# Paint Brush Hills Filing 14 <br> Traffic Impact Analysis PCD File No SP206 and SF2024 <br> (LSC \#184630) <br> January 13, 2021 

ACCEPTED for FILE Engineering Review

## Traffic Engineer's Statement

This traffic report and supporting information were prepared under my responsible charge and they comport with the standard of care. So far as is consistent with the standard of care, said report was prepared in general conformance with the criteria established by the County for traffic reports.


## Developer's Statement

I, the Developer, have read and will comply with all commitments made on my behalf within this report.


January 13, 2021
Mr. Jeff Mark
The Landhuis Company
212 North Wahsatch Avenue, Suite 301
Colorado Springs, CO 80903

$$
\begin{array}{ll}
\text { RE: } & \text { Paint Brush Hills Filing } 14 \\
& \text { El Paso County, Colorado } \\
& \text { Updated Traffic Impact Analysis } \\
& \text { LSC \#184630 }
\end{array}
$$

Dear Mr. Mark:

In response to your request, LSC Transportation Consultants, Inc. has prepared this updated traffic impact analysis for the proposed Paint Brush Hills Filing 14 residential development in El Paso County, Colorado. As shown in Figure 1, the site is located north-northwest of the Londonderry Drive/Rockingham Drive intersection in unincorporated El Paso County.

## REPORT CONTENTS

This report is being prepared as part of a submittal to El Paso County. It identifies the traffic impacts of this development. The report contains the following:

- Existing street conditions;
- Projections of short-term (2023) and long-term (2040) baseline/background traffic volumes;
- The projected average weekday and peak-hour vehicle-trips to be generated by the site;
- The assignment of the site's projected traffic volumes to the key area streets and intersections for the short and long term and the resulting total traffic volumes for the short and long term;
- The resulting traffic impacts including level of service analysis at key intersections and average daily traffic volumes on key street sections in the vicinity of the site;
- Recommended classification for all subdivision streets; and
- Recommended lane configuration for the site access points to Londonderry Drive.


## PREVIOUS TRAFFIC IMPACT STUDIES

LSC has completed the following traffic studies for Paint Brush Hills (previously Falcon Hills):

- Falcon Hills Traffic Impact Study - April 8, 2004: This study included analysis of all of the vacant areas west of Meridian Road and north of Stapleton Drive. Since completion of that report, Falcon Middle School has been completed on the parcel shown as "Falcon High School" in the 2004 report. An elementary school will be constructed in this area. However, it will be placed just north of Falcon Middle School rather than northwest of the north Londonderry Drive/Towner intersection. The key tables and figures from that report have been attached for reference.
- Paint Brush Hills Filing 13A - May 14, 2014: The 17 single-family homes in Filing 13A located south of Londonderry Drive and east of Towner Avenue have all been constructed since completion of this report.
- Paint Brush Hills Filing 13B - March 26, 2014: This report assumed lots for 21 single-family homes to be located north of Londonderry Drive and west of Towner Avenue. This is the same number of units as assumed for this area in the 2004 overall study. Some of the lots in this filing are currently under construction but none are currently occupied.
- Scenic View at Paint Brush Hills - April 7, 2014: This report assumed lots for 90 single-family homes northeast of the intersection of Stapleton Drive and Towner Avenue. Since completion of that report, all of the homes have been built in the Scenic View development.
- Paint Brush Hills Filings 13C-13F - September 25, 2014: This report was superseded by the Paint Brush Hills Filings 13C and 13 D report described below.
- Paint Brush Hills Filings 13C and 13D - January 9, 2017: This report assumed lots for 232 single-family homes west of Towner Avenue between the north and south portions of Londonderry Drive. Some of the lots within these filings are currently under construction but none are currently occupied.
- D-49 Elementary School - May 30, 2017: This report analyzed an elementary school to be located southeast of the north intersection of Londonderry Drive and Towner Avenue. At buildout, the school will support up to 900 students.
- Paint Brush Hills Filing 13E - October 22, 2018: This report assumed 158 single-family homes east of the currently proposed Paint Brush Hills Filing 14.

Table 1 contains a summary of the land uses assumed for the areas west of Meridian Road and north of Stapleton Drive in the 2004 report and the latest traffic impact study completed by LSC in the area (Paint Brush Hill Filing 13E). Figure 2 shows the site plan and traffic analysis zones (TAZ) assumed in the 2004 study.

## LAND USE AND ACCESS

## Land Use

Figure 2 shows the currently existing, approved, and currently-proposed developments in the areas west of Meridian Road and north of Stapleton Drive. The currently-proposed Paint Brush Hills Filing 14 is located in the northwest corner of the development. There are also existing single-family homes north and west of the site.

Filing 14 is planned to contain 224 single-family homes. Figure 3 shows the currently-proposed site plan. Access is proposed through Paint Brush Hills Filing 12 to the existing intersection of Keating Drive/Rockingham Drive and through Paint Brush Hills Filing 13 to the existing intersection of Londonderry Drive/Devoncove Drive. All of the internal intersections within Filing 14 are spaced at least 175 feet apart (centerline to centerline) except for the intersection of Country Manor Drive/Keynes Drive which is located about 161 feet east of Keating Drive (centerline to centerline). A request for a deviation to the criteria contained within the El Paso County Engineering Criteria Manual (ECM) will be submitted with this application.

The Paint Brush Hills Filing 14 area was included as part of TAZ 11 in the 2004 overall TIA. As shown in Table 1 the currently proposed plan for this filing includes about 113 more lots in this area than was assumed in the 2004 overall TIA. Including other changes to the residential land uses within Paint Brush Hills made since completion of the 2004 report, the total number of dwelling units within the entire study area represents an increase of 14 dwelling units.

