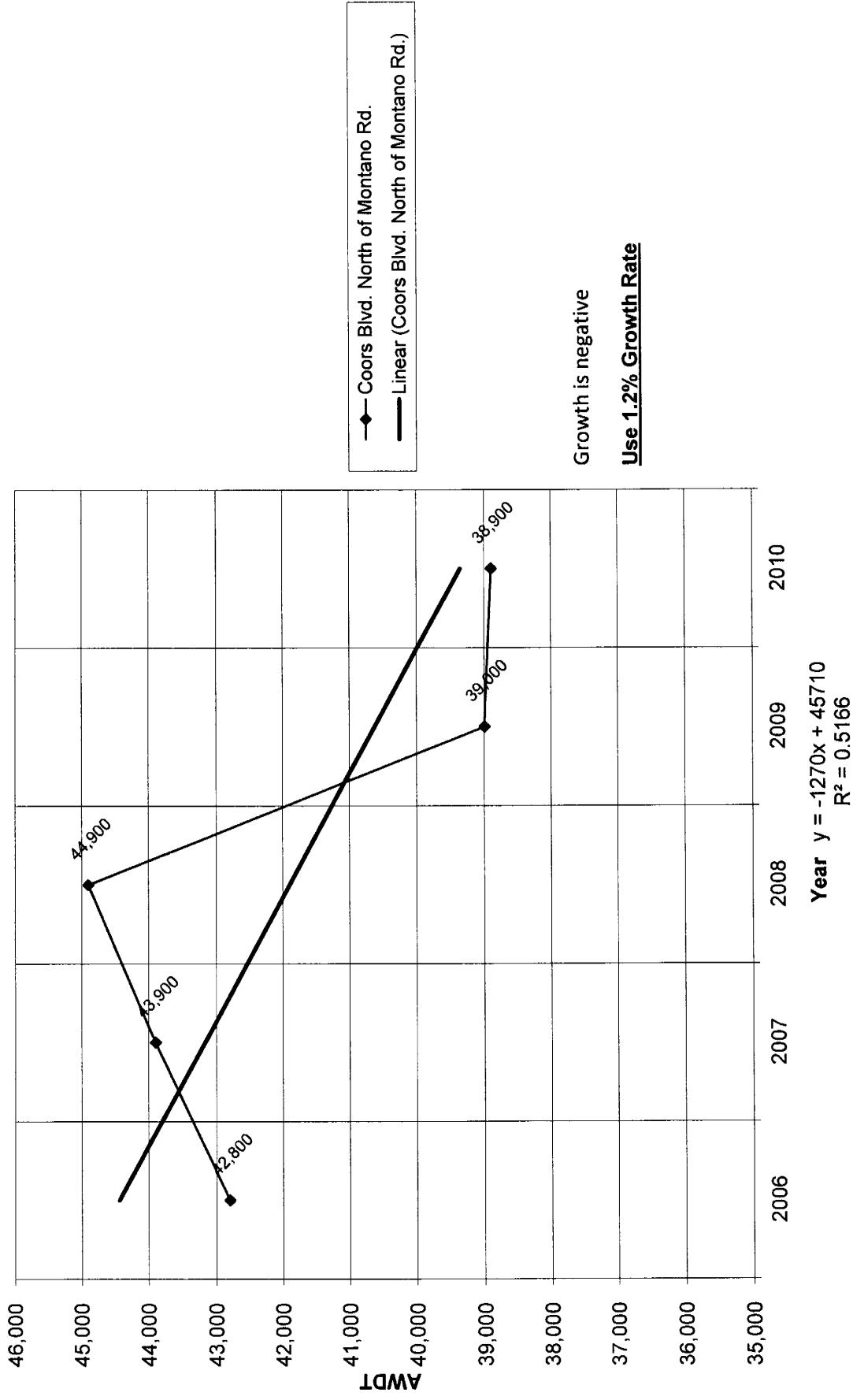
Historic Growth Chart Montano Rd. West of Coors Blvd. (2006-2010)



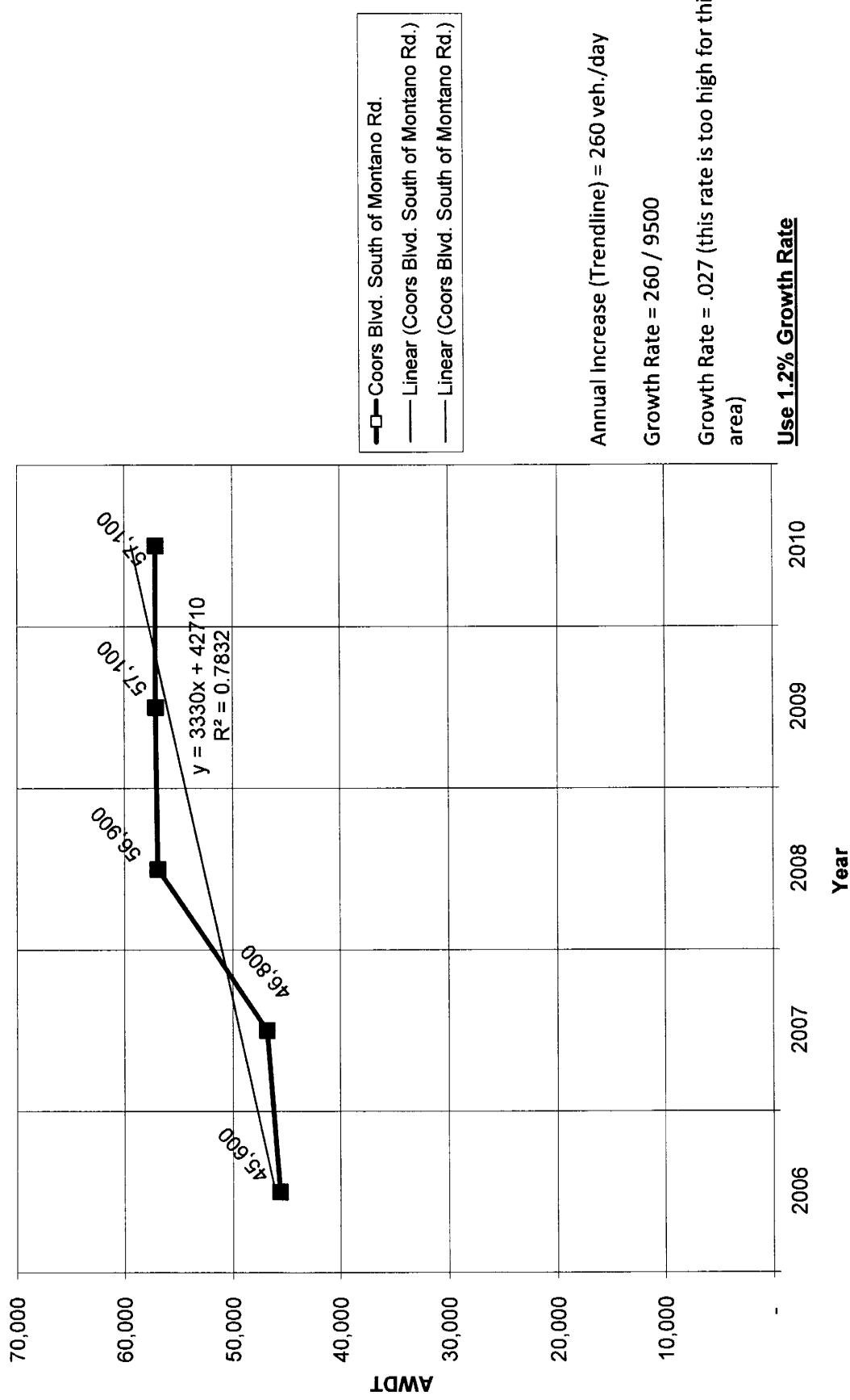
**Historic Growth Chart Montano Rd. East of Coors Blvd.
(2006-2010)**



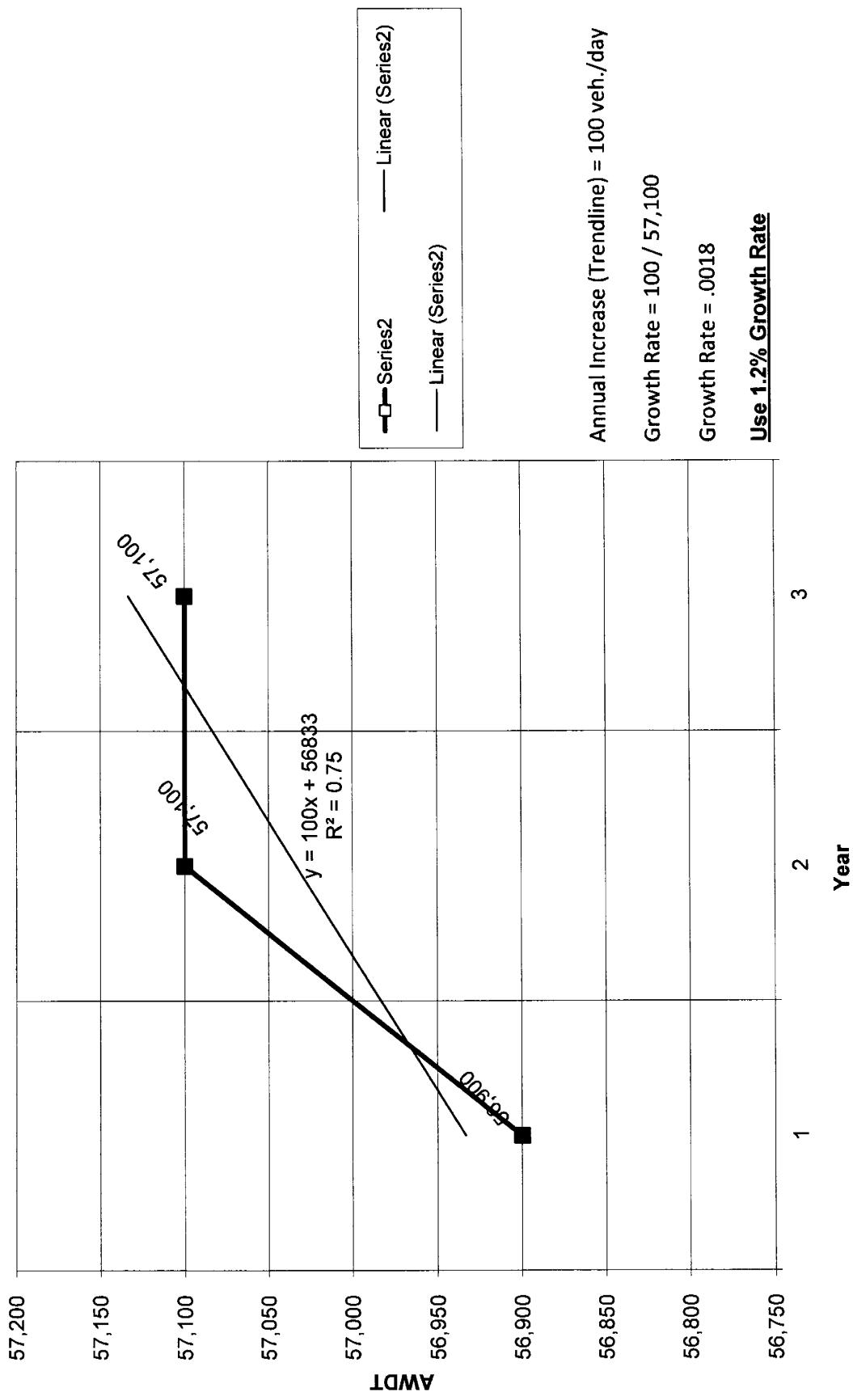
Historic Growth Chart Coors Blvd. North of Montano Rd. (2006-2010)



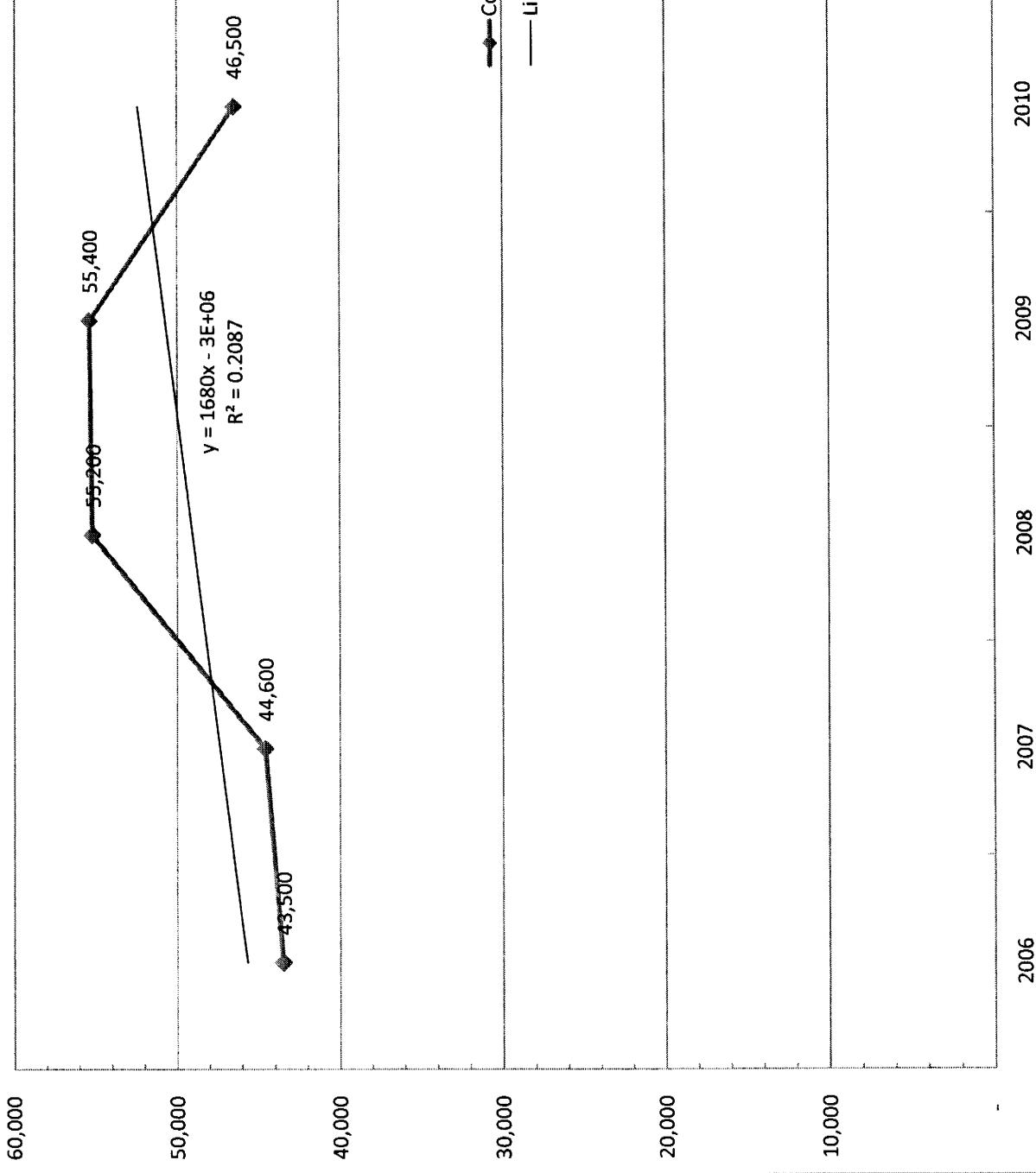
Historic Growth Chart Coors Blvd. South of Montano Rd. (2006-2010)



Historic Growth Chart Coors Blvd. South of Montano Rd. (2006-2010)



Coors Blvd. South of Dellyne Ave.



Andalucia Update (Montano Rd / Coors Blvd)

Projected Turning Movements SUMMARY
PROPOSED DEVELOPMENT (2015) - 100% Development

INTERSECTION:**Summary****Montano Rd / Coors Blvd**

(3) 2.0% Truck
Existing (2011)
2015 (NO BUILD - A.M.)
2015 (BUILD - A.M.)

| Eastbound (Montano Rd) | | | Westbound (Montano Rd) | | | Northbound (Coors Blvd) | | | Southbound (Coors Blvd) | | | PHF |
|------------------------|--------------|------------|------------------------|--------------|------------|-------------------------|--------------|------------|-------------------------|--------------|-----------|----------|
| Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | |
| 237 | 1,120 | 304 | 233 | 219 | 150 | 255 | 1,137 | 629 | 629 | 1,328 | 11 | |
| 248 | 1,185 | 330 | 245 | 229 | 157 | 282 | 1,196 | 659 | 659 | 1,398 | 12 | |
| 248 | 1,226 | 372 | 264 | 229 | 157 | 348 | 1,243 | 659 | 671 | 1,417 | 12 | |
| | | | | | | | | | | | | 0.91 PHF |
| Eastbound (Montano Rd) | | | Westbound (Montano Rd) | | | Northbound (Coors Blvd) | | | Southbound (Coors Blvd) | | | |
| Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | |
| 265 | 274 | 361 | 383 | 1,064 | 156 | 574 | 1,658 | 238 | 318 | 1,481 | 66 | |
| 278 | 304 | 395 | 402 | 1,114 | 163 | 640 | 1,748 | 249 | 333 | 1,562 | 69 | |
| 278 | 401 | 497 | 438 | 1,114 | 163 | 824 | 1,815 | 249 | 359 | 1,619 | 69 | |
| | | | | | | | | | | | | 0.92 PHF |

Existing (2011)
2015 (NO BUILD - P.M.)
2015 (BUILD - P.M.)

Dellyne Ave / Coors Blvd
(4) 2.0% Truck
Existing (2011)
2015 (NO BUILD - A.M.)
2015 (BUILD - A.M.)

| Eastbound (Dellyne Ave) | | | Westbound (Dellyne Ave) | | | Northbound (Coors Blvd) | | | Southbound (Coors Blvd) | | | PHF |
|-------------------------|-----------|------------|-------------------------|-----------|-----------|-------------------------|--------------|------------|-------------------------|--------------|------------|----------|
| Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | |
| 231 | 30 | 282 | 51 | 8 | 8 | 59 | 1,615 | 69 | 40 | 2,077 | 29 | |
| 242 | 39 | 296 | 63 | 13 | 18 | 62 | 1,693 | 88 | 52 | 2,177 | 30 | |
| 270 | 39 | 296 | 136 | 34 | 78 | 62 | 1,723 | 116 | 75 | 2,177 | 30 | |
| | | | | | | | | | | | | 0.89 PHF |
| Eastbound (Dellyne Ave) | | | Westbound (Dellyne Ave) | | | Northbound (Coors Blvd) | | | Southbound (Coors Blvd) | | | |
| Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | |
| 109 | 8 | 101 | 37 | 7 | 11 | 337 | 2,382 | 20 | 7 | 1,971 | 141 | |
| 114 | 20 | 106 | 66 | 21 | 38 | 353 | 2,496 | 44 | 21 | 2,066 | 148 | |
| 179 | 20 | 106 | 236 | 82 | 70 | 353 | 2,571 | 121 | 75 | 2,066 | 148 | |
| | | | | | | | | | | | | 0.97 PHF |

Existing (2011)
2015 (NO BUILD - P.M.)
2015 (BUILD - P.M.)

Montano Rd / Fourth St

(7) 2.0% Truck
Existing (2011)
2015 (NO BUILD - A.M.)
2015 (BUILD - A.M.)

| Eastbound (Montano Rd) | | | Westbound (Montano Rd) | | | Northbound (Fourth St) | | | Southbound (Fourth St) | | | PHF |
|------------------------|--------------|------------|------------------------|--------------|------------|------------------------|------------|------------|------------------------|------------|--------------|----------|
| Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | |
| 148 | 1,239 | 473 | 121 | 361 | 66 | 194 | 405 | 179 | 195 | 492 | 977 | |
| 157 | 1,298 | 505 | 127 | 378 | 69 | 218 | 424 | 188 | 204 | 516 | 1,027 | |
| 172 | 1,333 | 551 | 127 | 387 | 69 | 274 | 424 | 188 | 204 | 516 | 1,048 | |
| | | | | | | | | | | | | 0.95 PHF |
| Eastbound (Montano Rd) | | | Westbound (Montano Rd) | | | Northbound (Fourth St) | | | Southbound (Fourth St) | | | |
| Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | |
| 136 | 592 | 228 | 153 | 1,218 | 193 | 397 | 539 | 158 | 168 | 496 | 137 | |
| 149 | 620 | 264 | 160 | 1,276 | 202 | 438 | 565 | 166 | 176 | 520 | 149 | |
| 201 | 639 | 388 | 160 | 1,311 | 202 | 572 | 565 | 166 | 176 | 520 | 205 | |
| | | | | | | | | | | | | 0.91 PHF |

Montano Rd / Winterhaven Rd

(8) 2.0% Truck
Existing (2011)
2015 (NO BUILD - A.M.)
2015 (BUILD - A.M.)

| Eastbound (Montano Rd) | | | Westbound (Montano Rd) | | | Northbound (Winterhaven Rd) | | | Southbound (Winterhaven Rd) | | | PHF |
|------------------------|--------------|-----------|------------------------|--------------|------------|-----------------------------|----------|------------|-----------------------------|----------|-----------|----------|
| Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | |
| 27 | 2,050 | 30 | 73 | 417 | 51 | 0 | 0 | 55 | 0 | 0 | 29 | |
| 28 | 2,154 | 31 | 95 | 437 | 53 | 0 | 0 | 64 | 0 | 0 | 31 | |
| 29 | 2,163 | 37 | 175 | 444 | 53 | 0 | 0 | 141 | 0 | 0 | 34 | |
| | | | | | | | | | | | | 0.97 PHF |
| Eastbound (Montano Rd) | | | Westbound (Montano Rd) | | | Northbound (Winterhaven Rd) | | | Southbound (Winterhaven Rd) | | | |
| Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | |
| 57 | 736 | 15 | 46 | 1,368 | 326 | 0 | 0 | 46 | 0 | 0 | 69 | |
| 61 | 786 | 16 | 75 | 1,434 | 342 | 0 | 0 | 63 | 0 | 0 | 73 | |
| 66 | 853 | 29 | 324 | 1,409 | 342 | 0 | 0 | 189 | 0 | 0 | 78 | |
| | | | | | | | | | | | | 0.85 PHF |

Andalucia Update (Montano Rd / Coors Blvd)**Projected Turning Movements SUMMARY
PROPOSED DEVELOPMENT (2015) - 100% Development****INTERSECTION:****Summary****Montano Rd / Antequera Rd**

(9) 2.0% Truck

Existing (2011)
2015 (NO BUILD - A.M.)
2015 (BUILD - A.M.)

| Eastbound (Montano Rd) | | | Westbound (Montano Rd) | | | Northbound (Antequera Rd) | | | Southbound (Antequera Rd) | | | 0.85 | PHF |
|------------------------|-------|-------|------------------------|------|-------|---------------------------|------|-------|---------------------------|------|-------|------|------|
| Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | 0.95 | 0.85 |
| 0 | 2,379 | 0 | 0 | 601 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 2,492 | 0 | 0 | 630 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 2,459 | 86 | 0 | 649 | 0 | 0 | 0 | 50 | 0 | 0 | 0 | 0 | 0 |

| Eastbound (Montano Rd) | | | Westbound (Montano Rd) | | | Northbound (Antequera Rd) | | | Southbound (Antequera Rd) | | | 0.95 | PHF |
|------------------------|------|-------|------------------------|-------|-------|---------------------------|------|-------|---------------------------|------|-------|------|------|
| Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | 0.85 | 0.85 |
| 0 | 830 | 0 | 0 | 1,602 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 869 | 0 | 0 | 1,678 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 851 | 141 | 0 | 1,714 | 0 | 0 | 0 | 103 | 0 | 0 | 0 | 0 | 0 |

E-W Street / Coors Blvd

(10) 2.0% Truck

Existing (2011)
2015 (NO BUILD - A.M.)
2015 (BUILD - A.M.)

| Eastbound (E-W Street) | | | Westbound (E-W Street) | | | Northbound (Coors Blvd) | | | Southbound (Coors Blvd) | | | 0.85 | PHF |
|------------------------|------|-------|------------------------|------|-------|-------------------------|-------|-------|-------------------------|-------|-------|------|------|
| Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | 0.95 | 0.90 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2,022 | 0 | 0 | 1,864 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2,137 | 0 | 0 | 1,973 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 69 | 0 | 2,191 | 48 | 0 | 2,055 | 0 | 0 | 0 |

| Eastbound (E-W Street) | | | Westbound (E-W Street) | | | Northbound (Coors Blvd) | | | Southbound (Coors Blvd) | | | 0.85 | PHF |
|------------------------|------|-------|------------------------|------|-------|-------------------------|-------|-------|-------------------------|-------|-------|------|------|
| Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | 0.96 | 0.96 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2,469 | 0 | 0 | 2,224 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2,638 | 0 | 0 | 2,359 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 225 | 0 | 2,738 | 125 | 0 | 2,552 | 0 | 0 | 0 |

Mirandela Rd / Coors Blvd

(11) 2.0% Truck

Existing (2011)
2015 (NO BUILD - A.M.)
2015 (BUILD - A.M.)

| Eastbound (Mirandela Rd) | | | Westbound (Mirandela Rd) | | | Northbound (Coors Blvd) | | | Southbound (Coors Blvd) | | | 0.85 | PHF |
|--------------------------|------|-------|--------------------------|------|-------|-------------------------|-------|-------|-------------------------|-------|-------|------|------|
| Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | 0.85 | 0.90 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2,022 | 0 | 0 | 1,864 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 10 | 0 | 2,128 | 0 | 10 | 1,963 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 68 | 0 | 2,151 | 52 | 99 | 1,956 | 0 | 0 | 0 |

| Eastbound (Mirandela Rd) | | | Westbound (Mirandela Rd) | | | Northbound (Coors Blvd) | | | Southbound (Coors Blvd) | | | 0.85 | PHF |
|--------------------------|------|-------|--------------------------|------|-------|-------------------------|-------|-------|-------------------------|-------|-------|------|------|
| Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | 0.96 | 0.96 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2,469 | 0 | 0 | 2,224 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 26 | 0 | 2,612 | 0 | 14 | 2,344 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 180 | 0 | 2,620 | 141 | 231 | 2,320 | 0 | 0 | 0 |

Andalucia Update (Montano Rd / Coors Blvd)

Projected Turning Movements Worksheet

Montano Rd / Coors Blvd

INTERSECTION: E-W Street: Montano Rd (3)

N-S Street: Coors Blvd

Year of Existing Counts 2010

Implementation Year 2015

Growth Rates

Existing Volumes

Background Traffic Growth

Subtotal

Credit Union (Learning) Trips

Subtotal (NO BUILD - A.M.)

Percent Residential Trips Generated(Entering)

Percent Residential Trips Generated(Exiting)

Percent Commercial Trips Generated(Entering)

Percent Commercial Trips Generated(Exiting)

Percent Walmart Store Trips Generated(Entering)

Percent Walmart Store Trips Generated(Exiting)

Total Trips Generated

Total AM Peak Hour BUILD Volumes

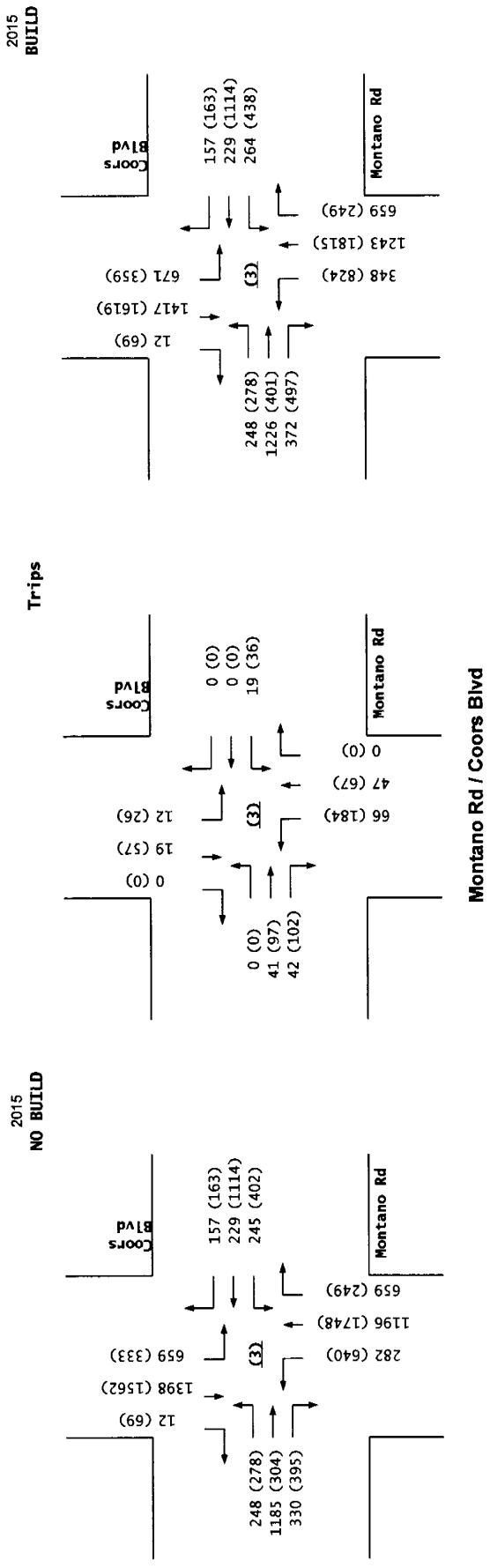
AM Adjustment for Heavy EB Flow on Montano

| | | | 1.20% | | | 1.20% | | | 1.20% | | | 1.20% | | |
|---|-------|--------|------------------------|--------|-------|------------------------|--------|--------|-------------------------|-------|-------|-------------------------|-------|-------|
| | | | Eastbound (Montano Rd) | | | Westbound (Montano Rd) | | | Northbound (Coors Blvd) | | | Southbound (Coors Blvd) | | |
| | | | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right |
| Existing Volumes | 234 | 1,107 | 300 | 230 | 216 | 148 | 252 | 1,124 | 622 | 622 | 1,312 | 11 | | |
| Background Traffic Growth | 14 | 66 | 18 | 14 | 13 | 9 | 15 | 67 | 37 | 37 | 79 | 1 | | |
| Subtotal | 248 | 1,173 | 318 | 244 | 229 | 157 | 267 | 1,191 | 659 | 659 | 1,391 | 12 | | |
| Credit Union (Learning) Trips | 0 | 12 | 12 | 1 | 0 | 0 | 15 | 5 | 0 | 0 | 0 | 0 | 7 | 0 |
| Subtotal (NO BUILD - A.M.) | 248 | 1,185 | 330 | 245 | 229 | 157 | 282 | 1,196 | 659 | 659 | 1,398 | 12 | | |
| Percent Residential Trips Generated(Entering) | 0.00% | 0.00% | 3.38% | 0.34% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 21.34% | 0.00% | |
| Percent Residential Trips Generated(Exiting) | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 3.38% | 21.34% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | |
| Percent Commercial Trips Generated(Entering) | 0.00% | 15.89% | 15.90% | 10.93% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 4.95% | 5.00% | 0.00% | |
| Percent Commercial Trips Generated(Exiting) | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 31.79% | 9.95% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | |
| Percent Walmart Store Trips Generated(Entering) | 0.00% | 16.73% | 16.73% | 0.66% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 4.00% | 4.29% | 0.00% | |
| Percent Walmart Store Trips Generated(Exiting) | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 33.46% | 8.29% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | |
| Total Trips Generated | 0 | 41 | 42 | 19 | 0 | 0 | 66 | 47 | 0 | 12 | 19 | 0 | | |
| Total AM Peak Hour BUILD Volumes | 248 | 1,226 | 372 | 264 | 229 | 157 | 348 | 1,243 | 659 | 671 | 1,417 | 12 | | |

75

| | | | Eastbound (Montano Rd) | | | Westbound (Montano Rd) | | | Northbound (Coors Blvd) | | | Southbound (Coors Blvd) | | |
|---|-------|--------|------------------------|--------|-------|------------------------|--------|--------|-------------------------|-------|--------|-------------------------|-------|-------|
| | | | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right |
| Existing Volumes | 262 | 271 | 357 | 378 | 1,051 | 154 | 567 | 1,638 | 235 | 314 | 1,463 | 65 | | |
| Background Traffic Growth | 16 | 16 | 21 | 23 | 63 | 9 | 34 | 98 | 14 | 19 | 88 | 4 | | |
| Subtotal | 278 | 287 | 378 | 401 | 1,114 | 163 | 601 | 1,736 | 249 | 333 | 1,551 | 69 | | |
| Credit Union (Learning) Trips | 0 | 17 | 17 | 1 | 0 | 0 | 39 | 12 | 0 | 0 | 11 | 0 | | |
| Subtotal (NO BUILD - P.M.) | 278 | 304 | 395 | 402 | 1,114 | 163 | 640 | 1,748 | 249 | 333 | 1,562 | 69 | | |
| Percent Residential Trips Generated(Entering) | 0.00% | 0.00% | 3.38% | 0.34% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 21.34% | 0.00% | | |
| Percent Residential Trips Generated(Exiting) | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 3.38% | 21.34% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | |
| Percent Commercial Trips Generated(Entering) | 0.00% | 15.89% | 15.90% | 10.93% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 4.95% | 5.00% | 0.00% | |
| Percent Commercial Trips Generated(Exiting) | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 31.79% | 9.95% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | |
| Percent Walmart Store Trips Generated(Entering) | 0.00% | 16.73% | 16.73% | 0.66% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 4.00% | 4.29% | 0.00% | |
| Percent Walmart Store Trips Generated(Exiting) | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 33.46% | 8.29% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | |
| Total Trips Generated | 0 | 97 | 102 | 36 | 0 | 0 | 184 | 67 | 0 | 26 | 57 | 0 | | |
| Total PM Peak Hour BUILD Volumes | 278 | 401 | 497 | 438 | 1,114 | 163 | 824 | 1,815 | 249 | 359 | 1,619 | 69 | | |

| Entering | Exiting | A.M. | 100% Residential Development |
|----------|---------|------|--------------------------------|
| 35 | 138 | A.M. | 100% Residential Development |
| 135 | 73 | P.M. | |
| 165 | 136 | A.M. | 100% Commercial Development |
| 312 | 286 | P.M. | |
| 92 | 53 | A.M. | 100% Walmart Store Development |
| 279 | 272 | P.M. | |



Andalucia Update (Montano Rd / Coors Blvd)

Projected Turning Movements Worksheet

Dellyne Ave / Coors BlvdINTERSECTION: E-W Street: **Dellyne Ave** (4)N-S Street: **Coors Blvd**

Year of Existing Counts 2011

Implementation Year 2015

Growth Rates

Existing Volumes

Background Traffic Growth

Subtotal

Credit Union (Learning) Trips

Subtotal (NO BUILD - A.M.)

Percent Residential Trips Generated(Entering)

Percent Residential Trips Generated(Exiting)

Percent Commercial Trips Generated(Entering)

Percent Commercial Trips Generated(Exiting)

Percent Walmart Store Trips Generated(Entering)

Percent Walmart Store Trips Generated(Exiting)

Total Trips Generated

Total AM Peak Hour BUILD Volumes

| | | | 1.20% | | | 1.20% | | | 1.20% | | | 1.20% | | |
|---|--------|-------|-------------------------|--------|--------|-------------------------|-------|--------|-------------------------|--------|-------|-------------------------|------|-------|
| | | | Eastbound (Dellyne Ave) | | | Westbound (Dellyne Ave) | | | Northbound (Coors Blvd) | | | Southbound (Coors Blvd) | | |
| | | | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right |
| Existing Volumes | 231 | 30 | 282 | 51 | 8 | 8 | 59 | 1,615 | 69 | 40 | 2,077 | 29 | | |
| Background Traffic Growth | 11 | 1 | 14 | 2 | 0 | 0 | 3 | 78 | 3 | 2 | 100 | 1 | | |
| Subtotal | 242 | 31 | 296 | 53 | 8 | 8 | 62 | 1,693 | 72 | 42 | 2,177 | 30 | | |
| Credit Union (Learning) Trips | 0 | 8 | 0 | 10 | 5 | 10 | 0 | 0 | 16 | 10 | 0 | 0 | | |
| Subtotal (NO BUILD - A.M.) | 242 | 39 | 296 | 63 | 13 | 18 | 62 | 1,693 | 88 | 52 | 2,177 | 30 | | |
| Percent Residential Trips Generated(Entering) | 0.00% | 0.17% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 10.90% | 32.72% | 16.71% | 0.00% | 0.00% | | |
| Percent Residential Trips Generated(Exiting) | 0.00% | 0.00% | 0.00% | 12.36% | 0.17% | 43.62% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | | |
| Percent Commercial Trips Generated(Entering) | 11.15% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 11.00% | 10.53% | 10.00% | 0.00% | 0.00% | | |
| Percent Commercial Trips Generated(Exiting) | 0.00% | 0.00% | 0.00% | 21.53% | 11.15% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | | |
| Percent Walmart Store Trips Generated(Entering) | 10.66% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 9.14% | 0.00% | 0.00% | 0.00% | 0.00% | | |
| Percent Walmart Store Trips Generated(Exiting) | 0.00% | 0.00% | 0.00% | 9.14% | 10.66% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | | |
| Total Trips Generated | 28 | 0 | 0 | 51 | 21 | 60 | 0 | 30 | 28 | 23 | 0 | 0 | | |
| Total AM Peak Hour BUILD Volumes | 270 | 39 | 296 | 136 | 34 | 78 | 62 | 1,723 | 116 | 75 | 2,177 | 30 | | |

| | | | Eastbound (Dellyne Ave) | | | Westbound (Dellyne Ave) | | | Northbound (Coors Blvd) | | | Southbound (Coors Blvd) | | |
|---|--------|-------|-------------------------|--------|--------|-------------------------|-------|--------|-------------------------|--------|-------|-------------------------|------|-------|
| | | | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right |
| Existing Volumes | 109 | 8 | 101 | 37 | 7 | 11 | 337 | 2,382 | 20 | 7 | 1,971 | 141 | | |
| Background Traffic Growth | 5 | 0 | 5 | 2 | 0 | 1 | 16 | 114 | 1 | 0 | 95 | 7 | | |
| Subtotal | 114 | 8 | 106 | 39 | 7 | 12 | 353 | 2,496 | 21 | 7 | 2,066 | 148 | | |
| Credit Union (Learning) Trips | 0 | 12 | 0 | 27 | 14 | 26 | 0 | 0 | 23 | 14 | 0 | 0 | | |
| Subtotal (NO BUILD - P.M.) | 114 | 20 | 106 | 66 | 21 | 38 | 353 | 2,496 | 44 | 21 | 2,066 | 148 | | |
| Percent Residential Trips Generated(Entering) | 0.00% | 0.17% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 10.90% | 32.72% | 16.71% | 0.00% | 0.00% | | |
| Percent Residential Trips Generated(Exiting) | 0.00% | 0.00% | 0.00% | 12.36% | 0.17% | 43.62% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | | |
| Percent Commercial Trips Generated(Entering) | 11.15% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 11.00% | 10.53% | 10.00% | 0.00% | 0.00% | | |
| Percent Commercial Trips Generated(Exiting) | 0.00% | 0.00% | 0.00% | 21.53% | 11.15% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | | |
| Percent Walmart Store Trips Generated(Entering) | 10.66% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 9.14% | 0.00% | 0.00% | 0.00% | 0.00% | | |
| Percent Walmart Store Trips Generated(Exiting) | 0.00% | 0.00% | 0.00% | 9.14% | 10.66% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | | |
| Total Trips Generated | 65 | 0 | 0 | 96 | 61 | 32 | 0 | 75 | 77 | 54 | 0 | 0 | | |
| Total PM Peak Hour BUILD Volumes | 179 | 20 | 106 | 236 | 82 | 70 | 353 | 2,571 | 121 | 75 | 2,066 | 148 | | |

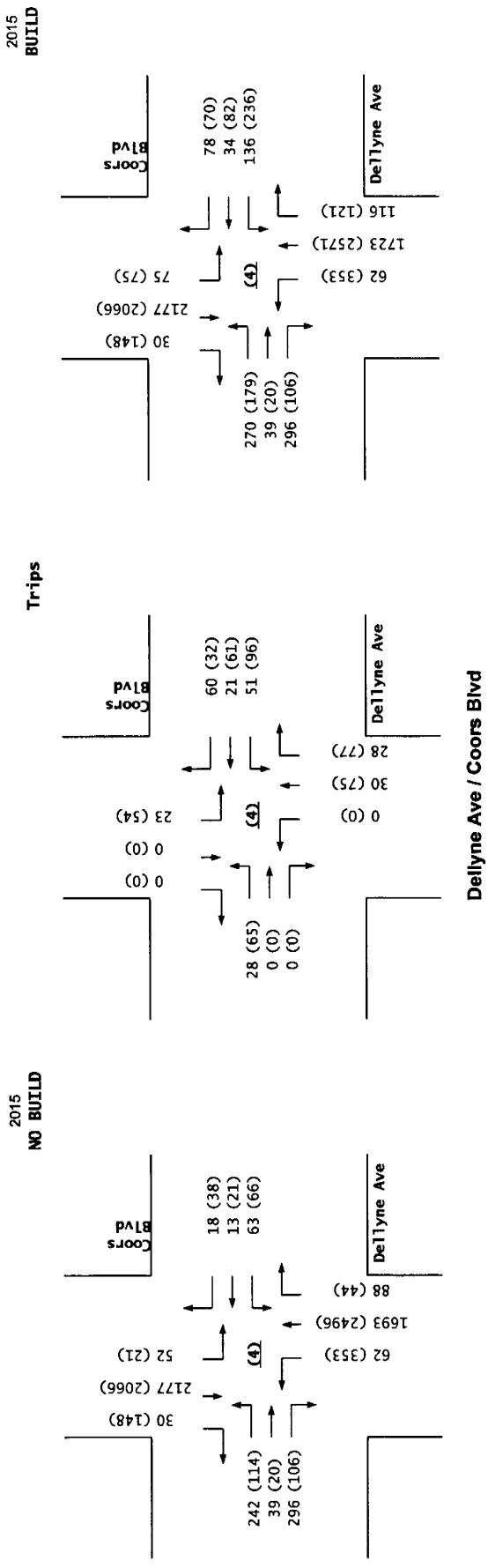
| Entering | Exiting | | |
|---|---------|-----|------|
| Number of Residential Trips Generated | 35 | 138 | A.M. |
| | 135 | 73 | P.M. |
| Number of Commercial Trips Generated | 165 | 136 | A.M. |
| | 312 | 286 | P.M. |
| Number of Walmart Store Trips Generated | 92 | 53 | A.M. |
| | 279 | 272 | P.M. |

100% Residential Development
100% Commercial Development
100% Walmart Store Development

| | | | Eastbound (Dellyne Ave) | | | Westbound (Dellyne Ave) | | | Northbound (Coors Blvd) | | | Southbound (Coors Blvd) | | |
|--------------------------|-----|----|-------------------------|------|-------|-------------------------|------|-------|-------------------------|------|-------|-------------------------|------|-------|
| | | | Left | Thru | Right |
| 2011 AM Peak Hr. Volumes | 231 | 30 | 282 | 51 | 8 | 8 | 59 | 1,615 | 69 | 40 | 2,077 | 29 | | |
| 2011 PM Peak Hr. Volumes | 109 | 8 | 101 | 37 | 7 | 11 | 337 | 2,382 | 20 | 7 | 1,971 | 141 | | |

Pass-by Trip Calculations:

| | | | Eastbound (Dellyne Ave) | | | Westbound (Dellyne Ave) | | | Northbound (Coors Blvd) | | | Southbound (Coors Blvd) | | |
|----------------------------|-------|-------|-------------------------|--------|-------|-------------------------|-------|-------|-------------------------|-------|-------|-------------------------|-------|-------|
| | | | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right |
| AM Pass-by Trips | | | | | | | | | | | | | | |
| Percent Entering | 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% |
| Volume Entering | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Percent Exiting | 0.00% | 0.00% | 0.00% | 27.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| Volume Exiting | 0 | 0 | 0 | 22 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Net AM Passby Trips | | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| PM Pass-by Trips | | | | | | | | | | | | | | |
| Percent Entering | 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% |
| Volume Entering | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Percent Exiting | 0.00% | 0.00% | 0.00% | 31.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| Volume Exiting | 0 | 0 | 0 | 74 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Net PM Passby Trips | | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Entering | 110 | 81 | A.M. | | | | | | | | | | | |
| Pass-by Trips | 253 | 239 | P.M. | | | | | | | | | | | |



Andalucia Update (Montano Rd / Coors Blvd)

Projected Turning Movements Worksheet

Montano Rd / Fourth St**INTERSECTION:** E-W Street: Montano Rd (7)