Changes have also been made to the commercial and educational land uses within the Paint Brush Hills development. The 2004 study included 8.8 acres on the north end of Towner Avenue to be zoned "PBC". These parcels were assumed to be developed as a "shopping center" with 85,000 square feet of floor space. A 2.2-acre portion of this area is now included in the Bennett Ranch Elementary School site and it is now thought that the remaining six-acre PBC site will most likely be developed with a lower intensity land use such as a church with a daycare. The 2004 study assumed a high school with about 700 students and an elementary school with 500 students. Since completion of that study, Falcon Middle School has been constructed on the high school site. The middle school current enrollment is about 900 students. Bennet Ranch Elementary School is also planned to serve up to 900 students. Although this represents an increase in the number of students served, a majority of the traffic generated by the schools will likely be internal to the Paint Brush Hills development.

## Sight Distance

Figure 4a shows the sight distance analysis for all of the proposed intersections within Paint Brush Hills Filing 14. Based on the design speed of 25 miles per hour, the required intersection sight distance at these intersections is 280 feet. Figures 4 b through 4 e show the areas between the sight distance lines and the curb line that will need to be kept free of other obstructions (such as rear privacy fencing, landscaping, and backyard/patio amenities) that would restrict the drivers'
line of sight. Landscaping should be low - about 18 inches or lower in height - to the east of the passenger vehicle lines of sight shown. Please refer to ECM Sections 2.3.6.G.1 and 2.

Figure 4 f shows the sight distance analysis for the proposed intersection of Country Manor Drive/Keys Drive. This intersection is located about 161 feet west of the of Keating Drive/Keynes Drive and the available stopping sight distance from the start of the pavement on the west leg of Keating/Keynes to the centerline of Country Manor/Keynes is about 149.5’. The required stopping sight distance from Table 2-17 of the ECM is 155 feet, based on a design speed of 25 miles per hour (mph). As Keating/Keynes is a " T " intersection, all westbound traffic on Keynes Drive approaching Country Manor Drive will have either just turned right or left from Country Manor Drive. The turning speed for these movements is likely between 9 and 20 mph . Using the assumptions stated in Table 2-17 (break reaction distance predicted on a time of 2.5 seconds and a deceleration rate of $11.2 \mathrm{feet} /$ second) the calculated stopping sight distance based on a turning speed of 20 mph is 112 feet.

## Pedestrian and Bicycle Route Analysis

Figure 5 shows a pedestrian and bicycle route analysis to the two area schools. There are existing sidewalks within the Paint Brush Hills Filing 13 subdivision streets and on the north and south sides of Londonderry Drive on the north section between Rockingham Drive and Towner Drive. There is a marked crossing on the south leg of the intersection of Londonderry/Towner (north) but not on the west leg as recommended in traffic impact study for Bennett Ranch Elementary School (PCD File No. PPR-17-019).

There are currently no sidewalks on Rockingham Drive and on the short section of Keating Drive between Rockingham Drive and the south boundary of the currently proposed filing. It is our understanding that these street segments were platted prior to the ECM Local street right-ofway criteria of 50 -foot right-of-way widths plus two five-foot public improvement easements. The south section of Londonderry Drive between Rockingham Drive and Towner Drive has sidewalks on the northeast side but no sidewalks on the southwest side. If students choose to use the south route to Falcon Middle School, they would likely cross Londonderry Drive at Rockingham Drive. A marked crosswalk may be needed at this location. It should be noted that overall traffic volumes at this intersection are low and through volumes are very low as most vehicles make either a right or left turn onto Rockingham Drive.

## ROADWAY AND TRAFFIC CONDITIONS

## Area Roadways

The area roadways in the site's vicinity are shown on Figures 1 and 4 and are described below. Copies of the 2016 El Paso County Major Transportation Corridors Plan (MTCP) 2040 Roadway Plan and 2016 MTCP 2060 Corridor Preservation Plan, with the site location identified on them, have been attached to this report.

- Londonderry Drive is a two-lane Urban Residential Collector that currently extends west from Eastonville Road to Towner Avenue and then loops to the south to intersect Towner Avenue again about one-half mile to the south.
- Meridian Road extends north from South Blaney Road to County Line Road. Meridian Road is shown as a four-lane Minor Arterial south of Rex Road and north of Stapleton Drive and a two-lane Minor Arterial north of Rex Road on the El Paso County Major Transportation Corridors Plan (MTCP) and El Paso County Corridor Preservation Plan (CPP). Meridian has been upgraded to four lanes between Stapleton and Indian Paint Trail with a PPRTA project.
- Stapleton Drive is classified as a four-lane Urban Principal Arterial on the El Paso County MTCP. However, Stapleton Drive in the vicinity of the site is a two-lane roadway. Stapleton Drive extends east from just west of Towner Drive across US Highway 24 to Curtis Road. Longer-term plans show Stapleton extended west to connect with Briargate.
- Towner Avenue is a 40-foot-wide Urban Residential Collector street (within Paint Brush Hills) that extends south from Londonderry Drive to just south of Woodmen Hills Drive. The posted speed limit is 35 miles per hour.


## Existing Traffic

Figure 6 shows the existing traffic volumes at the intersections of Londonderry/Rockingham and Londonderry/Devoncove. These traffic volumes are based on traffic counts conducted by LSC in December 2020. Note that many of the lots within Paint Brush Hills Filing 13 located north of the intersection of Londonderry/Devoncove are currently under construction and most of the traffic observed using the north leg of this intersection appeared to be construction related. The traffic count reports are attached.

## Existing Levels of Service

Level of service (LOS) is a quantitative measure of the level of congestion or delay at an intersection. Level of service is indicated on a scale from "A" to "F." LOS A represents control delay of less than 10 seconds for unsignalized and signalized intersections. LOS F represents control delay of more than 50 seconds for unsignalized intersections and more than 80 seconds for signalized intersections. Table 2 shows the level of service delay ranges.

Table 2: Intersection Levels of Service Delay Ranges

|  | Signalized Intersections | Unsignalized Intersections |
| :---: | :---: | :---: |
| Level of Service | Average Control Delay (seconds per vehicle) | Average Control Delay (seconds per vehicle) ${ }^{(1)}$ |
| A | 10.0 sec or less | 10.0 sec or less |
| B | 10.1-20.0 sec | 10.1-15.0 sec |
| C | 20.1-35.0 sec | $15.1-25.0 \mathrm{sec}$ |
| D | $35.1-55.0 \mathrm{sec}$ | $25.1-35.0 \mathrm{sec}$ |
| E | $55.1-80.0 \mathrm{sec}$ | $35.1-50.0 \mathrm{sec}$ |
| F | 80.1 sec or more | 50.1 sec or more |
| For unsignalized $F$, regardless of t | tions, if $\mathrm{V} / \mathrm{C}$ ratio is great cted average control dela | an 1.0 the level of service is LOS r vehicle. |

## BACKGROUND TRAFFIC

Background traffic is the traffic estimated to be on the area streets and roadways without consideration of the proposed development. Figure 7 shows the projected background traffic volumes for the short term (2023). These background traffic volumes were based on the existing traffic counts shown in Figure 6 plus estimates of traffic projected to be generated by the buildout of Paint Brush Hills Filings 13 D and 13E. The number of lots within these filings that are currently unoccupied is shown on Table 1. As most of the traffic using the north leg of the intersection of Londonderry/Devoncove was observed to be construction related, the traffic volumes for this leg were instead taken from the Paint Brush Hills Filing 13E Traffic Impact Analysis by LSC, dated October 22, 2018. The short-term scenario assumes Stapleton Drive not yet extended west from its current terminus.

Figure 8 shows the projected 2040 background traffic volumes. These volumes assume buildout of the Paint Brush Hills development including the parcel southwest of the intersection of Londonderry/Towner (north) across from Bennet Ranch Elementary School. The 2040 background traffic volumes also assume Stapleton Drive has been extended west.

## TRIP GENERATION

The site-generated vehicle trips were estimated using the nationally published trip-generation rates from Trip Generation, 10th Edition, 2017 by the Institute of Transportation Engineers (ITE). Table 3 shows the trip-generation estimates for the site.

Filing 14 is expected to generate about 2,115 vehicle trips on the average weekday, with about half entering and half exiting the site during a 24 -hour period. During the morning peak hour, which generally occurs for one hour between 6:30 and 8:30 a.m., about 41 vehicles would enter and 124 vehicles would exit the site. During the afternoon peak hour, which generally occurs for one hour between 4:15 and 6:15 p.m., about 140 vehicles would enter and 82 vehicles would exit the site.

## DIRECTIONAL DISTRIBUTION

The directional distribution of the site-generated traffic volumes on the area roadways is an important factor in determining the site's traffic impacts. Figure 9 shows the short-term and long-term external directional distribution estimates for the site-generated traffic volumes. The estimates have been based on the following factors: the site's location with respect to the nearby employment, commercial, schools, and activity centers and the balance of the Falcon and Colorado Springs metropolitan area; the site's proposed land use; the site's proposed access points; and the phasing of the existing and future roadway system serving the site. The long-term distribution takes into account the extension of Stapleton west to Briargate Parkway.

## SITE-GENERATED TRAFFIC

Figures 10 and 11 show the projected short-term and long-term site-generated traffic volumes, respectively. The site-generated traffic volumes were calculated by applying the directional distribution percentages (from Figure 8) to the trip-generation estimates from Table 3.

## TOTAL TRAFFIC

Figure 12 shows the projected short-term total traffic volumes. The short-term total traffic volumes are the sum of the short-term background traffic volumes (from Figure 7) plus the short-term site-generated traffic volumes from Figure 10.

Figure 13 shows the projected 2040 total traffic volumes. The 2040 total traffic volumes are the sum of the 2040 background traffic volumes (from Figure 8) plus the long-term site-generated traffic volumes from Figure 11.

## PROJECTED LEVELS OF SERVICE

The intersections of Rockingham Drive/Londonderry Drive and Devoncove Drive/Londonderry Drive were analyzed to determine the projected levels of service for the background and total traffic volumes, based on the unsignalized method of analysis procedures from the Highway Capacity Manual, $6^{\text {th }}$ Edition by the Transportation Research Board. Figures 7, 8, 12, and 13 show the level of service analysis results. The level of service reports are attached.

The intersections of Rockingham Drive/Londonderry Drive and Devoncove Drive/Londonderry Drive are projected to operate at LOS B or better for all movements, based on the projected short-term and 2040 total traffic volumes as two-way stop-sign-controlled intersections.

## STREET CLASSIFICATIONS

Figure 14 shows the recommended internal street classifications, based on the projected buildout traffic volumes for Filing 14.

## CONCLUSIONS AND RECOMMENDATIONS

## Trip Generation

- Filing 14 is expected to generate about 2,115 vehicle trips on the average weekday, with about half entering and half exiting the site during a 24 -hour period. During the morning peak hour, about 41 vehicles would enter and 124 vehicles would exit the site. During the afternoon peak hour, about 140 vehicles would enter and 82 vehicles would exit the site.


## Level of Service

- The intersections of Rockingham Drive/Londonderry Drive and Devoncove Drive/ Londonderry Drive are projected to operate at LOS B or better for all movements, based on the projected short-term and 2040 total traffic volumes as two-way stop-sign-controlled intersections.