N-S Street: Fourth St

Year of Existing Counts 2011

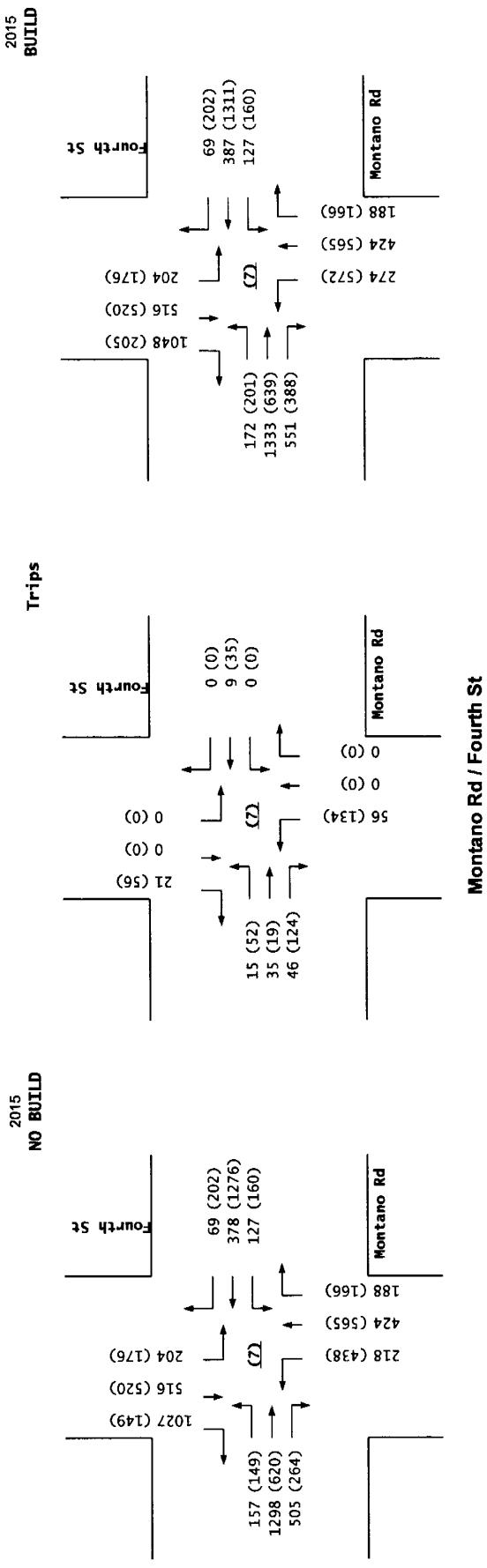
Implementation Year 2015

Growth Rates

| | 1.20% | | | 1.20% | | | 1.20% | | | 1.20% | | |
|---|------------------------|--------|--------|------------------------|--------|-------|------------------------|-------|-------|------------------------|-------|--------|
| | Eastbound (Montano Rd) | | | Westbound (Montano Rd) | | | Northbound (Fourth St) | | | Southbound (Fourth St) | | |
| | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right |
| Existing Volumes | 148 | 1,239 | 473 | 121 | 361 | 66 | 194 | 405 | 179 | 195 | 492 | 977 |
| Background Traffic Growth | 7 | 59 | 23 | 6 | 17 | 3 | 9 | 19 | 9 | 9 | 24 | 47 |
| Subtotal | 155 | 1,298 | 496 | 127 | 378 | 69 | 203 | 424 | 188 | 204 | 516 | 1,024 |
| Credit Union (Learning) Trips | 2 | 0 | 9 | 0 | 0 | 0 | 15 | 0 | 0 | 0 | 0 | 3 |
| Subtotal (NO BUILD - A.M.) | 157 | 1,298 | 505 | 127 | 378 | 69 | 218 | 424 | 188 | 204 | 516 | 1,027 |
| Percent Residential Trips Generated(Entering) | 0.00% | 0.00% | 0.00% | 0.00% | 25.08% | 0.00% | 5.40% | 0.00% | 0.00% | 0.00% | 0.00% | 0.67% |
| Percent Residential Trips Generated(Exiting) | 0.67% | 25.08% | 5.40% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| Percent Commercial Trips Generated(Entering) | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 19.99% | 0.00% | 0.00% | 0.00% | 0.00% | 4.67% |
| Percent Commercial Trips Generated(Exiting) | 4.67% | 0.00% | 19.99% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| Percent Walmart Store Trips Generated(Entering) | 0.00% | 0.00% | 0.00% | 0.00% | 0.32% | 0.00% | 23.28% | 0.00% | 0.00% | 0.00% | 0.00% | 14.17% |
| Percent Walmart Store Trips Generated(Exiting) | 14.17% | 0.32% | 23.28% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| Total Trips Generated | 15 | 35 | 46 | 0 | 9 | 0 | 56 | 0 | 0 | 0 | 0 | 21 |
| Total AM Peak Hour BUILD Volumes | 172 | 1,333 | 551 | 127 | 387 | 69 | 274 | 424 | 188 | 204 | 516 | 1,048 |

| | Eastbound (Montano Rd) | | | Westbound (Montano Rd) | | | Northbound (Fourth St) | | | Southbound (Fourth St) | | |
|---|------------------------|--------|--------|------------------------|--------|-------|------------------------|-------|-------|------------------------|-------|--------|
| | Left | | | Thru | | | Right | | | Left | | |
| | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right |
| Existing Volumes | 136 | 592 | 228 | 153 | 1,218 | 193 | 397 | 539 | 158 | 168 | 496 | 137 |
| Background Traffic Growth | 7 | 28 | 11 | 7 | 58 | 9 | 19 | 26 | 8 | 8 | 24 | 7 |
| Subtotal | 143 | 620 | 239 | 160 | 1,276 | 202 | 416 | 565 | 166 | 176 | 520 | 144 |
| Credit Union (Learning) Trips | 6 | 0 | 25 | 0 | 0 | 0 | 22 | 0 | 0 | 0 | 0 | 5 |
| Subtotal (NO BUILD - P.M.) | 149 | 620 | 264 | 160 | 1,276 | 202 | 438 | 565 | 166 | 176 | 520 | 149 |
| Percent Residential Trips Generated(Entering) | 0.00% | 0.00% | 0.00% | 0.00% | 25.08% | 0.00% | 5.40% | 0.00% | 0.00% | 0.00% | 0.00% | 0.67% |
| Percent Residential Trips Generated(Exiting) | 0.67% | 25.08% | 5.40% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| Percent Commercial Trips Generated(Entering) | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 19.99% | 0.00% | 0.00% | 0.00% | 0.00% | 4.67% |
| Percent Commercial Trips Generated(Exiting) | 4.67% | 0.00% | 19.99% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| Percent Walmart Store Trips Generated(Entering) | 0.00% | 0.00% | 0.00% | 0.00% | 0.32% | 0.00% | 23.28% | 0.00% | 0.00% | 0.00% | 0.00% | 14.17% |
| Percent Walmart Store Trips Generated(Exiting) | 14.17% | 0.32% | 23.28% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| Total Trips Generated | 52 | 19 | 124 | 0 | 35 | 0 | 134 | 0 | 0 | 0 | 0 | 56 |
| Total PM Peak Hour BUILD Volumes | 201 | 639 | 388 | 160 | 1,311 | 202 | 572 | 565 | 166 | 176 | 520 | 205 |

| | Entering | Exiting | A.M. | 100% Residential Development |
|---|----------|---------|------|--------------------------------|
| Number of Residential Trips Generated | 35 | 138 | A.M. | 100% Residential Development |
| | 135 | 73 | P.M. | |
| Number of Commercial Trips Generated | 165 | 136 | A.M. | 100% Commercial Development |
| | 312 | 286 | P.M. | |
| Number of Walmart Store Trips Generated | 92 | 53 | A.M. | 100% Walmart Store Development |
| | 279 | 272 | P.M. | |



Andalucia Update (Montano Rd / Coors Blvd)

Projected Turning Movements Worksheet

Montano Rd / Winterhaven Rd

INTERSECTION: E-W Street: Montano Rd (8)

N-S Street: Winterhaven Rd

Year of Existing Counts 2011

Implementation Year 2015

Growth Rates

Existing Volumes

Background Traffic Growth

Subtotal

Credit Union (Learning) Trips

Subtotal (NO BUILD - A.M.)

Percent Residential Trips Generated(Entering)

Percent Residential Trips Generated(Exiting)

Percent Commercial Trips Generated(Entering)

Percent Commercial Trips Generated(Exiting)

Percent Walmart Store Trips Generated(Entering)

Percent Walmart Store Trips Generated(Exiting)

Total Trips Generated

Subtotal AM Pk Hr. BUILD Volumes

Pass-by Trip Adjustments

Total AM Peak Hour BUILD Volumes

AM Adjustment for Heavy EB Flow on Montano

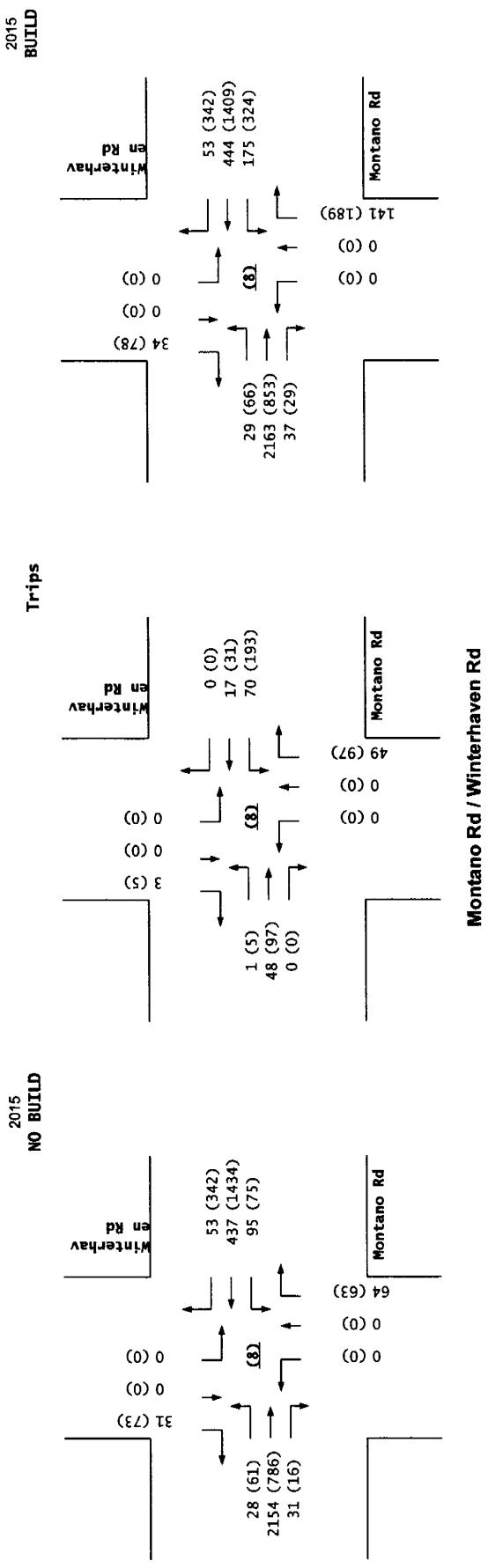
| | 1.20% | | | 1.20% | | | 1.20% | | | 1.20% | | |
|---|------------------------|--------|-------|------------------------|--------|-------|-----------------------------|-------|--------|-----------------------------|-------|-------|
| | Eastbound (Montano Rd) | | | Westbound (Montano Rd) | | | Northbound (Winterhaven Rd) | | | Southbound (Winterhaven Rd) | | |
| | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right |
| Existing Volumes | 27 | 2,050 | 30 | 73 | 417 | 51 | 0 | 0 | 55 | 0 | 0 | 29 |
| Background Traffic Growth | 1 | 98 | 1 | 4 | 20 | 2 | 0 | 0 | 3 | 0 | 0 | 1 |
| Subtotal | 28 | 2,148 | 31 | 77 | 437 | 53 | 0 | 0 | 58 | 0 | 0 | 30 |
| Credit Union (Learning) Trips | 0 | 6 | 0 | 18 | 0 | 0 | 0 | 0 | 6 | 0 | 0 | 1 |
| Subtotal (NO BUILD - A.M.) | 28 | 2,154 | 31 | 95 | 437 | 53 | 0 | 0 | 64 | 0 | 0 | 31 |
| Percent Residential Trips Generated(Entering) | 0.00% | 0.00% | 0.00% | 31.15% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.34% |
| Percent Residential Trips Generated(Exiting) | 0.34% | 15.57% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 15.58% | 0.00% | 0.00% | 0.00% |
| Percent Commercial Trips Generated(Entering) | 0.00% | 0.00% | 0.00% | 14.66% | 10.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.93% |
| Percent Commercial Trips Generated(Exiting) | 0.93% | 12.33% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 12.33% | 0.00% | 0.00% | 0.00% |
| Percent Walmart Store Trips Generated(Entering) | 0.00% | 0.00% | 0.00% | 37.77% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.66% |
| Percent Walmart Store Trips Generated(Exiting) | 0.66% | 18.89% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 18.88% | 0.00% | 0.00% | 0.00% |
| Total Trips Generated | 1 | 48 | 0 | 70 | 17 | 0 | 0 | 0 | 49 | 0 | 0 | 3 |
| Subtotal AM Pk Hr. BUILD Volumes | 29 | 2,202 | 31 | 165 | 454 | 53 | 0 | 0 | 113 | 0 | 0 | 34 |
| Pass-by Trip Adjustments | 0 | -39 | 6 | 10 | -10 | 0 | 0 | 0 | 28 | 0 | 0 | 0 |
| Total AM Peak Hour BUILD Volumes | 29 | 2,163 | 37 | 175 | 444 | 53 | 0 | 0 | 141 | 0 | 0 | 34 |

AM Adjustment for Heavy EB Flow on Montano

| | Eastbound (Montano Rd) | | | Westbound (Montano Rd) | | | Northbound (Winterhaven Rd) | | | Southbound (Winterhaven Rd) | | |
|---|------------------------|--------|-------|------------------------|--------|-------|-----------------------------|-------|--------|-----------------------------|-------|-------|
| | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right |
| | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right |
| Existing Volumes | 57 | 736 | 15 | 46 | 1,368 | 326 | 0 | 0 | 46 | 0 | 0 | 69 |
| Background Traffic Growth | 3 | 35 | 1 | 2 | 66 | 16 | 0 | 0 | 2 | 0 | 0 | 3 |
| Subtotal | 60 | 771 | 16 | 48 | 1,434 | 342 | 0 | 0 | 48 | 0 | 0 | 72 |
| Credit Union (Learning) Trips | 1 | 15 | 0 | 27 | 0 | 0 | 0 | 0 | 15 | 0 | 0 | 1 |
| Subtotal (NO BUILD - P.M.) | 61 | 786 | 16 | 75 | 1,434 | 342 | 0 | 0 | 63 | 0 | 0 | 73 |
| Percent Residential Trips Generated(Entering) | 0.00% | 0.00% | 0.00% | 31.15% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.34% |
| Percent Residential Trips Generated(Exiting) | 0.34% | 15.57% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 15.58% | 0.00% | 0.00% | 0.00% |
| Percent Commercial Trips Generated(Entering) | 0.00% | 0.00% | 0.00% | 14.66% | 10.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.93% |
| Percent Commercial Trips Generated(Exiting) | 0.93% | 12.33% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 12.33% | 0.00% | 0.00% | 0.00% |
| Percent Walmart Store Trips Generated(Entering) | 0.00% | 0.00% | 0.00% | 37.77% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.66% |
| Percent Walmart Store Trips Generated(Exiting) | 0.66% | 18.89% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 18.88% | 0.00% | 0.00% | 0.00% |
| Total Trips Generated | 5 | 97 | 0 | 193 | 31 | 0 | 0 | 0 | 97 | 0 | 0 | 5 |
| Subtotal PM Pk Hr. BUILD Volumes | 66 | 883 | 16 | 268 | 1,465 | 342 | 0 | 0 | 160 | 0 | 0 | 78 |
| Pass-by Trip Adjustments | 0 | -30 | 13 | 56 | -56 | 0 | 0 | 0 | 29 | 0 | 0 | 0 |
| Total PM Peak Hour BUILD Volumes | 66 | 853 | 29 | 324 | 1,409 | 342 | 0 | 0 | 189 | 0 | 0 | 78 |

| | Entering | Exiting | | |
|---|----------|---------|------|--------------------------------|
| Number of Residential Trips Generated | 35 | 138 | A.M. | 100% Residential Development |
| Number of Commercial Trips Generated | 135 | 73 | P.M. | |
| Number of Walmart Store Trips Generated | 165 | 136 | A.M. | 100% Commercial Development |
| | 312 | 286 | P.M. | |
| | 92 | 53 | A.M. | 100% Walmart Store Development |
| | 279 | 272 | P.M. | |

| Pass-by Trip Calculations: | | | | | | | | | | | | | | |
|----------------------------|-----------------|----------------|------------------------|---------|-------|------------------------|--------|-------|-----------------------------|-------|-------|-----------------------------|-------|--|
| AM Pass-by Trips | | | Eastbound (Montano Rd) | | | Westbound (Montano Rd) | | | Northbound (Winterhaven Rd) | | | Southbound (Winterhaven Rd) | | |
| Percent Entering | Volume Entering | Volume Exiting | 0.00% | -35.00% | 5.00% | 9.00% | -9.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | |
| Net AM Passby Trips | 0 | -39 | 6 | 10 | -10 | 0 | 0 | 0 | 0 | 0 | 28 | 0 | 0 | |
| PM Pass-by Trips | 0 | -30 | 13 | 56 | -56 | 0 | 0 | 0 | 0 | 0 | 29 | 0 | 0 | |
| Entering | Pass-by Trips | Exiting | | | | | | | | | | | | |
| | 110 | 81 | A.M. | | | | | | | | | | | |
| | 253 | 239 | P.M. | | | | | | | | | | | |



Andalucia Update (Montano Rd / Coors Blvd)

Projected Turning Movements Worksheet

Montano Rd / Antequera Rd

INTERSECTION: E-W Street: Montano Rd (9)

N-S Street: Antequera Rd

Year of Existing Counts 2010

Implementation Year 2015

Growth Rates

| | | | 1.20% | | | 1.20% | | | 1.20% | | | 1.20% | | | |
|---|----------|--------------|------------------------|----------|------------|------------------------|----------|----------|---------------------------|-----------|----------|---------------------------|----------|----------|----------|
| | | | Eastbound (Montano Rd) | | | Westbound (Montano Rd) | | | Northbound (Antequera Rd) | | | Southbound (Antequera Rd) | | | |
| | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right |
| Existing Volumes | 0 | 2,351 | 0 | 0 | 594 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Background Traffic Growth | 0 | 141 | 0 | 0 | 36 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Subtotal (NO BUILD - A.M.) | 0 | 2,492 | 0 | 0 | 630 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Percent Residential Trips Generated(Entering) | 0.00% | 0.00% | 0.00% | 0.00% | 0.34% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| Percent Residential Trips Generated(Exiting) | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 15.91% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| Percent Commercial Trips Generated(Entering) | 0.00% | 0.00% | 20.84% | 0.00% | 10.93% | 0.00% | 0.00% | 0.00% | 0.00% | 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% | 0.00% | 13.26% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| Percent Walmart Store Trips Generated(Entering) | 0.00% | 0.00% | 20.73% | 0.00% | 0.66% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| Percent Walmart Store Trips Generated(Exiting) | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 19.55% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| Total Trips Generated | 0 | 0 | 53 | 0 | 19 | 0 | 0 | 0 | 0 | 50 | 0 | 0 | 0 | 0 | 0 |
| Subtotal AM Pk Hr. BUILD Volumes | 0 | 2,492 | 53 | 0 | 649 | 0 | 0 | 0 | 0 | 50 | 0 | 0 | 0 | 0 | 0 |
| Pass-by Trip Adjustments | 0 | -33 | 33 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total AM Peak Hour BUILD Volumes | 0 | 2,459 | 86 | 0 | 649 | 0 | 0 | 0 | 0 | 50 | 0 | 0 | 0 | 0 | 0 |

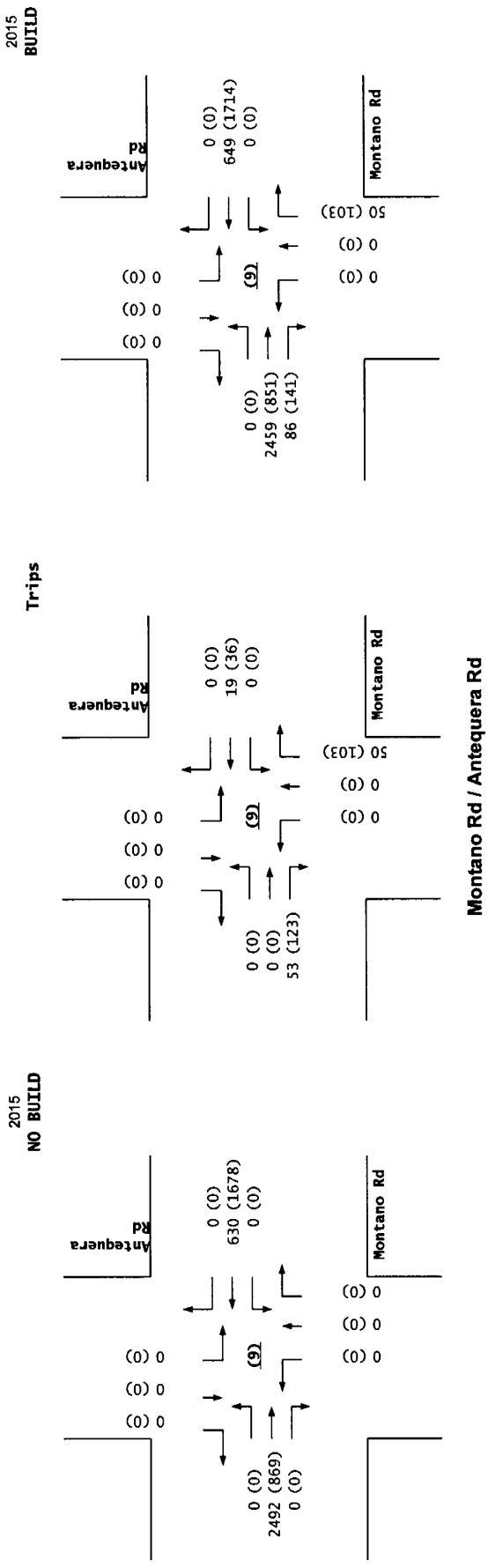
AM Adjustment for Heavy EB Flow on Montano

75

| | | | Eastbound (Montano Rd) | | | Westbound (Montano Rd) | | | Northbound (Antequera Rd) | | | Southbound (Antequera Rd) | | | |
|---|----------|------------|------------------------|----------|--------------|------------------------|----------|----------|---------------------------|------------|----------|---------------------------|----------|----------|----------|
| | | | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | |
| Existing Volumes | 0 | 820 | 0 | 0 | 1,583 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Background Traffic Growth | 0 | 49 | 0 | 0 | 95 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Subtotal (NO BUILD - P.M.) | 0 | 869 | 0 | 0 | 1,678 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Percent Residential Trips Generated(Entering) | 0.00% | 0.00% | 0.00% | 0.00% | 0.34% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| Percent Residential Trips Generated(Exiting) | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 15.91% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| Percent Commercial Trips Generated(Entering) | 0.00% | 0.00% | 20.84% | 0.00% | 10.93% | 0.00% | 0.00% | 0.00% | 0.00% | 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% | 0.00% | 13.26% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| Percent Walmart Store Trips Generated(Entering) | 0.00% | 0.00% | 20.73% | 0.00% | 0.66% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| Percent Walmart Store Trips Generated(Exiting) | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 19.55% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| Total Trips Generated | 0 | 0 | 123 | 0 | 36 | 0 | 0 | 0 | 0 | 103 | 0 | 0 | 0 | 0 | 0 |
| Subtotal PM Pk Hr. BUILD Volumes | 0 | 869 | 123 | 0 | 1,714 | 0 | 0 | 0 | 0 | 103 | 0 | 0 | 0 | 0 | 0 |
| Pass-by Trip Adjustments | 0 | -18 | 18 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total PM Peak Hour BUILD Volumes | 0 | 851 | 141 | 0 | 1,714 | 0 | 0 | 0 | 0 | 103 | 0 | 0 | 0 | 0 | 0 |

| | | |
|---|----------------|--|
| Number of Residential Trips Generated | Entering 35 | Exiting 138 A.M. |
| | 135 | 73 P.M. |
| Number of Commercial Trips Generated | 165 | 136 A.M. 100% Commercial Development |
| | 312 | 286 P.M. |
| Number of Walmart Store Trips Generated | 92 | 53 A.M. 100% Walmart Store Development |
| | 279 | 272 P.M. |

| | | | |
|----------------------------|----------------------------|------------------|---------------|
| Pass-by Trip Calculations: | AM Pass-by Trips | | |
| | Percent Entering | -30.00% | 30.00% |
| | Volume Entering | 0 | -33 33 |
| | Percent Exiting | 0.00% | 0.00% |
| | Volume Exiting | 0 | 0 0 |
| | Net AM Passby Trips | 0 | -33 33 |
| PM Pass-by Trips | | | |
| | Percent Entering | -7.00% | 7.00% |
| | Volume Entering | 0 | -18 18 |
| | Percent Exiting | 0.00% | 0.00% |
| | Volume Exiting | 0 | 0 0 |
| | Net PM Passby Trips | 0 | -18 18 |
| Pass-by Trips | | | |
| | Entering 110 | Exiting 81 AM | |
| | 253 | 239 PM | |



Andalucia Update (Montano Rd / Coors Blvd)

Projected Turning Movements Worksheet

E-W Street / Coors Blvd

INTERSECTION: E-W Street: **E-W Street** (10)
 N-S Street: **Coors Blvd**

Year of Existing Counts
 2010
 Implementation Year
 2015

Growth Rates

| | 1.20% | | | 1.20% | | | 1.20% | | | 1.20% | | |
|---|------------------------|----------|----------|------------------------|----------|-----------|-------------------------|--------------|-----------|-------------------------|--------------|----------|
| | Eastbound (E-W Street) | | | Westbound (E-W Street) | | | Northbound (Coors Blvd) | | | Southbound (Coors Blvd) | | |
| | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right |
| Existing Volumes | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1,998 | 0 | 0 | 1,842 | 0 |
| Background Traffic Growth | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 120 | 0 | 0 | 111 | 0 |
| Subtotal | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2,118 | 0 | 0 | 1,953 | 0 |
| Credit Union (Learning) Trips | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 19 | 0 | 0 | 20 | 0 |
| Subtotal (NO BUILD - A.M.) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2,137 | 0 | 0 | 1,973 | 0 |
| Percent Residential Trips Generated(Entering) | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 25.06% | 0.00% |
| Percent Residential Trips Generated(Exiting) | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 24.72% | 0.00% | 0.00% | 0.00% | 0.00% |
| Percent Commercial Trips Generated(Entering) | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 11.00% | 0.00% | 31.83% | 0.00% |
| Percent Commercial Trips Generated(Exiting) | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 27.82% | 0.00% | 13.91% | 0.00% | 0.00% | 0.00% | 0.00% |
| Percent Walmart Store Trips Generated(Entering) | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 9.90% | 0.00% | 21.68% | 0.00% |
| Percent Walmart Store Trips Generated(Exiting) | 0.00% | 0.00% | 0.00% | 0.00% | 27.82% | 0.00% | 13.91% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| Total Trips Generated | 0 | 0 | 0 | 0 | 0 | 53 | 0 | 60 | 27 | 0 | 82 | 0 |
| Subtotal AM Pk Hr. BUILD Volumes | 0 | 0 | 0 | 0 | 0 | 53 | 0 | 2,197 | 27 | 0 | 2,055 | 0 |
| Pass-by Trip Adjustments | 0 | 0 | 0 | 0 | 0 | 16 | 0 | -6 | 21 | 0 | 0 | 0 |
| Total AM Peak Hour BUILD Volumes | 0 | 0 | 0 | 0 | 0 | 69 | 0 | 2,191 | 48 | 0 | 2,055 | 0 |

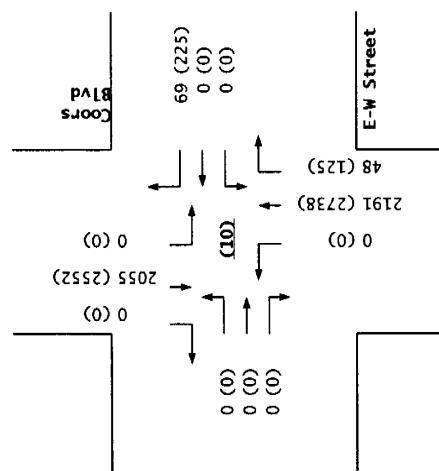
AM Adjustment for Heavy EB Flow on Montano

75

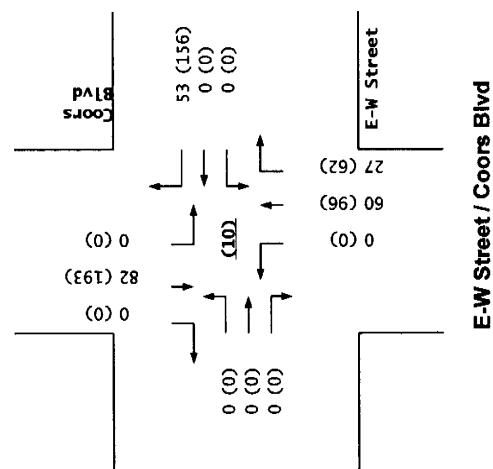
| | Eastbound (E-W Street) | | | Westbound (E-W Street) | | | Northbound (Coors Blvd) | | | Southbound (Coors Blvd) | | |
|---|------------------------|----------|----------|------------------------|----------|------------|-------------------------|--------------|------------|-------------------------|--------------|----------|
| | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2,440 | 0 | 0 | 2,198 | 0 |
| Existing Volumes | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 146 | 0 | 0 | 132 | 0 |
| Background Traffic Growth | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2,586 | 0 | 0 | 2,330 | 0 |
| Subtotal | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 52 | 0 | 0 | 29 | 0 |
| Credit Union (Learning) Trips | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2,638 | 0 | 0 | 2,359 | 0 |
| Subtotal (NO BUILD - P.M.) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Percent Residential Trips Generated(Entering) | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 25.06% | 0.00% |
| Percent Residential Trips Generated(Exiting) | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 24.72% | 0.00% | 0.00% | 0.00% | 0.00% |
| Percent Commercial Trips Generated(Entering) | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 11.00% | 0.00% | 31.83% | 0.00% |
| Percent Commercial Trips Generated(Exiting) | 0.00% | 0.00% | 0.00% | 0.00% | 27.82% | 0.00% | 13.91% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| Percent Walmart Store Trips Generated(Entering) | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 9.90% | 0.00% | 21.68% | 0.00% |
| Percent Walmart Store Trips Generated(Exiting) | 0.00% | 0.00% | 0.00% | 0.00% | 27.82% | 0.00% | 13.91% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| Total Trips Generated | 0 | 0 | 0 | 0 | 0 | 156 | 0 | 96 | 62 | 0 | 193 | 0 |
| Subtotal PM Pk Hr. BUILD Volumes | 0 | 0 | 0 | 0 | 0 | 156 | 0 | 2,734 | 62 | 0 | 2,552 | 0 |
| Pass-by Trip Adjustments | 0 | 0 | 0 | 0 | 0 | 69 | 0 | 4 | 63 | 0 | 0 | 0 |
| Total PM Peak Hour BUILD Volumes | 0 | 0 | 0 | 0 | 0 | 225 | 0 | 2,738 | 125 | 0 | 2,552 | 0 |

| | Entering | Exiting |
|---|----------|--|
| Number of Residential Trips Generated | 35 | 138 A.M. |
| | 135 | 73 P.M. |
| Number of Commercial Trips Generated | 165 | 136 A.M. 100% Commercial Development |
| | 312 | 286 P.M. |
| Number of Walmart Store Trips Generated | 92 | 53 A.M. 100% Walmart Store Development |
| | 279 | 272 P.M. |

| Pass-by Trip Calculations: | | |
|----------------------------|----------|-------------|
| AM Pass-by Trips | | |
| Percent Entering | 0.00% | 0.00% 0.00% |
| Volume Entering | 0 | 0 0 |
| Percent Exiting | 0.00% | 0.00% 0.00% |
| Volume Exiting | 0 | 0 0 |
| Net AM Passby Trips | 0 | 0 0 |
| PM Pass-by Trips | | |
| Percent Entering | 0.00% | 0.00% 0.00% |
| Volume Entering | 0 | 0 0 |
| Percent Exiting | 0.00% | 0.00% 0.00% |
| Volume Exiting | 0 | 0 0 |
| Net PM Passby Trips | 0 | 0 0 |
| Entering | 110 | 81 AM |
| Pass-by Trips | 253 | 239 PM |

2015
BUILD

Trips

2015
NO BUILD

E-W Street / Coors Blvd

Andalucia Update (Montano Rd / Coors Blvd)

Projected Turning Movements Worksheet

Mirandela Rd / Coors Blvd

INTERSECTION: E-W Street: Mirandela Rd (11)
 N-S Street: Coors Blvd

Year of Existing Counts
 2010
 Implementation Year
 2015

Growth Rates

Existing Volumes
 Background Traffic Growth

Subtotal

Credit Union (Learning) Trips

Subtotal (NO BUILD - A.M.)

Percent Residential Trips Generated(Entering)
 Percent Residential Trips Generated(Exiting)
 Percent Commercial Trips Generated(Entering)
 Percent Commercial Trips Generated(Exiting)
 Percent Walmart Store Trips Generated(Entering)
 Percent Walmart Store Trips Generated(Exiting)

Total Trips Generated

Subtotal AM Pk Hr. BUILD Volumes

Pass-by Trip Adjustments

Total AM Peak Hour BUILD Volumes

AM Adjustment for Heavy EB Flow on Montano

| 1.20% | | | 1.20% | | | 1.20% | | | 1.20% | | |
|--------------------------|----------|----------|--------------------------|-----------|-----------|-------------------------|--------------|-----------|-------------------------|--------------|----------|
| Eastbound (Mirandela Rd) | | | Westbound (Mirandela Rd) | | | Northbound (Coors Blvd) | | | Southbound (Coors Blvd) | | |
| Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1,998 | 0 | 0 | 1,842 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 120 | 0 | 0 | 111 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2,118 | 0 | 0 | 1,953 | 0 |
| 0 | 0 | 0 | 0 | 0 | 10 | 0 | 10 | 0 | 10 | 10 | 0 |
| 0 | 0 | 0 | 0 | 0 | 10 | 0 | 2,128 | 0 | 10 | 1,963 | 0 |
| 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 10.90% | 8.35% | 16.71% | 0.00% |
| 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 12.36% | 0.00% | 12.36% | 0.00% | 0.00% | 0.00% | 0.00% |
| 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 11.00% | 11.15% | 21.83% | 10.00% | 0.00% |
| 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 13.91% | 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% | 9.90% | 9.90% | 21.68% | 0.00% | 0.00% |
| 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 13.91% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 0 | 0 | 0 | 0 | 43 | 0 | 44 | 31 | 59 | 23 | 0 | 75 |
| 0 | 0 | 0 | 0 | 53 | 0 | 2,172 | 31 | 69 | 1,986 | 0 | |
| 0 | 0 | 0 | 0 | 15 | 0 | -21 | 21 | 30 | -30 | 0 | |
| 0 | 0 | 0 | 0 | 68 | 0 | 2,151 | 52 | 99 | 1,956 | 0 | |

AM Adjustment for Heavy EB Flow on Montano

Existing Volumes
 Background Traffic Growth

Subtotal

Credit Union (Learning) Trips

Subtotal (NO BUILD - P.M.)

Percent Residential Trips Generated(Entering)
 Percent Residential Trips Generated(Exiting)
 Percent Commercial Trips Generated(Entering)
 Percent Commercial Trips Generated(Exiting)
 Percent Walmart Store Trips Generated(Entering)
 Percent Walmart Store Trips Generated(Exiting)

Total Trips Generated

Subtotal PM Pk Hr. BUILD Volumes

Pass-by Trip Adjustments

Total PM Peak Hour BUILD Volumes

| Eastbound (Mirandela Rd) | | | Westbound (Mirandela Rd) | | | Northbound (Coors Blvd) | | | Southbound (Coors Blvd) | | |
|--------------------------|----------|----------|--------------------------|------------|-----------|-------------------------|--------------|------------|-------------------------|--------------|----------|
| Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2,440 | 0 | 0 | 2,198 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 146 | 0 | 0 | 132 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2,586 | 0 | 0 | 2,330 | 0 |
| 0 | 0 | 0 | 0 | 0 | 26 | 0 | 26 | 0 | 14 | 14 | 0 |
| 0 | 0 | 0 | 0 | 0 | 26 | 0 | 2,612 | 0 | 14 | 2,344 | 0 |
| 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 10.90% | 8.35% | 16.71% | 0.00% |
| 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 12.36% | 0.00% | 12.36% | 0.00% | 0.00% | 0.00% | 0.00% |
| 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 11.00% | 11.15% | 21.83% | 10.00% | 0.00% |
| 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 13.91% | 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% | 9.90% | 9.90% | 21.68% | 0.00% | 0.00% |
| 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 13.91% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 0 | 0 | 0 | 0 | 87 | 0 | 71 | 78 | 139 | 54 | 0 | |
| 0 | 0 | 0 | 0 | 113 | 0 | 2,683 | 78 | 153 | 2,398 | 0 | |
| 0 | 0 | 0 | 0 | 67 | 0 | -63 | 63 | 78 | -78 | 0 | |
| 0 | 0 | 0 | 0 | 180 | 0 | 2,620 | 141 | 231 | 2,320 | 0 | |

Entering Exiting
 Number of Residential Trips Generated 35 138 A.M.
 135 73 P.M.
 Number of Commercial Trips Generated 165 136 100% Commercial Development
 312 286 P.M.
 Number of Walmart Store Trips Generated 92 53 100% Walmart Store Development
 279 272 P.M.

| Eastbound (Mirandela Rd) | | | Westbound (Mirandela Rd) | | | Northbound (Coors Blvd) | | | Southbound (Coors Blvd) | | |
|--------------------------|------|-------|--------------------------|------|-------|-------------------------|-------|-------|-------------------------|-------|-------|
| Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2,022 | 0 | 0 | 1,864 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2,469 | 0 | 0 | 2,224 | 0 |

Pass-by Trip Calculations:

AM Pass-by Trips

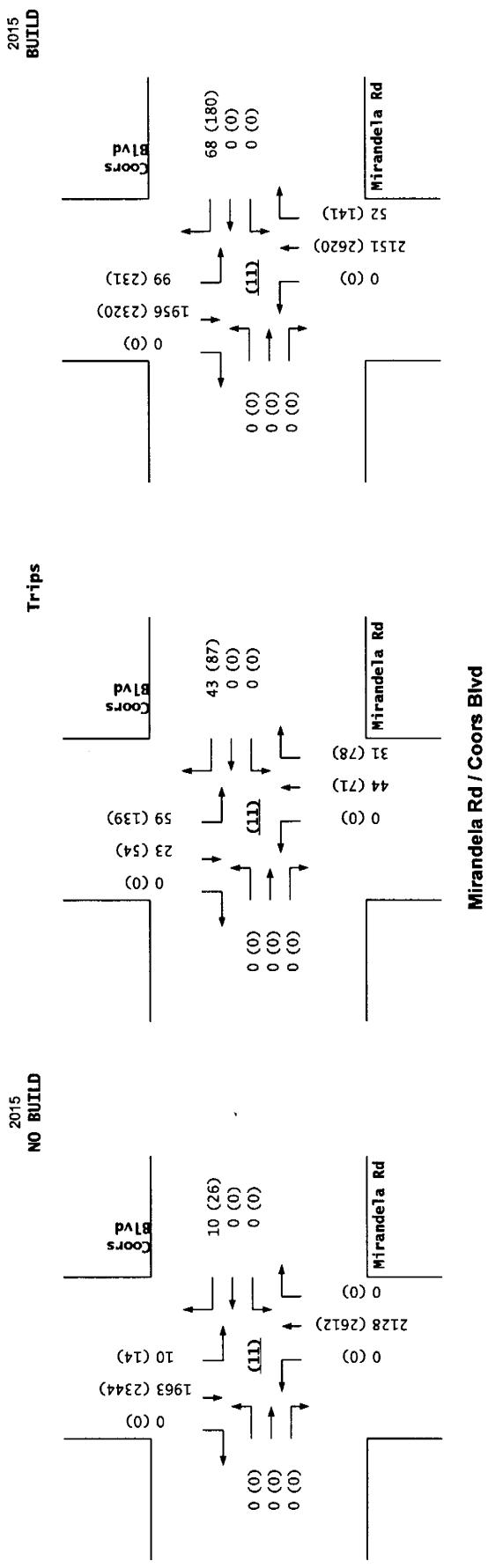
| Eastbound (Mirandela Rd) | | | Westbound (Mirandela Rd) | | | Northbound (Coors Blvd) | | | Southbound (Coors Blvd) | | |
|--------------------------|-----------------|-----------------|--------------------------|---------------------|--|-------------------------|-----------------|-----------------|-------------------------|---------------------|-------|
| Percent Entering | Volume Entering | Percent Exiting | Volume Exiting | Net AM Passby Trips | | Percent Entering | Volume Entering | Percent Exiting | Volume Exiting | Net AM Passby Trips | |
| 0.00% | 0.00% | 0.00% | 0.00% | 0 | | 0.00% | -19.00% | 19.00% | 27.00% | -27.00% | 0.00% |
| 0.00% | 0.00% | 0.00% | 0.00% | 18.00% | | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 0 | 0 | 0 | 0 | 15 | | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 15 | | 0 | -21 | 21 | 30 | -30 | 0 |

PM Pass-by Trips

| Eastbound (Mirandela Rd) | | | Westbound (Mirandela Rd) | | | Northbound (Coors Blvd) | | | Southbound (Coors Blvd) | | |
|--------------------------|-----------------|-----------------|--------------------------|---------------------|--|-------------------------|-----------------|-----------------|-------------------------|---------------------|-------|
| Percent Entering | Volume Entering | Percent Exiting | Volume Exiting | Net PM Passby Trips | | Percent Entering | Volume Entering | Percent Exiting | Volume Exiting | Net PM Passby Trips | |
| 0.00% | 0.00% | 0.00% | 0.00% | 0 | | 0.00% | -25.00% | 25.00% | 31.00% | -31.00% | 0.00% |
| 0.00% | 0.00% | 0.00% | 0.00% | 28.00% | | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 0 | 0 | 0 | 0 | 67 | | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 67 | | 0 | -63 | 63 | 78 | -78 | 0 |
| 0 | 0 | 0 | 0 | 67 | | 0 | -21 | 21 | 30 | -30 | 0 |

Entering Exiting

| | | |
|-----|-----|------|
| 110 | 81 | A.M. |
| 253 | 239 | P.M. |

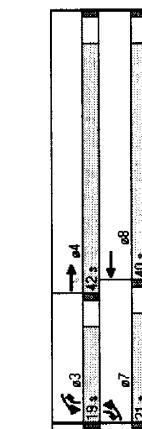
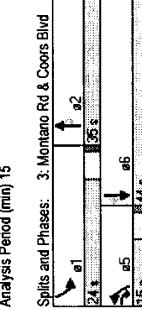


Timings
3: Montana Rd & Coors Blvd

HCM Signalized Intersection Capacity Analysis
3: Montana Rd & Coors Blvd

Terry O. Brown, PE
11/22/2011 - Synchro 7

| Lane Group | EBL | E BT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Lane Configurations | ↑↑↑ | ↑↑↑ | ↑↑↑ | ↑↑↑ | ↑↑↑ | ↑↑↑ | ↑↑↑ | ↑↑↑ | ↑↑↑ | ↑↑↑ | ↑↑↑ | ↑↑↑ |
| Volume (vph) | 248 | 245 | 245 | 282 | 229 | 245 | 659 | 1398 | 12 | 248 | 1185 | 330 |
| Turn Type | Prot |
| Projected Phases | 7 | 4 | 5 | 3 | 8 | 5 | 2 | 3 | 1 | 6 | 7 | 6 |
| Permitted Phases | | | | | | | | | | | | |
| Switch Phase | 7 | 4 | 5 | 3 | 8 | 5 | 2 | 3 | 1 | 6 | 7 | 6 |
| Minimum Initial (s) | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 |
| Total Split (%) | 10.0 | 21.0 | 10.0 | 21.0 | 10.0 | 21.0 | 10.0 | 21.0 | 10.0 | 21.0 | 10.0 | 21.0 |
| Total Split (s) | 21.0 | 42.0 | 15.0 | 19.0 | 40.0 | 15.0 | 35.0 | 19.0 | 24.0 | 44.0 | 21.0 | 42.0 |
| Total Split (%) | 11.5% | 35.0% | 12.5% | 15.8% | 33.3% | 12.5% | 28.2% | 15.8% | 20.0% | 36.7% | 17.5% | 35.0% |
| Yellow Time (s) | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 |
| All-Red Time (s) | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| Lost Time Adjust (s) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Lost Time (s) | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 |
| Lead-Lag Optimized? | | | | | | | | | | | | |
| Lead-Lag | Lead |
| Lead-Lag Optimized? | Min |
| Recall Mode | | | | | | | | | | | | |
| Act Efficient Green (s) | 14.4 | 37.0 | 52.0 | 14.0 | 36.6 | 10.0 | 49.0 | 19.0 | 39.0 | 58.4 | 14.4 | 37.0 |
| Actuated g/C Ratio | 0.12 | 0.31 | 0.43 | 0.12 | 0.30 | 0.08 | 0.25 | 0.41 | 0.16 | 0.32 | 0.49 | 0.12 |
| V/C Ratio | 0.69 | 1.25 | 0.55 | 0.81 | 0.46 | 1.13 | 1.08 | 1.17 | 1.36 | 0.95 | 0.02 | 0.69 |
| Control Delay | 56.9 | 154.8 | 28.4 | 68.4 | 25.3 | 38.5 | 73.5 | 112.0 | 23.0 | 52.8 | 6.9 | 56.9 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 56.9 | 154.8 | 28.4 | 68.4 | 25.3 | 38.5 | 73.5 | 112.0 | 23.0 | 52.8 | 6.9 | 56.9 |
| LOS | E | F | C | E | C | F | F | D | A | F | F | E |
| Approach Delay | 117.8 | 42.0 | 94.0 | 94.0 | 42.0 | 94.0 | 103.6 | 103.6 | 103.6 | 103.6 | 103.6 | 103.6 |
| Approach LOS | F | D | D | F | F | F | F | F | F | F | F | F |
| Intersection Summary | | | | | | | | | | | | |
| Intersection LOS: F | | | | | | | | | | | | |
| ICU Level of Service G | | | | | | | | | | | | |
| Sum of lost time (s) | 100.1 | 118.6 | 5.0 | 118.6 | 9.9 | 11.9 | 33.3 | 147.6 | 73.0 | 112.9 | 224.5 | 185.5 |
| Analysis Period (min) | 15 | 55.7 | 180.1 | 28.1 | 63.6 | 33.3 | 147.6 | 73.0 | 112.9 | 224.5 | 185.5 | 15 |
| Control Type: Actuated-Coordinated | | | | | | | | | | | | |
| Maximum v/C Ratio: 1.36 | | | | | | | | | | | | |
| Intersection Signal Delay: 97.5 | | | | | | | | | | | | |
| Actuated Cycle Length: 120 | | | | | | | | | | | | |
| Offset: 86 (72%) Referenced to phase 2:NBT and 6:SBT. Start of Green | | | | | | | | | | | | |
| Natural Cycle: 120 | | | | | | | | | | | | |
| 2015 AM Peak NOBUILD Conditions | | | | | | | | | | | | |
| Existing Geometry | | | | | | | | | | | | |
| DIA TO BE PROJECT SWalmart_Montana_CoorsSyncro2015ANX.syn | | | | | | | | | | | | |



| Intersection Summary | HCM Average Control Delay | 100.1 | HCM Level of Service | F |
|-----------------------|-----------------------------------|--------|----------------------|-------|
| | HCM Volume to Capacity ratio | 1.17 | | |
| | Actuated Cycle Length (s) | 120.0 | Sum of lost time (s) | 100.1 |
| | Intersection Capacity Utilization | 104.9% | ICU Level of Service | G |
| | Analysis Period (min) | 15 | | |
| c Critical Lane Group | | | | |

2015 AM Peak NOBUILD Conditions

Existing Geometry

DIA TO BE PROJECT SWalmart_Montana_CoorsSyncro2015ANX.syn

Existing Geometry

DIA TO BE PROJECT SWalmart_Montana_CoorsSyncro2015ANX.syn

Timings
3: Montano Rd & Coors Blvd

HCM Signalized Intersection Capacity Analysis
3: Montano Rd & Coors Blvd

Terry O. Brown, PE
11/22/2011 - Synchro 7

| Link Group | E BL | E BT | E WL | E WB | N BL | N BT | N BL | N BT | S BL | S BT |
|----------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Lane Configurations | ↑↑↑ | ↑↑↑ | ↑↑↑ | ↑↑↑ | ↑↑↑ | ↑↑↑ | ↑↑↑ | ↑↑↑ | ↑↑↑ | ↑↑↑ |
| Volume (vph) | 248 | 1226 | 372 | 339 | 228 | 348 | 1243 | 659 | 671 | 1417 |
| Turn Type (prot) | Prot |
| Protected Phases | 7 | 4 | 5 | 3 | 8 | 5 | 2 | 3 | 1 | 6 |
| Permitted Phases | 4 | 5 | 3 | 8 | 5 | 2 | 2 | 2 | 1 | 7 |
| Detector Phase | 7 | 4 | 5 | 3 | 8 | 5 | 2 | 3 | 1 | 6 |
| Switch Phase | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 |
| Minimum Initial (s) | 10.0 | 21.0 | 10.0 | 21.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 |
| Total Split (s) | 22.0 | 43.0 | 18.0 | 36.0 | 19.0 | 34.0 | 18.0 | 34.0 | 22.0 | 43.0 |
| Total Split (%) | 18.3% | 35.9% | 15.0% | 32.5% | 15.0% | 28.3% | 15.0% | 28.3% | 18.3% | 35.9% |
| Yellow Time (s) | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 |
| All-Red Time (s) | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| Lost Time Adjust (s) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Lost Time (s) | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 |
| Lead-Lag | Lead |
| Lead-Lag Optimize? | | | | | | | | | | |
| Recall Mode | Min | Min | Min | Min | Min | Min | C-Max | Min | Min | Min |
| Act Efft Green (s) | 15.3 | 36.0 | 13.0 | 35.7 | 13.0 | 29.0 | 47.0 | 20.0 | 36.0 | 56.3 |
| Actuated Q/C Ratio | 0.13 | 0.32 | 0.47 | 0.11 | 0.30 | 0.11 | 0.24 | 0.39 | 0.17 | 0.30 |
| V/C Ratio | 0.72 | 1.25 | 0.58 | 1.21 | 0.47 | 1.07 | 1.16 | 0.59 | 1.32 | 1.04 |
| Control Delay | 59.9 | 158.0 | 27.2 | 163.1 | 26.1 | 129.0 | 111.0 | 197 | 194.1 | 75.9 |
| Oueue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 7.4 |
| Total Delay | 59.9 | 158.0 | 27.2 | 163.1 | 26.1 | 129.0 | 111.0 | 197 | 194.1 | 75.9 |
| LOS | E | F | C | F | C | F | B | F | E | A |
| Approach Delay | 117.7 | 90.1 | 87.0 | 90.1 | 87.0 | 90.1 | 113.3 | 90.1 | 87.0 | 90.1 |
| Approach LOS | F | F | F | F | F | F | F | F | F | F |

Intersection Summary

| | |
|-----------------------------------|------------------------|
| Intersection LOS: F | Intersection LOS: F |
| ICU Level of Service G | ICU Level of Service G |
| HCM Average Control Delay | 106.8 |
| HCM Volume to Capacity ratio | 1.18 |
| Actuated Cycle Length (s) | 120.0 |
| Intersection Capacity Utilization | 15.0 |
| Analysis Period (min) | 15 |
| c: Critical Lane Group | |

Splits and Phases: 3: Montano Rd & Coors Blvd

Control Type: Actuated-Coordinated

Maximum v/c Ratio: 1.32

Intersection Signal Delay: 10.3

Intersection Capacity Utilization: 103.1%

Analysis Period (min): 15

Existing Geometry

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2015 AM Peak Build Conditions

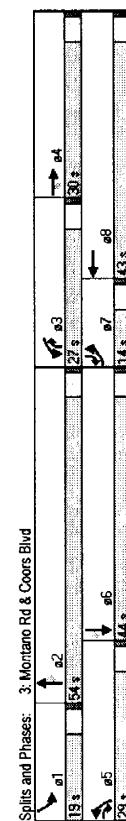
Existing Geometry

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Terry O. Brown, PE
11/22/2011-Synchro 7

Terry O. Brown, PE
11/22/2011 - Switch 07

Cycle Length 130



1100

... 100

PROJECTS | Walmart Montano Geesink Synchro 2015 BX SBD Existing Geometry

PROJECTS | Walmart Montano Geesink Synchro 2015 BX SBD Existing Geometry

HCM Signalized Intersection Capacity Analysis 3: Montana Rd & Coors Blvd

HCM Signalized Intersection Capacity Analysis
3: Montana Rd & Coors Blvd

| Lane Configurations | EBL | EBT | EBR | WBBL |
|------------------------|-------|----------|-------|------|
| Volume (vphpl) | 27.8 | 401 | 437 | 438 |
| Actual Flow (vphpl) | 19.00 | 19.00 | 19.00 | 1 |
| Total Lost time (s) | 5.0 | 5.0 | 5.0 | 5.0 |
| Lane Util Factor | 0.97 | 0.96 | 1.00 | 0.97 |
| Fit | 1.00 | 1.00 | 0.95 | 0.97 |
| Fit Protected | 0.95 | 1.00 | 1.00 | 0.95 |
| Stad. Flow (vph) | 3400 | 3605 | 1568 | 3400 |
| Fit Permitted | 0.95 | 1.00 | 1.00 | 0.95 |
| Sadd. Flow (perm) | 3400 | 3505 | 1568 | 3400 |
| Peak-hour factor, PHF | 0.91 | 0.91 | 0.91 | 0.93 |
| Add'l. Flow (vph) | 305 | 441 | 546 | 471 |
| RTO/R Reduction (vph) | 0 | 0 | 5 | 0 |
| Lane Group Flow (vph) | 305 | 441 | 541 | 471 |
| Turn Type | Prot. | Prot-Mov | Prot | Prot |
| Protected Phases | 7 | 4 | 5 | 3 |
| Permitted Phases | | | 4 | |
| Actuated Green, G (s) | 9.0 | 26.0 | 50.0 | 21.0 |
| Effective Green, g (s) | 9.0 | 26.0 | 50.0 | 21.0 |
| Actuated g/C Ratio | 0.07 | 0.30 | 0.38 | 0.16 |
| Clearance Time (s) | 5.0 | 5.0 | 5.0 | 5.0 |
| Vehicle Extension (s) | 3.0 | 3.0 | 3.0 | 3.0 |
| Lane Grp Cap (vph) | 235 | 701 | 663 | 549 |
| vs Ratio Prot | -0.09 | 0.13 | 0.15 | 0.14 |
| vs Ratio Perm | | | 0.19 | |
| WC Ratio | 1.30 | 0.63 | 0.82 | 0.66 |
| Uniform Delay, d1 | 60.5 | 47.6 | 35.9 | 53.0 |
| Progression Factor | 1.00 | 1.00 | 1.00 | 1.00 |

| Incremental Delay, d2 | Delay (s) |
|-----------------------|-----------|
| 161.7 | 1.8 |
| 222.2 | 494.4 |

| Intersection Summary | | HCM Average Control Delay | HCM Volume to Capacity ratio | Actuated Cycle Length (s) | Sum |
|----------------------|---|---------------------------|------------------------------|---------------------------|-----|
| Level of Service | F | 183.5 | 1.28 | 30.0 | |
| Approach Delay (s) | D | | | | |
| Approach LOS | E | | | | |
| Approach Delay (s) | F | | | | |



Eviction Economics

Eviction Economics

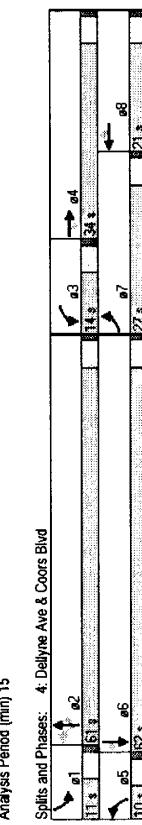
2013 PM Peak Build Conditions

2013 PM Peak Build Conditions

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| Timings 4: Dellyne Ave & Coors Blvd | | | | | | | | | | | |
|--|-------|-------|-------|-------|-------|-------|------|-------|-------|-------|-------|
| Lane Group | EB1 | EB2 | EBR | NBL | NBT | WB1 | WB2 | SB1 | SB2 | SBL | SBR |
| Lane Configurations | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| Volume (vph) | 242 | 33 | 296 | 63 | 13 | 18 | 62 | 52 | 2177 | 30 | |
| Turn Type | Prot | Prot | Prot | Perm | Perm | Perm | Perm | Perm | Prot | Perm | Perm |
| Protected Phases | 7 | 4 | 3 | 8 | 3 | 8 | 2 | 2 | 1 | 6 | 6 |
| Detected Phases | 7 | 4 | 3 | 8 | 8 | 5 | 2 | 2 | 1 | 6 | 6 |
| Switch Phase | | | | | | | | | | | |
| Minimum Initial (s) | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 |
| Minimum Split (s) | 10.0 | 21.0 | 21.0 | 10.0 | 21.0 | 10.0 | 61.0 | 61.0 | 62.0 | 62.0 | 62.0 |
| Total Split (%) | 22.5% | 28.3% | 28.3% | 11.7% | 17.5% | 17.5% | 8.3% | 50.0% | 50.0% | 9.2% | 51.7% |
| Yellow Time (s) | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 |
| All-Red Time (s) | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| Lost Time Adjust (s) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Lost Time (s) | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 |
| Lead-Lag | Lead | Lead | Lead | Lead | Lead | Lead | Lead | Lead | Lead | Lead | Lead |
| Lead-Lag Optimize? | | | | | | | | | | | |
| Recall Modes | Min | Min | Min | Min | Min | Min | Min | C-Max | C-Max | C-Max | C-Max |
| Act Efft. Green (s) | 22.0 | 26.4 | 26.4 | 8.6 | 13.1 | 13.1 | 64.0 | 58.5 | 6.5 | 59.4 | 59.4 |
| Actuated g/C Ratio | 0.18 | 0.22 | 0.22 | 0.37 | 0.11 | 0.11 | 0.53 | 0.48 | 0.45 | 0.50 | 0.50 |
| g/C Ratio | 1.01 | 0.13 | 0.91 | 0.67 | 0.08 | 0.12 | 0.52 | 0.82 | 0.13 | 0.61 | 0.04 |
| Control Delay | 10.13 | 37.0 | 58.1 | 79.5 | 46.9 | 18.3 | 28.5 | 30.4 | 4.4 | 76.8 | 26.5 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 4.1 |
| Total Delay | 101.0 | 37.0 | 58.1 | 79.5 | 46.9 | 18.3 | 28.5 | 30.4 | 6.4 | 76.8 | 26.5 |
| LOS | F | D | E | E | D | B | C | A | E | C | A |
| Approach Delay | 75.2 | 75.2 | 75.2 | 75.2 | 63.3 | 29.2 | 29.2 | 29.2 | 29.2 | 29.2 | 29.2 |
| Approach LOS | E | E | E | E | C | C | C | C | C | C | C |
| Intersection Summary | | | | | | | | | | | |
| Maximum v/c Ratio: 1.01 | | | | | | | | | | | |
| Cycle Length: 120 | | | | | | | | | | | |
| Actuated Cycle Length: 120 | | | | | | | | | | | |
| Offset 0 (0%) Referenced to phase 2:NBL and 6:SBL Start of Green | | | | | | | | | | | |
| Natural Cycle: 120 | | | | | | | | | | | |
| Control Type: Actuated-Coordinated | | | | | | | | | | | |
| Analysis Period (min) 15 | | | | | | | | | | | |
| Splits and Phases: 4: Dellyne Ave & Coors Blvd | | | | | | | | | | | |
| Intersection LOS: D | | | | | | | | | | | |
| ICU Level of Service D | | | | | | | | | | | |



Existing Geometry
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| HCM Signalized Intersection Capacity Analysis 4: Dellyne Ave & Coors Blvd | | | | | | | | | | | |
|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Lane Group | EB1 | EB2 | EBR | NBL | NBT | WB1 | WB2 | SB1 | SB2 | SBL | SBR |
| Lane Configurations | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| Volume (vph) | 242 | 33 | 296 | 63 | 13 | 18 | 62 | 52 | 2177 | 30 | |
| Turn Type | Prot | Prot | Prot | Perm | Perm | Perm | Perm | Perm | Prot | Perm | Perm |
| Protected Phases | 7 | 4 | 3 | 8 | 3 | 8 | 2 | 2 | 1 | 6 | 6 |
| Detected Phases | 7 | 4 | 3 | 8 | 8 | 5 | 2 | 2 | 1 | 6 | 6 |
| Switch Phase | | | | | | | | | | | |
| Minimum Initial (s) | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 |
| Minimum Split (s) | 10.0 | 21.0 | 21.0 | 10.0 | 21.0 | 10.0 | 61.0 | 61.0 | 62.0 | 62.0 | 62.0 |
| Total Split (%) | 22.5% | 28.3% | 28.3% | 11.7% | 17.5% | 17.5% | 8.3% | 50.0% | 50.0% | 9.2% | 51.7% |
| Yellow Time (s) | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 |
| All-Red Time (s) | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| Lost Time Adjust (s) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Lost Time (s) | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 |
| Lead-Lag | Lead |
| Lead-Lag Optimize? | | | | | | | | | | | |
| Recall Modes | Min | Min | Min | Min | Min | Min | C-Max | C-Max | C-Max | C-Max | C-Max |
| Act Efft. Green (s) | 22.0 | 26.4 | 26.4 | 8.6 | 13.1 | 13.1 | 64.0 | 58.5 | 6.5 | 59.4 | 59.4 |
| Actuated g/C Ratio | 0.18 | 0.22 | 0.22 | 0.37 | 0.11 | 0.11 | 0.53 | 0.48 | 0.45 | 0.50 | 0.50 |
| g/C Ratio | 1.01 | 0.13 | 0.91 | 0.67 | 0.08 | 0.12 | 0.52 | 0.82 | 0.13 | 0.61 | 0.04 |
| Control Delay | 10.13 | 37.0 | 58.1 | 79.5 | 46.9 | 18.3 | 28.5 | 30.4 | 4.4 | 76.8 | 26.5 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 4.1 |
| Total Delay | 101.0 | 37.0 | 58.1 | 79.5 | 46.9 | 18.3 | 28.5 | 30.4 | 6.4 | 76.8 | 26.5 |
| LOS | F | D | E | E | D | B | C | A | E | C | A |
| Approach Delay | 75.2 | 75.2 | 75.2 | 75.2 | 63.3 | 29.2 | 29.2 | 29.2 | 29.2 | 29.2 | 29.2 |
| Approach LOS | E | E | E | E | C | C | C | C | C | C | C |
| Intersection Summary | | | | | | | | | | | |
| Maximum v/c Ratio: 1.01 | | | | | | | | | | | |
| Cycle Length: 120 | | | | | | | | | | | |
| Actuated Cycle Length: 120 | | | | | | | | | | | |
| Offset 0 (0%) Referenced to phase 2:NBL and 6:SBL Start of Green | | | | | | | | | | | |
| Natural Cycle: 120 | | | | | | | | | | | |
| Control Type: Actuated-Coordinated | | | | | | | | | | | |
| Analysis Period (min) 15 | | | | | | | | | | | |
| Splits and Phases: 4: Dellyne Ave & Coors Blvd | | | | | | | | | | | |
| Intersection LOS: D | | | | | | | | | | | |
| ICU Level of Service D | | | | | | | | | | | |

| HCM Average Control Delay | 36.0 |
|-----------------------------------|-------|
| HCM Volume to Capacity ratio | 0.89 |
| Actuated Cycle Length (s) | 120.0 |
| Intersection Capacity Utilization | 78.8% |
| Analysis Period (min) | 15 |
| c Critical Lane Group | |

| Intersection Summary | D |
|----------------------|------|
| HCM Level of Service | D |
| Sum of lost time (s) | 10.0 |
| ICU Level of Service | D |
| Approach LOS | F |

2015 AM Peak NOBUILD Conditions

Existing Geometry

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Timings
4: Dellyne Ave & Coors Blvd

HCM Signalized Intersection Capacity Analysis
4: Dellyne Ave & Coors Blvd

Terry O. Brown, PE
11/22/2011 - Synchro 7

| Lane Group | E BL | E BT | W BL | W BT | N BL | N BT | S BL | S BT | S RB |
|--|-------|-------|-------|-------|------|-------|-------|--------|-------|
| Lane Configurations | ↑↑↑ | ↑↑↑ | ↑↑↑ | ↑↑↑ | ↑↑↑ | ↑↑↑ | ↑↑↑ | ↑↑↑ | ↑↑↑ |
| Volume (vph) | 270 | 38 | 136 | 34 | 78 | 62 | 1723 | 116 | 75 |
| Turn Type | Prot | Prot | Prot | Perm | Perm | Perm | Prot | Prot | Perm |
| Protected Phases | 7 | 4 | 3 | 8 | 5 | 2 | 2 | 1 | 6 |
| Permitted Phases | | | | | | | | | |
| Detector Phase | 7 | 4 | 3 | 8 | 5 | 2 | 2 | 1 | 6 |
| Minimum Initial (s) | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 |
| Maximum Split (s) | 10.0 | 21.0 | 21.0 | 21.0 | 21.0 | 21.0 | 21.0 | 21.0 | 21.0 |
| Total Split (s) | 23.0 | 34.0 | 23.0 | 23.0 | 10.0 | 64.0 | 64.0 | 64.0 | 64.0 |
| Total Split (%) | 19.2% | 26.3% | 10.0% | 19.2% | 8.3% | 53.3% | 53.3% | 53.3% | 53.3% |
| Yellow Time (s) | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 |
| All-Red Time (s) | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| Lost Time Adjust (s) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Lost Time (s) | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 |
| Leading Vehicle Delay | Lead | Lead | Lead | Lead | Lead | Lead | Lead | Lead | Lead |
| Lead-Lag Optimize? | | | | | | | | | |
| Recall Mode | Min | Min | Min | Min | Min | C Max | Min | C Alex | |
| Act Effct Green (s) | 16.6 | 23.0 | 7.0 | 19.4 | 64.0 | 59.0 | 59.0 | 59.0 | |
| Actuated g/C Ratio | 0.14 | 0.24 | 0.65 | 0.16 | 0.16 | 0.53 | 0.49 | 0.48 | 0.48 |
| g/C Ratio | 0.76 | 1.00 | 0.91 | 0.15 | 0.32 | 0.55 | 0.83 | 0.17 | 0.04 |
| Control Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 61.0 | 81.1 | 101.3 | 45.8 | 17.5 | 29.9 | 53 | 79.7 | 25.7 |
| LOS | E | F | F | D | B | C | C | A | A |
| Approach Delay | 72.1 | 67.3 | 27.2 | 28.4 | 27.2 | 27.2 | 27.2 | 27.2 | 27.2 |
| Approach LOS | E | E | C | C | C | C | C | C | C |
| Intersection Summary | | | | | | | | | |
| Maximum v/c Ratio: 1.00 | | | | | | | | | |
| Cycle Length: 120 | | | | | | | | | |
| Actuated Cycle Length: 120 | | | | | | | | | |
| Offset: 0 (0%) Referenced to phase 2:NBTL and 6:SBT Start of Green | | | | | | | | | |
| Natural Cycle: 100 | | | | | | | | | |
| Control Type: Actuated-Coordinated | | | | | | | | | |
| Maximum v/c Ratio: 1.00 | | | | | | | | | |
| Intersection Signal Delay: 35.9 | | | | | | | | | |
| Intersection Capacity Utilization: 87.4% | | | | | | | | | |
| Analysis Period (min): 15 | | | | | | | | | |
| Splits and Phases: 4: Dellyne Ave & Coors Blvd | | | | | | | | | |
| 11s a1 ↑ a2 | | | | | | | | | |
| 11s a3 ↓ a4 | | | | | | | | | |
| 11s a5 ↓ a6 | | | | | | | | | |
| 11s a7 ↓ a8 | | | | | | | | | |
| 23s ↑ a3 | | | | | | | | | |
| 23s ↑ a5 | | | | | | | | | |
| 23s ↑ a7 | | | | | | | | | |
| 23s ↑ a9 | | | | | | | | | |

Existing Geometry
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| Intersection Summary | HCM Average Control Delay | HCM Volume-to-Capacity ratio | HCM Level of Service | D |
|------------------------|---------------------------|------------------------------|-----------------------------------|-------|
| | 36.3 | 0.98 | Sum of lost time (s) | 20.0 |
| | 7.3 | 40.8 | (C/I) Level of Service | E |
| | 57.1 | 91.3 | Intersection Capacity Utilization | 87.4% |
| | 15 | 15 | Analysis Period (min) | |
| c Critical Lane Group: | | | | |

2015 AM Peak BUILD Conditions

Existing Geometry
D:\ATOB\PROJECTS\Walmart_Montana_Coors\Syncro\2015ABX.sym

| Intersection Summary | HCM Average Control Delay | HCM Volume-to-Capacity ratio | HCM Level of Service | D |
|------------------------|---------------------------|------------------------------|-----------------------------------|-------|
| | 36.3 | 0.98 | Sum of lost time (s) | 20.0 |
| | 7.3 | 40.8 | (C/I) Level of Service | E |
| | 57.1 | 91.3 | Intersection Capacity Utilization | 87.4% |
| | 15 | 15 | Analysis Period (min) | |
| c Critical Lane Group: | | | | |

Timings
4: Dellyne Ave & Coors Blvd

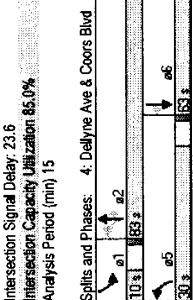
HCM Signalized Intersection Capacity Analysis
4: Dellyne Ave & Coors Blvd

Terry O. Brown, PE
11/22/2011 - Syncro 7

| Time Group | E BL | E BR | W BL | W BR | N BL | N BT | S BL | S BT | S BR |
|--|-------|-------|-------|-------|----------|-------|-------|-------|-------|
| Lane Configurations | 114 | 20 | 106 | 68 | 21 | 38 | 353 | 2486 | 44 |
| Volume (veh) | Prot | Perm | Prot | Perm | perm-ppt | Prot | perm | perm | perm |
| Turn Type | 7 | 4 | 3 | 8 | 5 | 2 | 2 | 2 | 1 |
| Protected Phases | 7 | 4 | 3 | 8 | 8 | 5 | 2 | 2 | 1 |
| Switch Phase | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 |
| Minimum Split (s) | 10.0 | 21.0 | 21.0 | 10.0 | 21.0 | 21.0 | 10.0 | 21.0 | 21.0 |
| Total Split (%) | 16.0 | 22.0 | 22.0 | 16.0 | 21.0 | 21.0 | 16.0 | 21.0 | 21.0 |
| Total Split (s) | 12.3% | 16.9% | 11.5% | 16.2% | 23.1% | 63.8% | 7.7% | 48.5% | 48.5% |
| Yellow Time (s) | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 |
| All-Red Time (s) | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| Lost Time Adjust (s) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Lost Time (s) | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 |
| Lead-Lag | Lead | Lead | Lead | Lead | Lead | Lead | Lead | Lead | Lead |
| Lead-Lag Optimize? | | | | | | | | | |
| Recall Mode | Min | Min | Min | Min | Min | Min | C-Max | C-Max | C-Max |
| Act Efft Green (s) | 11.0 | 9.2 | 9.2 | 9.5 | 7.7 | 7.7 | 84.1 | 84.1 | 84.1 |
| Actuated QC Ratio | 0.08 | 0.07 | 0.07 | 0.07 | 0.06 | 0.06 | 0.74 | 0.72 | 0.72 |
| vic Ratio | 0.86 | 0.17 | 0.54 | 0.69 | 0.26 | 0.36 | 0.84 | 0.48 | 0.48 |
| Control Delay | 103.6 | 59.1 | 18.9 | 84.8 | 63.2 | 22.2 | 53.0 | 17.0 | 0.5 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 103.6 | 59.1 | 18.9 | 84.8 | 63.2 | 22.2 | 53.0 | 17.0 | 0.5 |
| LOS | F | E | B | F | E | C | D | B | A |
| Approach Delay | 62.5 | 62.1 | 62.1 | 62.1 | 62.1 | 62.1 | 23.6 | 16.4 | B |
| Approach LOS | E | E | E | E | E | C | C | C | B |
| Control Type: Actuated-Coordinated | | | | | | | | | |
| Maximum v/c Ratio: 0.68 | | | | | | | | | |
| Intersection LOS: C | | | | | | | | | |
| ICU Level of Service: E | | | | | | | | | |
| Analysis Period (min) 15 | | | | | | | | | |
| Splits and Phases: 4: Dellyne Ave & Coors Blvd | | | | | | | | | |

Intersection Summary
Cycle Length: 130
Actuated Cycle Length: 130
Offset: 126 (97%) Referenced to phase 2:NBTL and 1:SBL Start of Green Natural Cycle: 100

Maximized v/c Ratio: 0.68
Intersection Signal Delay: 23.6
Intersection Capacity Utilization: 85.0%
Analysis Period (min) 15



Existing Geometry
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| Intersection Summary | HCM Average Control Delay | 23.6 | HCM Level of Service | C |
|----------------------|-----------------------------------|-------|----------------------|------|
| | HCM Volume to Capacity ratio | 0.82 | | |
| | Actuated Cycle Length (s) | 130.0 | Sum of lost time (s) | 20.0 |
| | Intersection Capacity Utilization | 85.0% | ICU Level of Service | E |
| | Analysis Period (min) | 15 | | |
| | Critical Lane Group | | | |

2015 PM Peak NOBUILD Conditions

Existing Geometry

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2015 PM Peak NOBUILD Conditions

Existing Geometry

Timings
4: Dellyne Ave & Coors Blvd

HCM Signalized Intersection Capacity Analysis
4: Dellyne Ave & Coors Blvd

Terry O. Brown, PE
11/22/2011 - Synchro 7

| Lane Group | E BL | E BT | N BL | N BT | N BR | S BL | S BT | S BR | | |
|--|-------|-------|-------|-------|-------|-------|-------|------|-------|-------|
| Lane Configurations | ↑↑↑ | ↑↑↑ | ↑↑↑ | ↑↑↑ | ↑↑↑ | ↑↑↑ | ↑↑↑ | ↑↑↑ | ↑↑↑ | ↑↑↑ |
| Volume (vph) | 179 | 20 | 236 | 82 | 70 | 353 | 121 | 75 | 2068 | 148 |
| Turn Type | Prot | Prot | Prot | Prot | Perm | Perm | Perm | Perm | Perm | Perm |
| Protected Phases | 7 | 4 | 3 | 8 | 5 | 2 | 2 | 1 | 3 | 6 |
| Permitted Phases | 7 | 4 | 3 | 8 | 8 | 2 | 2 | 1 | 6 | 6 |
| Detector Phase | | | | | | | | | | |
| Minimum Initial (s) | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 |
| Maximum Initial (s) | 10.0 | 21.0 | 21.0 | 21.0 | 21.0 | 21.0 | 21.0 | 21.0 | 21.0 | 21.0 |
| Total Split (%) | 18.0 | 24.0 | 18.0 | 21.0 | 28.0 | 81.0 | 81.0 | 19.0 | 63.0 | 63.0 |
| Total Split (%) | 13.8% | 16.2% | 13.8% | 16.2% | 21.5% | 62.3% | 62.3% | 7.7% | 48.5% | 48.5% |
| Yellow Time (s) | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 |
| All-Red Time (s) | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| Lost Time Adjust (s) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Lost Time (s) | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 |
| Lead-Lag Optimized? | Lead | Lead | Lead | Lead |
| Lead-Lag | Lead | Lead | Lead | Lead |
| Recall Mode | Min | Min | Min | Min | Min | Max | Max | Max | Max | Max |
| Actuated Green (s) | 12.0 | 11.8 | 13.0 | 12.8 | 90.2 | 78.7 | 78.7 | 65 | 90.2 | 59.1 |
| Actuated %/C Ratio | 0.08 | 0.08 | 0.10 | 0.10 | 0.10 | 0.69 | 0.61 | 0.45 | 0.69 | 0.51 |
| VC Ratio | 0.64 | 0.56 | 0.53 | 0.50 | 0.42 | 0.90 | 0.88 | 0.13 | 0.93 | 0.20 |
| Control Delay | 66.0 | 22.0 | 91.2 | 69.5 | 22.7 | 63.8 | 26.6 | 4.7 | 80.1 | 19.0 |
| Queue Delay | 66.0 | 22.0 | 91.2 | 69.5 | 22.7 | 63.8 | 26.6 | 4.7 | 80.1 | 19.0 |
| LOS | E | C | F | E | C | A | A | E | B | A |
| Approach Delay | 48.2 | 74.3 | 74.2 | 74.3 | 30.1 | 30.1 | 18.2 | 18.2 | 18.2 | 18.2 |
| Approach LOS | D | E | E | C | B | B | B | B | B | B |
| Control Type: Actuated-Coordinated | | | | | | | | | | |
| Maximum v/c Ratio: 0.93 | | | | | | | | | | |
| Intersection Signal Delay: 30.6 | | | | | | | | | | |
| Intersection Capacity Utilization: 90.5% | | | | | | | | | | |
| Analysis Period (min): 15 | | | | | | | | | | |
| Splits and Phases: 4: Dellyne Ave & Coors Blvd | | | | | | | | | | |

Intersection Summary
Cycle Length: 130
Actuated Cycle Length: 130
Offset: 120.92% Referenced to phase 2 NBTL and 3 SBT, Start of Green
Natural Cycle: 110
Control Type: Actuated-Coordinated

Intersection LOS: C
ICU Level of Service: E
Analysis Period (min): 15
Splits and Phases: 4: Dellyne Ave & Coors Blvd

| Intersection Summary | HCM Average Control Delay | 30.9 | HCM Level of Service | C |
|------------------------|-----------------------------------|-------|------------------------|------|
| | HCM Volume to Capacity ratio | 0.82 | | |
| | Actuated Cycle Length (s) | 130.0 | Sum of lost time (s) | 10.0 |
| | Intersection Capacity Utilization | 90.5% | [ICU Level of Service] | E |
| c: Critical Lane Group | Analysis Period (min) | 15 | | |

2015 PM Peak BUILD Conditions
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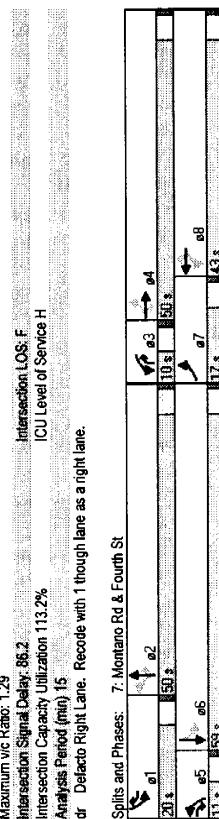
Existing Geometry
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Existing Geometry
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Terry O. Brown, PE
11/22/2011 - Synchro 7

HCM Signalized Intersection Capacity Analysis
7: Montana Rd & Fourth St

| Lane Group | EBL | EBC | EBR | WBL | WBR | NBL | NBR | SBL | SBR | SWT |
|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Lane Configurations | ↑↑ | ↑↑ | ↑↑ | ↑↑ | ↑↑ | ↑↑ | ↑↑ | ↑↑ | ↑↑ | ↑↑ |
| Volume (vph) | 157 | 1238 | 505 | 127 | 278 | 69 | 218 | 424 | 188 | 204 |
| Turn Type | pm+ov | pm+pt |
| Protected Phases | 4 | 5 | 3 | 8 | 1 | 5 | 2 | 3 | 1 | 6 |
| Permitted Phases | 4 | 4 | 3 | 8 | 2 | 2 | 2 | 6 | | |
| Detector Phase | 7 | 4 | 5 | 3 | 8 | 1 | 5 | 2 | 3 | 1 |
| Switch Phase | | | | | | | | | | |
| Minimum Initial (s) | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 |
| Minimum Split (s) | 10.0 | 21.0 | 10.0 | 21.0 | 10.0 | 21.0 | 10.0 | 21.0 | 10.0 | 21.0 |
| Total Split (s) | 17.0 | 50.0 | 11.0 | 10.0 | 13.0 | 20.0 | 11.0 | 50.0 | 10.0 | 39.0 |
| Total Split (%) | 13.1% | 38.5% | 8.5% | 7.7% | 33.1% | 15.4% | 8.5% | 38.5% | 7.7% | 15.4% |
| Yellow Time (s) | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 |
| All-Red Time (s) | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| Lost Time Adjust (s) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Lost Time (s) | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 |
| Lead-Lag | Lead |
| Lead-Lag Optimize? | | | | | | | | | | |
| Recall Mode | None | None | None | None | None | None | Max | None | None | Max |
| Actuated Green (s) | 54.9 | 45.0 | 56.0 | 43.6 | 38.6 | 57.2 | 52.3 | 46.3 | 64.9 | 54.0 |
| Actuated g/C Ratio | 0.42 | 0.35 | 0.43 | 0.34 | 0.30 | 0.44 | 0.40 | 0.36 | 0.42 | 0.40 |
| vc Ratio | 0.50 | 1.19 | 0.73 | 1.29 | 0.46 | 0.12 | 0.99 | 0.41 | 0.32 | 0.53 |
| Control Delay | 29.4 | 131.5 | 27.2 | 207.0 | 39.1 | 4.6 | 79.1 | 33.1 | 179.3 | 113.6 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 28.4 | 131.5 | 27.2 | 207.0 | 39.1 | 4.6 | 79.1 | 33.1 | 179.3 | 113.6 |
| LOS | C | F | C | F | D | A | E | C | B | F |
| Approach Delay | 98.5 | 103.1 | 98.5 | 103.1 | 44.7 | 72.2 | 44.7 | 72.2 | 103.1 | 103.1 |
| Approach LOS | F | F | E | E | D | E | D | E | F | F |
| Intersection Summary | | | | | | | | | | |
| Cycle Length (s) | 130 | | | | | | | | | |
| Actuated Cycle Length (s) | 130 | | | | | | | | | |
| Natural Cycle (s) | 130 | | | | | | | | | |
| Control Type: Semi Act-Uncoord. | | | | | | | | | | |
| Maximum v/c Ratio: 1.29 | | | | | | | | | | |
| Intersection LOS: F | | | | | | | | | | |
| Analysis Period (min): 15 | | | | | | | | | | |
| dr Detach Right Lane. Recode with 1 thought lane as a right lane. | | | | | | | | | | |
| Splits and Phases: 7: Montana Rd & Fourth St | | | | | | | | | | |



| Intersection Summary | HCM Average Control Delay | 93.6 | HCM Level of Service | F |
|-----------------------|--|--------|------------------------|------|
| | HCM Volume to Capacity ratio | 1.25 | | |
| | Actuated Cycle Length (s) | 130 | Sum of lost time (s) | 25.0 |
| | Intersection Capacity Utilization | 133.2% | (CLU) Level of Service | H |
| | Analysis Period (min) | 15 | | |
| | Detach Right Lane. Recode with 1 thought lane as a right lane. | | | |
| c Critical Lane Group | | | | |



Existing Geometry
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2015 AM Peak NOBUILD Conditions

Existing Geometry
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Existing Geometry
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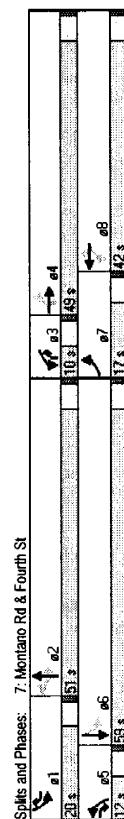
Timings
7: Montana Rd & Fourth St

HCM Signalized Intersection Capacity Analysis
7: Montana Rd & Fourth St

Terry O. Brown, PE
11/22/2011 - Synchro 7

| Lane Group | E BL | E BT | E WL | E WB | N BL | N BT | N BR | N BL | S BL | S BT | S BL | S BT |
|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|
| Lane Configurations | ↑↑ | ↑↑ | ↑↑ | ↑↑ | ↑↑ | ↑↑ | ↑↑ | ↑↑ | ↑↑ | ↑↑ | ↑↑ | ↑↑ |
| Volume (vph) | 172 | 1333 | 551 | 127 | 387 | 69 | 274 | 424 | 188 | 204 | 516 | 113 |
| Turn Type | pm+pt | pm+cv | pm+cv | pm+pt | pm+cv | pm+pt | pm+cv | pm+pt | pm+cv | pm+cv | pm+cv | pm+cv |
| Protected Phases | 7 | 4 | 5 | 3 | 8 | 1 | 5 | 2 | 3 | 1 | 6 | 1 |
| Permitted Phases | 4 | 4 | 3 | 3 | 8 | 2 | 2 | 2 | 6 | 1 | 6 | 1 |
| Detector Phase | 7 | 4 | 5 | 3 | 8 | 1 | 6 | 2 | 3 | 1 | 6 | 1 |
| Switch Phase | | | | | | | | | | | | |
| Minimum Initial (s) | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 |
| Maximum Initial (s) | 10.0 | 21.0 | 10.0 | 21.0 | 10.0 | 21.0 | 10.0 | 21.0 | 10.0 | 21.0 | 10.0 | 21.0 |
| Total Split (%) | 17.0 | 49.0 | 12.9 | 10.0 | 42.0 | 20.0 | 12.0 | 51.0 | 10.0 | 20.0 | 59.0 | 14.5 |
| Total Split (%) | 13.1% | 37.7% | 9.2% | 7.7% | 32.3% | 15.4% | 9.2% | 39.2% | 7.7% | 15.4% | 45.4% | 10.1% |
| Yellow Time (s) | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 |
| All-Red Time (s) | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| Lost Time Adjust (s) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Lost Time (s) | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 |
| Lead-Lag | Lead | Lead |
| Lead-Lag Optimize? | None | None |
| Recall Mode | None | None |
| Recall Factor | 54.0 | 44.0 | 56.0 | 42.4 | 37.4 | 56.0 | 54.4 | 47.4 | 65.7 | 54.4 | 54.0 | 54.0 |
| Actuated Green (s) | 54.0 | 44.0 | 56.0 | 42.4 | 37.4 | 56.0 | 54.4 | 47.4 | 65.7 | 54.4 | 54.0 | 54.0 |
| Actuated g/C Ratio | 0.42 | 0.34 | 0.43 | 0.33 | 0.29 | 0.43 | 0.42 | 0.36 | 0.51 | 0.42 | 0.42 | 0.42 |
| Vc Ratio | 0.57 | 1.25 | 0.79 | 1.30 | 0.49 | 0.12 | 1.13 | 0.40 | 0.31 | 0.52 | 1.06dr | 0.50 |
| Control Delay | 32.3 | 156.2 | 31.5 | 211.5 | 40.4 | 40.4 | 57.4 | 32.2 | 17.2 | 22.8 | 123.1 | 30.0 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 32.3 | 156.2 | 31.5 | 211.5 | 40.4 | 40.4 | 57.4 | 32.2 | 17.2 | 22.8 | 123.1 | 30.0 |
| LOS | C | F | C | F | D | A | F | C | B | C | F | F |
| Approach Delay | 112.4 | 73.5 | 112.4 | 73.5 | 56.0 | 56.0 | 111.5 | 73.5 | 56.0 | 56.0 | 111.5 | 73.5 |
| Approach LOS | F | F | E | E | E | E | F | F | F | F | F | F |
| Intersection Summary | | | | | | | | | | | | |
| Cycle Length: | 130 | | | | | | | | | | | |
| Actualized Cycle Length: | 130 | | | | | | | | | | | |
| Natural Cycle: | 130 | | | | | | | | | | | |
| Control Type: Semi Auto-Uncoord | | | | | | | | | | | | |
| Maximum v/c Ratio: 1.30 | | | | | | | | | | | | |
| Intersection Signal Delay: 97.4 | | | | | | | | | | | | |
| Intersection Capacity Utilization: 116.4% | | | | | | | | | | | | |
| Analysis Period (min): 15 | | | | | | | | | | | | |
| d) Detach Right Lane: Recode with 1 through lane as a right lane. | | | | | | | | | | | | |
| Splits and Phases: 7: Montana Rd & Fourth St | | | | | | | | | | | | |

Intersection LOS: F
ICU Level of Service H
Sum of lost time (s) 20.0
ICU Level of Service H
Analysis Period (min) 15
d) Detach Right Lane: Recode with 1 through lane as a right lane.
c Critical Lane Group



2015 AM Peak Build Conditions

Existing Geometry
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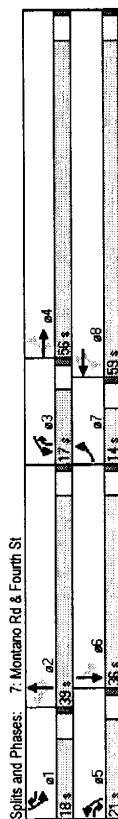
Existing Geometry
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Timings
7: Montana Rd & Fourth St