## Intersection Lane Configurations

- Based on the criteria contained in the EI Paso County Engineering Criteria Manual (ECM) and the projected short-term total traffic volumes, a northbound left-turn lane would be required on Londonderry Drive approaching Rockingham Drive. Londonderry Drive is currently 40 feet wide in the vicinity of this intersection and could be restriped to provide a northbound left-turn lane. Based on the criteria contained in the ECM, this lane would need to be 255 feet long ( 155 deceleration length and 100 feet of storage) plus a 160 -foot taper. The existing intersection spacing would allow for Londonderry Drive to be restriped with a turn lane that would meet this criterion. Although the ECM does not have a provision for waiving the need for a left-turn lane when the through traffic is below a certain level, the State of Colorado Highway Access code provides a waiver to left-turn lane requirements when the 20th year predicted volume in the opposing lane is below 100 vehicles per hour. As the southbound traffic volume is projected to be only 87 vehicles per hour, LSC recommends that the requirement for a left-turn lane be waived.
- Based on the criteria contain in the ECM and the projected short-term total traffic volumes, a southbound right-turn deceleration lane would be required on Londonderry Drive approaching Rockingham Drive, based on the projected right-turn volume. However, at this particular location, the westbound through volume is low and is projected to remain low at buildout. Although the ECM does not have a provision for waiving the need for a right-turn deceleration lane when the through traffic is below a certain level, the State of Colorado Highway Access code provides a waiver to right-turn lane requirements when the $20^{\text {th }}$ year predicted volume in the travel lane is below 150 vehicles per hour. As the southbound traffic volume is projected to be only 87 vehicles per hour, LSC recommends that the requirement for a right-turn deceleration lane be waived. A deviation to the ECM was approved for Paintbrush Hills Fil 13E for this same intersection. An updated deviation request will be submitted as part of this filing. If
required, this lane would need to be 155 feet long plus a 160 -foot taper. The existing intersection spacing would allow for a turn lane that would meet this criterion.
- Based on the criteria contained in the ECM, auxiliary turn lanes would be required on the west leg of the intersection of Rockingham/Londonderry. However, this section of Rockingham has already been constructed and there are existing homes adjacent to it. As this leg is stop-sign-controlled, auxiliary turn lanes will not be needed for "speed change" or speed differential purposes. A single eastbound approach lane at this intersection is projected to operate at LOS B or better during the peak hours. The projected $95^{\text {th }}$ percentile queue with a single approach lane is 0.5 vehicles during the morning peak hour and 0.4 vehicles during the afternoon peak hour. This queue can be accommodated by the available 200 feet of stacking distance between Londonderry Drive and Keating Drive. Also, the projected volumes on this leg are below the minimum volume thresholds set by State of Colorado Highway Access code where left and right-turn lane requirements may be waived.
- Based on the criteria contained in the EI Paso County Engineering Criteria Manual (ECM) and the projected 2040 total traffic volumes, left-turn lane and right-turn lanes would not be required on Londonderry Drive approaching Devoncove Drive.


## Proposed Subdivision Street Classifications

- As shown in Figure 14 all proposed subdivision streets will be classified as Urban Local Low Volume or Urban Local streets.


## County Road Impact Fee

- The applicant will be required to participate in the County Road Impact Fee Program. Assuming this development joins the ten-mil PID, the building permit fee portion is $\$ 1,221$ per single-family dwelling unit. The net fee for the proposed 224 lots in Filing 14 would be $\$ 273,504$. Note: This is based on the current rate, which is subject to change. El Paso County updates this rate periodically.
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Please contact me if you have any questions or need further assistance.

Sincerely,

LSC TRANSPORTATION CONSULTANTS, INC.

By: Jeffrey C. Hodsdon, P.E.
Principal

JCH:KDF:jas

Enclosures: Tables 1 and 3
Figures 1-14
Traffic Counts
Level of Service Reports
MTCP Maps
Key tables and figures from Falcon Hills Traffic Impact Study dated April 8, 2004

Tables


[^0]Source: LSC Transporation Consultants, Inc.

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|  |  |  |  | Gene | ation | ates ${ }^{(1)}$ |  | T | al | Gen | ated |  |
| Land Use | Land Use | Trip Generation | Average <br> Weekday |  | ing Hour | Afte <br> Pea |  | Average <br> Weekday |  | ng our | Afte | oon <br> Hour |
| Code | Description | Units | Traffic | In | Out | In | Out | Traffic | In | Out | In | Out |
| 210 | Single-Family Detached Housing | 224 DU $^{(2)}$ | 9.44 | 0.19 | 0.56 | 0.62 | 0.37 | 2,115 | 41 | 124 | 140 | 82 |
| Notes: <br> (1) Sou <br> (2) DU | ce: "Trip Generation, 10th Edition, dwelling unit | 17 " by the Ins | ute of Tran | portat | Eng | ers |  |  |  |  |  |  |
| Source: LSC Transportation Consultants, Inc. |  |  |  |  |  |  |  |  |  |  | Dec-20 |  |

Figures





















## Traffic Counts

## LSC Transportation Consultants, Inc.

## 545 E Pikes Peak Ave, Suite 210

Colorado Springs, CO 80905
719-633-2868
File Name : Londonderry Dr - Rockingham Dr AM
Site Code : 00184630
Start Date : 12/17/2020
Page No : 1

|  | Londonderry Dr Southbound |  |  |  |  | Rockingham Dr Westbound |  |  |  |  | Londonderry Dr Northbound |  |  |  |  | Rockingham Dr Eastbound |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Start Time | L | T | R | U | App. Total | L | T | R | U | App. Total | L | T | R | U | App. Total | L | T | R | U | App. Total | Int. Total |
| 07:00 AM | 0 | 1 | 0 | 0 | 1 | 2 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 5 | 0 | 6 | 9 |
| 07:15 AM | 1 | 0 | 2 | 0 | 3 | 0 | 0 | 1 | 0 | 1 | 2 | 0 | 0 | 0 | 2 | 2 | 0 | 5 | 0 | 7 | 13 |
| 07:30 AM | 0 | 0 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 1 | 2 | 0 | 0 | 3 | 1 | 2 | 2 | 0 | 5 | 10 |
| 07:45 AM | 0 | 3 | 1 | 0 | 4 | 1 | 0 | 0 | 0 | 1 | 2 | 2 | 3 | 0 | 7 | 2 | 1 | 5 | 0 | 8 | 20 |
| Total | 1 | 4 | 4 | 0 | 9 | 4 | 0 | 1 | 0 | 5 | 5 | 4 | 3 | 0 | 12 | 6 | 3 | 17 | 0 | 26 | 52 |
| 08:00 AM | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 2 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 1 | 4 |
| 08:15 AM | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 2 | 0 | 2 | 4 |
| 08:30 AM | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 2 | 0 | 0 | 4 | 0 | 4 | 7 |
| 08:45 AM | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 1 | 3 | 0 | 0 | 4 | 0 | 0 | 2 | 0 | 2 | 7 |
| Total | 0 | 1 | 0 | 0 | 1 | 3 | 0 | 1 | 0 | 4 | 3 | 5 | 0 | 0 | 8 | 0 | 0 | 9 | 0 | 9 | 22 |
| Grand Total | 1 | 5 | 4 | 0 | 10 | 7 | 0 | 2 | 0 | 9 | 8 | 9 | 3 | 0 | 20 | 6 | 3 | 26 | 0 | 35 | 74 |
| Apprch \% | 10 | 50 | 40 | 0 |  | 77.8 | 0 | 22.2 | 0 |  | 40 | 45 | 15 | 0 |  | 17.1 | 8.6 | 74.3 | 0 |  |  |
| Total \% | 1.4 | 6.8 | 5.4 | 0 | 13.5 | 9.5 | 0 | 2.7 | 0 | 12.2 | 10.8 | 12.2 | 4.1 | 0 | 27 | 8.1 | 4.1 | 35.1 | 0 | 47.3 |  |

## LSC Transportation Consultants, Inc.

545 E Pikes Peak Ave, Suite 210
Colorado Springs, CO 80905
719-633-2868
File Name : Londonderry Dr - Rockingham Dr AM
Site Code : 00184630
Start Date : 12/17/2020
Page No : 3


## LSC Transportation Consultants, Inc.

## 545 E Pikes Peak Ave, Suite 210

Colorado Springs, CO 80905
719-633-2868
File Name : Londonderry Dr - Rockingham Dr PM
Site Code : 00184630
Start Date : 12/15/2020
Page No : 1

Groups Printed- Unshifted

|  | Londonderry Dr Southbound |  |  |  |  | Rockingham Dr Westbound |  |  |  |  | Londonderry Dr Northbound |  |  |  |  | Rockingham Dr Eastbound |  |  |  |  |  |
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| Start <br> Time | L | T | R | U | App. Total | L | T | R | U | App. Total | L | T | R | U | App. Total | L | T | R | $\mathbf{U}$ | App. Total | Int. Total |
| 04:00 PM | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 4 | 2 | 0 | 0 | 6 | 0 | 0 | 2 | 0 | 2 | 9 |
| 04:15 PM | 0 | 2 | 1 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 6 | 2 | 0 | 0 | 8 | 1 | 0 | 2 | 0 | 3 | 14 |
| 04:30 PM | 0 | 1 | 2 | 0 | 3 | 1 | 0 | 0 | 0 | 1 | 6 | 0 | 1 | 0 | 7 | 0 | 0 | 5 | 0 | 5 | 16 |
| 04:45 PM | 0 | 0 | 1 | 0 | 1 | 2 | 0 | 0 | 0 | 2 | 1 | 1 | 3 | 0 | 5 | 1 | 0 | 1 | 2 | 4 | 12 |
| Total | 0 | 3 | 5 | 0 | 8 | 3 | 0 | 0 | 0 | 3 | 17 | 5 | 4 | 0 | 26 | 2 | 0 | 10 | 2 | 14 | 51 |
| 05:00 PM | 0 | 0 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 6 | 5 | 1 | 0 | 12 | 3 | 0 | 2 | 0 | 5 | 19 |
| 05:15 PM | 0 | 1 | 1 | 0 | 2 | 1 | 0 | 0 | 0 | 1 | 4 | 1 | 1 | 0 | 6 | 0 | 0 | 2 | 0 | 2 | 11 |
| 05:30 PM | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 4 |
| 05:45 PM | 0 | 5 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 0 | 0 | 5 | 0 | 0 | 1 | 0 | 1 | 11 |
| Total | 0 | 7 | 3 | 0 | 10 | 1 | 0 | 0 | 0 | 1 | 17 | 7 | 2 | 0 | 26 | 3 | 0 | 5 | 0 | 8 | 45 |
| Grand Total | 0 | 10 | 8 | 0 | 18 | 4 | 0 | 0 | 0 | 4 | 34 | 12 | 6 | 0 | 52 | 5 | 0 | 15 | 2 | 22 | 96 |
| Apprch \% | 0 | 55.6 | 44.4 | 0 |  | 100 | 0 | 0 | 0 |  | 65.4 | 23.1 | 11.5 | 0 |  | 22.7 | 0 | 68.2 | 9.1 |  |  |
| Total \% | 0 | 10.4 | 8.3 | 0 | 18.8 | 4.2 | 0 | 0 | 0 | 4.2 | 35.4 | 12.5 | 6.2 | 0 | 54.2 | 5.2 | 0 | 15.6 | 2.1 | 22.9 |  |