HCM Signalized Intersection Capacity Analysis
7: Montana Rd & Fourth St

Terry O. Brown, PE
11/22/2011 - Synchro 7

| Lane Group | EBL | EST | EER | WBL | WBR | NBL | NBR | SBL | SBR |
|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Lane Configurations | ↑↑ | ↑↑ | ↑↑ | ↑↑ | ↑↑ | ↑↑ | ↑↑ | ↑↑ | ↑↑ |
| Total Volume (vph) | 149 | 620 | 264 | 180 | 1276 | 202 | 436 | 585 | 166 |
| Turn Type | pm+pt | pm+ov | pm+pt | pm+ov | pm+pt | pm+ov | pm+pt | pm+ov | pm+pt |
| Protected Phases | 7 | 4 | 5 | 3 | 8 | 1 | 5 | 2 | 3 |
| Permitted Phases | 4 | 4 | 3 | 3 | 8 | 1 | 5 | 2 | 3 |
| Detector Phase | 7 | 4 | 5 | 3 | 8 | 1 | 5 | 2 | 3 |
| Switch Phase | | | | | | | | | |
| Minimum Initial (s) | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 |
| Minimum Split (s) | 10.0 | 21.0 | 10.0 | 21.0 | 10.0 | 21.0 | 10.0 | 21.0 | 10.0 |
| Total Split (%) | 10.8% | 43.1% | 14.0 | 56.0 | 21.0 | 17.0 | 59.0 | 18.0 | 36.0 |
| Total Split (%) | 10.8% | 43.1% | 16.2% | 13.1% | 45.4% | 13.8% | 16.2% | 30.0% | 13.8% |
| Yellow Time (s) | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 |
| All-Red Time (s) | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| Lost Time Adjust (s) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Lost Time (s) | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 |
| Lead-Lag | Lead |
| Lead-Lag Optimized? | None | None | None | None | None | CMax | None | CMax | None |
| Recall Mode | None |
| Act Efft Green (s) | 60.9 | 51.9 | 72.9 | 65.1 | 54.0 | 71.5 | 50.4 | 34.5 | 43.5 |
| Actuated g/C Ratio | 0.47 | 0.40 | 0.46 | 0.50 | 0.42 | 0.55 | 0.38 | 0.27 | 0.39 |
| Vc Ratio | 0.88 | 0.47 | 0.30 | 0.48 | 0.96 | 0.25 | 0.93 | 0.58 | 0.27 |
| Control Delay | 74.7 | 38.2 | 77.8 | 21.0 | 53.5 | 11.3 | 59.7 | 47.4 | 85.5 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 74.7 | 39.2 | 77.8 | 21.0 | 53.5 | 11.3 | 59.7 | 47.4 | 85.5 |
| LOS | E | D | B | C | D | B | E | D | E |
| Approach Delay | 38.9 | 45.1 | 46.5 | 45.1 | 46.5 | 45.1 | 46.5 | 45.2 | 45.1 |
| Approach LOS | D | D | D | D | D | D | D | D | D |
| Intersection Summary | | | | | | | | | |
| Cycle Length: | 130 | | | | | | | | |
| Intersection LOS: D | | | | | | | | | |
| ICU Level of Service F | | | | | | | | | |
| Offset: 44 (34%) Referenced to phase 2:NBTI and 6:SNTI, Start of Green | | | | | | | | | |
| Natural Cycle: 90 | | | | | | | | | |
| Control Type: Actuated-Coordinated | | | | | | | | | |
| Maximum v/c Ratio: 0.96 | | | | | | | | | |
| Intersection Signal Delay: 46.1 | | | | | | | | | |
| Intersection Capacity Utilization: 91.8% | | | | | | | | | |
| Analysis Period (min): 15 | | | | | | | | | |
| Splits and Phases: 7: Montana Rd & Fourth St | | | | | | | | | |



| HCM Average Control Delay | 47.6 | HCM Level of Service | D |
|-----------------------------------|-------|----------------------|------|
| Incremental Delay: 0.2 | 33.6 | 0.2 | 23.2 |
| Actuated Cycle Length (s) | 130.0 | 0.1 | 8.1 |
| Intersection Capacity Utilization | 91.8% | 0.02 | 0.02 |
| Analysis Period (min) | 15 | 0.05 | 0.05 |
| Critical Lane Group | | | |

Intersection Summary
HCM Average Control Delay: 47.6 HCM Level of Service: D
Incremental Delay: 0.2 HCM Volume to Capacity ratio: 0.92
Actuated Cycle Length (s): 130.0 Sum of lost time (s): 15.0
Intersection Capacity Utilization: 91.8% ICU Level of Service: F
Analysis Period (min): 15
Critical Lane Group: C

2015 PM Peak NOBUILD Conditions
Existing Geometry
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Existing Geometry
D:\ATOBEP\PROJECTS\Walmar_Montana_Coors\Syncro2015PMX.syn

| Timings 7: Montana Rd & Fourth St | | | | | | | | | | | |
|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Lane Group | EBL | EBT | EBR | WB1 | WB2 | WB3 | NBT | NBR | NBL | SBL | SBT |
| Lane Configurations | ↑↑ | ↑↑ | ↑↑ | ↑↑ | ↑↑ | ↑↑ | ↑↑ | ↑↑ | ↑↑ | ↑↑ | ↑↑ |
| Volume (vph) | 201 | 638 | 388 | 160 | 1311 | 202 | 572 | 565 | 166 | 176 | 520 |
| Turn Type | pm+pt | pm+ov | pm+pt | pm+ov | pm+ov | pm+pt | pm+ov | pm+pt | pm+ov | pm+ov | pm+ov |
| Protected Phases | 7 | 4 | 5 | 3 | 8 | 8 | 1 | 5 | 2 | 3 | 1 |
| Permitted Phases | 4 | 4 | 8 | 8 | 1 | 5 | 2 | 2 | 2 | 6 | 6 |
| Detector Phase | 7 | 4 | 5 | 3 | 8 | 1 | 5 | 2 | 3 | 1 | 6 |
| Switch Phase | | | | | | | | | | | |
| Minimum Initial (s) | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 |
| Minimum Split (s) | 10.0 | 21.0 | 10.0 | 21.0 | 10.0 | 21.0 | 10.0 | 21.0 | 10.0 | 21.0 | 10.0 |
| Total Split (%) | 16.0 | 55.0 | 26.0 | 17.0 | 56.0 | 20.0 | 25.0 | 38.0 | 17.0 | 20.0 | 33.0 |
| Total Split (%) | 12.3% | 42.3% | 13.1% | 15.1% | 15.4% | 19.2% | 13.1% | 15.4% | 25.4% | 17.0% | 20.0% |
| Yellow Time (s) | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 |
| All-Red Time (s) | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| Lost Time Adjust (s) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Lost Time (s) | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 |
| Lead/Lag Optimized? | Lead |
| Lead-Lag | Lead |
| Recall Mode | Min |
| Act Efft Green (s) | 61.9 | 50.9 | 75.9 | 62.1 | 51.0 | 69.6 | 53.0 | 34.4 | 50.5 | 41.6 | 26.0 |
| Actuated g/C Ratio | 0.48 | 0.38 | 0.58 | 0.48 | 0.39 | 0.54 | 0.41 | 0.26 | 0.32 | 0.22 | 0.22 |
| V/C Ratio | 1.03 | 0.49 | 1.49 | 0.42 | 0.50 | 1.05 | 0.26 | 1.02 | 0.58 | 0.67 | 1.05 |
| Control Delay | 105.5 | 31.5 | 11.5 | 22.2 | 76.4 | 76.4 | 47.7 | 87 | 30.9 | 94.2 | 105.5 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 105.5 | 31.5 | 11.5 | 22.2 | 76.4 | 12.6 | 76.4 | 47.7 | 87 | 30.9 | 94.2 |
| LOS | F | C | B | C | E | B | E | D | A | D | F |
| Approach Delay | 37.3 | 3.3 | 3.3 | 63.6 | 3.3 | 63.6 | 55.4 | 55.4 | 83.4 | 83.4 | 83.4 |
| Approach LOS | D | E | E | E | E | E | E | E | E | E | F |
| Intersection Summary | | | | | | | | | | | |
| Intersection Signal Delay: 58.8 | | | | | | | | | | | |
| Intersection Capacity Utilization: 101.3% | | | | | | | | | | | |
| Analysis Period (min): 15 | | | | | | | | | | | |
| Spans and Phases: 7: Montana Rd & Fourth St | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 |
| Maximum v/c Ratio: 1.05 | | | | | | | | | | | |
| Cycle Length: 130 | | | | | | | | | | | |
| Natural Cycle: 110 | | | | | | | | | | | |
| Control Type: Semi Act-Uncoord | | | | | | | | | | | |

| HCM Signalized Intersection Capacity Analysis 7: Montana Rd & Fourth St | | | | | | | | | | | |
|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Movement | EBL | EBT | EBR | WB1 | WB2 | WB3 | NBT | NBR | NBL | SBL | SBT |
| Lane Configurations | ↑↑ | ↑↑ | ↑↑ | ↑↑ | ↑↑ | ↑↑ | ↑↑ | ↑↑ | ↑↑ | ↑↑ | ↑↑ |
| Volume (vph) | 201 | 638 | 388 | 160 | 1311 | 202 | 572 | 565 | 166 | 176 | 520 |
| Protected Phases | 7 | 4 | 5 | 3 | 8 | 8 | 1 | 5 | 2 | 3 | 1 |
| Permitted Phases | 4 | 4 | 8 | 8 | 1 | 5 | 2 | 2 | 2 | 6 | 6 |
| Detector Phase | 7 | 4 | 5 | 3 | 8 | 1 | 5 | 2 | 3 | 1 | 6 |
| Switch Phase | | | | | | | | | | | |
| Minimum Initial (s) | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 |
| Minimum Split (s) | 10.0 | 21.0 | 10.0 | 21.0 | 10.0 | 21.0 | 10.0 | 21.0 | 10.0 | 21.0 | 10.0 |
| Total Split (%) | 16.0 | 55.0 | 26.0 | 17.0 | 56.0 | 20.0 | 25.0 | 38.0 | 17.0 | 20.0 | 33.0 |
| Total Split (%) | 12.3% | 42.3% | 13.1% | 15.1% | 15.4% | 19.2% | 13.1% | 15.4% | 25.4% | 17.0% | 20.0% |
| Yellow Time (s) | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 |
| All-Red Time (s) | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| Lost Time Adjust (s) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Lost Time (s) | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 |
| Lead/Lag Optimized? | Lead |
| Lead-Lag | Lead |
| Recall Mode | Min |
| Act Efft Green (s) | 61.9 | 50.9 | 75.9 | 62.1 | 51.0 | 69.6 | 53.0 | 34.4 | 50.5 | 41.6 | 26.0 |
| Actuated g/C Ratio | 0.48 | 0.38 | 0.58 | 0.48 | 0.39 | 0.54 | 0.41 | 0.26 | 0.32 | 0.22 | 0.22 |
| V/C Ratio | 1.03 | 0.49 | 1.49 | 0.42 | 0.50 | 1.05 | 0.26 | 1.02 | 0.58 | 0.67 | 1.05 |
| Control Delay | 105.5 | 31.5 | 11.5 | 22.2 | 76.4 | 76.4 | 47.7 | 87 | 30.9 | 94.2 | 105.5 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 105.5 | 31.5 | 11.5 | 22.2 | 76.4 | 12.6 | 76.4 | 47.7 | 87 | 30.9 | 94.2 |
| LOS | F | C | B | C | E | B | E | D | A | D | F |
| Approach Delay | 37.3 | 3.3 | 3.3 | 63.6 | 3.3 | 63.6 | 55.4 | 55.4 | 83.4 | 83.4 | 83.4 |
| Approach LOS | D | E | E | E | E | E | E | E | E | E | F |
| Intersection Summary | | | | | | | | | | | |
| Intersection Signal Delay: 58.8 | | | | | | | | | | | |
| Intersection Capacity Utilization: 101.3% | | | | | | | | | | | |
| Analysis Period (min): 15 | | | | | | | | | | | |
| Spans and Phases: 7: Montana Rd & Fourth St | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 |
| Maximum v/c Ratio: 1.05 | | | | | | | | | | | |
| Cycle Length: 130 | | | | | | | | | | | |
| Natural Cycle: 110 | | | | | | | | | | | |
| Control Type: Semi Act-Uncoord | | | | | | | | | | | |

| | |
|--|--|
| 2015 PM Peak BUILD Conditions | Existing Geometry |
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| 2015 PM Peak BUILD Conditions | Existing Geometry |
| DATEB0EPROJECTSWalmart_Montana_CoorsSynchro2015PBX.sym | DATEB0EPROJECTSWalmart_Montana_CoorsSynchro2015PBX.sym |

HCM Unsigned Intersection Capacity Analysis
8: Montano Rd & Winterhaven Rd

Terry O. Brown, PE
11/22/2011 - Synchro 7

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|-----------------------------------|------|------|------|-------|------|------|------|------|------|------|------|------|
| Lane Configurations | ↑ | ↑↑ | ↑ | ↑ | ↑↑ | | | | ↑ | | | ↑ |
| Volume (veh/h) | 28 | 2154 | 31 | 95 | 437 | 53 | 0 | 0 | 64 | 0 | 0 | 31 |
| Sign Control | Free | | | Free | | | Stop | | | Stop | | |
| Grade | 0% | | | 0% | | | 0% | | | 0% | | |
| Peak Hour Factor | 0.85 | 0.85 | 0.85 | 0.83 | 0.83 | 0.83 | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 |
| Hourly flow rate (vph) | 33 | 2534 | 36 | 114 | 527 | 64 | 0 | 0 | 75 | 0 | 0 | 36 |
| Pedestrians | | | | | | | | | | | | |
| Lane Width (ft) | | | | | | | | | | | | |
| Walking Speed (ft/s) | | | | | | | | | | | | |
| Percent Blockage | | | | | | | | | | | | |
| Right turn flare (veh) | | | | | | | | | | | | |
| Median type | None | | | None | | | | | | | | |
| Median storage veh | | | | | | | | | | | | |
| Upstream signal (ft) | 801 | | | 0.71 | | | 0.71 | 0.71 | 0.71 | 0.71 | 0.71 | 0.71 |
| pX, platoon unblocked | | | | | | | | | | | | |
| vC, conflicting volume | 590 | | | 2571 | | | 3129 | 3419 | 1267 | 2196 | 3424 | 295 |
| vC1, stage 1 conf vol | | | | | | | | | | | | |
| vC2, stage 2 conf vol | | | | | | | | | | | | |
| vCu, unblocked vol | 590 | | | 2393 | | | 3182 | 3593 | 551 | 1863 | 3599 | 295 |
| tC, single (s) | 4.2 | | | 4.2 | | | 7.6 | 6.6 | 7.0 | 7.6 | 6.6 | 7.0 |
| tC, 2 stage (s) | | | | | | | | | | | | |
| tF (s) | 2.2 | | | 2.2 | | | 3.5 | 4.0 | 3.3 | 3.5 | 4.0 | 3.3 |
| p0 queue free % | 97 | | | 17 | | | 100 | 100 | 78 | 100 | 100 | 95 |
| cM capacity (veh/h) | 974 | | | 138 | | | 1 | 1 | 337 | 7 | 1 | 698 |
| Direction, Lane # | EB 1 | EB 2 | EB 3 | EB 4 | WB 1 | WB 2 | WB 3 | NB 1 | SB 1 | | | |
| Volume Total | 33 | 1267 | 1267 | 36 | 114 | 351 | 239 | 75 | 36 | | | |
| Volume Left | 33 | 0 | 0 | 0 | 114 | 0 | 0 | 0 | 0 | | | |
| Volume Right | 0 | 0 | 0 | 36 | 0 | 0 | 64 | 75 | 36 | | | |
| cSH | 974 | 1700 | 1700 | 1700 | 138 | 1700 | 1700 | 337 | 698 | | | |
| Volume to Capacity | 0.03 | 0.75 | 0.75 | 0.02 | 0.83 | 0.21 | 0.14 | 0.22 | 0.05 | | | |
| Queue Length 95th (ft) | 3 | 0 | 0 | 0 | 131 | 0 | 0 | 21 | 4 | | | |
| Control Delay (s) | 8.8 | 0.0 | 0.0 | 0.0 | 98.7 | 0.0 | 0.0 | 18.7 | 10.4 | | | |
| Lane LOS | A | | | | F | | | C | B | | | |
| Approach Delay (s) | 0.1 | | | | 16.0 | | | 18.7 | 10.4 | | | |
| Approach LOS | | | | | | | | C | B | | | |
| Intersection Summary | | | | | | | | | | | | |
| Average Delay | | | | 3.9 | | | | | | | | |
| Intersection Capacity Utilization | | | | 71.5% | | | | | | | | |
| Analysis Period (min) | | | | 15 | | | | | | | | |

2015 AM Peak NOBUILD Conditions

Existing Geometry

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HCM Unsignalized Intersection Capacity Analysis
8: Montano Rd & Winterhaven Rd

Terry O. Brown, PE
11/22/2011 - Synchro 7



| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|------------------------|------|------|------|------|-------|------|------|------|------|------|------|------|
| Lane Configurations | ↑ | ↑↑ | ↑ | ↑ | ↑↑ | ↑↑ | ↑ | ↑ | ↑ | ↑ | ↑ | ↑ |
| Volume (veh/h) | 29 | 2163 | 37 | 100 | 519 | 53 | 0 | 0 | 141 | 0 | 0 | 34 |
| Sign Control | Free | | | Free | | | Stop | | | Stop | | |
| Grade | 0% | | | 0% | | | 0% | | | 0% | | |
| Peak Hour Factor | 0.85 | 0.85 | 0.85 | 0.83 | 0.83 | 0.83 | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 |
| Hourly flow rate (vph) | 34 | 2545 | 44 | 120 | 625 | 64 | 0 | 0 | 166 | 0 | 0 | 40 |
| Pedestrians | | | | | | | | | | | | |
| Lane Width (ft) | | | | | | | | | | | | |
| Walking Speed (ft/s) | | | | | | | | | | | | |
| Percent Blockage | | | | | | | | | | | | |
| Right turn flare (veh) | | | | | | | | | | | | |
| Median type | | None | | | None | | | | | | | |
| Median storage veh | | | | | | | | | | | | |
| Upstream signal (ft) | | 801 | | | 0.70 | | 0.70 | 0.70 | 0.70 | 0.70 | 0.70 | 0.70 |
| pX, platoon unblocked | | | | | | | | | | | | |
| vC, conflicting volume | 689 | | | 2588 | | | 3207 | 3543 | 1272 | 2405 | 3555 | 345 |
| vC1, stage 1 conf vol | | | | | | | | | | | | |
| vC2, stage 2 conf vol | | | | | | | | | | | | |
| vCu, unblocked vol | 689 | | | 2411 | | | 3295 | 3777 | 529 | 2148 | 3793 | 345 |
| tC, single (s) | 4.2 | | | 4.2 | | | 7.6 | 6.6 | 7.0 | 7.6 | 6.6 | 7.0 |
| tC, 2 stage (s) | | | | | | | | | | | | |
| tF (s) | 2.2 | | | 2.2 | | | 3.5 | 4.0 | 3.3 | 3.5 | 4.0 | 3.3 |
| p0 queue free % | 96 | | | 10 | | | 100 | 100 | 52 | 100 | 100 | 94 |
| cM capacity (veh/h) | 894 | | | 134 | | | 0 | 0 | 344 | 2 | 0 | 649 |
| Direction\ Lane # | EB 1 | EB 2 | EB 3 | EB 4 | WB 1 | WB 2 | WB 3 | NB 1 | SB 1 | | | |
| Volume Total | 34 | 1272 | 1272 | 44 | 120 | 417 | 272 | 166 | 40 | | | |
| Volume Left | 34 | 0 | 0 | 0 | 120 | 0 | 0 | 0 | 0 | | | |
| Volume Right | 0 | 0 | 0 | 44 | 0 | 0 | 64 | 166 | 40 | | | |
| cSH | 894 | 1700 | 1700 | 1700 | 134 | 1700 | 1700 | 344 | 649 | | | |
| Volume to Capacity | 0.04 | 0.75 | 0.75 | 0.03 | 0.90 | 0.25 | 0.16 | 0.48 | 0.06 | | | |
| Queue Length 95th (ft) | 3 | 0 | 0 | 0 | 148 | 0 | 0 | 63 | 5 | | | |
| Control Delay (s) | 9.2 | 0.0 | 0.0 | 0.0 | 115.8 | 0.0 | 0.0 | 24.9 | 10.9 | | | |
| Lane LOS | A | | | | F | | | C | B | | | |
| Approach Delay (s) | 0.1 | | | | 17.2 | | | 24.9 | 10.9 | | | |
| Approach LOS | | | | | | | | C | B | | | |

Intersection Summary

| | | |
|-----------------------------------|-------|----------------------|
| Average Delay | 5.2 | |
| Intersection Capacity Utilization | 75.2% | ICU Level of Service |
| Analysis Period (min) | 15 | D |

2015 AM Peak BUILD Conditions

Existing Geometry
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HCM Unsignalized Intersection Capacity Analysis
8: Montano Rd & Winterhaven Rd

Terry O. Brown, PE
11/22/2011 - Synchro 7

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|-----------------------------------|------|------|------|-------|------|------|------|------|------|------|------|------|
| Lane Configurations | ↑ | ↑↑ | ↑ | ↑ | ↑↑ | 342 | 0 | 0 | ↑ | 0 | 0 | 73 |
| Volume (veh/h) | 61 | 786 | 16 | 75 | 1434 | 342 | 0 | 0 | 63 | 0 | 0 | 73 |
| Sign Control | Free | | | Free | | | Stop | | | Stop | | Stop |
| Grade | 0% | | | 0% | | | 0% | | | 0% | | 0% |
| Peak Hour Factor | 0.97 | 0.97 | 0.97 | 0.95 | 0.95 | 0.95 | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 |
| Hourly flow rate (vph) | 63 | 810 | 16 | 79 | 1509 | 360 | 0 | 0 | 74 | 0 | 0 | 86 |
| Pedestrians | | | | | | | | | | | | |
| Lane Width (ft) | | | | | | | | | | | | |
| Walking Speed (ft/s) | | | | | | | | | | | | |
| Percent Blockage | | | | | | | | | | | | |
| Right turn flare (veh) | | | | | | | | | | | | |
| Median type | | None | | | None | | | | | | | |
| Median storage veh | | | | | | | | | | | | |
| Upstream signal (ft) | | 801 | | | 0.96 | | 0.96 | 0.96 | 0.96 | 0.96 | 0.96 | 0.96 |
| pX, platoon unblocked | | | | | | | | | | | | |
| vC, conflicting volume | 1869 | | | | 827 | | 1935 | 2963 | 405 | 2452 | 2800 | 935 |
| vC1, stage 1 conf vol | | | | | | | | | | | | |
| vC2, stage 2 conf vol | | | | | | | | | | | | |
| vCu, unblocked vol | 1869 | | | | 748 | | 1896 | 2962 | 311 | 2433 | 2793 | 935 |
| tC, single (s) | 4.2 | | | | 4.2 | | 7.6 | 6.6 | 7.0 | 7.6 | 6.6 | 7.0 |
| tC, 2 stage (s) | | | | | | | | | | | | |
| tF (s) | 2.2 | | | | 2.2 | | 3.5 | 4.0 | 3.3 | 3.5 | 4.0 | 3.3 |
| p0 queue free % | 80 | | | | 90 | | 100 | 100 | 89 | 100 | 100 | 68 |
| cM capacity (veh/h) | 314 | | | | 820 | | 21 | 10 | 658 | 11 | 13 | 265 |
| Direction, Lane # | EB 1 | EB 2 | EB 3 | EB 4 | WB 1 | WB 2 | WB 3 | NB 1 | SB 1 | | | |
| Volume Total | 63 | 405 | 405 | 16 | 79 | 1006 | 863 | 74 | 86 | | | |
| Volume Left | 63 | 0 | 0 | 0 | 79 | 0 | 0 | 0 | 0 | | | |
| Volume Right | 0 | 0 | 0 | 16 | 0 | 0 | 360 | 74 | 86 | | | |
| cSH | 314 | 1700 | 1700 | 1700 | 820 | 1700 | 1700 | 658 | 265 | | | |
| Volume to Capacity | 0.20 | 0.24 | 0.24 | 0.01 | 0.10 | 0.59 | 0.51 | 0.11 | 0.32 | | | |
| Queue Length 95th (ft) | 18 | 0 | 0 | 0 | 8 | 0 | 0 | 9 | 34 | | | |
| Control Delay (s) | 19.3 | 0.0 | 0.0 | 0.0 | 9.9 | 0.0 | 0.0 | 11.2 | 25.0 | | | |
| Lane LOS | C | | | | A | | | B | C | | | |
| Approach Delay (s) | 1.4 | | | | 0.4 | | | 11.2 | 25.0 | | | |
| Approach LOS | | | | | | | | B | C | | | |
| Intersection Summary | | | | | | | | | | | | |
| Average Delay | | | | 1.7 | | | | | | | | |
| Intersection Capacity Utilization | | | | 61.7% | | | | | | | | |
| Analysis Period (min) | | | | 15 | | | | | | | | |

2015 PM Peak NOBUILD Conditions

Existing Geometry

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HCM Unsignalized Intersection Capacity Analysis
8: Montano Rd & Winterhaven Rd

Terry O. Brown, PE
11/22/2011 - Synchro 7



| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Lane Configurations | ↑ | ↑↑ | ↑ | ↑ | ↑↑ | ↑↑ | 0 | 0 | ↑ | 0 | 0 | ↑ |
| Volume (veh/h) | 66 | 853 | 29 | 324 | 1409 | 342 | 0 | 0 | 189 | 0 | 0 | 78 |
| Sign Control | Free | | | | Free | | | Stop | | | Stop | |
| Grade | 0% | | | | 0% | | | 0% | | | 0% | |
| Peak Hour Factor | 0.97 | 0.97 | 0.97 | 0.95 | 0.95 | 0.95 | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 |
| Hourly flow rate (vph) | 68 | 879 | 30 | 341 | 1483 | 360 | 0 | 0 | 222 | 0 | 0 | 92 |
| Pedestrians | | | | | | | | | | | | |
| Lane Width (ft) | | | | | | | | | | | | |
| Walking Speed (ft/s) | | | | | | | | | | | | |
| Percent Blockage | | | | | | | | | | | | |
| Right turn flare (veh) | | | | | | | | | | | | |
| Median type | None | | | | None | | | | | | | |
| Median storage veh | | | | | | | | | | | | |
| Upstream signal (ft) | | 801 | | | | 0.96 | | | | 0.96 | | 0.96 |
| pX, platoon unblocked | | | | | | 0.96 | | | | 0.96 | | 0.96 |
| vC, conflicting volume | 1843 | | | | 909 | | 2531 | 3541 | 440 | 3143 | 3391 | 922 |
| vC1, stage 1 conf vol | | | | | | | | | | | | |
| vC2, stage 2 conf vol | | | | | | | | | | | | |
| vCu, unblocked vol | 1843 | | | | 824 | | 2512 | 3563 | 335 | 3149 | 3407 | 922 |
| tC, single (s) | 4.2 | | | | 4.2 | | 7.6 | 6.6 | 7.0 | 7.6 | 6.6 | 7.0 |
| tC, 2 stage (s) | | | | | | | | | | | | |
| tF (s) | 2.2 | | | | 2.2 | | 3.5 | 4.0 | 3.3 | 3.5 | 4.0 | 3.3 |
| p0 queue free % | 79 | | | | 55 | | 100 | 100 | 65 | 100 | 100 | 66 |
| cM capacity (veh/h) | 322 | | | | 764 | | 5 | 2 | 632 | 2 | 3 | 270 |
| Direction Lane # | EB 1 | EB 2 | EB 3 | EB 4 | WB 1 | WB 2 | WB 3 | NB 1 | SB 1 | | | |
| Volume Total | 68 | 440 | 440 | 30 | 341 | 989 | 854 | 222 | 92 | | | |
| Volume Left | 68 | 0 | 0 | 0 | 341 | 0 | 0 | 0 | 0 | | | |
| Volume Right | 0 | 0 | 0 | 30 | 0 | 0 | 360 | 222 | 92 | | | |
| cSH | 322 | 1700 | 1700 | 1700 | 764 | 1700 | 1700 | 632 | 270 | | | |
| Volume to Capacity | 0.21 | 0.26 | 0.26 | 0.02 | 0.45 | 0.58 | 0.50 | 0.35 | 0.34 | | | |
| Queue Length 95th (ft) | 20 | 0 | 0 | 0 | 58 | 0 | 0 | 39 | 36 | | | |
| Control Delay (s) | 19.2 | 0.0 | 0.0 | 0.0 | 13.4 | 0.0 | 0.0 | 13.8 | 25.0 | | | |
| Lane LOS | C | | | | B | | | B | C | | | |
| Approach Delay (s) | 1.3 | | | | 2.1 | | | 13.8 | 25.0 | | | |
| Approach LOS | | | | | | | | B | C | | | |

Intersection Summary

| | | | |
|-----------------------------------|-------|----------------------|---|
| Average Delay | 3.2 | | |
| Intersection Capacity Utilization | 61.4% | ICU Level of Service | B |
| Analysis Period (min) | 15 | | |

HCM Unsigned Intersection Capacity Analysis
8: Montano Rd & Winterhaven Rd

Terry O. Brown, PE

11/22/2011 - Synchro 7



| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|------------------------|------|------|------|------|-------|------|------|------|------|------|------|------|
| Lane Configurations | ↑ ↗ | ↑↑ ↗ | ↗ | ↖ ↗ | ↑↑ ↗ | ↗ | ↑ | ↑ | ↗ | ↑ | ↑ | ↗ |
| Volume (veh/h) | 29 | 2113 | 123 | 100 | 519 | 53 | 0 | 0 | 191 | 0 | 0 | 34 |
| Sign Control | Free | | | | Free | | | Stop | | | | Stop |
| Grade | 0% | | | | 0% | | | 0% | | | | 0% |
| Peak Hour Factor | 0.85 | 0.85 | 0.85 | 0.83 | 0.83 | 0.83 | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 |
| Hourly flow rate (vph) | 34 | 2486 | 145 | 120 | 625 | 64 | 0 | 0 | 225 | 0 | 0 | 40 |
| Pedestrians | | | | | | | | | | | | |
| Lane Width (ft) | | | | | | | | | | | | |
| Walking Speed (ft/s) | | | | | | | | | | | | |
| Percent Blockage | | | | | | | | | | | | |
| Right turn flare (veh) | | | | | | | | | | | | |
| Median type | None | | | | None | | | | | | | |
| Median storage veh | | | | | | | | | | | | |
| Upstream signal (ft) | 801 | | | | | | | | | | | |
| pX, platoon unblocked | | | | 0.70 | | | 0.70 | 0.70 | 0.70 | 0.70 | 0.70 | 0.70 |
| VC, conflicting volume | 689 | | | 2631 | | | 3148 | 3484 | 1243 | 2434 | 3597 | 345 |
| vC1, stage 1 conf vol | | | | | | | | | | | | |
| vC2, stage 2 conf vol | | | | | | | | | | | | |
| vCu, unblocked vol | 689 | | | 2472 | | | 3211 | 3693 | 487 | 2191 | 3854 | 345 |
| tC, single (s) | 4.2 | | | 4.2 | | | 7.6 | 6.6 | 7.0 | 7.6 | 6.6 | 7.0 |
| tC, 2 stage (s) | | | | | | | | | | | | |
| tF (s) | 2.2 | | | 2.2 | | | 3.5 | 4.0 | 3.3 | 3.5 | 4.0 | 3.3 |
| p0 queue free % | 96 | | | 5 | | | 100 | 100 | 39 | 100 | 100 | 94 |
| cM capacity (veh/h) | 894 | | | 127 | | | 0 | 0 | 366 | 1 | 0 | 649 |
| Direction, Lane # | EB 1 | EB 2 | EB 3 | EB 4 | WB 1 | WB 2 | WB 3 | NB 1 | SB 1 | | | |
| Volume Total | 34 | 1243 | 1243 | 145 | 120 | 417 | 272 | 225 | 40 | | | |
| Volume Left | 34 | 0 | 0 | 0 | 120 | 0 | 0 | 0 | 0 | | | |
| Volume Right | 0 | 0 | 0 | 145 | 0 | 0 | 64 | 225 | 40 | | | |
| cSH | 894 | 1700 | 1700 | 1700 | 127 | 1700 | 1700 | 366 | 649 | | | |
| Volume to Capacity | 0.04 | 0.73 | 0.73 | 0.09 | 0.95 | 0.25 | 0.16 | 0.61 | 0.06 | | | |
| Queue Length 95th (ft) | 3 | 0 | 0 | 0 | 159 | 0 | 0 | 98 | 5 | | | |
| Control Delay (s) | 9.2 | 0.0 | 0.0 | 0.0 | 133.0 | 0.0 | 0.0 | 29.2 | 10.9 | | | |
| Lane LOS | A | | | | F | | | D | B | | | |
| Approach Delay (s) | 0.1 | | | | 19.8 | | | 29.2 | 10.9 | | | |
| Approach LOS | | | | | | | | D | B | | | |

Intersection Summary

| | | | |
|-----------------------------------|-------|----------------------|---|
| Average Delay | 6.2 | | |
| Intersection Capacity Utilization | 76.9% | ICU Level of Service | D |
| Analysis Period (min) | 15 | | |

2015 AM Peak BUILD Conditions w/No RI, RO on Montano

Existing Geometry

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HCM Unsignedized Intersection Capacity Analysis
8: Montano Rd & Winterhaven Rd

Terry O. Brown, PE
11/22/2011 - Synchro 7



| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Lane Configurations | ↑ | ↑↑ | ↑ | ↑ | ↑↑ | ↑ | ↑ | ↑ | ↑ | ↑ | ↑ | ↑ |
| Volume (veh/h) | 66 | 750 | 170 | 324 | 1409 | 342 | 0 | 0 | 292 | 0 | 0 | 78 |
| Sign Control | Free | | | | Free | | | | Stop | | | Stop |
| Grade | 0% | | | | 0% | | | | 0% | | | 0% |
| Peak Hour Factor | 0.97 | 0.97 | 0.97 | 0.95 | 0.95 | 0.95 | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 |
| Hourly flow rate (vph) | 68 | 773 | 175 | 341 | 1483 | 360 | 0 | 0 | 344 | 0 | 0 | 92 |
| Pedestrians | | | | | | | | | | | | |
| Lane Width (ft) | | | | | | | | | | | | |
| Walking Speed (ft/s) | | | | | | | | | | | | |
| Percent Blockage | | | | | | | | | | | | |
| Right turn flare (veh) | | | | | | | | | | | | |
| Median type | None | | | | None | | | | | | | |
| Median storage veh | | | | | | | | | | | | |
| Upstream signal (ft) | 801 | | | | | | | | | | | |
| pX, platoon unblocked | | | | | | | | | | | | |
| vC, conflicting volume | 1843 | | | | 948 | | | | 2425 | 3435 | 387 | 3211 |
| vC1, stage 1 conf vol | | | | | | | | | 2425 | 3435 | 387 | 3211 |
| vC2, stage 2 conf vol | | | | | | | | | 3430 | 3430 | 922 | 922 |
| vCu, unblocked vol | 1843 | | | | 948 | | | | 3430 | 3430 | 922 | 922 |
| tC, single (s) | 4.2 | | | | 4.2 | | | | 7.6 | 6.6 | 7.0 | 7.6 |
| tC, 2 stage (s) | | | | | | | | | 6.6 | 7.0 | 7.6 | 7.0 |
| tF (s) | 2.2 | | | | 2.2 | | | | 3.5 | 4.0 | 3.3 | 3.5 |
| p0 queue free % | 79 | | | | 52 | | | | 100 | 100 | 44 | 100 |
| cM capacity (veh/h) | 322 | | | | 713 | | | | 6 | 13 | 609 | 1 |
| Direction, Lane # | EB 1 | EB 2 | EB 3 | EB 4 | WB 1 | WB 2 | WB 3 | NB 1 | SB 1 | | | |
| Volume Total | 68 | 387 | 387 | 175 | 341 | 989 | 854 | 344 | 92 | | | |
| Volume Left | 68 | 0 | 0 | 0 | 341 | 0 | 0 | 0 | 0 | | | |
| Volume Right | 0 | 0 | 0 | 175 | 0 | 0 | 360 | 344 | 92 | | | |
| cSH | 322 | 1700 | 1700 | 1700 | 713 | 1700 | 1700 | 609 | 270 | | | |
| Volume to Capacity | 0.21 | 0.23 | 0.23 | 0.10 | 0.48 | 0.58 | 0.50 | 0.56 | 0.34 | | | |
| Queue Length 95th (ft) | 20 | 0 | 0 | 0 | 65 | 0 | 0 | 88 | 36 | | | |
| Control Delay (s) | 19.2 | 0.0 | 0.0 | 0.0 | 14.6 | 0.0 | 0.0 | 18.3 | 25.0 | | | |
| Lane LOS | C | | | | B | | | C | C | | | |
| Approach Delay (s) | 1.3 | | | | 2.3 | | | 18.3 | 25.0 | | | |
| Approach LOS | | | | | | | | C | C | | | |

Intersection Summary

| | | |
|-----------------------------------|-------|----------------------|
| Average Delay | 4.1 | |
| Intersection Capacity Utilization | 61.4% | ICU Level of Service |
| Analysis Period (min) | 15 | B |

HCM Unsignalized Intersection Capacity Analysis
9: Montano Rd & Antequera Ave

Terry O. Brown, PE
11/22/2011 - Synchro 7



| Movement | EBT | EBR | WBL | WBT | NBL | NBR |
|------------------------|------|------|------|------|------|------|
| Lane Configurations | ↑↑ | ↑ | 0 | ↑↑ | 0 | ↑ |
| Volume (veh/h) | 2459 | 86 | 0 | 724 | 0 | 50 |
| Sign Control | Free | | | Free | Stop | |
| Grade | 0% | | | 0% | 0% | |
| Peak Hour Factor | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 |
| Hourly flow rate (vph) | 2893 | 101 | 0 | 852 | 0 | 59 |
| Pedestrians | | | | | | |
| Lane Width (ft) | | | | | | |
| Walking Speed (ft/s) | | | | | | |
| Percent Blockage | | | | | | |
| Right turn flare (veh) | | | | | | |
| Median type | None | | | None | | |
| Median storage veh | | | | | | |
| Upstream signal (ft) | 385 | | | | | |
| pX, platoon unblocked | | 0.69 | | 0.69 | 0.69 | |
| vC, conflicting volume | | 2994 | | 3319 | 1446 | |
| vC1, stage 1 conf vol | | | | | | |
| vC2, stage 2 conf vol | | | | | | |
| vCu, unblocked vol | | 2991 | | 3461 | 753 | |
| tC, single (s) | | 4.2 | | 6.9 | 7.0 | |
| tC, 2 stage (s) | | | | | | |
| tF (s) | | 2.2 | | 3.5 | 3.3 | |
| p0 queue free % | | 100 | | 100 | 76 | |
| cM capacity (veh/h) | | 77 | | 3 | 242 | |
| Direction\ Lane # | EB 1 | EB 2 | EB 3 | WB 1 | WB 2 | NB 1 |
| Volume Total | 1446 | 1446 | 101 | 426 | 426 | 59 |
| Volume Left | 0 | 0 | 0 | 0 | 0 | 0 |
| Volume Right | 0 | 0 | 101 | 0 | 0 | 59 |
| cSH | 1700 | 1700 | 1700 | 1700 | 1700 | 242 |
| Volume to Capacity | 0.85 | 0.85 | 0.06 | 0.25 | 0.25 | 0.24 |
| Queue Length 95th (ft) | 0 | 0 | 0 | 0 | 0 | 23 |
| Control Delay (s) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 24.6 |
| Lane LOS | | | | | | C |
| Approach Delay (s) | 0.0 | | | 0.0 | | 24.6 |
| Approach LOS | | | | | | C |

Intersection Summary

| | | | |
|-----------------------------------|-------|----------------------|---|
| Average Delay | 0.4 | | |
| Intersection Capacity Utilization | 78.0% | JCU Level of Service | D |
| Analysis Period (min) | 15 | | |

2015 AM Peak BUILD Conditions

Existing Geometry

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HCM Unsigned Intersection Capacity Analysis
9: Montano Rd & Antequera Ave

Terry O. Brown, PE
11/22/2011 - Synchro 7



| Movement | EBT | EBR | WBL | WBT | NBL | NBR |
|------------------------|------|------|------|------|------|------|
| Lane Configurations | ↑↑ | ↑ | ↑↑ | ↑↑ | ↑ | ↑ |
| Volume (veh/h) | 851 | 141 | 0 | 1714 | 0 | 103 |
| Sign Control | Free | | Free | Stop | | |
| Grade | 0% | | 0% | 0% | | |
| Peak Hour Factor | 0.95 | 0.95 | 0.95 | 0.95 | 0.85 | 0.85 |
| Hourly flow rate (vph) | 896 | 148 | 0 | 1804 | 0 | 121 |
| Pedestrians | | | | | | |
| Lane Width (ft) | | | | | | |
| Walking Speed (ft/s) | | | | | | |
| Percent Blockage | | | | | | |
| Right turn flare (veh) | | | | | | |
| Median type | None | | None | | | |
| Median storage veh | | | | | | |
| Upstream signal (ft) | 385 | | | | 0.91 | 0.91 |
| pX, platoon unblocked | | | | | | |
| vC, conflicting volume | | | 1044 | | 1798 | 448 |
| vC1, stage 1 conf vol | | | | | | |
| vC2, stage 2 conf vol | | | | | | |
| vCu, unblocked vol | | | 839 | | 1672 | 180 |
| tC, single (s) | | | 4.2 | | 6.9 | 7.0 |
| tC, 2 stage (s) | | | | | | |
| tF (s) | | | 2.2 | | 3.5 | 3.3 |
| p0 queue free % | | | 100 | | 100 | 84 |
| cM capacity (veh/h) | | | 711 | | 78 | 750 |
| Direction, Lane # | EB 1 | EB 2 | EB 3 | WB 1 | WB 2 | NB 1 |
| Volume Total | 448 | 448 | 148 | 902 | 902 | 121 |
| Volume Left | 0 | 0 | 0 | 0 | 0 | 0 |
| Volume Right | 0 | 0 | 148 | 0 | 0 | 121 |
| cSH | 1700 | 1700 | 1700 | 1700 | 1700 | 750 |
| Volume to Capacity | 0.26 | 0.26 | 0.09 | 0.53 | 0.53 | 0.16 |
| Queue Length 95th (ft) | 0 | 0 | 0 | 0 | 0 | 14 |
| Control Delay (s) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 10.7 |
| Lane LOS | | | | | | B |
| Approach Delay (s) | 0.0 | | | 0.0 | | 10.7 |
| Approach LOS | | | | | | B |

Intersection Summary

| | | | |
|-----------------------------------|-------|----------------------|---|
| Average Delay | 0.4 | | |
| Intersection Capacity Utilization | 50.7% | ICU Level of Service | A |
| Analysis Period (min) | 15 | | |

HCM Unsignalized Intersection Capacity Analysis
10: E-W St & Coors Blvd

Terry O. Brown, PE
11/22/2011 - Synchro 7



| Movement | WBL | WBR | NBT | NBR | SBL | SBT | | |
|------------------------|------|------|------|------|------|------|------|------|
| Lane Configurations | | ↑ | ↑↑↑→ | | | ↑↑↑ | | |
| Volume (veh/h) | 0 | 69 | 2191 | 48 | 0 | 2130 | | |
| Sign Control | Stop | | Free | | Free | | | |
| Grade | 0% | | 0% | | 0% | | | |
| Peak Hour Factor | 0.85 | 0.85 | 0.90 | 0.90 | 0.90 | 0.90 | | |
| Hourly flow rate (vph) | 0 | 81 | 2434 | 53 | 0 | 2367 | | |
| Pedestrians | | | | | | | | |
| Lane Width (ft) | | | | | | | | |
| Walking Speed (ft/s) | | | | | | | | |
| Percent Blockage | | | | | | | | |
| Right turn flare (veh) | | | | | | | | |
| Median type | | | None | | | | | |
| Median storage veh | | | | | | | | |
| Upstream signal (ft) | | | | 707 | | | | |
| pX, platoon unblocked | 0.72 | | | | | | | |
| vC, conflicting volume | 3250 | 635 | | 2488 | | | | |
| vC1, stage 1 conf vol | | | | | | | | |
| vC2, stage 2 conf vol | | | | | | | | |
| vCu, unblocked vol | 2761 | 635 | | 2488 | | | | |
| tC, single (s) | 6.9 | 7.0 | | 4.2 | | | | |
| tC, 2 stage (s) | | | | | | | | |
| tF (s) | 3.5 | 3.3 | | 2.2 | | | | |
| p0 queue free % | 100 | 81 | | 100 | | | | |
| cM capacity (veh/h) | 11 | 419 | | 179 | | | | |
| Direction, Lane # | WB 1 | NB 1 | NB 2 | NB 3 | NB 4 | SB 1 | SB 2 | SB 3 |
| Volume Total | 81 | 696 | 696 | 696 | 401 | 789 | 789 | 789 |
| Volume Left | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Volume Right | 81 | 0 | 0 | 0 | 53 | 0 | 0 | 0 |
| cSH | 419 | 1700 | 1700 | 1700 | 1700 | 1700 | 1700 | 1700 |
| Volume to Capacity | 0.19 | 0.41 | 0.41 | 0.41 | 0.24 | 0.46 | 0.46 | 0.46 |
| Queue Length 95th (ft) | 18 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Control Delay (s) | 15.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Lane LOS | C | | | | | | | |
| Approach Delay (s) | 15.7 | 0.0 | | | 0.0 | | | |
| Approach LOS | C | | | | | | | |

Intersection Summary

| | | | |
|-----------------------------------|-------|----------------------|---|
| Average Delay | 0.3 | | |
| Intersection Capacity Utilization | 44.5% | ICU Level of Service | A |
| Analysis Period (min) | 15 | | |