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545 E Pikes Peak Ave, Suite 210
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File Name : Devoncove Dr - Londonderry Dr AM
Site Code : 00184630
Start Date : 12/22/2020
Page No : 1

|  | Devoncove Dr Southbound |  |  |  |  | Londonderry Dr Westbound |  |  |  |  | Devoncove Dr Northbound |  |  |  |  | Londonderry Dr Eastbound |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Start <br> Time | L | T | R | U | App. Total | L | T | R | U | App. Total | L | T | R | U | App. Total | L | T | R | U | App. Total | Int. Total |
| 07:00 AM | 1 | 0 | 0 | 0 | 1 | 2 | 1 | 4 | 0 | 7 | 0 | 1 | 0 | 0 | 1 | 0 | 2 | 0 | 0 | 2 | 11 |
| 07:15 AM | 3 | 0 | 0 | 0 | 3 | 3 | 0 | 3 | 0 | 6 | 0 | 1 | 0 | 0 | 1 | 0 | 3 | 1 | 0 | 4 | 14 |
| 07:30 AM | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 5 | 0 | 5 | 0 | 1 | 1 | 0 | 2 | 0 | 1 | 0 | 0 | 1 | 9 |
| 07:45 AM | 6 | 0 | 0 | 0 | 6 | 0 | 0 | 5 | 0 | 5 | 0 | 1 | 0 | 0 | 1 | 2 | 3 | 0 | 0 | 5 | 17 |
| Total | 11 | 0 | 0 | 0 | 11 | 5 | 1 | 17 | 0 | 23 | 0 | 4 | 1 | 0 | 5 | 2 | 9 | 1 | 0 | 12 | 51 |
| 08:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 7 | 0 | 9 | 0 | 0 | 1 | 0 | 1 | 1 | 2 | 0 | 0 | 3 | 13 |
| 08:15 AM | 3 | 0 | 1 | 0 | 4 | 0 | 0 | 6 | 1 | 7 | 0 | 0 | 1 | 0 | 1 | 2 | 0 | 0 | 0 | 2 | 14 |
| 08:30 AM | 3 | 0 | 0 | 0 | 3 | 0 | 1 | 2 | 0 | 3 | 0 | 1 | 1 | 0 | 2 | 0 | 2 | 0 | 0 | 2 | 10 |
| 08:45 AM | 3 | 0 | 1 | 0 | 4 | 2 | 2 | 6 | 0 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 14 |
| Total | 9 | 0 | 2 | 0 | 11 | 2 | 5 | 21 | 1 | 29 | 0 | 1 | 3 | 0 | 4 | 3 | 4 | 0 | 0 | 7 | 51 |
| Grand Total | 20 | 0 | 2 | 0 | 22 | 7 | 6 | 38 | 1 | 52 | 0 | 5 | 4 | 0 | 9 | 5 | 13 | 1 | 0 | 19 | 102 |
| Apprch \% | 90.9 | 0 | 9.1 | 0 |  | 13.5 | 11.5 | 73.1 | 1.9 |  | 0 | 55.6 | 44.4 | 0 |  | 26.3 | 68.4 | 5.3 | 0 |  |  |
| Total \% | 19.6 | 0 | 2 | 0 | 21.6 | 6.9 | 5.9 | 37.3 | 1 | 51 | 0 | 4.9 | 3.9 | 0 | 8.8 | 4.9 | 12.7 | 1 | 0 | 18.6 |  |

## LSC Transportation Consultants, Inc.

545 E Pikes Peak Ave, Suite 210
Colorado Springs, CO 80905
719-633-2868
File Name : Devoncove Dr - Londonderry Dr AM
Site Code : 00184630
Start Date : 12/22/2020
Page No : 3


## LSC Transportation Consultants, Inc.

## 545 E Pikes Peak Ave, Suite 210

Colorado Springs, CO 80905
719-633-2868
File Name : Devoncove Dr - Londonderry Dr PM
Site Code : 00184630
Start Date : 12/17/2020
Page No : 1

|  | Devoncove Dr Southbound |  |  |  |  | Londonderry Dr Westbound |  |  |  |  | Devoncove Dr <br> Northbound |  |  |  |  | Londonderry Dr Eastbound |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Start <br> Time | L | T | R | U | App. Total | L | T | R | U | App. Total | L | T | R | U | App. Total | L | T | $\mathbf{R}$ | U | App. Total | Int. Total |
| 04:00 PM | 2 | 0 | 0 | 0 | 2 | 1 | 6 | 1 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 1 | 3 | 0 | 0 | 4 | 14 |
| 04:15 PM | 4 | 0 | 0 | 0 | 4 | 1 | 1 | 1 | 0 | 3 | 0 | 0 | 1 | 0 | 1 | 1 | 3 | 1 | 0 | 5 | 13 |
| 04:30 PM | 5 | 1 | 0 | 0 | 6 | 0 | 3 | 2 | 0 | 5 | 0 | 0 | 2 | 0 | 2 | 0 | 1 | 0 | 0 | 1 | 14 |
| 04:45 PM | 2 | 0 | 0 | 0 | 2 | 1 | 4 | 2 | 0 | 7 | 1 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 1 | 11 |
| Total | 13 | 1 | 0 | 0 | 14 | 3 | 14 | 6 | 0 | 23 | 1 | 0 | 3 | 0 | 4 | 2 | 8 | 1 | 0 | 11 | 52 |
| 05:00 PM | 2 | 0 | 0 | 0 | 2 | 4 | 3 | 1 | 0 | 8 | 0 | 1 | 1 | 0 | 2 | 0 | 1 | 0 | 0 | 1 | 13 |
| 05:15 PM | 4 | 1 | 0 | 1 | 6 | 2 | 5 | 2 | 0 | 9 | 0 | 0 | 1 | 0 | 1 | 0 | 3 | 1 | 0 | 4 | 20 |
| 05:30 PM | 3 | 0 | 0 | 0 | 3 | 3 | 3 | 3 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 2 | 14 |
| 05:45 PM | 1 | 0 | 0 | 0 | 1 | 3 | 3 | 3 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 3 | 13 |
| Total | 10 | 1 | 0 | 1 | 12 | 12 | 14 | 9 | 0 | 35 | 0 | 1 | 2 | 0 | 3 | 0 | 9 | 1 | 0 | 10 | 60 |
| Grand Total | 23 | 2 | 0 | 1 | 26 | 15 | 28 | 15 | 0 | 58 | 1 | 1 | 5 | 0 | 7 | 2 | 17 | 2 | 0 | 21 | 112 |
| Apprch \% | 88.5 | 7.7 | 0 | 3.8 |  | 25.9 | 48.3 | 25.9 | 0 |  | 14.3 | 14.3 | 71.4 | 0 |  | 9.5 | 81 | 9.5 | 0 |  |  |
| Total \% | 20.5 | 1.8 | 0 | 0.9 | 23.2 | 13.4 | 25 | 13.4 | 0 | 51.8 | 0.9 | 0.9 | 4.5 | 0 | 6.2 | 1.8 | 15.2 | 1.8 | 0 | 18.8 |  |