HCM Unsignalized Intersection Capacity Analysis
10: E-W St & Coors Blvd

Terry O. Brown, PE
11/22/2011 - Synchro 7



| Movement | WBL | WBR | NBT | NBR | SBL | SBT | | |
|-----------------------------------|------|-------|------|----------------------|------|------|------|------|
| Lane Configurations | | ↑↑↑→ | | | ↑↑↑ | | | |
| Volume (veh/h) | 0 | 225 | 2738 | 125 | 0 | 2552 | | |
| Sign Control | Stop | | Free | | Free | | | |
| Grade | 0% | | 0% | | 0% | | | |
| Peak Hour Factor | 0.85 | 0.85 | 0.96 | 0.96 | 0.96 | 0.96 | | |
| Hourly flow rate (vph) | 0 | 265 | 2852 | 130 | 0 | 2658 | | |
| Pedestrians | | | | | | | | |
| Lane Width (ft) | | | | | | | | |
| Walking Speed (ft/s) | | | | | | | | |
| Percent Blockage | | | | | | | | |
| Right turn flare (veh) | | | | | | | | |
| Median type | | None | | | None | | | |
| Median storage veh | | | | | | | | |
| Upstream signal (ft) | | | | | 707 | | | |
| pX, platoon unblocked | 0.72 | | | | | | | |
| vC, conflicting volume | 3803 | 778 | | | 2982 | | | |
| vC1, stage 1 conf vol | | | | | | | | |
| vC2, stage 2 conf vol | | | | | | | | |
| vCu, unblocked vol | 3529 | 778 | | | 2982 | | | |
| tC, single (s) | 6.9 | 7.0 | | | 4.2 | | | |
| tC, 2 stage (s) | | | | | | | | |
| tF (s) | 3.5 | 3.3 | | | 2.2 | | | |
| p0 queue free % | 100 | 21 | | | 100 | | | |
| cM capacity (veh/h) | 3 | 337 | | | 113 | | | |
| Direction Lane # | WB 1 | NB 1 | NB 2 | NB 3 | NB 4 | SB 1 | SB 2 | SB 3 |
| Volume Total | 265 | 815 | 815 | 815 | 538 | 886 | 886 | 886 |
| Volume Left | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Volume Right | 265 | 0 | 0 | 0 | 130 | 0 | 0 | 0 |
| cSH | 337 | 1700 | 1700 | 1700 | 1700 | 1700 | 1700 | 1700 |
| Volume to Capacity | 0.79 | 0.48 | 0.48 | 0.48 | 0.32 | 0.52 | 0.52 | 0.52 |
| Queue Length 95th (ft) | 161 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Control Delay (s) | 45.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Lane LOS | E | | | | | | | |
| Approach Delay (s) | 45.6 | 0.0 | | | | | | |
| Approach LOS | E | | | | | | | |
| Intersection Summary | | | | | | | | |
| Average Delay | | 2.0 | | | | | | |
| Intersection Capacity Utilization | | 62.4% | | ICU Level of Service | | B | | |
| Analysis Period (min) | | 15 | | | | | | |

2015 PM Peak BUILD Conditions

Existing Geometry

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HCM Unsignalized Intersection Capacity Analysis
11: Mirandela Ave & Coors Blvd

Terry O. Brown, PE
11/22/2011 - Synchro 7



| Movement | WBL | WBR | NBT | NBR | SBL | SBT | | | |
|------------------------|------|------|------|------|------|------|------|------|------|
| Lane Configurations | | | ↑↑↑ | ↑ | ↑ | ↑↑↑ | | | |
| Volume (veh/h) | 0 | 10 | 2128 | 10 | 10 | 1963 | | | |
| Sign Control | Stop | | Free | | Free | | | | |
| Grade | 0% | | 0% | | 0% | | | | |
| Peak Hour Factor | 0.85 | 0.85 | 0.90 | 0.90 | 0.90 | 0.90 | | | |
| Hourly flow rate (vph) | 0 | 12 | 2364 | 11 | 11 | 2181 | | | |
| Pedestrians | | | | | | | | | |
| Lane Width (ft) | | | | | | | | | |
| Walking Speed (ft/s) | | | | | | | | | |
| Percent Blockage | | | | | | | | | |
| Right turn flare (veh) | | | | | | | | | |
| Median type | | | None | | None | | | | |
| Median storage veh | | | | | | | | | |
| Upstream signal (ft) | | | 1190 | | | | | | |
| pX, platoon unblocked | 0.64 | 0.64 | | 0.64 | | | | | |
| vC, conflicting volume | 3114 | 788 | | 2376 | | | | | |
| vC1, stage 1 conf vol | | | | | | | | | |
| vC2, stage 2 conf vol | | | | | | | | | |
| vCu, unblocked vol | 2347 | 0 | | 1201 | | | | | |
| tC, single (s) | 6.9 | 7.0 | | 4.2 | | | | | |
| tC, 2 stage (s) | | | | | | | | | |
| tF (s) | 3.5 | 3.3 | | 2.2 | | | | | |
| p0 queue free % | 100 | 98 | | 97 | | | | | |
| cM capacity (veh/h) | 19 | 696 | | 368 | | | | | |
| Direction, Lane # | WB 1 | NB 1 | NB 2 | NB 3 | NB 4 | SB 1 | SB 2 | SB 3 | SB 4 |
| Volume Total | 12 | 788 | 788 | 788 | 11 | 11 | 727 | 727 | 727 |
| Volume Left | 0 | 0 | 0 | 0 | 0 | 11 | 0 | 0 | 0 |
| Volume Right | 12 | 0 | 0 | 0 | 11 | 0 | 0 | 0 | 0 |
| cSH | 696 | 1700 | 1700 | 1700 | 1700 | 368 | 1700 | 1700 | 1700 |
| Volume to Capacity | 0.02 | 0.46 | 0.46 | 0.46 | 0.01 | 0.03 | 0.43 | 0.43 | 0.43 |
| Queue Length 95th (ft) | 1 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 |
| Control Delay (s) | 10.3 | 0.0 | 0.0 | 0.0 | 0.0 | 15.1 | 0.0 | 0.0 | 0.0 |
| Lane LOS | B | | | | C | | | | |
| Approach Delay (s) | 10.3 | 0.0 | | | 0.1 | | | | |
| Approach LOS | B | | | | | | | | |

Intersection Summary

| | | | |
|-----------------------------------|-------|----------------------|---|
| Average Delay | 0.1 | | |
| Intersection Capacity Utilization | 51.1% | ICU Level of Service | A |
| Analysis Period (min) | 15 | | |

HCM Unsignalized Intersection Capacity Analysis
11: Mirandela Ave & Coors Blvd

Terry O. Brown, PE
11/22/2011 - Synchro 7



| Movement | WBL | WBR | NBT | NBR | SBL | SBT | | | |
|------------------------|------|------|------|------|------|------|------|------|------|
| Lane Configurations | | | | | | | | | |
| Volume (veh/h) | 0 | 68 | 2151 | 52 | 174 | 1956 | | | |
| Sign Control | Stop | | Free | | Free | | | | |
| Grade | 0% | | 0% | | 0% | | | | |
| Peak Hour Factor | 0.85 | 0.85 | 0.90 | 0.90 | 0.90 | 0.90 | | | |
| Hourly flow rate (vph) | 0 | 80 | 2390 | 58 | 193 | 2173 | | | |
| Pedestrians | | | | | | | | | |
| Lane Width (ft) | | | | | | | | | |
| Walking Speed (ft/s) | | | | | | | | | |
| Percent Blockage | | | | | | | | | |
| Right turn flare (veh) | | | | | | | | | |
| Median type | | | None | | None | | | | |
| Median storage veh | | | | | | | | | |
| Upstream signal (ft) | | | 1190 | | | | | | |
| pX, platoon unblocked | 0.76 | 0.76 | | 0.76 | | | | | |
| vC, conflicting volume | 3530 | 626 | | 2448 | | | | | |
| vC1, stage 1 conf vol | | | | | | | | | |
| vC2, stage 2 conf vol | | | | | | | | | |
| vCu, unblocked vol | 2737 | 0 | | 1307 | | | | | |
| tC, single (s) | 6.9 | 7.0 | | 4.2 | | | | | |
| tC, 2 stage (s) | | | | | | | | | |
| tF (s) | 3.5 | 3.3 | | 2.2 | | | | | |
| p0 queue free % | 100 | 90 | | 51 | | | | | |
| cM capacity (veh/h) | 6 | 818 | | 394 | | | | | |
| Direction\Lane # | WB 1 | NB 1 | NB 2 | NB 3 | NB 4 | SB 1 | SB 2 | SB 3 | SB 4 |
| Volume Total | 80 | 683 | 683 | 683 | 399 | 193 | 724 | 724 | 724 |
| Volume Left | 0 | 0 | 0 | 0 | 0 | 193 | 0 | 0 | 0 |
| Volume Right | 80 | 0 | 0 | 0 | 58 | 0 | 0 | 0 | 0 |
| cSH | 818 | 1700 | 1700 | 1700 | 1700 | 394 | 1700 | 1700 | 1700 |
| Volume to Capacity | 0.10 | 0.40 | 0.40 | 0.40 | 0.23 | 0.49 | 0.43 | 0.43 | 0.43 |
| Queue Length 95th (ft) | 8 | 0 | 0 | 0 | 0 | 65 | 0 | 0 | 0 |
| Control Delay (s) | 9.9 | 0.0 | 0.0 | 0.0 | 0.0 | 22.6 | 0.0 | 0.0 | 0.0 |
| Lane LOS | A | | | | | C | | | |
| Approach Delay (s) | 9.9 | 0.0 | | | | 1.8 | | | |
| Approach LOS | A | | | | | | | | |

Intersection Summary

| | |
|-----------------------------------|-------|
| Average Delay | 1.1 |
| Intersection Capacity Utilization | 48.3% |
| Analysis Period (min) | 15 |

2015 AM Peak BUILD Conditions

Existing Geometry

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HCM Unsignalized Intersection Capacity Analysis
11: Mirandela Ave & Coors Blvd

Terry O. Brown, PE
11/22/2011 - Synchro 7



| Movement | WBL | WBR | NBT | NBR | SBL | SBT | | | |
|-----------------------------------|------|-------|------|------|------|------|------|------|------|
| Lane Configurations | | | ↑↑↑ | ↑ | ↑ | ↑↑↑ | | | |
| Volume (veh/h) | 0 | 26 | 2612 | 0 | 14 | 2344 | | | |
| Sign Control | Stop | | Free | | | Free | | | |
| Grade | 0% | | 0% | | | 0% | | | |
| Peak Hour Factor | 0.85 | 0.85 | 0.96 | 0.96 | 0.96 | 0.96 | | | |
| Hourly flow rate (vph) | 0 | 31 | 2721 | 0 | 15 | 2442 | | | |
| Pedestrians | | | | | | | | | |
| Lane Width (ft) | | | | | | | | | |
| Walking Speed (ft/s) | | | | | | | | | |
| Percent Blockage | | | | | | | | | |
| Right turn flare (veh) | | | | | | | | | |
| Median type | | | None | | | None | | | |
| Median storage veh | | | | | | | | | |
| Upstream signal (ft) | | | 1190 | | | | | | |
| pX, platoon unblocked | 0.57 | 0.57 | | 0.57 | | | | | |
| vC, conflicting volume | 3564 | 907 | | 2721 | | | | | |
| vC1, stage 1 conf vol | | | | | | | | | |
| vC2, stage 2 conf vol | | | | | | | | | |
| vCu, unblocked vol | 2862 | 0 | | 1386 | | | | | |
| tC, single (s) | 6.9 | 7.0 | | 4.2 | | | | | |
| tC, 2 stage (s) | | | | | | | | | |
| tF (s) | 3.5 | 3.3 | | 2.2 | | | | | |
| p0 queue free % | 100 | 95 | | 95 | | | | | |
| cM capacity (veh/h) | 7 | 618 | | 277 | | | | | |
| Direction, Lane # | WB 1 | NB 1 | NB 2 | NB 3 | NB 4 | SB 1 | SB 2 | SB 3 | SB 4 |
| Volume Total | 31 | 907 | 907 | 907 | 0 | 15 | 814 | 814 | 814 |
| Volume Left | 0 | 0 | 0 | 0 | 0 | 15 | 0 | 0 | 0 |
| Volume Right | 31 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| cSH | 618 | 1700 | 1700 | 1700 | 1700 | 277 | 1700 | 1700 | 1700 |
| Volume to Capacity | 0.05 | 0.53 | 0.53 | 0.53 | 0.00 | 0.05 | 0.48 | 0.48 | 0.48 |
| Queue Length 95th (ft) | 4 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 0 |
| Control Delay (s) | 11.1 | 0.0 | 0.0 | 0.0 | 0.0 | 18.7 | 0.0 | 0.0 | 0.0 |
| Lane LOS | B | | | | | C | | | |
| Approach Delay (s) | 11.1 | 0.0 | | | | 0.1 | | | |
| Approach LOS | B | | | | | | | | |
| Intersection Summary | | | | | | | | | |
| Average Delay | | | 0.1 | | | | | | |
| Intersection Capacity Utilization | | 60.5% | | | | | | | |
| Analysis Period (min) | | 15 | | | | | | | |

2015 PM Peak NOBUILD Conditions

Existing Geometry

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HCM Unsigned Intersection Capacity Analysis
11: Mirandela Ave & Coors Blvd

Terry O. Brown, PE
11/22/2011 - Synchro 7



| Movement | WBL | WBR | NBT | NBR | SBL | SBT | | | |
|------------------------|------|------|------|------|------|------|------|------|------|
| Lane Configurations | | | ↑↑↑→ | | ↑ | ↑↑↑ | | | |
| Volume (veh/h) | 0 | 180 | 2620 | 141 | 231 | 2320 | | | |
| Sign Control | Stop | | Free | | | Free | | | |
| Grade | 0% | | 0% | | | 0% | | | |
| Peak Hour Factor | 0.85 | 0.85 | 0.96 | 0.96 | 0.96 | 0.96 | | | |
| Hourly flow rate (vph) | 0 | 212 | 2729 | 147 | 241 | 2417 | | | |
| Pedestrians | | | | | | | | | |
| Lane Width (ft) | | | | | | | | | |
| Walking Speed (ft/s) | | | | | | | | | |
| Percent Blockage | | | | | | | | | |
| Right turn flare (veh) | | | | | | | | | |
| Median type | | | None | | | None | | | |
| Median storage veh | | | | | | | | | |
| Upstream signal (ft) | | | 1190 | | | | | | |
| pX, platoon unblocked | 0.64 | 0.64 | | | 0.64 | | | | |
| vC, conflicting volume | 4089 | 756 | | | 2876 | | | | |
| vC1, stage 1 conf vol | | | | | | | | | |
| vC2, stage 2 conf vol | | | | | | | | | |
| vCu, unblocked vol | 3026 | 0 | | | 1137 | | | | |
| tC, single (s) | 6.9 | 7.0 | | | 4.2 | | | | |
| tC, 2 stage (s) | | | | | | | | | |
| tF (s) | 3.5 | 3.3 | | | 2.2 | | | | |
| p0 queue free % | 100 | 70 | | | 38 | | | | |
| cM capacity (veh/h) | 2 | 695 | | | 388 | | | | |
| Direction Lane # | WB 1 | NB 1 | NB 2 | NB 3 | NB 4 | SB 1 | SB 2 | SB 3 | SB 4 |
| Volume Total | 212 | 780 | 780 | 780 | 537 | 241 | 806 | 806 | 806 |
| Volume Left | 0 | 0 | 0 | 0 | 0 | 241 | 0 | 0 | 0 |
| Volume Right | 212 | 0 | 0 | 0 | 147 | 0 | 0 | 0 | 0 |
| cSH | 695 | 1700 | 1700 | 1700 | 1700 | 388 | 1700 | 1700 | 1700 |
| Volume to Capacity | 0.30 | 0.46 | 0.46 | 0.46 | 0.32 | 0.62 | 0.47 | 0.47 | 0.47 |
| Queue Length 95th (ft) | 32 | 0 | 0 | 0 | 0 | 100 | 0 | 0 | 0 |
| Control Delay (s) | 12.4 | 0.0 | 0.0 | 0.0 | 0.0 | 28.3 | 0.0 | 0.0 | 0.0 |
| Lane LOS | B | | | | | D | | | |
| Approach Delay (s) | 12.4 | 0.0 | | | | 2.6 | | | |
| Approach LOS | B | | | | | | | | |

Intersection Summary

| | | | |
|-----------------------------------|-------|----------------------|---|
| Average Delay | 1.6 | | |
| Intersection Capacity Utilization | 59.8% | ICU Level of Service | B |
| Analysis Period (min) | 15 | | |

2015 PM Peak BUILD Conditions

Existing Geometry
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Traffic Count Data Sheet

| Year Counts Taken: | | 2010 | E-W Street Montano Blvd | | | | N-S Street: Coors Blvd | | | | Speed Limit (Montano Blvd)= | | | | 40 | MPH |
|-----------------------------|----------|--------------------------|-------------------------|------------|------------|--------------------------|------------------------|------------|-------------|-------------------------|-----------------------------|-------------|-----------|-------------------------|----------|-----|
| | | | | | | | | | | | Speed Limit (Coors Blvd)= | | | | 45 | MPH |
| | | | | | | | | | | | Date of Count: | | | | 11/16/10 | |
| Begin Time | End Time | Eastbound (Montano Blvd) | | | | Westbound (Montano Blvd) | | | | Northbound (Coors Blvd) | | | | Southbound (Coors Blvd) | | |
| | | L | T | R | | L | T | R | | L | T | R | | L | T | R |
| 7:00 AM | 7:15 AM | 45 | 335 | 85 | 51 | 57 | 27 | 43 | 223 | 178 | 157 | 298 | 2 | | | |
| 7:15 AM | 7:30 AM | 48 | 305 | 69 | 51 | 28 | 29 | 46 | 237 | 185 | 163 | 348 | 0 | | | |
| 7:30 AM | 7:45 AM | 56 | 250 | 43 | 57 | 58 | 40 | 64 | 319 | 134 | 163 | 375 | 3 | | | |
| 7:45 AM | 8:00 AM | 85 | 217 | 103 | 71 | 73 | 52 | 99 | 345 | 125 | 139 | 291 | 6 | | | |
| 8:00 AM | 8:15 AM | 42 | 168 | 102 | 59 | 125 | 63 | 73 | 225 | 83 | 89 | 225 | 2 | | | |
| 8:15 AM | 8:30 AM | 35 | 446 | 442 | 37 | 73 | 43 | 42 | 269 | 66 | 44 | 246 | 4 | | | |
| 8:30 AM | 8:45 AM | 67 | 466 | 124 | 42 | 85 | 39 | 28 | 200 | 64 | 70 | 162 | 2 | | | |
| 8:45 AM | 9:00 AM | 59 | 124 | 134 | 54 | 74 | 33 | 39 | 285 | 59 | 69 | 226 | 4 | | | |
| AM Peak Hour Volumes | | 234 | 1107 | 300 | 230 | 216 | 148 | 252 | 1124 | 622 | 622 | 1312 | 11 | | | |
| % of Total Traffic | | 3.8% | 17.9% | 4.9% | 3.7% | 3.5% | 2.4% | 4.1% | 18.2% | 10.1% | 10.1% | 21.2% | 0.2% | | | |
| % Directional | | 26.6% | | | | 9.6% | | | 32.3% | | | 31.5% | | | | |
| AM Peak Hour Factor | | | | 0.88 | | 0.76 | | 0.88 | | 0.88 | | 0.90 | | | | |
| Begin Time | End Time | Eastbound (Montano Blvd) | | | | Westbound (Montano Blvd) | | | | Northbound (Coors Blvd) | | | | Southbound (Coors Blvd) | | |
| | | L | T | R | | L | T | R | | L | T | R | | L | T | R |
| 4:00 PM | 4:15 PM | 49 | 86 | 69 | 72 | 187 | 78 | 58 | 425 | 39 | 56 | 325 | 11 | | | |
| 4:15 PM | 4:30 PM | 54 | 87 | 74 | 74 | 194 | 84 | 62 | 428 | 46 | 60 | 347 | 10 | | | |
| 4:30 PM | 4:45 PM | 55 | 82 | 74 | 75 | 195 | 94 | 49 | 430 | 48 | 64 | 375 | 13 | | | |
| 4:45 PM | 5:00 PM | 62 | 74 | 70 | 99 | 272 | 55 | 127 | 383 | 68 | 70 | 374 | 24 | | | |
| 5:00 PM | 5:15 PM | 73 | 70 | 86 | 88 | 249 | 24 | 149 | 413 | 65 | 87 | 333 | 11 | | | |
| 5:15 PM | 5:30 PM | 67 | 68 | 110 | 107 | 279 | 38 | 142 | 406 | 54 | 88 | 390 | 20 | | | |
| 5:30 PM | 5:45 PM | 60 | 59 | 91 | 84 | 251 | 37 | 149 | 436 | 48 | 69 | 366 | 10 | | | |
| 5:45 PM | 6:00 PM | 62 | 60 | 85 | 100 | 245 | 34 | 137 | 453 | 42 | 48 | 333 | 14 | | | |
| PM Peak Hour Volumes | | 262 | 271 | 357 | 378 | 1051 | 154 | 567 | 1638 | 235 | 314 | 1463 | 65 | | | |
| % of Total Traffic | | 3.9% | 4.0% | 5.3% | 5.6% | 15.6% | 2.3% | 8.4% | 24.2% | 3.5% | 4.6% | 21.7% | 1.0% | | | |
| % Directional | | 13.2% | | | | 23.4% | | | 36.1% | | | 27.3% | | | | |
| PM Peak Hour Factor | | | | 0.91 | | 0.93 | | 0.93 | | 0.93 | | 0.92 | | | | |

Traffic Count Data Sheet

| Year Counts Taken: | | 2011 | Andalucia, Tract 6 Update E-W Street Dellyne Ave. (Learning Rd.) N-S Street: Coors Blvd. | | Speed Limit (Dellyne Ave.)= | 25 | MPH |
|-----------------------------|------------|--------------------------|--|---------------------------|-----------------------------|--------------------------|--------------------------|
| | | SIGNALIZED | | | Speed Limit (Coors Blvd.)= | 45 | MPH |
| | | | | | Date of Count: | 10/20/11 | |
| Begin Time | End Time | Eastbound (Dellyne Ave.) | Westbound (Dellyne Ave.) | Northbound (Dellyne Ave.) | Southbound (Coors Blvd.) | Northbound (Coors Blvd.) | Southbound (Coors Blvd.) |
| | | L | R | L | R | L | R |
| 7:00 AM | 7:15 AM | 58 | 3 | 74 | 4 | 0 | 44 |
| 7:15 AM | 7:30 AM | 87 | 3 | 103 | 3 | 1 | 12 |
| 7:30 AM | 7:45 AM | 78 | 12 | 81 | 13 | 1 | 12 |
| 7:45 AM | 8:00 AM | 47 | 14 | 51 | 16 | 5 | 24 |
| 8:00 AM | 8:15 AM | 19 | 1 | 47 | 19 | 1 | 0 |
| 8:15 AM | 8:30 AM | 27 | 0 | 38 | 4 | 0 | 0 |
| 8:30 AM | 8:45 AM | 20 | 4 | 35 | 4 | 0 | 4 |
| 8:45 AM | 9:00 AM | 22 | 0 | 44 | 4 | 0 | 0 |
| AM Peak Hour Volumes | 231 | 30 | 282 | 51 | 8 | 59 | 1615 |
| % of Total Traffic | 5.1% | 0.7% | 6.3% | 1.1% | 0.2% | 1.3% | 35.9% |
| % Directional | 12.1% | | | 1.5% | | 38.7% | 1.5% |
| AM Peak Hour Factor | | 0.70 | | 0.62 | | 0.84 | 0.89 |
| | | | | | | | |
| Begin Time | End Time | Eastbound (Dellyne Ave.) | Westbound (Dellyne Ave.) | Northbound (Dellyne Ave.) | Southbound (Coors Blvd.) | Northbound (Coors Blvd.) | Southbound (Coors Blvd.) |
| | | L | R | L | R | L | R |
| 4:00 PM | 4:15 PM | 48 | 4 | 39 | 4 | 2 | 3 |
| 4:15 PM | 4:30 PM | 23 | 2 | 24 | 4 | 0 | 72 |
| 4:30 PM | 4:45 PM | 29 | 4 | 24 | 6 | 4 | 74 |
| 4:45 PM | 5:00 PM | 30 | 1 | 25 | 9 | 0 | 70 |
| 5:00 PM | 5:15 PM | 26 | 0 | 20 | 8 | 1 | 94 |
| 5:15 PM | 5:30 PM | 27 | 5 | 29 | 11 | 2 | 81 |
| 5:30 PM | 5:45 PM | 26 | 2 | 27 | 9 | 4 | 7 |
| 5:45 PM | 6:00 PM | 48 | 4 | 28 | 2 | 2 | 70 |
| PM Peak Hour Volumes | 109 | 8 | 101 | 37 | 7 | 11 | 337 |
| % of Total Traffic | 2.1% | 0.2% | 2.0% | 0.7% | 0.1% | 0.2% | 6.6% |
| % Directional | 4.2% | | | 1.1% | | 53.4% | 41.3% |
| PM Peak Hour Factor | | 0.89 | | 0.69 | | 0.96 | 0.97 |

Traffic Count Data Sheet

Year Counts Taken: 2011 E-W Street Montano Rd.
 N-S Street: Winterhaven
 UNSIGNALIZED

Andalucia, Tract 6 Update
 Speed Limit (Montano Rd.) = 25 MPH
 Speed Limit (Winterhaven) = 25 MPH
 Date of Count: 10/19/11

| Begin Time | End Time | Eastbound (Montano Rd.) | | | Westbound (Montano Rd.) | | | Northbound (Winterhaven) | | | Southbound (Winterhaven) | | |
|-----------------------------|-----------|-------------------------|-----------|-----------|-------------------------|-----------|----------|--------------------------|-----------|----------|--------------------------|-----------|------|
| | | L | T | R | L | T | R | L | T | R | L | T | R |
| 7:00 AM | 7:15 AM | 6 | 467 | 2 | 2 | 42 | 6 | 0 | 0 | 0 | 0 | 0 | 11 |
| 7:15 AM | 7:30 AM | 3 | 566 | 1 | 6 | 82 | 9 | 0 | 0 | 2 | 0 | 0 | 12 |
| 7:30 AM | 7:45 AM | 6 | 621 | 1 | 15 | 92 | 16 | 0 | 0 | 8 | 0 | 0 | 5 |
| 7:45 AM | 8:00 AM | 3 | 484 | 14 | 28 | 122 | 9 | 0 | 0 | 19 | 0 | 0 | 7 |
| 8:00 AM | 8:15 AM | 15 | 379 | 14 | 24 | 121 | 17 | 0 | 0 | 26 | 0 | 0 | 6 |
| 8:15 AM | 8:30 AM | 17 | 358 | 7 | 3 | 114 | 18 | 0 | 0 | 5 | 0 | 0 | 6 |
| 8:30 AM | 8:45 AM | 14 | 367 | 0 | 2 | 124 | 14 | 0 | 0 | 6 | 0 | 0 | 7 |
| 8:45 AM | 9:00 AM | 16 | 326 | 2 | 4 | 144 | 22 | 0 | 0 | 4 | 0 | 0 | 17 |
| AM Peak Hour Volumes | 27 | 2050 | 30 | 73 | 417 | 51 | 0 | 0 | 55 | 0 | 0 | 29 | |
| % of Total Traffic | 1.0% | 75.0% | 1.1% | 2.7% | 15.3% | 1.9% | 0.0% | 0.0% | 2.0% | 0.0% | 0.0% | 1.1% | |
| % Directional | | | | | 19.8% | | | | 2.0% | | | | |
| AM Peak Hour Factor | | | | | 0.84 | | | | 0.53 | | | | 0.60 |

| Begin Time | End Time | Eastbound (Montano Rd.) | | | Westbound (Montano Rd.) | | | Northbound (Winterhaven) | | | Southbound (Winterhaven) | | |
|-----------------------------|-----------|-------------------------|-----------|-----------|-------------------------|------------|----------|--------------------------|-----------|----------|--------------------------|-----------|------|
| | | L | T | R | L | T | R | L | T | R | L | T | R |
| 4:00 PM | 4:15 PM | 44 | 156 | 2 | 14 | 294 | 64 | 0 | 0 | 8 | 0 | 0 | 33 |
| 4:15 PM | 4:30 PM | 47 | 186 | 4 | 8 | 353 | 77 | 0 | 0 | 8 | 0 | 0 | 29 |
| 4:30 PM | 4:45 PM | 45 | 224 | 4 | 4 | 292 | 68 | 0 | 0 | 6 | 0 | 0 | 20 |
| 4:45 PM | 5:00 PM | 13 | 181 | 1 | 5 | 345 | 80 | 0 | 0 | 7 | 0 | 0 | 20 |
| 5:00 PM | 5:15 PM | 14 | 184 | 2 | 16 | 340 | 72 | 0 | 0 | 9 | 0 | 0 | 21 |
| 5:15 PM | 5:30 PM | 13 | 187 | 9 | 14 | 347 | 95 | 0 | 0 | 19 | 0 | 0 | 11 |
| 5:30 PM | 5:45 PM | 17 | 184 | 3 | 11 | 336 | 79 | 0 | 0 | 11 | 0 | 0 | 17 |
| 5:45 PM | 6:00 PM | 40 | 154 | 4 | 5 | 358 | 89 | 0 | 0 | 5 | 0 | 0 | 14 |
| PM Peak Hour Volumes | 57 | 736 | 15 | 46 | 1368 | 326 | 0 | 0 | 46 | 0 | 0 | 69 | |
| % of Total Traffic | 2.1% | 27.6% | 0.6% | 1.7% | 51.4% | 12.2% | 0.0% | 0.0% | 1.7% | 0.0% | 0.0% | 0.0% | 2.6% |
| % Directional | | | | | 65.3% | | | | 1.7% | | | | 2.6% |
| PM Peak Hour Factor | | | | | 0.97 | | | | 0.95 | | | | 0.82 |

Traffic Count Data Sheet

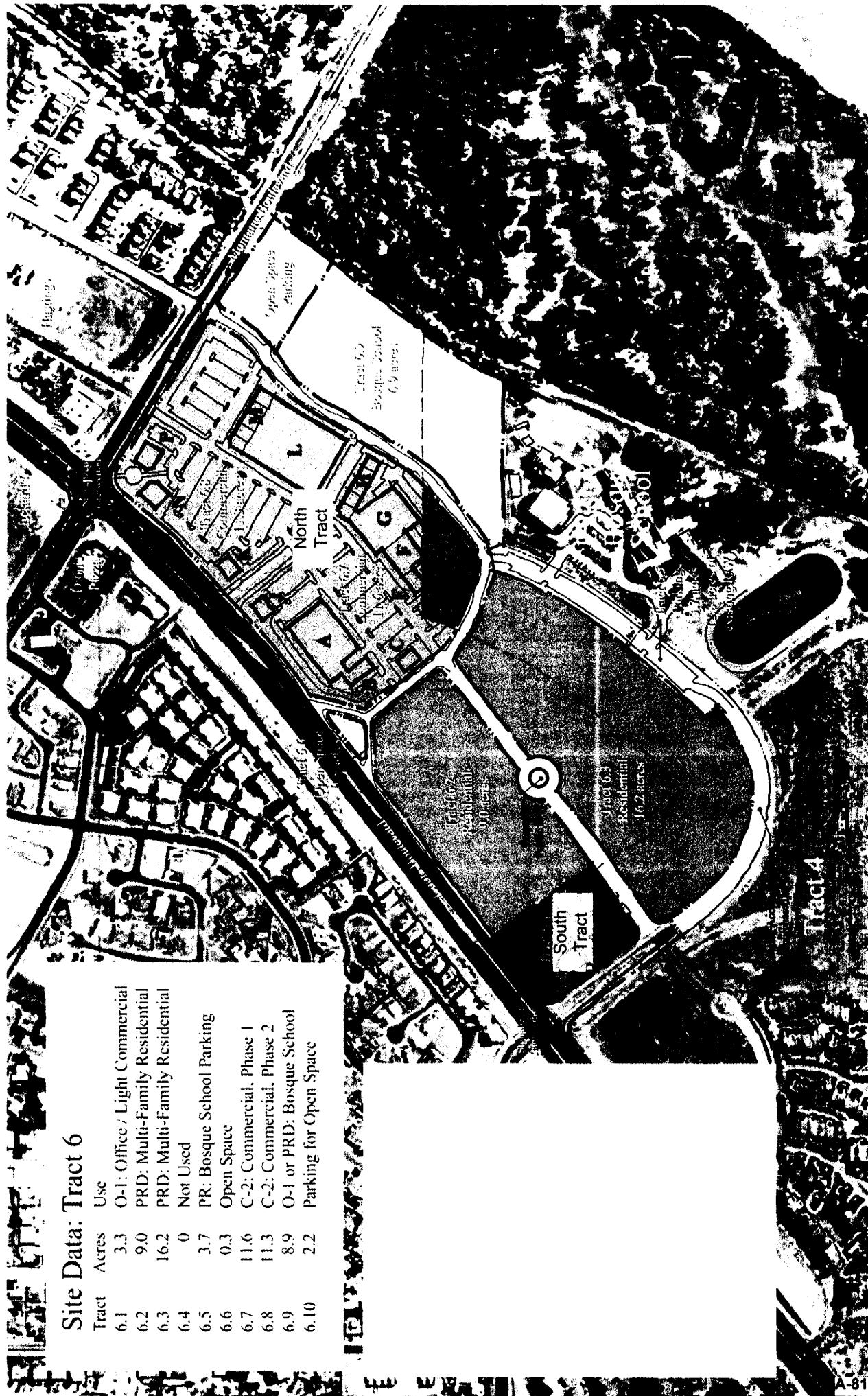
Year Counts Taken: **2011** E-W Street Montano Rd
N-S Street: Fourth St

Speed Limit (Montano Rd)= **25 MPH**
Speed Limit (Fourth St)= **25 MPH**
Date of Count: **10/27/11**

| Begin Time | End Time | Eastbound (Montano Rd) | | | Westbound (Montano Rd) | | | Northbound (Fourth St) | | | Southbound (Fourth St) | | |
|-----------------------------|------------|------------------------|------------|------------|------------------------|------------|------------|------------------------|------------|------------|------------------------|------------|-----------|
| | | L | T | R | L | T | R | L | T | R | L | T | R |
| 7:00 AM | 7:15 AM | 32 | 322 | 120 | 14 | 39 | 8 | 23 | 52 | 26 | 34 | 84 | 8 |
| 7:15 AM | 7:30 AM | 28 | 351 | 137 | 26 | 68 | 9 | 40 | 75 | 40 | 41 | 101 | 13 |
| 7:30 AM | 7:45 AM | 42 | 344 | 118 | 30 | 70 | 17 | 52 | 102 | 50 | 51 | 120 | 38 |
| 7:45 AM | 8:00 AM | 47 | 291 | 129 | 30 | 122 | 22 | 56 | 122 | 56 | 49 | 133 | 22 |
| 8:00 AM | 8:15 AM | 31 | 253 | 89 | 35 | 101 | 18 | 46 | 106 | 33 | 54 | 138 | 24 |
| 8:15 AM | 8:30 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8:30 AM | 8:45 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8:45 AM | 9:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| AM Peak Hour Volumes | 148 | 1239 | 473 | 121 | 361 | 66 | 194 | 405 | 179 | 195 | 492 | 97 | |
| % of Total Traffic | 3.7% | 31.2% | 11.9% | 3.0% | 9.1% | 1.7% | 4.9% | 10.2% | 4.5% | 4.9% | 12.4% | 2.4% | |
| % Directional | | | | | 13.8% | | | 19.6% | | | 19.7% | | |
| AM Peak Hour Factor | | | | | 0.90 | | | 0.83 | | | 0.91 | | |

| Begin Time | End Time | Eastbound (Montano Rd) | | | Westbound (Montano Rd) | | | Northbound (Fourth St) | | | Southbound (Fourth St) | | |
|-----------------------------|------------|------------------------|------------|------------|------------------------|------------|------------|------------------------|------------|------------|------------------------|------------|-----------|
| | | L | T | R | L | T | R | L | T | R | L | T | R |
| 4:00 PM | 4:15 PM | 37 | 126 | 66 | 32 | 239 | 45 | 89 | 150 | 26 | 47 | 126 | 46 |
| 4:15 PM | 4:30 PM | 34 | 147 | 55 | 43 | 340 | 47 | 102 | 121 | 34 | 48 | 137 | 35 |
| 4:30 PM | 4:45 PM | 31 | 156 | 62 | 45 | 257 | 50 | 108 | 142 | 26 | 38 | 113 | 38 |
| 4:45 PM | 5:00 PM | 40 | 150 | 61 | 29 | 331 | 59 | 95 | 133 | 26 | 45 | 131 | 41 |
| 5:00 PM | 5:15 PM | 31 | 139 | 50 | 36 | 290 | 37 | 92 | 143 | 72 | 37 | 115 | 23 |
| 5:15 PM | 5:30 PM | 34 | 142 | 48 | 36 | 343 | 54 | 135 | 138 | 22 | 45 | 119 | 36 |
| 5:30 PM | 5:45 PM | 42 | 124 | 44 | 37 | 304 | 45 | 120 | 155 | 30 | 25 | 98 | 46 |
| 5:45 PM | 6:00 PM | 5 | 49 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 24 | 2 |
| PM Peak Hour Volumes | 136 | 592 | 228 | 153 | 1218 | 193 | 397 | 539 | 158 | 168 | 496 | 137 | |
| % of Total Traffic | 3.1% | 13.4% | 5.2% | 3.5% | 27.6% | 4.4% | 9.0% | 12.2% | 3.6% | 3.8% | 11.2% | 3.1% | |
| % Directional | | | | | 35.4% | | | 24.8% | | | 18.1% | | |
| PM Peak Hour Factor | | | | | 0.91 | | | 0.89 | | | 0.91 | | |

Data from 2005
Approved Plan for
Andalucia, Tract 6



Andalucia: Conceptual Land Use Plan
Albuquerque, New Mexico August 9, 2004 04046

A-81

turn-in only driveway located approximately midway between Dellyne Ave. and Montano Rd.

The proposed driveway configuration can be seen on two site development plans on Pages A-2 and A-3 in Appendix "A" of this study.

TRIP GENERATION

Projected trips were calculated from data in the Institute of Transportation Engineers Trip Generation report (7th Edition, 2003). Trips for the development were determined based on land uses defined on the Conceptual Site Development Plan on Pages A-2 and A-3 in the Appendix of this report. The resulting number of trips generated for the proposed development are summarized in the following tables:

Montano Shops (Montano Rd. / Winterhaven Dr.)

Trip Generation Data

| USE (ITE CODE) | DESCRIPTION | GROSS | 24 HR VOL | | A. M. PEAK HR. | | P. M. PEAK HR. | |
|------------------------------|-------------|-------|--------------|------------|----------------|------------|----------------|------|
| | | | ENTER | EXIT | ENTER | EXIT | ENTER | EXIT |
| Summary Sheet | | | | | | | | |
| Shopping Center (820) | Units | 25.00 | 2,758 | 42 | 27 | 121 | 131 | |
| Automobile Parts Sales (843) | | 7.00 | 416 | 7 | 7 | 20 | 21 | |
| Drive-In Bank (912) | | 4.00 | 1,563 | 54 | 41 | 127 | 127 | |
| Subtotal | | | 4,737 | 103 | 75 | 268 | 279 | |

Andalucia Tract 6 - Daskalos Development

Trip Generation Data

| COMMENT | USE (ITE CODE) | DESCRIPTION | 24 HR VOL | | A. M. PEAK HR. | | P. M. PEAK HR. | |
|------------------------|---|-------------|---------------|------------|----------------|--------------|----------------|------|
| | | | GROSS | ENTER | EXIT | ENTER | ENTER | EXIT |
| Summary Sheet | | | | | | | | |
| Bldg. A | Supermarket (850) | 44.00 | 4,337 | 92 | 59 | 249 | 239 | |
| Bldg. B, C, E, H, M | Specialty Retail Center (814) | 46.00 | 2,006 | 150 | 191 | 58 | 74 | |
| Bldg. D | Drive-In Bank (912) | 4.00 | 1,563 | 54 | 41 | 127 | 127 | |
| Bldg. F, G, L | Shopping Center (820) | 134.00 | 8,214 | 114 | 73 | 366 | 396 | |
| Bldg. S | Drive-In Bank (912) | 5.00 | 2,101 | 67 | 51 | 158 | 158 | |
| Bldg. J, K, N, P, Q, R | High Turnover (Sit-Down) Restaurant (832) | 38.00 | 4,953 | 183 | 169 | 248 | 165 | |
| | Subtotal Commercial | | 23,174 | 660 | 584 | 1,206 | 1,159 | |
| | Pass-by Trip Adjustment | 30% | (6,952) | (198) | (175) | (362) | (348) | |
| | Adjusted Commercial Trips | | 16,222 | 462 | 409 | 844 | 811 | |
| Residential | Apartment, Post-1973 (220) | 500.00 | 3,131 | 40 | 211 | 194 | 95 | |
| | Total New Trips | | 19,353 | 502 | 620 | 1,038 | 906 | |

Pass-by trip credits were taken for the 2010 analysis but not the 2006 analysis due to the size of the development considered at those levels.

Andalucia Tract 6 - Daskalos Development
Trip Generation Data

| COMMENT | USE (ITE CODE) | DESCRIPTION | 24 HR VOL | | A. M. PEAK HR. | | P. M. PEAK HR. | |
|----------------------------------|----------------|---|---------------|------------|----------------|------------|----------------|-------|
| | | | GROSS | ENTER | EXIT | ENTER | EXIT | |
| Summary Sheet | | | | | | | | |
| Bldg. A | | Supermarket (850) | 44.00 | 4,337 | 92 | 59 | 249 | 239 |
| Bldg. B, C, E, H, M | | Specialty Retail Center (814) | 46.00 | 2,006 | 150 | 191 | 58 | 74 |
| Bldg. D | | Drive-In Bank (912) | 4.00 | 1,563 | 54 | 41 | 127 | 127 |
| Bldg. F, G, L | | Shopping Center (820) | 134.00 | 8,214 | 114 | 73 | 366 | 396 |
| Bldg. S | | Drive-In Bank (912) | 0.00 | - | - | - | - | - |
| Bldg. J, K, N, P, Q, R | | High Turnover (Sit-Down) Restaurant (832) | 22.00 | 2,867 | 106 | 98 | 143 | 96 |
| | | Subtotal Commercial | 18,987 | 516 | 462 | 943 | 932 | |
| Pass-by Trip Adjustment | | | | | | | | |
| | | | 30% | (5,696) | (155) | (139) | (283) | (280) |
| Adjusted Commercial Trips | | | | | | | | |
| Residential | | Apartment, Post-1973 (220) | 500.00 | 3,131 | 40 | 211 | 194 | 95 |
| | | Total New Trips | 16,422 | 401 | 534 | 854 | 747 | |

NOTE: Trips from South Tract have been excluded from this Table

Andalucia Update (Montano Rd / Coors Blvd)

Projected Turning Movements SUMMARY

PROPOSED DEVELOPMENT (2015) - 100% Development**TRAFFIC VOLUMES BASED ON CURRENT COUNTS AND 2005 PLAN****INTERSECTION:****Summary****Montano Rd / Coors Blvd**

(3) 2.0% Truck

Existing (2011)**2015 (NO BUILD - A.M.)****2015 (BUILD - A.M.)**

| Eastbound (Montano Rd) | | | Westbound (Montano Rd) | | | Northbound (Coors Blvd) | | | Southbound (Coors Blvd) | | | 0.88 | 0.76 | 0.88 | 0.90 | PHF |
|------------------------|-------|-------|------------------------|------|-------|-------------------------|-------|-------|-------------------------|-------|-------|------|------|-------|------|-----|
| Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | | |
| 237 | 1,120 | 304 | 233 | 219 | 150 | 255 | 1,137 | 629 | 629 | 1,328 | 11 | | | | | |
| 248 | 1,185 | 330 | 245 | 229 | 157 | 282 | 1,196 | 659 | 659 | 1,398 | 12 | | | | | |
| 248 | 1,242 | 388 | 284 | 229 | 157 | 392 | 1,273 | 659 | 677 | 1,425 | 12 | | | | | |

Existing (2011)**2015 (NO BUILD - P.M.)****2015 (BUILD - P.M.)**

| Eastbound (Montano Rd) | | | Westbound (Montano Rd) | | | Northbound (Coors Blvd) | | | Southbound (Coors Blvd) | | | 0.91 | 0.93 | 0.96 | 0.92 | PHF |
|------------------------|------|-------|------------------------|-------|-------|-------------------------|-------|-------|-------------------------|-------|-------|------|------|-------|------|-----|
| Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | | |
| 265 | 274 | 361 | 383 | 1,064 | 156 | 574 | 1,658 | 238 | 318 | 1,481 | 66 | | | | | |
| 278 | 304 | 395 | 402 | 1,114 | 163 | 640 | 1,748 | 249 | 333 | 1,562 | 69 | | | | | |
| 278 | 409 | 507 | 475 | 1,114 | 163 | 850 | 1,833 | 249 | 366 | 1,636 | 69 | | | | | |

Dellyne Ave / Coors Blvd

(4) 2.0% Truck

Existing (2011)**2015 (NO BUILD - A.M.)****2015 (BUILD - A.M.)**

| Eastbound (Dellyne Ave) | | | Westbound (Dellyne Ave) | | | Northbound (Coors Blvd) | | | Southbound (Coors Blvd) | | | 0.75 | 0.75 | 0.84 | 0.89 | PHF |
|-------------------------|------|-------|-------------------------|------|-------|-------------------------|-------|-------|-------------------------|-------|-------|------|------|-------|------|-----|
| Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | | |
| 231 | 30 | 282 | 51 | 8 | 8 | 59 | 1,615 | 69 | 40 | 2,077 | 29 | | | | | |
| 242 | 39 | 296 | 63 | 13 | 18 | 62 | 1,693 | 88 | 52 | 2,177 | 30 | | | | | |
| 282 | 39 | 296 | 206 | 49 | 110 | 62 | 1,737 | 139 | 95 | 2,177 | 30 | | | | | |

Existing (2011)**2015 (NO BUILD - P.M.)****2015 (BUILD - P.M.)**

| Eastbound (Dellyne Ave) | | | Westbound (Dellyne Ave) | | | Northbound (Coors Blvd) | | | Southbound (Coors Blvd) | | | 0.89 | 0.75 | 0.96 | 0.97 | PHF |
|-------------------------|------|-------|-------------------------|------|-------|-------------------------|-------|-------|-------------------------|-------|-------|------|------|-------|------|-----|
| Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | | |
| 109 | 8 | 101 | 37 | 7 | 11 | 337 | 2,382 | 20 | 7 | 1,971 | 141 | | | | | |
| 114 | 20 | 106 | 66 | 21 | 38 | 353 | 2,496 | 44 | 21 | 2,066 | 148 | | | | | |
| 188 | 20 | 106 | 326 | 94 | 79 | 353 | 2,590 | 176 | 119 | 2,066 | 148 | | | | | |

Montano Rd / Fourth St

(7) 2.0% Truck

Existing (2011)**2015 (NO BUILD - A.M.)****2015 (BUILD - A.M.)**

| Eastbound (Montano Rd) | | | Westbound (Montano Rd) | | | Northbound (Fourth St) | | | Southbound (Fourth St) | | | 0.90 | 0.79 | 0.83 | 0.91 | PHF |
|------------------------|-------|-------|------------------------|------|-------|------------------------|------|-------|------------------------|------|-------|------|------|-------|------|-----|
| Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | | |
| 148 | 1,239 | 473 | 121 | 361 | 66 | 194 | 405 | 179 | 195 | 492 | 977 | | | | | |
| 157 | 1,298 | 505 | 127 | 378 | 69 | 218 | 424 | 188 | 204 | 516 | 1,027 | | | | | |
| 173 | 1,351 | 581 | 127 | 388 | 69 | 292 | 424 | 188 | 204 | 516 | 1,044 | | | | | |

Existing (2011)**2015 (NO BUILD - P.M.)****2015 (BUILD - P.M.)**

| Eastbound (Montano Rd) | | | Westbound (Montano Rd) | | | Northbound (Fourth St) | | | Southbound (Fourth St) | | | 0.95 | 0.91 | 0.89 | 0.91 | PHF |
|------------------------|------|-------|------------------------|-------|-------|------------------------|------|-------|------------------------|------|-------|------|------|-------|------|-----|
| Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | | |
| 136 | 592 | 228 | 153 | 1,218 | 193 | 397 | 539 | 158 | 168 | 496 | 137 | | | | | |
| 149 | 620 | 264 | 160 | 1,276 | 202 | 438 | 565 | 166 | 176 | 520 | 149 | | | | | |
| 180 | 644 | 399 | 160 | 1,325 | 202 | 580 | 565 | 166 | 176 | 520 | 181 | | | | | |

Montano Rd / Winterhaven Rd

(8) 2.0% Truck

Existing (2011)**2015 (NO BUILD - A.M.)****2015 (BUILD - A.M.)**

| Eastbound (Montano Rd) | | | Westbound (Montano Rd) | | | Northbound (Winterhaven Rd) | | | Southbound (Winterhaven Rd) | | | 0.85 | 0.83 | 0.85 | 0.85 | PHF |
|------------------------|-------|-------|------------------------|------|-------|-----------------------------|------|-------|-----------------------------|------|-------|------|------|-------|------|-----|
| Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | | |
| 27 | 2,050 | 30 | 73 | 417 | 51 | 0 | 0 | 55 | 0 | 0 | 29 | | | | | |
| 28 | 2,154 | 31 | 95 | 437 | 53 | 0 | 0 | 64 | 0 | 0 | 31 | | | | | |
| 32 | 2,158 | 41 | 178 | 455 | 53 | 0 | 0 | 198 | 0 | 0 | 34 | | | | | |

Existing (2011)**2015 (NO BUILD - P.M.)****2015 (BUILD - P.M.)**

| Eastbound (Montano Rd) | | | Westbound (Montano Rd) | | | Northbound (Winterhaven Rd) | | | Southbound (Winterhaven Rd) | | | 0.97 | 0.95 | 0.85 | 0.85 | PHF |
|------------------------|------|-------|------------------------|-------|-------|-----------------------------|------|-------|-----------------------------|------|-------|------|------|-------|------|-----|
| Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | | |
| 57 | 736 | 15 | 46 | 1,368 | 326 | 0 | 0 | 46 | 0 | 0 | 69 | | | | | |
| 61 | 786 | 16 | 75 | 1,434 | 342 | 0 | 0 | 63 | 0 | 0 | 73 | | | | | |
| 67 | 838 | 34 | 312 | 1,420 | 342 | 0 | 0 | 200 | 0 | 0 | 80 | | | | | |

Andalucia Update (Montano Rd / Coors Blvd)

Projected Turning Movements SUMMARY

PROPOSED DEVELOPMENT (2015) - 100% Development**TRAFFIC VOLUMES BASED ON CURRENT COUNTS AND 2005 PLAN**

INTERSECTION:

Summary**Montano Rd / Antequera Rd**

(9) 2.0% Truck

Existing (2011)
2015 (NO BUILD - A.M.)
2015 (BUILD - A.M.)

| Eastbound (Montano Rd) | | | Westbound (Montano Rd) | | | Northbound (Antequera Rd) | | | Southbound (Antequera Rd) | | | 0.85 | PHF |
|------------------------|-------|-------|------------------------|------|-------|---------------------------|------|-------|---------------------------|------|-------|------|-----|
| Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | 0.85 | PHF |
| 0 | 2,379 | 0 | 0 | 601 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 2,492 | 0 | 0 | 630 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 2,433 | 134 | 0 | 669 | 0 | 0 | 0 | 0 | 77 | 0 | 0 | 0 | 0 |

E-W Street / Coors Blvd

(10) 2.0% Truck

Existing (2011)
2015 (NO BUILD - P.M.)
2015 (BUILD - P.M.)

| Eastbound (E-W Street) | | | Westbound (E-W Street) | | | Northbound (Coors Blvd) | | | Southbound (Coors Blvd) | | | 0.85 | 0.90 | 0.90 | PHF |
|------------------------|------|-------|------------------------|------|-------|-------------------------|------|-------|-------------------------|------|-------|------|------|------|-----|
| Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | 0.85 | 0.95 | 0.95 | PHF |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2,022 | 0 | 0 | 1,864 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2,137 | 0 | 0 | 1,973 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 125 | 0 | 0 | 2,228 | 78 | 0 | 2,098 | 0 | 0 | 0 | 0 |

| Eastbound (E-W Street) | | | Westbound (E-W Street) | | | Northbound (Coors Blvd) | | | Southbound (Coors Blvd) | | | 0.85 | 0.96 | 0.96 | PHF |
|------------------------|------|-------|------------------------|------|-------|-------------------------|------|-------|-------------------------|------|-------|------|------|------|-----|
| Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | 0.85 | 0.95 | 0.95 | PHF |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2,469 | 0 | 0 | 2,224 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2,638 | 0 | 0 | 2,359 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 282 | 0 | 0 | 2,758 | 164 | 0 | 2,618 | 0 | 0 | 0 | 0 |

Mirandela Rd / Coors Blvd

(11) 2.0% Truck

Existing (2011)
2015 (NO BUILD - A.M.)
2015 (BUILD - A.M.)

| Eastbound (Mirandela Rd) | | | Westbound (Mirandela Rd) | | | Northbound (Coors Blvd) | | | Southbound (Coors Blvd) | | | 0.85 | 0.88 | 0.88 | PHF |
|--------------------------|------|-------|--------------------------|------|-------|-------------------------|------|-------|-------------------------|------|-------|------|------|------|-----|
| Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | 0.85 | 0.95 | 0.95 | PHF |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2,022 | 0 | 0 | 1,864 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 10 | 0 | 0 | 2,128 | 0 | 10 | 1,963 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 113 | 0 | 0 | 2,156 | 82 | 145 | 1,953 | 0 | 0 | 0 | 0 |

| Eastbound (Mirandela Rd) | | | Westbound (Mirandela Rd) | | | Northbound (Coors Blvd) | | | Southbound (Coors Blvd) | | | 0.85 | 0.96 | 0.96 | PHF |
|--------------------------|------|-------|--------------------------|------|-------|-------------------------|------|-------|-------------------------|------|-------|------|------|------|-----|
| Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | 0.85 | 0.95 | 0.95 | PHF |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2,469 | 0 | 0 | 2,224 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 26 | 0 | 0 | 2,612 | 0 | 14 | 2,344 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 226 | 0 | 0 | 2,606 | 186 | 286 | 2,330 | 0 | 0 | 0 | 0 |

Andalucia Update (Montano Rd / Coors Blvd)

Projected Turning Movements Worksheet

Montano Rd / Coors Blvd**TRAFFIC VOLUMES BASED ON CURRENT COUNTS AND 2005 PLAN**

INTERSECTION: E-W Street: **Montano Rd** (3)
 N-S Street: **Coors Blvd**

Year of Existing Counts
2010
Implementation Year
2015

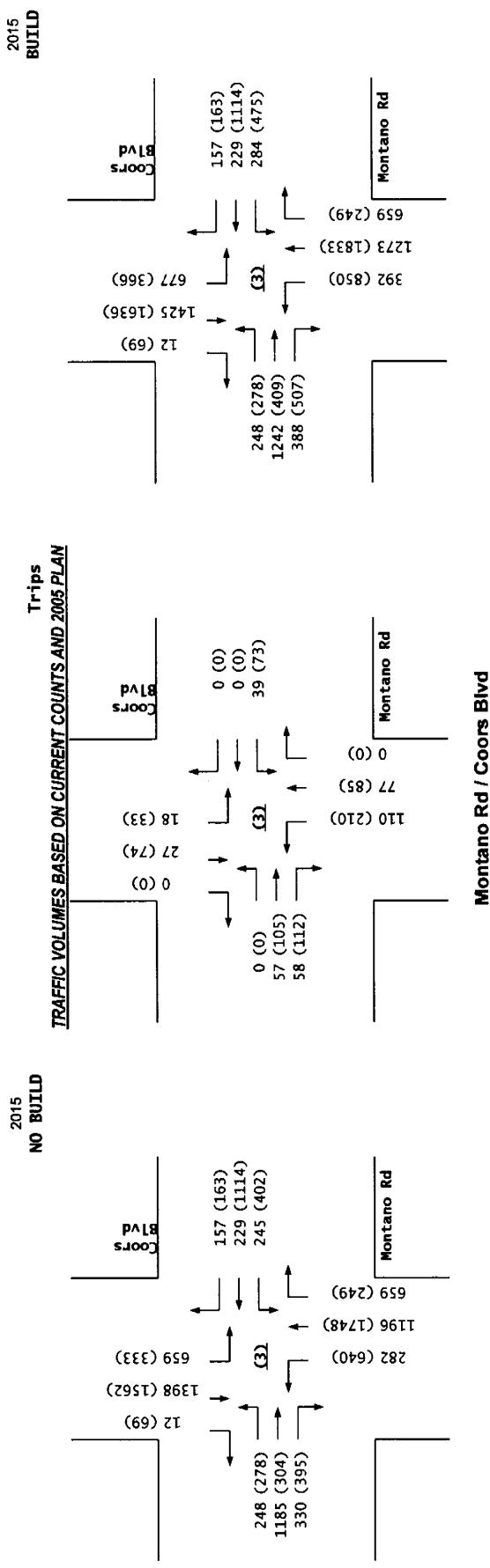
Growth Rates

| 1.20% | | | | | | | | | | | |
|---|------------|--------------|------------------------|------------|------------|-------------------------|------------|--------------|-------------------------|------------|--------------|
| Eastbound (Montano Rd) | | | Westbound (Montano Rd) | | | Northbound (Coors Blvd) | | | Southbound (Coors Blvd) | | |
| Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right |
| Existing Volumes | 234 | 1,107 | 300 | 230 | 216 | 148 | 252 | 1,124 | 622 | 622 | 1,312 |
| Background Traffic Growth | 14 | 66 | 18 | 14 | 13 | 9 | 15 | 67 | 37 | 37 | 79 |
| <i>Subtotal</i> | 248 | 1,173 | 318 | 244 | 229 | 157 | 267 | 1,191 | 659 | 659 | 1,391 |
| Credit Union (Learning) Trips | 0 | 12 | 12 | 1 | 0 | 0 | 15 | 5 | 0 | 0 | 7 |
| <i>Subtotal (NO BUILD - A.M.)</i> | 248 | 1,185 | 330 | 245 | 229 | 157 | 282 | 1,196 | 659 | 659 | 1,398 |
| Percent Residential Trips Generated(Entering) | 0.00% | 0.00% | 3.38% | 0.34% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 21.34% | 0.00% |
| Percent Residential Trips Generated(Exiting) | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 3.38% | 21.34% | 0.00% | 0.00% | 0.00% |
| Percent Commercial Trips Generated(Entering) | 0.00% | 15.89% | 15.90% | 10.93% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 4.95% | 5.00% |
| Percent Commercial Trips Generated(Exiting) | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 31.79% | 9.95% | 0.00% | 0.00% | 0.00% |
| Total Trips Generated | 0 | 57 | 58 | 39 | 0 | 0 | 110 | 77 | 0 | 18 | 27 |
| Total AM Peak Hour BUILD Volumes | 248 | 1,242 | 388 | 284 | 229 | 157 | 392 | 1,273 | 659 | 677 | 1,425 |

AM Adjustment for Heavy EB Flow on Montano

| 75 | | | | | | | | | | | |
|---|------------|------------|------------------------|------------|--------------|-------------------------|------------|--------------|-------------------------|------------|--------------|
| Eastbound (Montano Rd) | | | Westbound (Montano Rd) | | | Northbound (Coors Blvd) | | | Southbound (Coors Blvd) | | |
| Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right |
| Existing Volumes | 262 | 271 | 357 | 378 | 1,051 | 154 | 567 | 1,638 | 235 | 314 | 1,463 |
| Background Traffic Growth | 16 | 16 | 21 | 23 | 63 | 9 | 34 | 98 | 14 | 19 | 88 |
| <i>Subtotal</i> | 278 | 287 | 378 | 401 | 1,114 | 163 | 601 | 1,736 | 249 | 333 | 1,551 |
| Credit Union (Learning) Trips | 0 | 17 | 17 | 1 | 0 | 0 | 39 | 12 | 0 | 0 | 11 |
| <i>Subtotal (NO BUILD - P.M.)</i> | 278 | 304 | 395 | 402 | 1,114 | 163 | 640 | 1,748 | 249 | 333 | 1,562 |
| Percent Residential Trips Generated(Entering) | 0.00% | 0.00% | 3.38% | 0.34% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 21.34% | 0.00% |
| Percent Residential Trips Generated(Exiting) | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 3.38% | 21.34% | 0.00% | 0.00% | 0.00% |
| Percent Commercial Trips Generated(Entering) | 0.00% | 15.89% | 15.90% | 10.93% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 4.95% | 5.00% |
| Percent Commercial Trips Generated(Exiting) | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 31.79% | 9.95% | 0.00% | 0.00% | 0.00% |
| Total Trips Generated | 0 | 105 | 112 | 73 | 0 | 0 | 210 | 85 | 0 | 33 | 74 |
| Total PM Peak Hour BUILD Volumes | 278 | 409 | 507 | 475 | 1,114 | 163 | 850 | 1,833 | 249 | 366 | 1,636 |

| Entering | Exiting | A.M. | P.M. | 100% Residential Development |
|---------------------------------------|---------|------|------|------------------------------|
| Number of Residential Trips Generated | 35 | 138 | A.M. | 100% Residential Development |
| Number of Commercial Trips Generated | 135 | 73 | P.M. | |
| | 361 | 323 | A.M. | 100% Commercial Development |
| | 660 | 652 | P.M. | |



Andalucia Update (Montano Rd / Coors Blvd)

Projected Turning Movements Worksheet

*Dellyne Ave / Coors Blvd*TRAFFIC VOLUMES BASED ON CURRENT COUNTS AND 2005 PLAN**INTERSECTION:**E-W Street: **Dellyne Ave** (4)N-S Street: **Coors Blvd**Year of Existing Counts
Implementation Year2011
2015

Growth Rates

1.20%

1.20%

1.20%

1.20%

Existing Volumes

Background Traffic Growth

Subtotal

Credit Union (Learning) Trips

Subtotal (NO BUILD - A.M.)

Percent Residential Trips Generated(Entering)

Percent Residential Trips Generated(Exiting)

Percent Commercial Trips Generated(Entering)

Percent Commercial Trips Generated(Exiting)

Total Trips Generated

Total AM Peak Hour BUILD Volumes

| Eastbound (Dellyne Ave) | | | Westbound (Dellyne Ave) | | | Northbound (Coors Blvd) | | | Southbound (Coors Blvd) | | |
|-------------------------|-----------|------------|-------------------------|-----------|------------|-------------------------|--------------|------------|-------------------------|--------------|-----------|
| Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right |
| 231 | 30 | 282 | 51 | 8 | 8 | 59 | 1,615 | 69 | 40 | 2,077 | 29 |
| 11 | 1 | 14 | 2 | 0 | 0 | 3 | 78 | 3 | 2 | 100 | 1 |
| 242 | 31 | 296 | 53 | 8 | 8 | 62 | 1,693 | 72 | 42 | 2,177 | 30 |
| 0 | 8 | 0 | 10 | 5 | 10 | 0 | 0 | 16 | 10 | 0 | 0 |
| 242 | 39 | 296 | 63 | 13 | 18 | 62 | 1,693 | 88 | 52 | 2,177 | 30 |
| 0.00% | 0.17% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 10.90% | 32.72% | 16.71% | 0.00% | 0.00% |
| 0.00% | 0.00% | 0.00% | 12.36% | 0.17% | 43.62% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 11.15% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 11.00% | 10.53% | 10.00% | 0.00% | 0.00% |
| 0.00% | 0.00% | 0.00% | 21.53% | 11.15% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 40 | 0 | 0 | 96 | 36 | 92 | 0 | 44 | 51 | 43 | 0 | 0 |
| 282 | 39 | 296 | 206 | 49 | 110 | 62 | 1,737 | 139 | 95 | 2,177 | 30 |

Existing Volumes

Background Traffic Growth

Subtotal

Credit Union (Learning) Trips

Subtotal (NO BUILD - P.M.)

Percent Residential Trips Generated(Entering)

Percent Residential Trips Generated(Exiting)

Percent Commercial Trips Generated(Entering)

Percent Commercial Trips Generated(Exiting)

Total Trips Generated

Total PM Peak Hour BUILD Volumes

| Eastbound (Dellyne Ave) | | | Westbound (Dellyne Ave) | | | Northbound (Coors Blvd) | | | Southbound (Coors Blvd) | | |
|-------------------------|-----------|------------|-------------------------|-----------|-----------|-------------------------|--------------|------------|-------------------------|--------------|------------|
| Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right |
| 109 | 8 | 101 | 37 | 7 | 11 | 337 | 2,382 | 20 | 7 | 1,971 | 141 |
| 5 | 0 | 5 | 2 | 0 | 1 | 16 | 114 | 1 | 0 | 95 | 7 |
| 114 | 8 | 106 | 39 | 7 | 12 | 353 | 2,496 | 21 | 7 | 2,066 | 148 |
| 0 | 12 | 0 | 27 | 14 | 26 | 0 | 0 | 23 | 14 | 0 | 0 |
| 114 | 20 | 106 | 66 | 21 | 38 | 353 | 2,496 | 44 | 21 | 2,066 | 148 |
| 0.00% | 0.17% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 10.90% | 32.72% | 16.71% | 0.00% | 0.00% |
| 0.00% | 0.00% | 0.00% | 12.36% | 0.17% | 43.62% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 11.15% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 11.00% | 10.53% | 10.00% | 0.00% | 0.00% |
| 0.00% | 0.00% | 0.00% | 21.53% | 11.15% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 74 | 0 | 0 | 152 | 73 | 41 | 0 | 94 | 132 | 98 | 0 | 0 |
| 188 | 20 | 106 | 326 | 94 | 79 | 353 | 2,590 | 176 | 119 | 2,066 | 148 |

Number of Residential Trips Generated

Entering Exiting 100% Residential Development

Number of Commercial Trips Generated

Entering Exiting 100% Commercial Development

2011 AM Peak Hr. Volumes
2011 PM Peak Hr. Volumes

| Eastbound (Dellyne Ave) | | | Westbound (Dellyne Ave) | | | Northbound (Coors Blvd) | | | Southbound (Coors Blvd) | | |
|-------------------------|------|-------|-------------------------|------|-------|-------------------------|-------|-------|-------------------------|-------|-------|
| Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right |
| 231 | 30 | 282 | 51 | 8 | 8 | 59 | 1,615 | 69 | 40 | 2,077 | 29 |
| 109 | 8 | 101 | 37 | 7 | 11 | 337 | 2,382 | 20 | 7 | 1,971 | 141 |

Pass-by Trip Calculations:

AM Pass-by TripsPercent Entering
Volume Entering
Percent Exiting
Volume Exiting
Net AM Passby Trips

| Eastbound (Dellyne Ave) | | | Westbound (Dellyne Ave) | | | Northbound (Coors Blvd) | | | Southbound (Coors Blvd) | | |
|-------------------------|----------|----------|-------------------------|----------|----------|-------------------------|----------|----------|-------------------------|----------|----------|
| 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 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0.00% | 0.00% | 0.00% | 27.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 0 | 0 | 0 | 47 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 47 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

PM Pass-by TripsPercent Entering
Volume Entering
Percent Exiting
Volume Exiting
Net PM Passby Trips

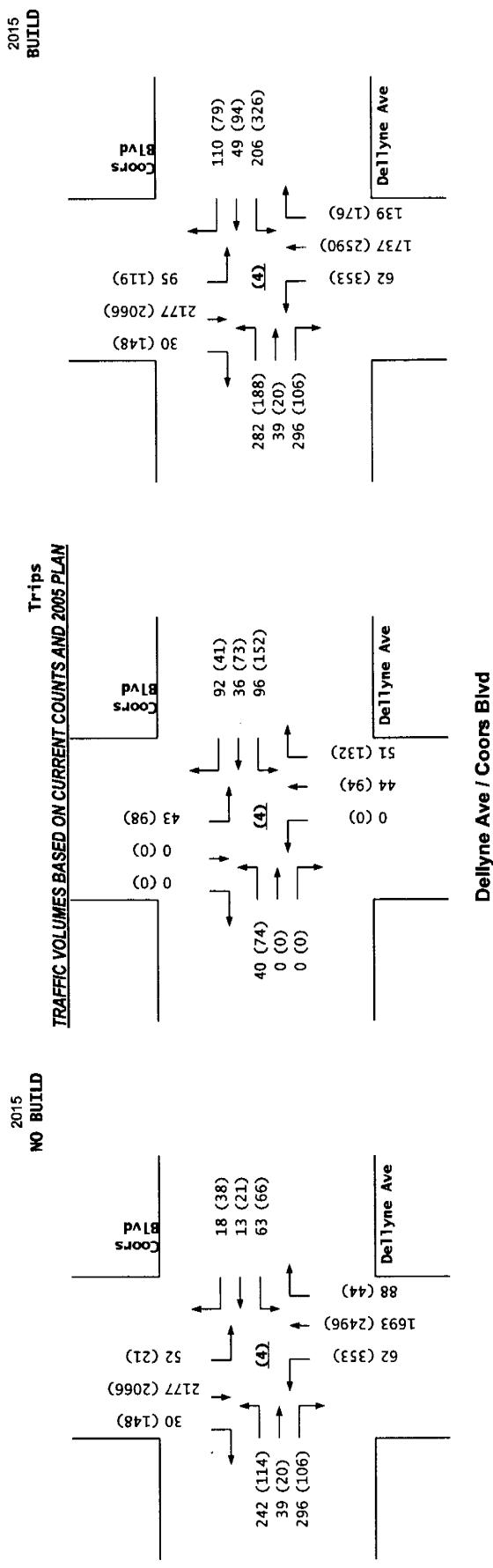
| Eastbound (Dellyne Ave) | | | Westbound (Dellyne Ave) | | | Northbound (Coors Blvd) | | | Southbound (Coors Blvd) | | |
|-------------------------|----------|----------|-------------------------|----------|----------|-------------------------|----------|----------|-------------------------|----------|----------|
| 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 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0.00% | 0.00% | 0.00% | 31.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 0 | 0 | 0 | 108 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 108 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

Entering Exiting

Pass-by Trips

198 175 AM

362 348 PM



Andalucia Update (Montano Rd / Coors Blvd)

Projected Turning Movements Worksheet

Montano Rd / Fourth St**TRAFFIC VOLUMES BASED ON CURRENT COUNTS AND 2005 PLAN****INTERSECTION:**

E-W Street: Montano Rd (7)

N-S Street: Fourth St

Year of Existing Counts

2011

Implementation Year

2015

Growth Rates

1.20%

1.20%

1.20%

1.20%

Existing Volumes

Background Traffic Growth

Subtotal

Credit Union (Learning) Trips

Subtotal (NO BUILD - A.M.)

Percent Residential Trips Generated(Entering)

Percent Residential Trips Generated(Exiting)

Percent Commercial Trips Generated(Entering)

Percent Commercial Trips Generated(Exiting)

Total Trips Generated

Total AM Peak Hour BUILD Volumes

| Eastbound (Montano Rd) | | | Westbound (Montano Rd) | | | Northbound (Fourth St) | | | Southbound (Fourth St) | | |
|---|--------------|--------------|------------------------|------------|------------|------------------------|------------|------------|------------------------|------------|--------------|
| Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right |
| 148 | 1,239 | 473 | 121 | 361 | 66 | 194 | 405 | 179 | 195 | 492 | 977 |
| 7 | 59 | 23 | 6 | 17 | 3 | 9 | 19 | 9 | 9 | 24 | 47 |
| 155 | 1,298 | 496 | 127 | 378 | 69 | 203 | 424 | 188 | 204 | 516 | 1,024 |
| 2 | 0 | 9 | 0 | 0 | 0 | 15 | 0 | 0 | 0 | 0 | 3 |
| 157 | 1,298 | 505 | 127 | 378 | 69 | 218 | 424 | 188 | 204 | 516 | 1,027 |
| 0.00% | 0.00% | 0.00% | 0.00% | 25.08% | 0.00% | 5.40% | 0.00% | 0.00% | 0.00% | 0.00% | 0.67% |
| 0.67% | 25.08% | 5.40% | 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% | 19.99% | 0.00% | 0.00% | 0.00% | 0.00% | 4.67% |
| 4.67% | 0.00% | 19.99% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| Total Trips Generated | 16 | 53 | 76 | 0 | 10 | 0 | 74 | 0 | 0 | 0 | 17 |
| Total AM Peak Hour BUILD Volumes | 173 | 1,351 | 581 | 127 | 388 | 69 | 292 | 424 | 188 | 204 | 516 |
| | | | | | | | | | | | |

Existing Volumes

Background Traffic Growth

Subtotal

Credit Union (Learning) Trips

Subtotal (NO BUILD - P.M.)

Percent Residential Trips Generated(Entering)

Percent Residential Trips Generated(Exiting)

Percent Commercial Trips Generated(Entering)

Percent Commercial Trips Generated(Exiting)

Total Trips Generated

Total PM Peak Hour BUILD Volumes

| Eastbound (Montano Rd) | | | Westbound (Montano Rd) | | | Northbound (Fourth St) | | | Southbound (Fourth St) | | |
|---|------------|------------|------------------------|--------------|--------------|------------------------|------------|------------|------------------------|------------|------------|
| Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right |
| 136 | 592 | 228 | 153 | 1,218 | 193 | 397 | 539 | 158 | 168 | 496 | 137 |
| 7 | 28 | 11 | 7 | 58 | 9 | 19 | 26 | 8 | 8 | 24 | 7 |
| 143 | 620 | 239 | 160 | 1,276 | 202 | 416 | 565 | 166 | 176 | 520 | 144 |
| 6 | 0 | 25 | 0 | 0 | 0 | 22 | 0 | 0 | 0 | 0 | 5 |
| 149 | 620 | 264 | 160 | 1,276 | 202 | 438 | 565 | 166 | 176 | 520 | 149 |
| 0.00% | 0.00% | 0.00% | 0.00% | 25.08% | 0.00% | 5.40% | 0.00% | 0.00% | 0.00% | 0.00% | 0.67% |
| 0.67% | 25.08% | 5.40% | 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% | 19.99% | 0.00% | 0.00% | 0.00% | 0.00% | 4.67% |
| 4.67% | 0.00% | 19.99% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| Total Trips Generated | 31 | 24 | 135 | 0 | 49 | 0 | 142 | 0 | 0 | 0 | 32 |
| Total PM Peak Hour BUILD Volumes | 180 | 644 | 399 | 160 | 1,325 | 202 | 580 | 565 | 166 | 176 | 520 |
| | | | | | | | | | | | |

Number of Residential Trips Generated

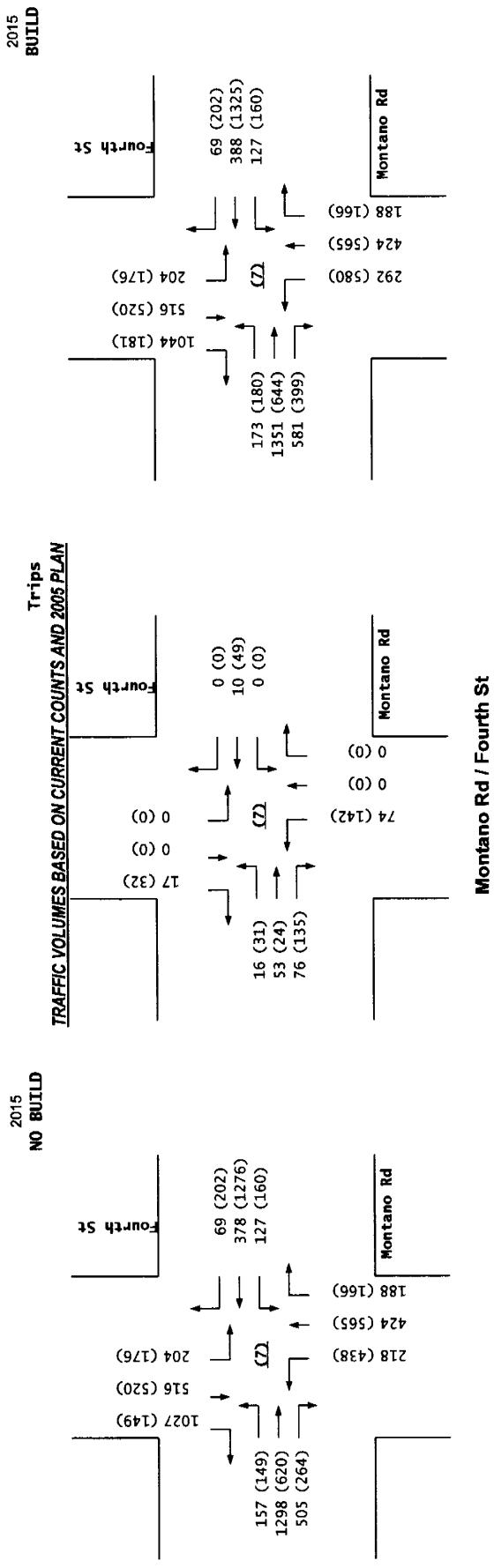
Entering Exiting A.M. 100% Residential Development

135 73 P.M.

Number of Commercial Trips Generated

361 323 A.M. 100% Commercial Development

660 652 P.M.



Andalucia Update (Montano Rd / Coors Blvd)

Projected Turning Movements Worksheet

Montano Rd / Winterhaven RdTRAFFIC VOLUMES BASED ON CURRENT COUNTS AND 2005 PLAN**INTERSECTION:**

E-W Street: Montano Rd (8)

N-S Street: Winterhaven Rd

Year of Existing Counts
Implementation Year2011
2015

Growth Rates

1.20%

1.20%

1.20%

1.20%

Existing Volumes

Background Traffic Growth

Subtotal

Credit Union (Learning) Trips

Subtotal (NO BUILD - A.M.)

Percent Residential Trips Generated(Entering)

Percent Residential Trips Generated(Exiting)

Percent Commercial Trips Generated(Entering)

Percent Commercial Trips Generated(Exiting)

Total Trips Generated

Subtotal AM Pk Hr. BUILD Volumes

Pass-by Trip Adjustments

Total AM Peak Hour BUILD Volumes

AM Adjustment for Heavy EB Flow on Montano

| Eastbound (Montano Rd) | | | Westbound (Montano Rd) | | | Northbound (Winterhaven Rd) | | | Southbound (Winterhaven Rd) | | |
|------------------------|--------------|-----------|------------------------|------------|-----------|-----------------------------|----------|------------|-----------------------------|----------|-----------|
| Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right |
| 27 | 2,050 | 30 | 73 | 417 | 51 | 0 | 0 | 55 | 0 | 0 | 29 |
| 1 | 98 | 1 | 4 | 20 | 2 | 0 | 0 | 3 | 0 | 0 | 1 |
| 28 | 2,148 | 31 | 77 | 437 | 53 | 0 | 0 | 58 | 0 | 0 | 30 |
| 0 | 6 | 0 | 18 | 0 | 0 | 0 | 0 | 6 | 0 | 0 | 1 |
| 28 | 2,154 | 31 | 95 | 437 | 53 | 0 | 0 | 64 | 0 | 0 | 31 |
| 0.00% | 0.00% | 0.00% | 31.15% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.34% |
| 0.34% | 15.57% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 15.58% | 0.00% | 0.00% | 0.00% |
| 0.00% | 0.00% | 0.00% | 14.66% | 10.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.93% |
| 0.93% | 12.33% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 12.33% | 0.00% | 0.00% | 0.00% |
| 4 | 73 | 0 | 65 | 36 | 0 | 0 | 0 | 73 | 0 | 0 | 3 |
| 32 | 2,227 | 31 | 160 | 473 | 53 | 0 | 0 | 137 | 0 | 0 | 34 |
| 0 | -69 | 10 | 18 | -18 | 0 | 0 | 0 | 61 | 0 | 0 | 0 |
| 32 | 2,158 | 41 | 178 | 455 | 53 | 0 | 0 | 198 | 0 | 0 | 34 |
| -75 | | | 75 | | | | | | | | |

AM Adjustment for Heavy EB Flow on Montano

-75 75

| Eastbound (Montano Rd) | | | Westbound (Montano Rd) | | | Northbound (Winterhaven Rd) | | | Southbound (Winterhaven Rd) | | |
|------------------------|------------|-----------|------------------------|--------------|------------|-----------------------------|----------|------------|-----------------------------|----------|-----------|
| Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right |
| 57 | 736 | 15 | 46 | 1,368 | 326 | 0 | 0 | 46 | 0 | 0 | 69 |
| 3 | 35 | 1 | 2 | 66 | 16 | 0 | 0 | 2 | 0 | 0 | 3 |
| 60 | 771 | 16 | 48 | 1,434 | 342 | 0 | 0 | 48 | 0 | 0 | 72 |
| 1 | 15 | 0 | 27 | 0 | 0 | 0 | 0 | 15 | 0 | 0 | 1 |
| 61 | 786 | 16 | 75 | 1,434 | 342 | 0 | 0 | 63 | 0 | 0 | 73 |
| 0.00% | 0.00% | 0.00% | 31.15% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.34% |
| 0.34% | 15.57% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 15.58% | 0.00% | 0.00% | 0.00% |
| 0.00% | 0.00% | 0.00% | 14.66% | 10.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.93% |
| 0.93% | 12.33% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 12.33% | 0.00% | 0.00% | 0.00% |
| 6 | 95 | 0 | 157 | 66 | 0 | 0 | 0 | 95 | 0 | 0 | 7 |
| 67 | 881 | 16 | 232 | 1,500 | 342 | 0 | 0 | 158 | 0 | 0 | 80 |
| 0 | -43 | 18 | 80 | -80 | 0 | 0 | 0 | 42 | 0 | 0 | 0 |
| 67 | 838 | 34 | 312 | 1,420 | 342 | 0 | 0 | 200 | 0 | 0 | 80 |

Entering Exiting Number of Residential Trips Generated

A.M. P.M. 100% Residential Development

135 138 135 73 100% Commercial Development

361 323 360 652 100% Commercial Development

Pass-by Trip Calculations:

AM Pass-by Trips

| Eastbound (Montano Rd) | | | Westbound (Montano Rd) | | | Northbound (Winterhaven Rd) | | | Southbound (Winterhaven Rd) | | |
|----------------------------|-----------------|-----------------|------------------------|------------------|-----------------|-----------------------------|----------------|------------------|-----------------------------|-----------------|----------------|
| Percent Entering | Volume Entering | Percent Exiting | Volume Exiting | Percent Entering | Volume Entering | Percent Exiting | Volume Exiting | Percent Entering | Volume Entering | Percent Exiting | Volume Exiting |
| 0.00% | -35.00% | 5.00% | 9.00% | -9.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 0 | -69 | 10 | 18 | -18 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 35.00% | 0.00% | 0.00% | 0.00% |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 61 | 0 | 0 | 0 |
| Net AM Passby Trips | 0 | -69 | 10 | 18 | -18 | 0 | 0 | 0 | 61 | 0 | 0 |

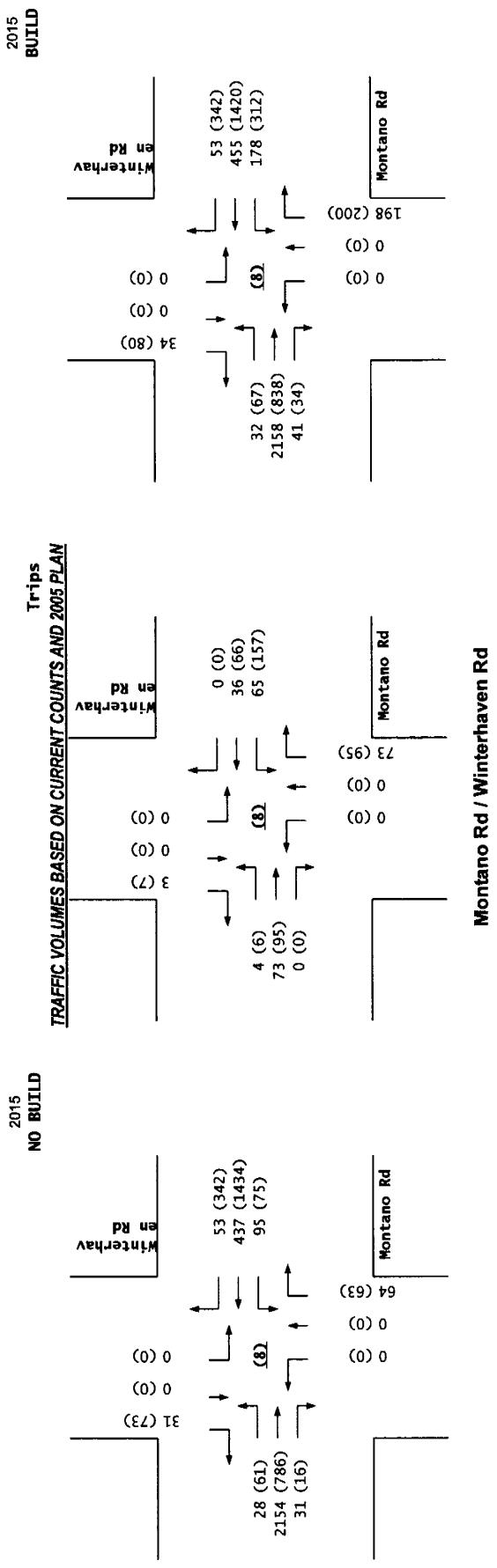
PM Pass-by Trips

| Eastbound (Montano Rd) | | | Westbound (Montano Rd) | | | Northbound (Winterhaven Rd) | | | Southbound (Winterhaven Rd) | | |
|----------------------------|-----------------|-----------------|------------------------|------------------|-----------------|-----------------------------|----------------|------------------|-----------------------------|-----------------|----------------|
| Percent Entering | Volume Entering | Percent Exiting | Volume Exiting | Percent Entering | Volume Entering | Percent Exiting | Volume Exiting | Percent Entering | Volume Entering | Percent Exiting | Volume Exiting |
| 0.00% | -12.00% | 5.00% | 22.00% | -22.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 0 | -43 | 18 | 80 | -80 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 12.00% | 0.00% | 0.00% | 0.00% |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 42 | 0 | 0 | 0 |
| Net PM Passby Trips | 0 | -43 | 18 | 80 | -80 | 0 | 0 | 0 | 42 | 0 | 0 |

Entering Exiting Pass-by Trips

A.M.

P.M.