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Site Code : 00184630
Start Date : 12/17/2020
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| Intersection |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Int Delay, s/veh | 6 |  |  |  |  |  |  |  |  |  |  |  |  |
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |  |
| Lane Configurations |  | ¢ |  |  | \$ |  |  | ¢ |  |  | ¢ |  |  |
| Traffic Vol, veh/h | 6 |  | 17 | 4 | 0 | 1 | 5 | , | 3 | 1 | 4 | 4 |  |
| Future Vol, veh/h | 6 | 3 | 17 | 4 | 0 | 1 | 5 | 4 | 3 | 1 | 4 | 4 |  |
| Conflicting Peds, \#/hr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |  |
| Sign Control Stoper | Stop | Stop | Stop | Stop | Stop | Stop | Free | Free | Free | Free | Free | Free |  |
| RT Channelized | - | - | None | - | - | None | - | - | None | - | - | None |  |
| Storage Length | - | - | - | - | - | - | - | - | - | - | - | - |  |
| Veh in Median Storage, \# | \# | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |  |
| Grade, \% | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |  |
| Peak Hour Factor | 60 | 60 | 60 | 78 | 78 | 78 | 78 | 78 | 78 | 54 | 54 | 54 |  |
| Heavy Vehicles, \% | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |  |
| Mumt Flow | 10 | 5 | 28 | 5 | 0 | 1 | 6 | 5 | 4 | 2 | 7 | 7 |  |



| Intersection |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Int Delay, s/veh | 3.6 |  |  |  |  |  |  |  |  |  |  |  |  |
| Movement EBL | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |  |
| Lane Configurations |  | ¢ |  |  | ¢ |  |  | * |  |  | ¢ |  |  |
| Traffic Vol, veh/h | 0 | 9 | 1 | 12 | 14 | 9 | 0 | 1 | 2 | 10 | 1 | 0 |  |
| Future Vol, veh/h |  | 9 | 1 | 12 | 14 | 9 | 0 | 1 | 2 | 10 | 1 | 0 |  |
| Conflicting Peds, \#/hr |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |  |
| Sign Control F | Free | Free | Free | Free | Free | Free | Stop | Stop | Stop | Stop | Stop | Stop |  |
| RT Channelized |  | - | None | - | - | None | - | - | None | - | - | None |  |
| Storage Length |  | - | - | - | - | - | - | - | - | - | - | - |  |
| Veh in Median Storage, \# |  | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |  |
| Grade, \% |  | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |  |
| Peak Hour Factor | 75 | 75 | 75 | 78 | 78 | 78 | 67 | 67 | 67 | 78 | 78 | 78 |  |
| Heavy Vehicles, \% |  | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |  |
| Mvmt Flow |  | 12 | 1 | 15 | 18 | 12 | 0 | 1 | 3 | 13 | 1 | 0 |  |













| Intersection |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Int Delay, s/veh | 2.9 |  |  |  |  |  |  |  |  |  |  |  |  |
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |  |
| Lane Configurations |  | \& |  |  | $\uparrow$ |  |  | $\uparrow$ |  |  | * |  |  |
| Traffic Vol, veh/h | 2 | 78 | 0 | 0 | 31 | 15 | 0 | 2 | 3 | 42 | 0 | 6 |  |
| Future Vol, veh/h | 2 | 78 | 0 | 0 | 31 | 15 | 0 | 2 | 3 | 42 | 0 | 6 |  |
| Conflicting Peds, \#/hr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |  |
| Sign Control F | Free | Free | Free | Free | Free | Free | Stop | Stop | Stop | Stop | Stop | Stop |  |
| RT Channelized | - | - | None | - | - | None | - | - | None | - | - | None |  |
| Storage Length | - | - | - | - | - | - | - | - | - | - | - | - |  |
| Veh in Median Storage, \# | \# | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |  |
| Grade, \% | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |  |
| Peak Hour Factor | 85 | 85 | 85 | 85 | 85 | 85 | 85 | 85 | 85 | 85 | 85 | 85 |  |
| Heavy Vehicles, \% | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |  |
| Mvmt Flow | 2 | 92 | 0 | 0 | 36 | 18 | 0 | 2 | 4 | 49 | 0 | 7 |  |



| Intersection |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Int Delay, s/veh | 7.1 |  |  |  |  |  |  |  |  |  |  |  |  |
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |  |
| Lane Configurations |  | ¢ |  |  | $\uparrow$ |  |  | ¢ |  |  | * |  |  |
| Traffic Vol, veh/h | 73 | 3 | 49 | 4 | 0 | 1 | 16 | 6 | 3 | 1 | 10 | 26 |  |
| Future Vol, veh/h | 73 | 3 | 49 | 4 | 0 | 1 | 16 | 6 | 3 | 1 | 10 | 26 |  |
| Conflicting Peds, \#/hr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |  |
| Sign Control Stap | Stop | Stop | Stop | Stop | Stop | Stop | Free | Free | Free | Free | Free | Free |  |
| RT Channelized | - | - | None | - | - | None | - | - | None | - | - | None |  |
| Storage Length | - | - | - | - | - | - | - | - | - | - | - | - |  |
| Veh in Median Storage, \# | \# | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |  |
| Grade, \% | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |  |
| Peak Hour Factor | 85 | 85 | 85 | 85 | 85 | 85 | 85 | 85 | 85 | 85 | 85 | 85 |  |
| Heavy Vehicles, \% | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |  |
| Mvmt Flow | 86 | 4 | 58 | 5 | 0 | 1 | 19 | 7 | 4 | 1 | 12 | 31 |  |