Andalucia Update (Montano Rd / Coors Blvd)

Projected Turning Movements Worksheet

Montano Rd / Antequera RdTRAFFIC VOLUMES BASED ON CURRENT COUNTS AND 2005 PLAN

INTERSECTION: E-W Street: Montano Rd (9)
 N-S Street: Antequera Rd

Year of Existing Counts
 Implementation Year
 2010
 2015

Growth Rates

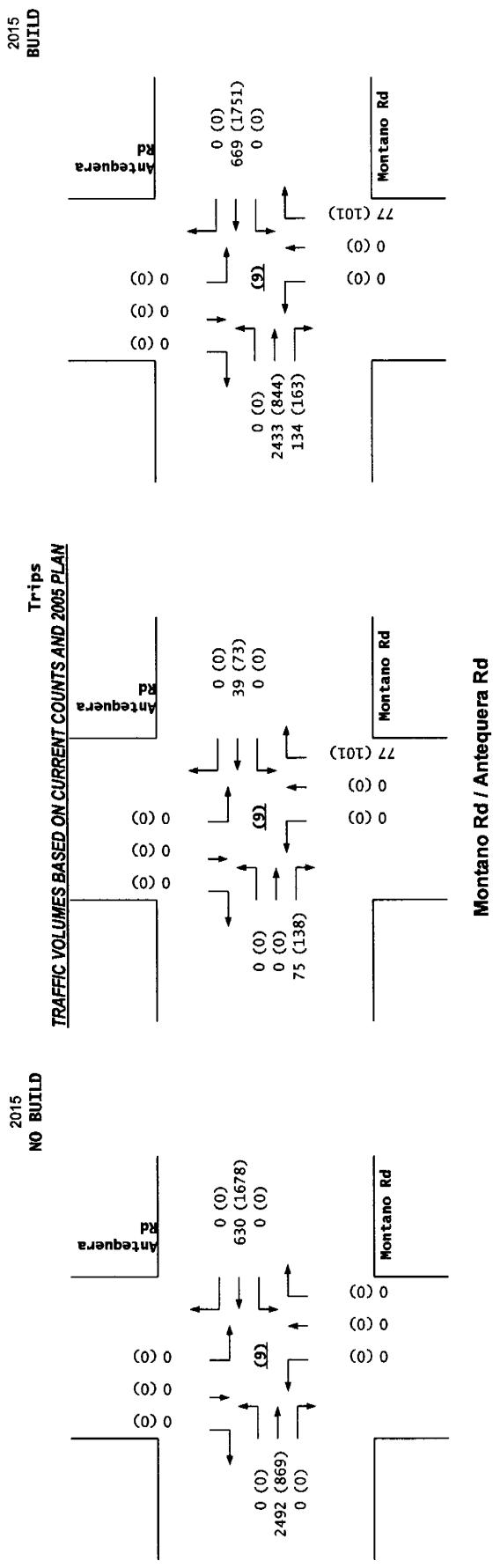
| 1.20% | | | 1.20% | | | 1.20% | | | 1.20% | | |
|---|--------------|--------------|------------------------|------------|------------|---------------------------|----------|----------|---------------------------|----------|----------|
| Eastbound (Montano Rd) | | | Westbound (Montano Rd) | | | Northbound (Antequera Rd) | | | Southbound (Antequera Rd) | | |
| Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right |
| 0 | 2,351 | 0 | 0 | 594 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 141 | 0 | 0 | 36 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 2,492 | 0 | 0 | 630 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Percent Residential Trips Generated(Entering) | 0.00% | 0.00% | 0.00% | 0.34% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| Percent Residential Trips Generated(Exiting) | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 15.91% | 0.00% | 0.00% | 0.00% |
| Percent Commercial Trips Generated(Entering) | 0.00% | 0.00% | 20.84% | 0.00% | 10.93% | 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% | 13.26% | 0.00% | 0.00% | 0.00% |
| Total Trips Generated | 0 | 0 | 75 | 0 | 39 | 0 | 0 | 0 | 77 | 0 | 0 |
| Subtotal AM Pk Hr. BUILD Volumes | 0 | 2,492 | 75 | 0 | 669 | 0 | 0 | 0 | 77 | 0 | 0 |
| Pass-by Trip Adjustments | 0 | -59 | 59 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total AM Peak Hour BUILD Volumes | 0 | 2,433 | 134 | 0 | 669 | 0 | 0 | 0 | 77 | 0 | 0 |

AM Adjustment for Heavy EB Flow on Montano

| 75 | | | Eastbound (Montano Rd) | | | Westbound (Montano Rd) | | | Northbound (Antequera Rd) | | | Southbound (Antequera Rd) | | |
|---|------------|------------|------------------------|--------------|--------------|------------------------|----------|----------|---------------------------|----------|------------|---------------------------|----------|----------|
| Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right |
| 0 | 820 | 0 | 0 | 1,583 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 49 | 0 | 0 | 95 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 869 | 0 | 0 | 1,678 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Percent Residential Trips Generated(Entering) | 0.00% | 0.00% | 0.00% | 0.00% | 0.34% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| Percent Residential Trips Generated(Exiting) | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 15.91% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| Percent Commercial Trips Generated(Entering) | 0.00% | 0.00% | 20.84% | 0.00% | 10.93% | 0.00% | 0.00% | 0.00% | 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% | 13.26% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| Total Trips Generated | 0 | 0 | 138 | 0 | 73 | 0 | 0 | 0 | 0 | 0 | 101 | 0 | 0 | 0 |
| Subtotal PM Pk Hr. BUILD Volumes | 0 | 869 | 138 | 0 | 1,761 | 0 | 0 | 0 | 0 | 0 | 101 | 0 | 0 | 0 |
| Pass-by Trip Adjustments | 0 | -25 | 25 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total PM Peak Hour BUILD Volumes | 0 | 844 | 163 | 0 | 1,751 | 0 | 0 | 0 | 0 | 0 | 101 | 0 | 0 | 0 |

| Entering | Exiting |
|----------|--------------------------------------|
| 35 | 138 A.M. |
| 135 | 73 P.M. |
| 361 | 323 A.M. 100% Commercial Development |
| 660 | 652 P.M. |

| Pass-by Trip Calculations: | | | | | | | | | | | | | | |
|----------------------------|----------|------------------------|-----------|----------|------------------------|----------|----------|---------------------------|----------|----------|---------------------------|----------|----------|----------|
| AM Pass-by Trips | | Eastbound (Montano Rd) | | | Westbound (Montano Rd) | | | Northbound (Antequera Rd) | | | Southbound (Antequera Rd) | | | |
| Percent Entering | -30.00% | 30.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| Volume Entering | 0 | -59 | 59 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Percent Exiting | 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% |
| Volume Exiting | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Net AM Passby Trips | 0 | -59 | 59 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| PM Pass-by Trips | | Eastbound (Montano Rd) | | | Westbound (Montano Rd) | | | Northbound (Antequera Rd) | | | Southbound (Antequera Rd) | | | |
| Percent Entering | -7.00% | 7.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| Volume Entering | 0 | -25 | 25 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Percent Exiting | 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% |
| Volume Exiting | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Net PM Passby Trips | 0 | -25 | 25 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Entering | Exiting | Pass-by Trips | | | 198 AM | | | 362 PM | | | | | | |



Andalucia Update (Montano Rd / Coors Blvd)

Projected Turning Movements Worksheet

E-W Street / Coors BlvdTRAFFIC VOLUMES BASED ON CURRENT COUNTS AND 2005 PLAN

INTERSECTION: E-W Street (10)
 N-S Street: Coors Blvd

Year of Existing Counts
 Implementation Year
 2010
 2015

Growth Rates

| | | | 1.20% | | | 1.20% | | | 1.20% | | | 1.20% | | | |
|---|----------|----------|------------------------|----------|------------|------------------------|--------------|--------------|-------------------------|----------|--------------|-------------------------|-------|------|-------|
| | | | Eastbound (E-W Street) | | | Westbound (E-W Street) | | | Northbound (Coors Blvd) | | | Southbound (Coors Blvd) | | | |
| | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right |
| Existing Volumes | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1,998 | 0 | 0 | 1,842 | 0 | | | |
| Background Traffic Growth | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 120 | 0 | 0 | 111 | 0 | | | |
| <i>Subtotal</i> | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2,118 | 0 | 0 | 1,953 | 0 | | | |
| Credit Union (Learning) Trips | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 19 | 0 | 0 | 20 | 0 | | | |
| Subtotal (NO BUILD - A.M.) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2,137 | 0 | 0 | 1,973 | 0 | | | |
| Percent Residential Trips Generated(Entering) | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 25.06% | 0.00% | | | |
| Percent Residential Trips Generated(Exiting) | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 24.72% | 0.00% | 0.00% | 0.00% | 0.00% | | | |
| Percent Commercial Trips Generated(Entering) | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 11.00% | 0.00% | 0.00% | 31.83% | 0.00% | | |
| Percent Commercial Trips Generated(Exiting) | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 27.82% | 0.00% | 13.91% | 0.00% | 0.00% | 0.00% | 0.00% | | | |
| Total Trips Generated | 0 | 0 | 0 | 0 | 90 | 0 | 97 | 40 | 0 | 0 | 125 | 0 | | | |
| Subtotal AM Pk Hr. BUILD Volumes | 0 | 0 | 0 | 0 | 90 | 0 | 2,234 | 40 | 0 | 0 | 2,098 | 0 | | | |
| Pass-by Trip Adjustments | 0 | 0 | 0 | 0 | 35 | 0 | -6 | 38 | 0 | 0 | 0 | 0 | | | |
| Total AM Peak Hour BUILD Volumes | 0 | 0 | 0 | 0 | 125 | 0 | 2,228 | 78 | 0 | 0 | 2,098 | 0 | | | |

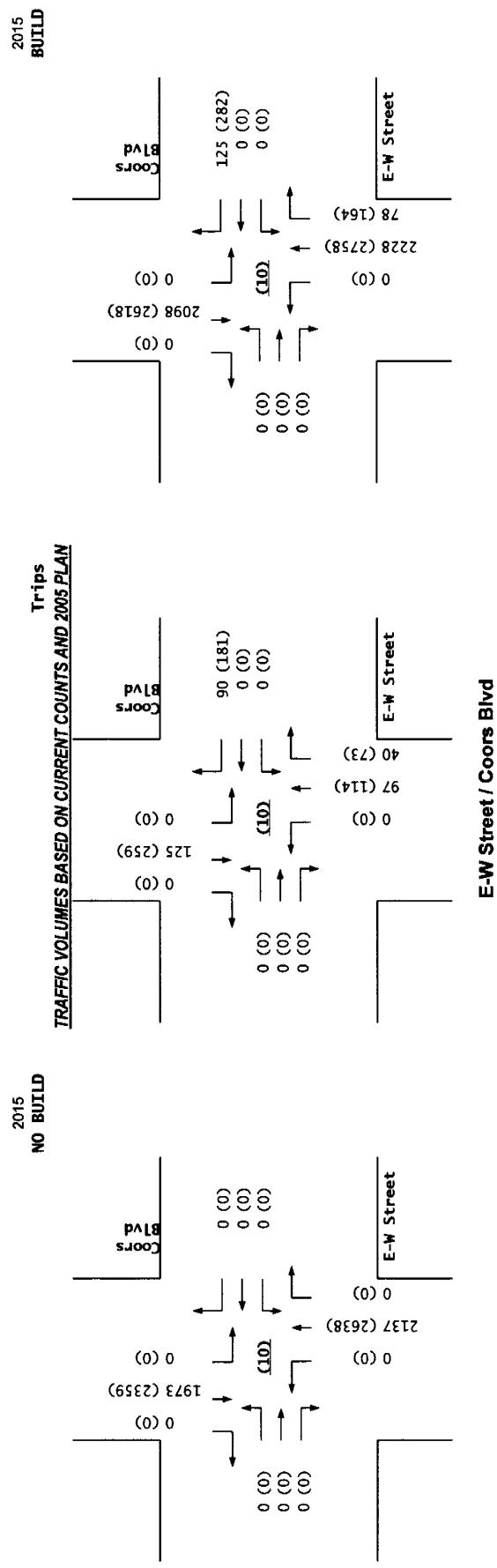
AM Adjustment for Heavy EB Flow on Montano

75

| | | | Eastbound (E-W Street) | | | Westbound (E-W Street) | | | Northbound (Coors Blvd) | | | Southbound (Coors Blvd) | | | |
|---|----------|----------|------------------------|----------|----------|------------------------|----------|--------------|-------------------------|----------|--------------|-------------------------|-------|------|-------|
| | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right |
| Existing Volumes | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2,440 | 0 | 0 | 2,198 | 0 | | | |
| Background Traffic Growth | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 146 | 0 | 0 | 132 | 0 | | | |
| <i>Subtotal</i> | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2,586 | 0 | 0 | 2,330 | 0 | | | |
| Credit Union (Learning) Trips | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 52 | 0 | 0 | 29 | 0 | | | |
| Subtotal (NO BUILD - P.M.) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2,638 | 0 | 0 | 2,359 | 0 | | | |
| Percent Residential Trips Generated(Entering) | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 25.06% | 0.00% | | | |
| Percent Residential Trips Generated(Exiting) | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 24.72% | 0.00% | 0.00% | 0.00% | 0.00% | | | |
| Percent Commercial Trips Generated(Entering) | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 11.00% | 0.00% | 0.00% | 31.83% | 0.00% | | |
| Percent Commercial Trips Generated(Exiting) | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 27.82% | 0.00% | 13.91% | 0.00% | 0.00% | 0.00% | 0.00% | | | |
| Total Trips Generated | 0 | 0 | 0 | 0 | 0 | 161 | 0 | 114 | 73 | 0 | 259 | 0 | | | |
| Subtotal PM Pk Hr. BUILD Volumes | 0 | 0 | 0 | 0 | 0 | 181 | 0 | 2,752 | 73 | 0 | 2,618 | 0 | | | |
| Pass-by Trip Adjustments | 0 | 0 | 0 | 0 | 0 | 101 | 0 | 6 | 91 | 0 | 0 | 0 | | | |
| Total PM Peak Hour BUILD Volumes | 0 | 0 | 0 | 0 | 0 | 282 | 0 | 2,758 | 164 | 0 | 2,618 | 0 | | | |

| Entering | Exiting |
|---------------------------------------|--|
| Number of Residential Trips Generated | 35 138 A.M. |
| Number of Commercial Trips Generated | 135 73 P.M. |
| | 361 323 A.M. 100% Commercial Development |
| | 660 652 P.M. |

| | | | Eastbound (E-W Street) | | | Westbound (E-W Street) | | | Northbound (Coors Blvd) | | | Southbound (Coors Blvd) | | | |
|----------------------------|--------------|--------------|------------------------|--------------|--------------|------------------------|--------------|---------------|-------------------------|--------------|--------------|-------------------------|------|------|-------|
| | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right |
| AM Pass-by Trips | 35 | 138 | A.M. | | | | | | | | | | | | |
| Percent Entering | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | -19.00% | 19.00% | 0.00% | 0.00% | 0.00% | | | |
| Volume Entering | 0 | 0 | 0 | 0 | 0 | 0 | 0 | -38 | 38 | 0 | 0 | 0 | | | |
| Percent Exiting | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 20.00% | 0.00% | 18.00% | 0.00% | 0.00% | 0.00% | 0.00% | | | |
| Volume Exiting | 0 | 0 | 0 | 0 | 0 | 35 | 0 | 32 | 0 | 0 | 0 | 0 | | | |
| Net AM Passby Trips | 0 | 0 | 0 | 0 | 0 | 35 | 0 | -6 | 38 | 0 | 0 | 0 | | | |
| PM Pass-by Trips | 198 | 175 | AM | | | | | | | | | | | | |
| Percent Entering | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | -25.00% | 25.00% | 0.00% | 0.00% | 0.00% | | | |
| Volume Entering | 0 | 0 | 0 | 0 | 0 | 0 | 0 | -91 | 91 | 0 | 0 | 0 | | | |
| Percent Exiting | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 29.00% | 0.00% | 28.00% | 0.00% | 0.00% | 0.00% | 0.00% | | | |
| Volume Exiting | 0 | 0 | 0 | 0 | 0 | 101 | 0 | 97 | 0 | 0 | 0 | 0 | | | |
| Net PM Passby Trips | 0 | 0 | 0 | 0 | 0 | 101 | 0 | 6 | 91 | 0 | 0 | 0 | | | |
| Entering | Exiting | | | | | | | | | | | | | | |
| Pass-by Trips | 198 | 175 | AM | | | | | | | | | | | | |
| | 362 | 348 | PM | | | | | | | | | | | | |



Andalucia Update (Montano Rd / Coors Blvd)

Projected Turning Movements Worksheet

Mirandela Rd / Coors Blvd**TRAFFIC VOLUMES BASED ON CURRENT COUNTS AND 2005 PLAN**

INTERSECTION: E-W Street: Mirandela Rd (11)

N-S Street: Coors Blvd

Year of Existing Counts
Implementation Year2010
2015

Growth Rates

| | 1.20% | | | 1.20% | | | 1.20% | | | 1.20% | | |
|---|--------------------------|----------|----------|--------------------------|----------|------------|-------------------------|--------------|-----------|-------------------------|--------------|----------|
| | Eastbound (Mirandela Rd) | | | Westbound (Mirandela Rd) | | | Northbound (Coors Blvd) | | | Southbound (Coors Blvd) | | |
| | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right |
| Existing Volumes | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1,998 | 0 | 0 | 1,842 | 0 |
| Background Traffic Growth | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 120 | 0 | 0 | 111 | 0 |
| Subtotal | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2,118 | 0 | 0 | 1,953 | 0 |
| Credit Union (Learning) Trips | 0 | 0 | 0 | 0 | 0 | 10 | 0 | 10 | 0 | 10 | 10 | 0 |
| Subtotal (NO BUILD - A.M.) | 0 | 0 | 0 | 0 | 0 | 10 | 0 | 2,128 | 0 | 10 | 1,963 | 0 |
| Percent Residential Trips Generated(Entering) | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 10.90% | 8.35% | 16.71% | 0.00% |
| Percent Residential Trips Generated(Exiting) | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 12.36% | 0.00% | 12.36% | 0.00% | 0.00% | 0.00% | 0.00% |
| Percent Commercial Trips Generated(Entering) | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 11.00% | 11.15% | 21.83% | 10.00% | 0.00% |
| Percent Commercial Trips Generated(Exiting) | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 13.91% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| Total Trips Generated | 0 | 0 | 0 | 0 | 0 | 71 | 0 | 66 | 44 | 82 | 43 | 0 |
| Subtotal AM Pk Hr. BUILD Volumes | 0 | 0 | 0 | 0 | 0 | 81 | 0 | 2,194 | 44 | 92 | 2,006 | 0 |
| Pass-by Trip Adjustments | 0 | 0 | 0 | 0 | 0 | 32 | 0 | -38 | 38 | 53 | -53 | 0 |
| Total AM Peak Hour BUILD Volumes | 0 | 0 | 0 | 0 | 0 | 113 | 0 | 2,156 | 82 | 145 | 1,953 | 0 |

AM Adjustment for Heavy EB Flow on Montano

75

| | Eastbound (Mirandela Rd) | | | Westbound (Mirandela Rd) | | | Northbound (Coors Blvd) | | | Southbound (Coors Blvd) | | |
|---|--------------------------|----------|----------|--------------------------|----------|------------|-------------------------|--------------|------------|-------------------------|--------------|----------|
| | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right |
| Existing Volumes | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2,440 | 0 | 0 | 2,198 | 0 |
| Background Traffic Growth | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 146 | 0 | 0 | 132 | 0 |
| Subtotal | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2,586 | 0 | 0 | 2,330 | 0 |
| Credit Union (Learning) Trips | 0 | 0 | 0 | 0 | 0 | 26 | 0 | 26 | 0 | 14 | 14 | 0 |
| Subtotal (NO BUILD - P.M.) | 0 | 0 | 0 | 0 | 0 | 26 | 0 | 2,612 | 0 | 14 | 2,344 | 0 |
| Percent Residential Trips Generated(Entering) | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 10.90% | 8.35% | 16.71% | 0.00% |
| Percent Residential Trips Generated(Exiting) | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 12.36% | 0.00% | 12.36% | 0.00% | 0.00% | 0.00% | 0.00% |
| Percent Commercial Trips Generated(Entering) | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 11.00% | 11.15% | 21.83% | 10.00% | 0.00% |
| Percent Commercial Trips Generated(Exiting) | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 13.91% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| Total Trips Generated | 0 | 0 | 0 | 0 | 0 | 103 | 0 | 85 | 95 | 160 | 98 | 0 |
| Subtotal PM Pk Hr. BUILD Volumes | 0 | 0 | 0 | 0 | 0 | 129 | 0 | 2,697 | 95 | 174 | 2,442 | 0 |
| Pass-by Trip Adjustments | 0 | 0 | 0 | 0 | 0 | 97 | 0 | -91 | 91 | 112 | -112 | 0 |
| Total PM Peak Hour BUILD Volumes | 0 | 0 | 0 | 0 | 0 | 226 | 0 | 2,606 | 186 | 286 | 2,330 | 0 |

Number of Residential Trips Generated

Entering Exiting

35 138 A.M.

135 73 P.M.

Number of Commercial Trips Generated

361 323 A.M.

660 652 P.M.

100% Commercial Development

| | Eastbound (Mirandela Rd) | | | Westbound (Mirandela Rd) | | | Northbound (Coors Blvd) | | | Southbound (Coors Blvd) | | |
|--------------------------|--------------------------|------|-------|--------------------------|------|-------|-------------------------|-------|-------|-------------------------|-------|-------|
| | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right |
| 2011 AM Peak Hr. Volumes | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2,022 | 0 | 0 | 1,864 | 0 |
| 2011 PM Peak Hr. Volumes | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2,469 | 0 | 0 | 2,224 | 0 |

Pass-by Trip Calculations:

AM Pass-by Trips

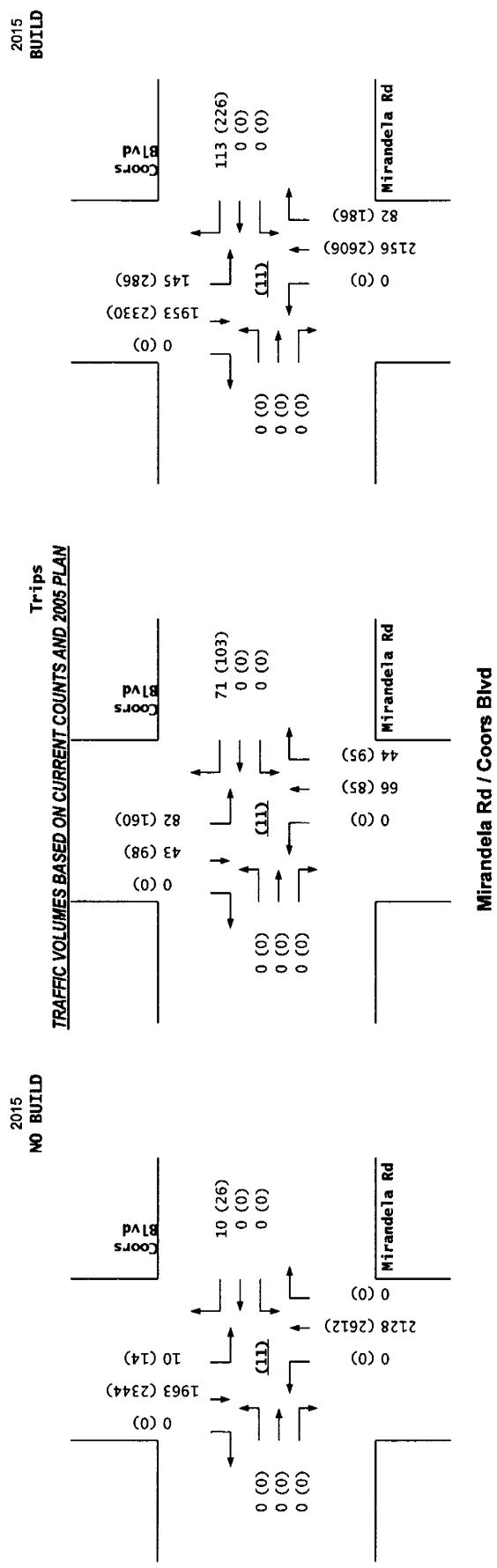
| | Eastbound (Mirandela Rd) | | | Westbound (Mirandela Rd) | | | Northbound (Coors Blvd) | | | Southbound (Coors Blvd) | | |
|-------|--------------------------|-----------------|-----------------|--------------------------|---------------------|--|-------------------------|-----------------|-----------------|-------------------------|---------------------|-------|
| | Percent Entering | Volume Entering | Percent Exiting | Volume Exiting | Net AM Passby Trips | | Percent Entering | Volume Entering | Percent Exiting | Volume Exiting | Net AM Passby Trips | |
| 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0 | | 0.00% | -19.00% | 19.00% | 27.00% | -27.00% | 0.00% |
| 0 | 0 | 0 | 0 | 0 | 0 | | 0 | -38 | 38 | 53 | -53 | 0 |

PM Pass-by Trips

| | Eastbound (Mirandela Rd) | | | Westbound (Mirandela Rd) | | | Northbound (Coors Blvd) | | | Southbound (Coors Blvd) | | |
|-------|--------------------------|-----------------|-----------------|--------------------------|---------------------|--|-------------------------|-----------------|-----------------|-------------------------|---------------------|-------|
| | Percent Entering | Volume Entering | Percent Exiting | Volume Exiting | Net PM Passby Trips | | Percent Entering | Volume Entering | Percent Exiting | Volume Exiting | Net PM Passby Trips | |
| 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0 | | 0.00% | -26.00% | 25.00% | 31.00% | -31.00% | 0.00% |
| 0 | 0 | 0 | 0 | 0 | 0 | | 0 | -91 | 91 | 112 | -112 | 0 |

Pass-by Trips

| Entering | Exiting | |
|----------|---------|------|
| 198 | 175 | A.M. |
| 362 | 348 | P.M. |

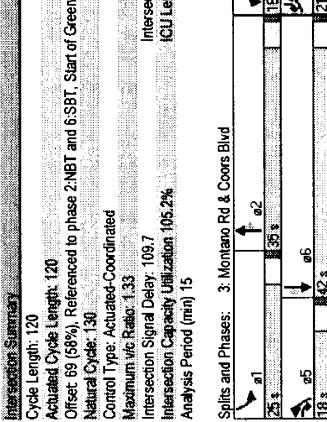


Timings
3: Montano Rd & Coors Blvd

HCM Signalized Intersection Capacity Analysis
3: Montano Rd & Coors Blvd

Terry O. Brown, P.E.
11/22/2011 - Syncros 7

| Lane Group | EBL | E BT | WB1 | WB2 | NBL | NBT | SB1 | SB2 |
|--|---|-------|-------|-------|-------|-------|-------|-------|
| Lane Configurations | ↑↑↑ | ↑↑↑ | ↑↑↑ | ↑↑↑ | ↑↑↑ | ↑↑↑ | ↑↑↑ | ↑↑↑ |
| Volume (vph) | 248 | 1242 | 388 | 229 | 392 | 1235 | 658 | 677 |
| Turn Type | Prot | Prot | Prot | Prot | Prot | Prot | Prot | Prot |
| Protected Phases | 7 | 4 | 5 | 3 | 6 | 3 | 1 | 6 |
| Permitted Phases | 7 | 4 | 5 | 3 | 8 | 5 | 2 | 3 |
| Switch Phase | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 |
| Minimum Initial (s) | 21.0 | 21.0 | 10.0 | 21.0 | 10.0 | 10.0 | 21.0 | 10.0 |
| Maximum Initial (s) | 21.0 | 42.0 | 18.0 | 39.0 | 18.0 | 35.0 | 42.0 | 21.0 |
| Total Split (%) | 17.5% | 35.0% | 15.0% | 32.5% | 15.0% | 29.2% | 15.0% | 20.8% |
| Yellow Time (s) | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 |
| All-Red Time (s) | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| Lost Time Adjust (s) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Lost Time (s) | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 |
| Lead-Lag Optimized? | Lead | Lead | Lead | Lead | Lead | Lead | Lead | Lead |
| Recall Mode | Min | Min | Min | Min | Min | Min | Min | Min |
| Act Efft Green (s) | 14.4 | 37.0 | 55.0 | 13.0 | 35.6 | 55.4 | 37.0 | 50.0 |
| Actuated g/C Ratio | 0.12 | 0.31 | 0.46 | 0.11 | 0.30 | 0.25 | 0.40 | 0.20 |
| V/C Ratio | 0.69 | 1.31 | 0.61 | 0.61 | 1.28 | 0.47 | 1.21 | 1.15 |
| Control Delay | 59.3 | 178.3 | 28.0 | 189.3 | 26.1 | 168.7 | 107.4 | 74.7 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 59.3 | 178.3 | 28.0 | 189.3 | 26.1 | 168.7 | 107.5 | 74.7 |
| LOS | E | F | C | F | C | F | B | A |
| Approach Delay | 132.4 | 104.7 | 104.7 | 92.7 | 101.1 | 101.1 | 101.1 | 101.1 |
| Approach LOS | F | F | F | F | F | F | F | F |
| Intersection Summary | Intersection LOS: F ICU Level of Service G | | | | | | | |
| Maximum v/C Ratio: 1.33 | | | | | | | | |
| Cycle Length: 120 | | | | | | | | |
| Actuated Cycle Length: 120 | | | | | | | | |
| Offset: 69 (58%) Referenced to phase 2:NBT and 6:SBT Start of Green Natural Cycle: 130 | | | | | | | | |
| Control Type: Actuated-Coordinated | | | | | | | | |
| Analysis Period (min): 15 | | | | | | | | |
| Splits and Phases: | 3: Montano Rd & Coors Blvd | | | | | | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| 25 s | 35 s | 35 s | 35 s | 21 s |



2015 AM Peak Build Conditions D:\ATOBEP\PROJECTS\Walmar_Montano_CoorsAndalucia_TIS_2004Syncro2015ABXAppPlan.srn
2005 Approved Plan D:\ATOBEP\PROJECTS\Walmar_Montano_CoorsAndalucia_TIS_2004Syncro2015ABXAppPlan.srn

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11/22/2011 - Syncros 7

| Lane Group | EBL | E BT | WB1 | WB2 | NBL | NBT | SB1 | SB2 |
|--|---|-------|-------|-------|-------|-------|-------|-------|
| Lane Configurations | ↑↑↑ | ↑↑↑ | ↑↑↑ | ↑↑↑ | ↑↑↑ | ↑↑↑ | ↑↑↑ | ↑↑↑ |
| Volume (vph) | 248 | 1242 | 388 | 229 | 392 | 1235 | 658 | 677 |
| Turn Type | Prot | Prot | Prot | Prot | Prot | Prot | Prot | Prot |
| Protected Phases | 7 | 4 | 5 | 3 | 6 | 3 | 1 | 6 |
| Permitted Phases | 7 | 4 | 5 | 3 | 8 | 5 | 2 | 3 |
| Switch Phase | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 |
| Minimum Initial (s) | 21.0 | 21.0 | 10.0 | 21.0 | 10.0 | 10.0 | 21.0 | 10.0 |
| Maximum Initial (s) | 21.0 | 42.0 | 18.0 | 39.0 | 18.0 | 35.0 | 42.0 | 21.0 |
| Total Split (%) | 17.5% | 35.0% | 15.0% | 32.5% | 15.0% | 29.2% | 15.0% | 20.8% |
| Yellow Time (s) | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 |
| All-Red Time (s) | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| Lost Time Adjust (s) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Lost Time (s) | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 |
| Lead-Lag Optimized? | Lead | Lead | Lead | Lead | Lead | Lead | Lead | Lead |
| Recall Mode | Min | Min | Min | Min | Min | Min | Min | Min |
| Act Efft Green (s) | 14.4 | 37.0 | 55.0 | 13.0 | 35.6 | 55.4 | 37.0 | 50.0 |
| Actuated g/C Ratio | 0.12 | 0.31 | 0.46 | 0.11 | 0.30 | 0.25 | 0.40 | 0.20 |
| V/C Ratio | 0.69 | 1.31 | 0.61 | 0.61 | 1.28 | 0.47 | 1.21 | 1.15 |
| Control Delay | 59.3 | 178.3 | 28.0 | 189.3 | 26.1 | 168.7 | 107.4 | 74.7 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 59.3 | 178.3 | 28.0 | 189.3 | 26.1 | 168.7 | 107.5 | 74.7 |
| LOS | E | F | C | F | C | F | B | A |
| Approach Delay | 132.4 | 104.7 | 104.7 | 92.7 | 101.1 | 101.1 | 101.1 | 101.1 |
| Approach LOS | F | F | F | F | F | F | F | F |
| Intersection Summary | Intersection LOS: F ICU Level of Service G | | | | | | | |
| Maximum v/C Ratio: 1.33 | | | | | | | | |
| Cycle Length: 120 | | | | | | | | |
| Actuated Cycle Length: 120 | | | | | | | | |
| Offset: 69 (58%) Referenced to phase 2:NBT and 6:SBT Start of Green Natural Cycle: 130 | | | | | | | | |
| Control Type: Actuated-Coordinated | | | | | | | | |
| Analysis Period (min): 15 | | | | | | | | |
| Splits and Phases: | 3: Montano Rd & Coors Blvd | | | | | | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| 25 s | 35 s | 35 s | 35 s | 21 s |

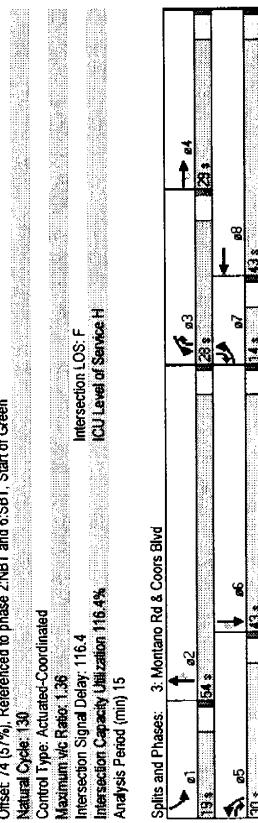
| | | | | | | | | |
|-----------------------------------|--------|-------|------|-------|-------|-------|-------|-------|
| Lane Configurations | ↑↑↑ | ↑↑↑ | ↑↑↑ | ↑↑↑ | ↑↑↑ | ↑↑↑ | ↑↑↑ | ↑↑↑ |
| Volume (vph) | 248 | 1242 | 388 | 229 | 392 | 1235 | 658 | 677 |
| Ideal Flow (vph) | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 |
| Total Lost Time (s) | 5.0 | 5.0 | 6.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 |
| Lane Util Factor | 0.97 | 0.95 | 1.00 | 0.97 | 0.95 | 0.95 | 0.95 | 0.91 |
| Fit Protected | 1.00 | 1.00 | 0.95 | 1.00 | 1.00 | 1.00 | 1.00 | 0.95 |
| Stadt. Flkwy (prot) | 0.95 | 1.00 | 1.00 | 0.95 | 1.00 | 1.00 | 1.00 | 1.00 |
| Satd. Flkwy (perm) | 0.95 | 1.00 | 1.00 | 0.95 | 1.00 | 1.00 | 1.00 | 1.00 |
| Peak-hour Factor, PHF | 0.88 | 0.88 | 0.88 | 0.88 | 0.88 | 0.88 | 0.88 | 0.88 |
| Adj. Flow (vph) | 282 | 1411 | 441 | 472 | 301 | 207 | 445 | 1447 |
| RTOR Reduction (vph) | 0 | 0 | 1 | 0 | 101 | 0 | 2 | 0 |
| Lane Group Flow (vph) | 282 | 1411 | 440 | 472 | 407 | 0 | 445 | 1447 |
| Turn Type | Prot | Prot | Prot | Prot | Prot | Prot | Prot | Prot |
| Protected Phases | 7 | 4 | 5 | 3 | 8 | 5 | 2 | 3 |
| Permitted Phases | 7 | 4 | 5 | 3 | 8 | 5 | 2 | 3 |
| Vehicle Extension (s) | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 |
| Lane Grp Cap (vph) | 408 | 1081 | 719 | 368 | 976 | 368 | 129 | 104 |
| Vs Ratio Prot | 0.08 | 0.08 | 0.07 | 0.14 | 0.12 | 0.13 | 0.07 | 0.07 |
| Vs Ratio Perm | 0.68 | 1.31 | 0.21 | 0.21 | 0.21 | 0.20 | 0.20 | 0.00 |
| Uniform Delay, d1 | 50.7 | 41.5 | 27.4 | 53.5 | 33.9 | 53.5 | 45.0 | 32.6 |
| Progression Factor | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Incremental Delay, d2 | 5.0 | 14.2 | 1.6 | 14.5 | 0.3 | 10.6 | 74.0 | 1.1 |
| Delay (s) | 55.7 | 185.7 | 28.0 | 200.0 | 34.2 | 183.8 | 109.2 | 19.4 |
| Level of Service | E | F | C | F | C | F | B | F |
| Approach Delay (s) | 138.1 | 114.0 | 96.3 | 113.7 | 113.7 | 113.7 | 113.7 | 113.7 |
| Approach LOS | F | F | F | F | F | F | F | F |
| Intersection Summary | F | | | | | | | |
| HCM Average Control Delay | 114.0 | | | | | | | |
| HCM Volume to Capacity ratio | 1.20 | | | | | | | |
| Actuated Cycle Length (s) | 120.0 | | | | | | | |
| Intersection Capacity Utilization | 105.2% | | | | | | | |
| Analysis Period (min) | 15 | | | | | | | |
| c: Critical Lane Group | | | | | | | | |

2015 AM Peak Build Conditions D:\ATOBEP\PROJECTS\Walmar_Montano_CoorsAndalucia_TIS_2004Syncro2015ABXAppPlan.srn
2005 Approved Plan D:\ATOBEP\PROJECTS\Walmar_Montano_CoorsAndalucia_TIS_2004Syncro2015ABXAppPlan.srn

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11/22/2011 - Syncro 7

| Lane Configurations | EBL | EBC | EBR | EBL | EBT | NEB | NBT | NBR | SBL | SBT | SBR |
|----------------------------------|-------|---------|-------|-------|-------|-------|---------|-------|-------|---------|-------|
| Lane Configuration (with Volume) | 776 | 409 | 507 | 475 | 1114 | 850 | 1833 | 249 | 386 | 1636 | 569 |
| Turn Type | Prot | prot-ov | Prot | Prot | Prot | Prot | prot-ov | Prot | Prot | prot-ov | Prot |
| Protected Phases | 7 | 4 | 5 | 3 | 8 | 5 | 2 | 3 | 1 | 6 | 7 |
| Permitted Phases | 7 | 4 | 5 | 3 | 8 | 5 | 2 | 3 | 1 | 6 | 6 |
| Detector Phase: | | | | | | | | | | | |
| Switch Phase | | | | | | | | | | | |
| Minimum Initial (\$) | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 |
| Minimum Split (\$) | 10.0 | 21.0 | 10.0 | 10.0 | 21.0 | 10.0 | 21.0 | 10.0 | 21.0 | 10.0 | 10.0 |
| Total Split (\$) | 14.0 | 28.0 | 30.0 | 28.0 | 43.0 | 30.0 | 54.0 | 28.0 | 49.0 | 43.0 | 14.0 |
| Total Split (%) | 10.8% | 22.3% | 23.1% | 21.5% | 33.1% | 23.1% | 41.5% | 21.5% | 14.6% | 33.1% | 10.8% |
| Turn Time (%) | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 |
| ALRFD Time (s) | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| Loss Time Adjust (s) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Lost Time (s) | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 |
| Lead/Lag | Lead | Lead | Lead | Lead | Lead | Lead | Lead | Lead | Lead | Lead | Lead |
| Lead-Lag Optimizer? | | | | | | | | | | | |
| Recall Node | Min | Min | Min | Min | Min | Min | Min | Min | Min | Min | Min |
| Act Effect Green (s) | 9.0 | 24.7 | 54.7 | 22.3 | 38.0 | 25.0 | 49.0 | 76.3 | 14.0 | 38.0 | 52.0 |
| Activated g/C Ratio | 0.07 | 0.19 | 0.42 | 0.17 | 0.29 | 0.19 | 0.38 | 0.58 | 0.11 | 0.29 | 0.40 |
| vic v/c Ratio | 1.30 | 0.67 | 0.84 | 0.88 | 1.36 | 1.35 | 1.01 | 1.16 | 1.08 | 1.21 | 0.12 |
| Control Delay | 208.1 | 54.9 | 48.5 | 51.3 | 199.4 | 204.0 | 47.9 | 76.8 | 125.8 | 140.2 | 24.3 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 208.1 | 54.9 | 48.5 | 51.3 | 199.4 | 204.0 | 47.9 | 76.8 | 125.8 | 140.2 | 24.3 |
| LOS | F | D | D | D | F | D | F | A | F | C | F |
| Approach Delay | | | | | | | | | | | |
| Approach LOS | F | | | | F | | | F | | | F |

Intersection Summary
Cycle Length: 130
Activated Cycle Length: 130



HCM Signalized Intersection Capacity Analysis
3: Montano Rd & Coors Blvd

| Parameter | EBL | EBT | EBR | INBL |
|-----------------------------------|--------|-------|------|-------|
| Lane Configurations | 111 | 111 | 111 | 111 |
| Volume (vph) | 279 | 498 | 507 | 475 |
| Ideal Flow (vph) | 1900 | 1900 | 1900 | 1900 |
| Total Lost Time (s) | 5.0 | 5.0 | 5.0 | 5.0 |
| Lane Util. Factor | 0.97 | 0.95 | 1.00 | 0.97 |
| Fit | 1.00 | 1.00 | 0.95 | 1.00 |
| Fit Protected | 0.95 | 1.00 | 1.00 | 0.95 |
| Statt. Flow (vph) | 3400 | 3595 | 1568 | 3400 |
| Flow Permitted | 0.95 | 1.00 | 0.95 | 1.00 |
| Sadd. Flow (vph) | 3400 | 3595 | 1568 | 3400 |
| Peak-hour factor, PHF | 0.91 | 0.91 | 0.91 | 0.93 |
| Actual Flow (vph) | 306 | 446 | 567 | 311 |
| R10% Reduction (vph) | 0 | 0 | 4 | 0 |
| Lane Group / Flow (vph) | 305 | 449 | 563 | 511 |
| Turn Type | Prot | pm+ov | Prot | pm+ov |
| Protected Phases | 7 | 4 | 5 | 3 |
| Permitted Phases | | 4 | | |
| Actuated Green, G (s) | 9.0 | 24.7 | 49.7 | 22.3 |
| Effective Green, g (s) | 9.0 | 24.7 | 49.7 | 22.3 |
| Actuated g/C Ratio | 0.97 | 0.19 | 0.38 | 0.17 |
| Clearance Time (s) | 5.0 | 5.0 | 5.0 | 5.0 |
| Lane Delay Extension (s) | 3.0 | 3.0 | 3.0 | 3.0 |
| Lane Gap Cap (vph) | 235 | 666 | 660 | 593 |
| Vs Ratio Prot | >0.08 | 0.13 | 0.16 | 0.15 |
| Vs Ratio Perm | | | 0.19 | |
| yc Ratio | | | 0.84 | 0.88 |
| Uniform Delay, d1 | 1.30 | 0.67 | 0.84 | 0.88 |
| Progression Factor | 1.00 | 1.00 | 1.00 | 0.78 |
| Incremental Delay, d2 | 161.7 | 27 | 91 | 8.2 |
| Delay (s) | 222.2 | 51.6 | 46.6 | 48.0 |
| Level of Service | F | D | D | D |
| Approach LOS | | 83.7 | | 1 |
| Approach LOS | | | | F |
| Intersection Summary | | | | |
| HCM Average Control Delay | 120.8 | | | |
| HCM Volume to Capacity ratio | 1.30 | | | |
| Actuated Cycle Length (s) | 130.0 | | | |
| Intersection Capacity Utilization | 116.1% | | | |
| Analysis Period (min) | 15 | | | |

 Critical Lane Group

卷之三

2005 Approved Plan
2015 DRAFT Plan B1 B2 Condition

2003 PM PRESENT BULLDOGS CROWNS

DRAFT EMISSIONS TRADING PROJECTS AND MONITORING, REPORTING AND VERIFICATION

2015 Approved Plan
DIA TO BE PROJECTS IN ANDALUCIA, Montano_CoorsAndalucia_TIS_2004Syncroto2015FBAppPlan sym

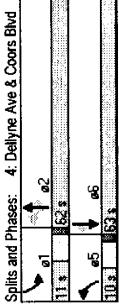
Timings
4: Dellyne Ave & Coors Blvd

HCM Signalized Intersection Capacity Analysis
4: Dellyne Ave & Coors Blvd

Terry O. Brown, P.E.
11/22/2011 - Synchro 7

| Phase Group | E BL | E NT | N BL | W BL | N BR | W BR | S BL | S BR |
|--|-------|-------|-------|-------|-------|-------|-------|-------|
| Lane Configurations | ↑ | ↑ | ↑ | ↑ | ↑↑↑ | ↑↑↑ | ↑↑↑ | ↑↑↑ |
| Volume (vph) | 282 | 39 | 206 | 49 | 110 | 62 | 139 | 95 |
| Turn Type | Prot | Prot | Prot | Prot | Perm | Perm | Perm | Perm |
| Protected Phases | 7 | 4 | 3 | 3 | 5 | 2 | 2 | 1 |
| Permitted Phases | 7 | 4 | 3 | 3 | 8 | 2 | 2 | 1 |
| Detector Phase | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 |
| Switch Phase | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 |
| Minimum Green (s) | 10.0 | 21.0 | 10.0 | 21.0 | 10.0 | 21.0 | 10.0 | 21.0 |
| Total Split (%) | 20.0% | 32.0% | 16.0% | 32.0% | 23.0% | 30.0% | 16.0% | 32.0% |
| Total Split (s) | 24.0 | 32.0 | 16.0 | 32.0 | 23.0 | 30.0 | 16.0 | 32.0 |
| Yellow Time (s) | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 |
| All-Red Time (s) | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| Lost Time Adjust (s) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Lost Time (s) | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 |
| Led-Lag (s) | Lead |
| Lead-Lag Optimize? | | | | | | | | |
| Recent Mode | Min | Min | Min | Min | Min | Min | C Max | C Max |
| Act Elct Green (s) | 17.3 | 27.0 | 10.0 | 19.7 | 62.0 | 57.0 | 58.0 | 58.0 |
| Actuated g/C Ratio | 0.14 | 0.22 | 0.08 | 0.16 | 0.52 | 0.48 | 0.48 | 0.48 |
| V/C Ratio | 0.77 | 1.06 | 0.97 | 0.21 | 0.45 | 0.55 | 0.66 | 0.04 |
| Control Delay | 60.2 | 89.1 | 101.8 | 46.7 | 26.3 | 30.2 | 32.9 | 6.0 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 60.2 | 89.1 | 101.8 | 46.7 | 26.3 | 30.2 | 32.9 | 6.0 |
| LOS | E | F | F | D | C | C | A | A |
| Approach Delay | 81.4 | 71.7 | 101.8 | 46.7 | 26.3 | 30.2 | 32.9 | 6.0 |
| Approach LOS | F | E | E | D | C | C | A | A |
| Intersection Summary | | | | | | | | |
| Cycle Length: 120 | | | | | | | | |
| Actuated Cycle Length: 120 | | | | | | | | |
| Offset: 0 (0%) | | | | | | | | |
| Referenced to phase 2: NBTI and SBTI, Start of Green | | | | | | | | |
| Natural Cycle: 130 | | | | | | | | |
| Control Type: Actuated-Coordinated | | | | | | | | |
| Maximum v/c Ratio: 1.06 | | | | | | | | |
| Intersection Signal Delay: 41.5 | | | | | | | | |
| Intersection LOS: D | | | | | | | | |
| ICU Level of Service: E | | | | | | | | |
| Analysis Period (min) | 15 | | | | | | | |
| Splits and Phases: 4: Dellyne Ave & Coors Blvd | | | | | | | | |

Intersection Summary
Cycle Length: 120
Actuated Cycle Length: 120
Offset: 0 (0%)
Referenced to phase 2: NBTI and SBTI, Start of Green
Natural Cycle: 130
Control Type: Actuated-Coordinated
Maximum v/c Ratio: 1.06
Intersection Signal Delay: 41.5
Intersection LOS: D
ICU Level of Service: E
Analysis Period (min) 15



2005 Approved Plan
D:\ATOBEP\PROJECTS\Walmar_Montano_CoorsAndAlancia_TIS_2004\Syncro\2015ABX\AppPlan.syn

2015 AM Peak Build Conditions
D:\ATOBEP\PROJECTS\Walmar_Montano_CoorsAndAlancia_TIS_2004\Syncro\2015ABX\AppPlan.syn

2005 Approved Plan
D:\ATOBEP\PROJECTS\Walmar_Montano_CoorsAndAlancia_TIS_2004\Syncro\2015ABX\AppPlan.syn

HCM Signalized Intersection Capacity Analysis
4: Dellyne Ave & Coors Blvd

Terry O. Brown, P.E.
11/22/2011 - Synchro 7

| Parameter | EBL | ENT | NBL | WBL | NBR | WBR | SBL | SBR |
|-----------------------------------|-------|-------|-------|------|------|------|------|------|
| Lane Configurations | ↑ | ↑ | ↑ | ↑ | ↑↑↑ | ↑↑↑ | ↑↑↑ | ↑↑↑ |
| Volume (vph) | 282 | 39 | 206 | 49 | 110 | 62 | 139 | 95 |
| Ideal Flow (vph) | Prot | Prot | Prot | Prot | Perm | Perm | Perm | Perm |
| Total Lost Time (s) | 7 | 4 | 3 | 3 | 5 | 2 | 2 | 1 |
| Lane Util Factor | 0.97 | 1.00 | 0.97 | 1.00 | 1.00 | 0.95 | 1.00 | 0.95 |
| Fit Protected | 1.00 | 0.87 | 1.00 | 1.00 | 0.95 | 1.00 | 0.95 | 1.00 |
| Statd. Flow (prot) | 3400 | 1600 | 3400 | 1600 | 3400 | 1600 | 3400 | 1600 |
| Fit Permitted | 0.95 | 1.00 | 0.95 | 1.00 | 0.95 | 1.00 | 0.95 | 1.00 |
| Statd. Flow (perm) | 3400 | 1600 | 3400 | 1600 | 3400 | 1600 | 3400 | 1600 |
| Peak-hour Factor, PHF | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 |
| Adj. Flow (vph) | 376 | 52 | 396 | 65 | 447 | 74 | 2058 | 166 |
| R/T/R Reactual (vph) | 0 | 60 | 0 | 0 | 0 | 69 | 0 | 0 |
| Lane Group Flow (vph) | 376 | 387 | 0 | 275 | 65 | 78 | 74 | 2068 |
| Turn Type | Prot | Prot | Prot | Prot | Prot | Prot | Prot | Prot |
| Protected Phases | 7 | 4 | 3 | 3 | 8 | 2 | 2 | 1 |
| Permitted Phases | 7 | 4 | 3 | 3 | 8 | 2 | 2 | 1 |
| Actuated Green, G (s) | 17.3 | 27.0 | 10.0 | 19.7 | 19.7 | 19.7 | 62.0 | 57.0 |
| Effective Green, g (s) | 17.3 | 27.0 | 10.0 | 19.7 | 19.7 | 19.7 | 62.0 | 57.0 |
| Actuated g/C Ratio | 0.14 | 0.22 | 0.08 | 0.16 | 0.42 | 0.32 | 0.48 | 0.48 |
| Clearance Time (s) | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 |
| Vehicle Extension (s) | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 |
| Lane Cap (vph) | 490 | 360 | 283 | 303 | 257 | 134 | 2392 | 745 |
| vs Rate Prot | 0.11 | 0.24 | 0.08 | 0.04 | 0.02 | 0.41 | 0.03 | 0.49 |
| vs Rate Perm | | | | | | | | |
| vc Ratio | 0.77 | 1.07 | 0.97 | 0.24 | 0.31 | 0.55 | 0.86 | 0.13 |
| Uniform Delay, d1 | 49.4 | 46.5 | 54.9 | 43.4 | 44.1 | 28.1 | 17.7 | 55.9 |
| Progression Factor | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Incremental Delay, d2 | 7.1 | 68.5 | 45.5 | 0.4 | 0.7 | 4.9 | 4.5 | 3.8 |
| Delay (s) | 56.5 | 115.0 | 100.3 | 43.8 | 44.8 | 31.7 | 32.5 | 14.3 |
| Level of Service | E | F | D | D | C | B | E | C |
| Approach Delay (s) | 88.3 | 76.0 | 31.5 | 31.5 | 31.5 | 31.5 | 31.5 | 31.5 |
| Approach LOS | F | E | C | C | C | C | C | C |
| Intersection Summary | | | | | | | | |
| HCM Average Control Delay | 42.4 | | | | | | | |
| HCM Volume to Capacity ratio | 0.96 | | | | | | | |
| Actuated Cycle Length (s) | 120.0 | | | | | | | |
| Intersection Capacity Utilization | 88.1% | | | | | | | |
| Analysis Period (min) | 15 | | | | | | | |
| c: Critical Lane Group | | | | | | | | |

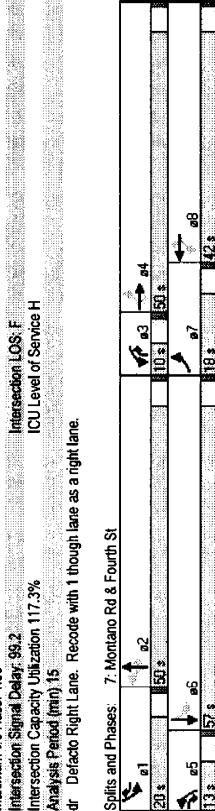
Intersection Summary
HCM Level of Service D
Sun of lost time (s) 15.0
ICU Level of Service E
Analysis Period (min) 15

Timings
7: Montano Rd & Fourth St

HCM Signalized Intersection Capacity Analysis
7: Montano Rd & Fourth St

Terry O. Brown, P.E.
11/22/2011 - Synchros 7

| Lane Group | ESL | EBT | EBR | WB | WB | WB | WB | NBL | NBL | SBL | SBL | SBL | SBL |
|----------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Lane Configurations | ↑↑ | ↑↑ | ↑↑ | ↑↑ | ↑↑ | ↑↑ | ↑↑ | ↑↑ | ↑↑ | ↑↑ | ↑↑ | ↑↑ | ↑↑ |
| Volume (vph) | 173 | 1331 | 681 | 127 | 388 | 68 | 282 | 424 | 188 | 204 | 516 | 11 | 11 |
| Turn Type | pm+pt | pm+ov | pm+pt | pm+ov |
| Protected Phases | 7 | 4 | 5 | 3 | 8 | 1 | 5 | 2 | 3 | 1 | 6 | | |
| Detector Phase | | | | | | | | | | | | | |
| Switch Phase | 7 | 4 | 5 | 3 | 8 | 1 | 5 | 2 | 3 | 1 | 6 | | |
| Minimum Initial (s) | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | | |
| Minimum Split (s) | 10.0 | 21.0 | 10.0 | 21.0 | 10.0 | 21.0 | 10.0 | 21.0 | 10.0 | 21.0 | 57.0 | | |
| Total Split (s) | 18.0 | 56.0 | 13.0 | 10.0 | 42.0 | 20.0 | 13.0 | 56.0 | 10.0 | 20.0 | 57.0 | | |
| Total Split (%) | 13.8% | 38.5% | 10.0% | 10.0% | 32.3% | 15.5% | 10.0% | 38.5% | 7.7% | 15.4% | 43.8% | | |
| Yellow Time (s) | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | | |
| Alt-Red Time (s) | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | | |
| Lost Time/Adjust (s) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | |
| Total Lost Time (s) | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | | |
| Lead/Lag | Lead |
| Lead/Lag Optimizer? | | | | | | | | | | | | | |
| Recall Mode | None |
| Act Etc Green (s) | 55.0 | 45.0 | 58.0 | 42.7 | 56.4 | 37.7 | 54.3 | 46.3 | 56.3 | 64.5 | 52.0 | | |
| Actuated g/C Ratio | 0.42 | 0.35 | 0.45 | 0.33 | 0.29 | 0.43 | 0.42 | 0.36 | 0.43 | 0.50 | 0.40 | | |
| vic Ratio | 0.55 | 1.24 | 0.82 | 1.30 | 0.48 | 0.12 | 1.10 | 0.41 | 0.32 | 0.53 | 1.48 | | |
| Control Delay | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | | |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | |
| Total Delay | 30.9 | 151.1 | 33.4 | 208.7 | 40.2 | 47.1 | 106.6 | 33.1 | 18.0 | 23.6 | 135.4 | | |
| LOS | C | F | C | F | D | A | F | C | B | C | F | | |
| Approach Delay | 108.7 | 72.8 | 55.0 | 122.5 | 65.6 | 72.8 | 65.6 | 72.8 | 65.6 | 72.8 | 65.6 | | |
| Approach LOS | F | E | D | F | E | D | F | E | D | F | F | | |



Intersection LOS Summary
Intersection LOS: F
ICU Level of Service H

Intersection Capacity Utilization 111.3%
Analysis Period (min) 15
dr Defacto Right Lane. Recode with 1 though lane as a right lane.

| Movement | EBL | EBT | EBR | WB | WB | WB | WB | NBL | NBL | NBL | NBL | NBL | NBL |
|---------------------------|-------|-------|------|-------|------|------|-------|------|------|------|-------|------|------|
| Lane Configurations | | | | | | | | | | | | | |
| Volume (vph) | 173 | 1331 | 681 | 127 | 388 | 68 | 282 | 424 | 188 | 204 | 516 | 11 | 11 |
| Ideal Flow (vph) | | | | | | | | | | | | | |
| Total Lost Time (s) | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 |
| Lane Util Factor | | | | | | | | | | | | | |
| Fit | | | | | | | | | | | | | |
| Fit (Projected) | | | | | | | | | | | | | |
| Stat. Flow (vph) | 0.90 | 1.00 | 0.85 | 1.00 | 0.95 | 1.00 | 0.85 | 1.00 | 1.00 | 0.85 | 1.00 | 0.95 | 1.00 |
| Fit (Permitted) | 0.95 | 1.00 | 0.95 | 1.00 | 0.95 | 1.00 | 0.95 | 1.00 | 1.00 | 0.95 | 1.00 | 0.95 | 1.00 |
| Stat. Flow (perm) | 0.90 | 1.00 | 0.85 | 1.00 | 0.95 | 1.00 | 0.85 | 1.00 | 1.00 | 0.85 | 1.00 | 0.95 | 1.00 |
| Peak-hour Factor (per hr) | 0.30 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 |
| Adj. Flow (vph) | 192 | 1501 | 646 | 161 | 491 | 137 | 352 | 511 | 227 | 224 | 567 | 1147 | |
| RTOR Reduction (vph) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Lane Group Flow (vph) | 192 | 1501 | 352 | 161 | 491 | 34 | 382 | 511 | 185 | 224 | 568 | 0 | |
| Turn Type | | | | | | | | | | | | | |
| pm+pt | 7 | 4 | 5 | 3 | 8 | 1 | 5 | 3 | 8 | 1 | 6 | | |
| Protected Phases | | | | | | | | | | | | | |
| Permitted Phases | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 2 | 6 |
| Actuated Green (s) | 55.0 | 45.0 | 53.0 | 42.7 | 51.4 | 37.7 | 54.3 | 46.3 | 51.3 | 56.0 | 52.0 | | |
| Effective Green (s) | 55.0 | 45.0 | 53.0 | 42.7 | 51.4 | 37.7 | 54.3 | 46.3 | 51.3 | 56.0 | 52.0 | | |
| Actuated g/C Ratio | 0.42 | 0.35 | 0.42 | 0.35 | 0.41 | 0.33 | 0.42 | 0.36 | 0.39 | 0.50 | 0.46 | | |
| Clearance Time (s) | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 |
| Vehicle Extension (s) | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 |
| Lane Cap (vph) | 348 | 1213 | 700 | 124 | 680 | 319 | 1248 | 679 | 425 | 1261 | | | |
| Rate Prot. | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | | |
| vis Radio Perm | 0.18 | 0.30 | 0.38 | 0.38 | 0.30 | 0.30 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | | |
| vic Ratio | 0.35 | 1.24 | 0.79 | 1.30 | 0.48 | 1.30 | 0.48 | 1.30 | 0.48 | 1.30 | 0.48 | | |
| Uniform Delay (s) | 25.5 | 42.5 | 33.6 | 42.2 | 38.1 | 24.2 | 32.8 | 31.5 | 26.7 | 19.8 | 39.0 | | |
| Progressive Factor | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | | |
| Incremental Delay, d2 | 1.9 | 114.1 | 5.9 | 181.1 | 0.4 | 0.0 | 61.1 | 1.0 | 0.2 | 1.2 | 165 | | |
| Delay (s) | 27.4 | 158.6 | 39.5 | 223.3 | 36.5 | 24.3 | 113.9 | 32.5 | 26.9 | 20.9 | 155.5 | | |
| Level of Service | C | F | D | F | D | C | F | C | C | C | F | | |
| Analysis Period (min) | 113.6 | 77.1 | 57.6 | 77.1 | 57.6 | 77.1 | 57.6 | 77.1 | 57.6 | 77.1 | 57.6 | | |
| Approach LOS | E | E | E | E | E | E | E | E | E | E | E | | |

| Intersection Summary | F |
|--|--------|
| HCM Average Control Delay | 107.6 |
| HCM Volume to Capacity Ratio | 1.23 |
| Actuated Cycle Length (s) | 130.0 |
| Intersection Capacity Utilization | 117.3% |
| Analysis Period (min) | 15 |
| Defacto Right Lane. Recode with 1 though lane as a right lane. | |
| c Critical Lane Group | |

| Splits and Phases: 7: Montano Rd & Fourth St | F |
|--|----|
| 1 | 1 |
| 2 | 2 |
| 3 | 3 |
| 4 | 4 |
| 5 | 5 |
| 6 | 6 |
| 7 | 7 |
| 8 | 8 |
| 9 | 9 |
| 10 | 10 |
| 11 | 11 |
| 12 | 12 |
| 13 | 13 |
| 14 | 14 |
| 15 | 15 |
| 16 | 16 |
| 17 | 17 |
| 18 | 18 |
| 19 | 19 |
| 20 | 20 |

| Intersection LOS: F | F |
|------------------------|------|
| ICU Level of Service H | |
| Sum of lost time (s) | 20.0 |
| ICU Level of Service | H |

| Approach LOS | F |
|--------------|----|
| 1 | 1 |
| 2 | 2 |
| 3 | 3 |
| 4 | 4 |
| 5 | 5 |
| 6 | 6 |
| 7 | 7 |
| 8 | 8 |
| 9 | 9 |
| 10 | 10 |
| 11 | 11 |
| 12 | 12 |
| 13 | 13 |
| 14 | 14 |
| 15 | 15 |
| 16 | 16 |
| 17 | 17 |
| 18 | 18 |
| 19 | 19 |
| 20 | 20 |

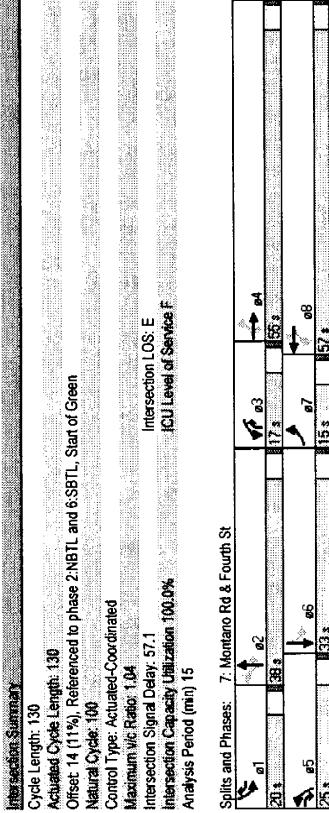
| 2015 AM Peak BUILD Conditions | F |
|--|---|
| D:\ATOBEP\PROJECTS\Walmar_Montano_CoorsAndalucia_TIS_2004\Synchro\2015ABX\ppPlan.syn | |
| D:\ATOBEP\PROJECTS\Walmar_Montano_CoorsAndalucia_TIS_2004\Synchro\2015ABX\ppPlan.syn | |
| 2005 Approved Plan | |
| 2005 Approved Plan | |

Timings
7: Montano Rd & Fourth St

HCM Signalized Intersection Capacity Analysis
7: Montano Rd & Fourth St

Terry O. Brown, P.E.
11/22/2011 - Synchro 7

| Lane Group | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Lane Configurations | ↑ | ↑ | ↑ | ↑ | ↑ | ↑ | ↑ | ↑ | ↑ | ↑ | ↑ | ↑ |
| Volume (vph) | 180 | 844 | 389 | 160 | 1925 | 202 | 588 | 565 | 166 | 176 | 520 | 114 |
| Turn Type | pm+pt | pm+ov | pm+pt | pm+ov | pm+pt | pm+ov |
| Protected Phases | 7 | 4 | 5 | 3 | 8 | 1 | 5 | 2 | 3 | 1 | 6 | 6 |
| Permitted Phases | 4 | 4 | 8 | 8 | 2 | 2 | 2 | 2 | 2 | 6 | 6 | 6 |
| Detector Phase | 7 | 4 | 5 | 3 | 8 | 1 | 5 | 2 | 3 | 1 | 6 | 6 |
| Switch Phase | | | | | | | | | | | | |
| Minimum Initial (s) | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 |
| Minimum Split (s) | 10.0 | 21.0 | 10.0 | 21.0 | 10.0 | 20.0 | 10.0 | 10.0 | 21.0 | 10.0 | 21.0 | 10.0 |
| Total Split (%) | 11.5% | 42.3% | 11.5% | 55.0 | 25.0 | 17.0 | 57.0 | 20.0 | 38.0 | 17.0 | 20.0 | 33.0 |
| Total Split (s) | 15.0 | 55.0 | 25.0 | 17.0 | 57.0 | 20.0 | 38.0 | 17.0 | 20.0 | 33.0 | 15.0 | 55.0 |
| Total Split (%) | 19.2% | 43.1% | 13.1% | 43.6% | 15.4% | 19.2% | 23.2% | 13.1% | 15.4% | 25.4% | 19.2% | 43.1% |
| Yellow Time (s) | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 |
| All-Red Time (s) | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| Lost Time/Aquat (s) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Lost Time (s) | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 |
| Lead/Lag | Lead | Lead | Lead | Lead | Lead | Lead | Lead | Lead | Lead | Lead | Lead | Lead |
| Lead/Lag Optimize? | None | None | None | None | None | None | C-Max | None | C-Max | None | C-Max | None |
| Recall Mode | | | | | | | | | | | | |
| Act. Etch Green (s) | 60.9 | 50.9 | 75.9 | 63.1 | 52.0 | 70.6 | 53.0 | 34.4 | 50.5 | 41.6 | 52.0 | 41.6 |
| Actuated V/C Ratio | 0.47 | 0.39 | 0.58 | 0.49 | 0.40 | 0.54 | 0.41 | 0.26 | 0.39 | 0.34 | 0.39 | 0.34 |
| V/C Ratio | 0.98 | 0.49 | 0.44 | 0.50 | 1.04 | 0.25 | 1.03 | 0.58 | 0.27 | 0.67 | 1.02 | 0.50 |
| Control Delay | 82.7 | 32.7 | 22.3 | 22.3 | 72.9 | 12.0 | 80.1 | 47.7 | 8.6 | 36.9 | 86.7 | 30.0 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 82.7 | 32.7 | 22.3 | 22.3 | 72.9 | 12.0 | 80.1 | 47.7 | 8.6 | 36.9 | 86.7 | 30.0 |
| LOS | F | C | C | C | E | B | F | D | A | D | F | F |
| Approach Delay | 36.7 | 32.7 | 22.3 | 22.3 | 72.9 | 12.0 | 80.1 | 47.7 | 8.6 | 36.9 | 86.7 | 30.0 |
| Approach LOS | D | E | E | E | F | C | F | D | A | D | F | F |
| Intersection Summary | | | | | | | | | | | | |
| Cycle Length (s) | 130 | | | | | | | | | | | |
| Actuated Cycle Length (s) | 130 | | | | | | | | | | | |
| Offset (14 (1%)) | Referenced to phase 2:NBL and 6:SBL, Start of Green | | | | | | | | | | | |
| Analysis Period (min) | 15 | | | | | | | | | | | |
| Control Type: Actuated-Coordinated | | | | | | | | | | | | |
| Maximum v/c Ratio: 1.04 | | | | | | | | | | | | |
| Intersection LOS: E | | | | | | | | | | | | |
| I/CU Level of Service F | | | | | | | | | | | | |
| Analysis Period (min) | 15 | | | | | | | | | | | |
| Splits and Phases: | 7: Montano Rd & Fourth St | | | | | | | | | | | |
| 2015 PM Peak Build Conditions | | | | | | | | | | | | |
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| Intersection Summary | HCM Average Control Delay | 59.7 | HCM Level of Service | E |
|----------------------|-----------------------------------|--------|----------------------|---|
| | HCM Volume to Capacity ratio | 0.97 | | |
| | Actuated Cycle Length (s) | 130 | | |
| | Intersection Capacity Utilization | 100.0% | | |
| | Analysis Period (min) | 15 | | |
| Critical Lane Group | | | | |

| Intersection Summary | Sum of lost time (s) | 10.0 | ICU Level of Service | F |
|----------------------|----------------------|------|----------------------|---|
| | | | | |
| | | | | |
| | | | | |
| | | | | |

2015 Approved Plan
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2015 PM Peak Build Conditions
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HCM Unsignalized Intersection Capacity Analysis
8: Montano Rd & Winterhaven Rd

Terry O. Brown, P.E.
11/22/2011 - Synchros 7



| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Lane Configurations | ↑ | ↑↑ | ↑ | ↑ | ↑↑ | ↑↓ | | | ↑ | | | ↑ |
| Volume (veh/h) | 32 | 2158 | 41 | 103 | 530 | 53 | 0 | 0 | 198 | 0 | 0 | 34 |
| Sign Control | Free | | | | Free | | | Stop | | Stop | | Stop |
| Grade | 0% | | | | 0% | | | 0% | | 0% | | 0% |
| Peak Hour Factor | 0.85 | 0.85 | 0.85 | 0.83 | 0.83 | 0.83 | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 |
| Hourly flow rate (vph) | 38 | 2539 | 48 | 124 | 639 | 64 | 0 | 0 | 233 | 0 | 0 | 40 |
| Pedestrians | | | | | | | | | | | | |
| Lane Width (ft) | | | | | | | | | | | | |
| Walking Speed (ft/s) | | | | | | | | | | | | |
| Percent Blockage | | | | | | | | | | | | |
| Right turn flare (veh) | | | | | | | | | | | | |
| Median type | None | | | | None | | | | | | | |
| Median storage veh | | | | | | | | | | | | |
| Upstream signal (ft) | | 801 | | | | | | | | | | |
| pX, platoon unblocked | | | | 0.71 | | | 0.71 | 0.71 | 0.71 | 0.71 | 0.71 | 0.71 |
| vC, conflicting volume | 702 | | | 2587 | | | 3222 | 3565 | 1269 | 2496 | 3581 | 351 |
| vC1, stage 1 conf vol | | | | | | | | | | | | |
| vC2, stage 2 conf vol | | | | | | | | | | | | |
| vCu, unblocked vol | 702 | | | 2416 | | | 3313 | 3798 | 554 | 2288 | 3821 | 351 |
| tC, single (s) | 4.2 | | | 4.2 | | | 7.6 | 6.6 | 7.0 | 7.6 | 6.6 | 7.0 |
| tC, 2 stage (s) | | | | | | | | | | | | |
| tF (s) | 2.2 | | | 2.2 | | | 3.5 | 4.0 | 3.3 | 3.5 | 4.0 | 3.3 |
| p0 queue free % | 96 | | | 8 | | | 100 | 100 | 30 | 100 | 100 | 94 |
| cM capacity (veh/h) | 884 | | | 135 | | | 0 | 0 | 335 | 1 | 0 | 642 |

| Direction, Lane # | EB 1 | EB 2 | EB 3 | EB 4 | WB 1 | WB 2 | WB 3 | NB 1 | SB 1 | | | |
|------------------------|------|------|------|------|-------|------|------|------|------|--|--|--|
| Volume Total | 38 | 1269 | 1269 | 48 | 124 | 426 | 277 | 233 | 40 | | | |
| Volume Left | 38 | 0 | 0 | 0 | 124 | 0 | 0 | 0 | 0 | | | |
| Volume Right | 0 | 0 | 0 | 48 | 0 | 0 | 64 | 233 | 40 | | | |
| cSH | 884 | 1700 | 1700 | 1700 | 135 | 1700 | 1700 | 335 | 642 | | | |
| Volume to Capacity | 0.04 | 0.75 | 0.75 | 0.03 | 0.92 | 0.25 | 0.16 | 0.70 | 0.06 | | | |
| Queue Length 95th (ft) | 3 | 0 | 0 | 0 | 154 | 0 | 0 | 123 | 5 | | | |
| Control Delay (s) | 9.3 | 0.0 | 0.0 | 0.0 | 120.1 | 0.0 | 0.0 | 37.0 | 11.0 | | | |
| Lane LOS | A | | | | F | | | E | B | | | |
| Approach Delay (s) | 0.1 | | | | 18.0 | | | 37.0 | 11.0 | | | |
| Approach LOS | | | | | | | | E | B | | | |

| Intersection Summary | | |
|-----------------------------------|-------|----------------------|
| Average Delay | 6.5 | |
| Intersection Capacity Utilization | 78.6% | ICU Level of Service |
| Analysis Period (min) | 15 | D |

HCM Unsignalized Intersection Capacity Analysis
8: Montano Rd & Winterhaven Rd

Terry O. Brown, P.E.
11/22/2011 - Synchro 7



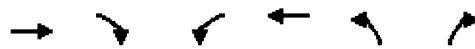
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Lane Configurations | ↑ | ↑↑ | ↑ | ↑ | ↑↑ | 342 | 0 | 0 | 200 | 0 | 0 | 80 |
| Volume (veh/h) | 67 | 838 | 34 | 312 | 1420 | 342 | 0 | 0 | 200 | 0 | 0 | 80 |
| Sign Control | Free | | Free | | Free | | Stop | | Stop | | Stop | |
| Grade | 0% | | 0% | | 0% | | 0% | | 0% | | 0% | |
| Peak Hour Factor | 0.97 | 0.97 | 0.97 | 0.95 | 0.95 | 0.95 | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 |
| Hourly flow rate (vph) | 69 | 864 | 35 | 328 | 1495 | 360 | 0 | 0 | 235 | 0 | 0 | 94 |
| Pedestrians | | | | | | | | | | | | |
| Lane Width (ft) | | | | | | | | | | | | |
| Walking Speed (ft/s) | | | | | | | | | | | | |
| Percent Blockage | | | | | | | | | | | | |
| Right turn flare (veh) | | | | | | | | | | | | |
| Median type | None | | None | | | | | | | | | |
| Median storage veh | | | | | | | | | | | | |
| Upstream signal (ft) | | 801 | | | | | | | | | | |
| pX, platoon unblocked | | | | 0.97 | | | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 |
| vC, conflicting volume | 1855 | | | 899 | | | 2500 | 3514 | 432 | 3137 | 3369 | 927 |
| vC1, stage 1 conf vol | | | | | | | | | | | | |
| vC2, stage 2 conf vol | | | | | | | | | | | | |
| vCu, unblocked vol | 1855 | | | 823 | | | 2482 | 3532 | 339 | 3142 | 3382 | 927 |
| tC, single (s) | 4.2 | | | 4.2 | | | 7.6 | 6.6 | 7.0 | 7.6 | 6.6 | 7.0 |
| tC, 2 stage (s) | | | | | | | | | | | | |
| tF (s) | 2.2 | | | 2.2 | | | 3.5 | 4.0 | 3.3 | 3.5 | 4.0 | 3.3 |
| p0 queue free % | 78 | | | 57 | | | 100 | 100 | 63 | 100 | 100 | 65 |
| cM capacity (veh/h) | 318 | | | 768 | | | 5 | 2 | 631 | 2 | 3 | 268 |
| Direction, Lane # | EB 1 | EB 2 | EB 3 | EB 4 | WB 1 | WB 2 | WB 3 | NB 1 | SB 1 | | | |
| Volume Total | 69 | 432 | 432 | 35 | 328 | 996 | 858 | 235 | 94 | | | |
| Volume Left | 69 | 0 | 0 | 0 | 328 | 0 | 0 | 0 | 0 | | | |
| Volume Right | 0 | 0 | 0 | 35 | 0 | 0 | 360 | 235 | 94 | | | |
| cSH | 318 | 1700 | 1700 | 1700 | 768 | 1700 | 1700 | 631 | 268 | | | |
| Volume to Capacity | 0.22 | 0.25 | 0.25 | 0.02 | 0.43 | 0.59 | 0.50 | 0.37 | 0.35 | | | |
| Queue Length 95th (ft) | 20 | 0 | 0 | 0 | 54 | 0 | 0 | 43 | 38 | | | |
| Control Delay (s) | 19.4 | 0.0 | 0.0 | 0.0 | 13.1 | 0.0 | 0.0 | 14.1 | 25.5 | | | |
| Lane LOS | C | | | B | | | B | D | | | | |
| Approach Delay (s) | 1.4 | | | 2.0 | | | 14.1 | 25.5 | | | | |
| Approach LOS | | | | | | | B | D | | | | |

Intersection Summary

| | |
|-----------------------------------|-------|
| Average Delay | 3.3 |
| Intersection Capacity Utilization | 61.8% |
| Analysis Period (min) | 15 |

HCM Unsignalized Intersection Capacity Analysis
9: Montano Rd & Antequera Ave

Terry O. Brown, P.E.
11/22/2011 - Synchros 7



| Movement | EBT | EBR | WBL | WBT | NBL | NBR |
|-----------------------------------|------|-------|------|----------------------|------|------|
| Lane Configurations | ↑↑ | ↑ | 0 | ↑↑ | 0 | ↑ |
| Volume (veh/h) | 2433 | 134 | 0 | 744 | 0 | 77 |
| Sign Control | Free | | | Free | Stop | |
| Grade | 0% | | | 0% | 0% | |
| Peak Hour Factor | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 |
| Hourly flow rate (vph) | 2862 | 158 | 0 | 875 | 0 | 91 |
| Pedestrians | | | | | | |
| Lane Width (ft) | | | | | | |
| Walking Speed (ft/s) | | | | | | |
| Percent Blockage | | | | | | |
| Right turn flare (veh) | | | | | | |
| Median type | None | | | None | | |
| Median storage veh | | | | | | |
| Upstream signal (ft) | 385 | | | 0.70 | 0.70 | 0.70 |
| pX, platoon unblocked | | | 0.70 | | 0.70 | |
| vC, conflicting volume | | 3020 | | 3300 | 1431 | |
| vC1, stage 1 conf vol | | | | | | |
| vC2, stage 2 conf vol | | | | | | |
| vCu, unblocked vol | | 3029 | | 3429 | 758 | |
| tC, single (s) | | 4.2 | | 6.9 | 7.0 | |
| tC, 2 stage (s) | | | 2.2 | | 3.5 | 3.3 |
| tF (s) | | 100 | | 100 | 63 | |
| p0 queue free % | | 76 | | 4 | 243 | |
| Direction\ Lane # | EB 1 | EB 2 | EB 3 | WB 1 | WB 2 | NB 1 |
| Volume Total | 1431 | 1431 | 158 | 438 | 438 | 91 |
| Volume Left | 0 | 0 | 0 | 0 | 0 | 0 |
| Volume Right | 0 | 0 | 158 | 0 | 0 | 91 |
| cSH | 1700 | 1700 | 1700 | 1700 | 1700 | 243 |
| Volume to Capacity | 0.84 | 0.84 | 0.09 | 0.26 | 0.26 | 0.37 |
| Queue Length 95th (ft) | 0 | 0 | 0 | 0 | 0 | 41 |
| Control Delay (s) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 28.4 |
| Lane LOS | | | | | D | |
| Approach Delay (s) | 0.0 | | | 0.0 | | 28.4 |
| Approach LOS | | | | | D | |
| Intersection Summary | | | | | | |
| Average Delay | | 0.6 | | | | |
| Intersection Capacity Utilization | | 78.7% | | ICU Level of Service | | D |
| Analysis Period (min) | | 15 | | | | |

HCM Unsignalized Intersection Capacity Analysis
9: Montano Rd & Antequera Ave

Terry O. Brown, P.E.
11/22/2011 - Synchro 7



| Movement | EBT | EBR | WBL | WBT | NBL | NBR |
|------------------------|------|------|------|------|------|------|
| Lane Configurations | ↑↑ | ↑ | | ↑↑ | | ↑ |
| Volume (veh/h) | 844 | 163 | 0 | 1751 | 0 | 101 |
| Sign Control | Free | | | Free | Stop | |
| Grade | 0% | | | 0% | 0% | |
| Peak Hour Factor | 0.95 | 0.95 | 0.95 | 0.95 | 0.85 | 0.85 |
| Hourly flow rate (vph) | 888 | 172 | 0 | 1843 | 0 | 119 |
| Pedestrians | | | | | | |
| Lane Width (ft) | | | | | | |
| Walking Speed (ft/s) | | | | | | |
| Percent Blockage | | | | | | |
| Right turn flare (veh) | | | | | | |
| Median type | None | | | None | | |
| Median storage veh | | | | | | |
| Upstream signal (ft) | 385 | | | | | |
| pX, platoon unblocked | | 0.90 | | 0.90 | 0.90 | |
| vC, conflicting volume | | 1060 | | 1810 | 444 | |
| vC1, stage 1 conf vol | | | | | | |
| vC2, stage 2 conf vol | | | | | | |
| vCu, unblocked vol | | 852 | | 1683 | 170 | |
| tC, single (s) | | 4.2 | | 6.9 | 7.0 | |
| tC, 2 stage (s) | | | | | | |
| tF (s) | | 2.2 | | 3.5 | 3.3 | |
| p0 queue free % | | 100 | | 100 | 84 | |
| cM capacity (veh/h) | | 701 | | 76 | 759 | |
| Direction, Lane # | EB 1 | EB 2 | EB 3 | WB 1 | WB 2 | NB 1 |
| Volume Total | 444 | 444 | 172 | 922 | 922 | 119 |
| Volume Left | 0 | 0 | 0 | 0 | 0 | 0 |
| Volume Right | 0 | 0 | 172 | 0 | 0 | 119 |
| cSH | 1700 | 1700 | 1700 | 1700 | 1700 | 759 |
| Volume to Capacity | 0.26 | 0.26 | 0.10 | 0.54 | 0.54 | 0.16 |
| Queue Length 95th (ft) | 0 | 0 | 0 | 0 | 0 | 14 |
| Control Delay (s) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 10.6 |
| Lane LOS | | | | | | B |
| Approach Delay (s) | 0.0 | | | 0.0 | | 10.6 |
| Approach LOS | | | | | | B |

Intersection Summary

| | | | |
|-----------------------------------|-------|----------------------|---|
| Average Delay | 0.4 | | |
| Intersection Capacity Utilization | 51.7% | ICU Level of Service | A |
| Analysis Period (min) | 15 | | |

HCM Unsignalized Intersection Capacity Analysis
10: E-W St & Coors Blvd

Terry O. Brown, P.E.
11/22/2011 - Synchros 7



| Movement | WBL | WBR | NBT | NBR | SBL | SBT | | |
|-----------------------------------|------|--------|-------|------|------|----------------------|------|------|
| Lane Configurations | | ↑↑↑↑↑↑ | | | | ↑↑↑↑↑↑ | | |
| Volume (veh/h) | 0 | 125 | 2228 | 78 | 0 | 2173 | | |
| Sign Control | Stop | | Free | | | Free | | |
| Grade | 0% | | 0% | | | 0% | | |
| Peak Hour Factor | 0.85 | 0.85 | 0.90 | 0.90 | 0.90 | 0.90 | | |
| Hourly flow rate (vph) | 0 | 147 | 2476 | 87 | 0 | 2414 | | |
| Pedestrians | | | | | | | | |
| Lane Width (ft) | | | | | | | | |
| Walking Speed (ft/s) | | | | | | | | |
| Percent Blockage | | | | | | | | |
| Right turn flare (veh) | | | | | | | | |
| Median type | | | None | | | None | | |
| Median storage veh | | | | | | | | |
| Upstream signal (ft) | | | | | 707 | | | |
| pX, platoon unblocked | 0.71 | | | | | | | |
| vC, conflicting volume | 3324 | 662 | | | 2562 | | | |
| vC1, stage 1 conf vol | | | | | | | | |
| vC2, stage 2 conf vol | | | | | | | | |
| vCu, unblocked vol | 2849 | 662 | | | 2562 | | | |
| tC, single (s) | 6.9 | 7.0 | | | 4.2 | | | |
| tC, 2 stage (s) | | | | | | | | |
| tF (s) | 3.5 | 3.3 | | | 2.2 | | | |
| p0 queue free % | 100 | 63 | | | 100 | | | |
| cM capacity (veh/h) | 9 | 402 | | | 167 | | | |
| Direction, Lane # | WB 1 | NB 1 | NB 2 | NB 3 | NB 4 | SB 1 | SB 2 | SB 3 |
| Volume Total | 147 | 707 | 707 | 707 | 440 | 805 | 805 | 805 |
| Volume Left | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Volume Right | 147 | 0 | 0 | 0 | 87 | 0 | 0 | 0 |
| cSH | 402 | 1700 | 1700 | 1700 | 1700 | 1700 | 1700 | 1700 |
| Volume to Capacity | 0.37 | 0.42 | 0.42 | 0.42 | 0.26 | 0.47 | 0.47 | 0.47 |
| Queue Length 95th (ft) | 41 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Control Delay (s) | 19.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Lane LOS | C | | | | | | | |
| Approach Delay (s) | 19.0 | 0.0 | | | | 0.0 | | |
| Approach LOS | C | | | | | | | |
| Intersection Summary | | | | | | | | |
| Average Delay | | | 0.5 | | | | | |
| Intersection Capacity Utilization | | | 48.0% | | | ICU Level of Service | | A |
| Analysis Period (min) | | | 15 | | | | | |

HCM Unsignalized Intersection Capacity Analysis
10: E-W St & Coors Blvd

Terry O. Brown, P.E.
11/22/2011 - Synchro 7



| Movement | WBL | WBR | NBT | NBR | SBL | SBT | | |
|------------------------|------|------|------|------|------|------|------|------|
| Lane Configurations | | ↑↑↑→ | | | ↑↑↑ | | | |
| Volume (veh/h) | 0 | 282 | 2758 | 164 | 0 | 2618 | | |
| Sign Control | Stop | | Free | | Free | | | |
| Grade | 0% | | 0% | | 0% | | | |
| Peak Hour Factor | 0.85 | 0.85 | 0.96 | 0.96 | 0.96 | 0.96 | | |
| Hourly flow rate (vph) | 0 | 332 | 2873 | 171 | 0 | 2727 | | |
| Pedestrians | | | | | | | | |
| Lane Width (ft) | | | | | | | | |
| Walking Speed (ft/s) | | | | | | | | |
| Percent Blockage | | | | | | | | |
| Right turn flare (veh) | | | | | | | | |
| Median type | | None | | None | | | | |
| Median storage veh | | | | | | | | |
| Upstream signal (ft) | | | | 707 | | | | |
| pX, platoon unblocked | 0.73 | | | | | | | |
| vC, conflicting volume | 3867 | 804 | | 3044 | | | | |
| vC1, stage 1 conf vol | | | | | | | | |
| vC2, stage 2 conf vol | | | | | | | | |
| vCu, unblocked vol | 3628 | 804 | | 3044 | | | | |
| tC, single (s) | 6.9 | 7.0 | | 4.2 | | | | |
| tC, 2 stage (s) | | | | | | | | |
| tF (s) | 3.5 | 3.3 | | 2.2 | | | | |
| p0 queue free % | 100 | 0 | | 100 | | | | |
| cM capacity (veh/h) | 3 | 324 | | 107 | | | | |
| Direction Lane # | WB 1 | NB 1 | NB 2 | NB 3 | NB 4 | SB 1 | SB 2 | SB 3 |
| Volume Total | 332 | 821 | 821 | 821 | 581 | 909 | 909 | 909 |
| Volume Left | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Volume Right | 332 | 0 | 0 | 0 | 171 | 0 | 0 | 0 |
| cSH | 324 | 1700 | 1700 | 1700 | 1700 | 1700 | 1700 | 1700 |
| Volume to Capacity | 1.02 | 0.48 | 0.48 | 0.48 | 0.34 | 0.53 | 0.53 | 0.53 |
| Queue Length 95th (ft) | 291 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Control Delay (s) | 93.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Lane LOS | F | | | | | | | |
| Approach Delay (s) | 93.3 | 0.0 | | | 0.0 | | | |
| Approach LOS | F | | | | | | | |

Intersection Summary

| | | | |
|-----------------------------------|-------|----------------------|---|
| Average Delay | 5.1 | | |
| Intersection Capacity Utilization | 66.8% | ICU Level of Service | C |
| Analysis Period (min) | 15 | | |

HCM Unsignalized Intersection Capacity Analysis
11: Mirandela Ave & Coors Blvd

Terry O. Brown, P.E.
11/22/2011 - Synchros 7



| Movement | WBL | WBR | NBT | NBR | SBL | SBT | | | |
|------------------------|------|------|------|------|------|------|------|------|------|
| Lane Configurations | | | | | | | | | |
| Volume (veh/h) | 0 | 113 | 2156 | 82 | 220 | 1953 | | | |
| Sign Control | Stop | | Free | | Free | | | | |
| Grade | 0% | | 0% | | 0% | | | | |
| Peak Hour Factor | 0.85 | 0.85 | 0.90 | 0.90 | 0.90 | 0.90 | | | |
| Hourly flow rate (vph) | 0 | 133 | 2396 | 91 | 244 | 2170 | | | |
| Pedestrians | | | | | | | | | |
| Lane Width (ft) | | | | | | | | | |
| Walking Speed (ft/s) | | | | | | | | | |
| Percent Blockage | | | | | | | | | |
| Right turn flare (veh) | | | | | | | | | |
| Median type | | | None | | None | | | | |
| Median storage veh | | | | | | | | | |
| Upstream signal (ft) | | | 1190 | | | | | | |
| pX, platoon unblocked | 0.75 | 0.75 | | 0.75 | | | | | |
| vC, conflicting volume | 3653 | 644 | | 2487 | | | | | |
| vC1, stage 1 conf vol | | | | | | | | | |
| vC2, stage 2 conf vol | | | | | | | | | |
| vCu, unblocked vol | 2859 | 0 | | 1298 | | | | | |
| tC, single (s) | 6.9 | 7.0 | | 4.2 | | | | | |
| tC, 2 stage (s) | | | | | | | | | |
| tF (s) | 3.5 | 3.3 | | 2.2 | | | | | |
| p0 queue free % | 100 | 84 | | 38 | | | | | |
| cM capacity (veh/h) | 4 | 808 | | 392 | | | | | |
| Direction, Lane # | WB 1 | NB 1 | NB 2 | NB 3 | NB 4 | SB 1 | SB 2 | SB 3 | SB 4 |
| Volume Total | 133 | 684 | 684 | 684 | 433 | 244 | 723 | 723 | 723 |
| Volume Left | 0 | 0 | 0 | 0 | 0 | 244 | 0 | 0 | 0 |
| Volume Right | 133 | 0 | 0 | 0 | 91 | 0 | 0 | 0 | 0 |
| cSH | 808 | 1700 | 1700 | 1700 | 1700 | 392 | 1700 | 1700 | 1700 |
| Volume to Capacity | 0.16 | 0.40 | 0.40 | 0.40 | 0.25 | 0.62 | 0.43 | 0.43 | 0.43 |
| Queue Length 95th (ft) | 15 | 0 | 0 | 0 | 0 | 102 | 0 | 0 | 0 |
| Control Delay (s) | 10.3 | 0.0 | 0.0 | 0.0 | 0.0 | 28.3 | 0.0 | 0.0 | 0.0 |
| Lane LOS | B | | | | | D | | | |
| Approach Delay (s) | 10.3 | 0.0 | | | | 2.9 | | | |
| Approach LOS | B | | | | | | | | |

Intersection Summary

| | | | |
|-----------------------------------|-------|----------------------|---|
| Average Delay | 1.6 | | |
| Intersection Capacity Utilization | 51.5% | ICU Level of Service | A |
| Analysis Period (min) | 15 | | |

HCM Unsignedized Intersection Capacity Analysis
11: Mirandela Ave & Coors Blvd

Terry O. Brown, P.E.
11/22/2011 - Synchro 7



| Movement | WBL | WBR | NBT | NBR | SBL | SBT | | | |
|-----------------------------------|-------|------|------|------|------|------|------|------|------|
| Lane Configurations | | | ↑↑↑→ | | ↑ | ↑↑↑ | | | |
| Volume (veh/h) | 0 | 226 | 2606 | 186 | 286 | 2330 | | | |
| Sign Control | Stop | | Free | | | Free | | | |
| Grade | 0% | | 0% | | | 0% | | | |
| Peak Hour Factor | 0.85 | 0.85 | 0.96 | 0.96 | 0.96 | 0.96 | | | |
| Hourly flow rate (vph) | 0 | 266 | 2715 | 194 | 298 | 2427 | | | |
| Pedestrians | | | | | | | | | |
| Lane Width (ft) | | | | | | | | | |
| Walking Speed (ft/s) | | | | | | | | | |
| Percent Blockage | | | | | | | | | |
| Right turn flare (veh) | | | | | | | | | |
| Median type | | | None | | | None | | | |
| Median storage veh | | | | | | | | | |
| Upstream signal (ft) | | | 1190 | | | 0.60 | | | |
| pX, platoon unblocked | 0.60 | 0.60 | | | 0.60 | | | | |
| vC, conflicting volume | 4216 | 776 | | | 2908 | | | | |
| vC1, stage 1 conf vol | | | | | | | | | |
| vC2, stage 2 conf vol | | | | | | | | | |
| vCu, unblocked vol | 3039 | 0 | | | 868 | | | | |
| tC, single (s) | 6.9 | 7.0 | | | 4.2 | | | | |
| tC, 2 stage (s) | | | | | | | | | |
| tF (s) | 3.5 | 3.3 | | | 2.2 | | | | |
| p0 queue free % | 100 | 59 | | | 35 | | | | |
| cM capacity (veh/h) | 2 | 651 | | | 461 | | | | |
| Direction, Lane # | WB 1 | NB 1 | NB 2 | NB 3 | NB 4 | SB 1 | SB 2 | SB 3 | SB 4 |
| Volume Total | 266 | 776 | 776 | 776 | 582 | 298 | 809 | 809 | 809 |
| Volume Left | 0 | 0 | 0 | 0 | 0 | 298 | 0 | 0 | 0 |
| Volume Right | 266 | 0 | 0 | 0 | 194 | 0 | 0 | 0 | 0 |
| cSH | 651 | 1700 | 1700 | 1700 | 1700 | 461 | 1700 | 1700 | 1700 |
| Volume to Capacity | 0.41 | 0.46 | 0.46 | 0.46 | 0.34 | 0.65 | 0.48 | 0.48 | 0.48 |
| Queue Length 95th (ft) | 50 | 0 | 0 | 0 | 0 | 112 | 0 | 0 | 0 |
| Control Delay (s) | 14.3 | 0.0 | 0.0 | 0.0 | 0.0 | 26.0 | 0.0 | 0.0 | 0.0 |
| Lane LOS | B | | | | | D | | | |
| Approach Delay (s) | 14.3 | 0.0 | | | | 2.8 | | | |
| Approach LOS | B | | | | | | | | |
| Intersection Summary | | | | | | | | | |
| Average Delay | 2.0 | | | | | | | | |
| Intersection Capacity Utilization | 63.4% | | | | | | | | |
| Analysis Period (min) | 15 | | | | | | | | |