| Intersection |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Int Delay, s/veh | 3.4 |  |  |  |  |  |  |  |  |  |  |  |
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations |  | * |  |  | \& |  |  | $\uparrow$ |  |  | $\leftrightarrow$ |  |
| Traffic Vol, veh/h | 3 | 58 | 0 | 0 | 25 | 14 | 0 | 2 | 3 | 39 | 0 | 9 |
| Future Vol, veh/h | 3 | 58 | 0 | 0 | 25 | 14 | 0 | 2 | 3 | 39 | 0 | 9 |
| Conflicting Peds, \#/hr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Free | Free | Stop | Stop | Stop | Stop | Stop | Stop |
| RT Channelized | - | - | None | - | - | None | - | - | None | - | - | None |
| Storage Length | - | - | - | - | - | - | - | - | - | - | - | - |
| Veh in Median Storage, \# | \# | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Grade, \% | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Peak Hour Factor | 85 | 85 | 85 | 85 | 85 | 85 | 85 | 85 | 85 | 85 | 85 | 85 |
| Heavy Vehicles, \% | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 4 | 68 | 0 | 0 | 29 | 16 | 0 | 2 | 4 | 46 | 0 | 11 |


| Major/Minor | Major1 | Major2 |  |  |  |  | Minor1 | Minor2 |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Conflicting Flow All | 45 | 0 | 0 | 68 | 0 | 0 | 119 | 121 | 68 | 116 | 113 | 37 |  |
| Stage 1 | - | - | - | - | - | - | 76 | 76 | - | 37 | 37 |  | - |
| Stage 2 | - | - | - | - | - | - | 43 | 45 | - | 79 | 76 |  | - |
| Critical Hdwy | 4.12 | - | - | 4.12 | - | - | 7.12 | 6.52 | 6.22 | 7.12 | 6.52 | 6.22 |  |
| Critical Hdwy Stg 1 | - | - | - | - | - | - | 6.12 | 5.52 | - | 6.12 | 5.52 |  | - |
| Critical Hdwy Stg 2 | - | - | - | - | - | - | 6.12 | 5.52 | - | 6.12 | 5.52 | - | - |
| Follow-up Hdwy | 2.218 | - |  | 2.218 | - | - | 3.518 | 4.018 | 3.318 | 3.518 | 4.018 | 3.318 |  |
| Pot Cap-1 Maneuver | 1563 | - | - | 1533 | - | - | 857 | 769 | 995 | 861 | 777 | 1035 |  |
| Stage 1 | - | - | - | - | - | - | 933 | 832 | - | 978 | 864 | - | - |
| Stage 2 | - | - | - | - | - | - | 971 | 857 | - | 930 | 832 |  | - |
| Platoon blocked, \% |  | - | - |  | - | - |  |  |  |  |  |  |  |
| Mov Cap-1 Maneuver | 1563 | - | - | 1533 | - | - | 847 | 767 | 995 | 854 | 775 | 1035 |  |
| Mov Cap-2 Maneuver | - | - | - | - | - | - | 847 | 767 | - | 854 | 775 |  | - |
| Stage 1 | - | - | - | - | - | - | 930 | 830 | - | 975 | 864 |  | - |
| Stage 2 | - | - | - | - | - | - | 961 | 857 | - | 921 | 830 |  | - |
| Approach | EB |  |  | WB |  |  | NB |  |  | SB |  |  |  |
| HCM Control Delay, s | 0.4 |  |  | 0 |  |  | 9.1 |  |  | 9.4 |  |  |  |
| HCM LOS |  |  |  |  |  |  | A |  |  | A |  |  |  |
| Minor Lane/Major Mvmt |  | NBLn1 | EBL | EBT | EBR | WBL | WBT | WBR | SBLn1 |  |  |  |  |
| Capacity (veh/h) |  | 889 | 1563 | - | - | 1533 | - | - | 883 |  |  |  |  |
| HCM Lane V/C Ratio |  | 0.007 | 0.002 | - | - | - | - | - | 0.064 |  |  |  |  |
| HCM Control Delay (s) |  | 9.1 | 7.3 | 0 | - | 0 | - | - | 9.4 |  |  |  |  |
| HCM Lane LOS |  | A | A | A | - | A | - | - | A |  |  |  |  |
| HCM 95th \%tile Q(veh) |  | 0 | 0 | - | - | 0 | - | - | 0.2 |  |  |  |  |








## MTCP Maps



Map 14: 2040 Roadway Plan (Classification and Lanes)


## Additional Attachments

Key tables and figures from Falcon Hills Traffic Impact Study dated April 8, 2004:

- Page 1
- Table 1
- Figures 2 and 3

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FAX (719) 633-5430
E-mail: Isc@Isccs.com
Website: http://www.Isctrans.com

April 8, 2004
Mr. Harold Fong
Manager, Falcon Hills
Six Ninety Nine LA, LLC
545 East Pikes Peak, Suite 207
Colorado Springs, CO 80903
RE: Falcon Hills
Updated March 2004
LSC \#036080
Dear Mr. Fong:
In response to your request, we have prepared this updated traffic impact analysis report for Falcon Hills. A previous traffic study was prepared for Falcon Hills entitled Traffic Impact Report For Falcon Hills dated May 3, 2000 by URS Corporation. Falcon Hills is located west of Meridian Road and north of Stapleton Road in El Paso County, Colorado. The site location and vicinity are shown in Figure 1. The purpose of this report is to present an updated study based on the current land use plan, including the specific separate traffic impacts for each of the various landowners within Falcon Hills as well as for the area as a whole, and to identify the short- and long-term transportation system improvements adjacent to Falcon Hills.

This report contains an analysis of the traffic estimated to be generated by each of the existing and future proposed development parcels within Falcon Hills, estimates of the projected site-generated traffic volumes on the existing and future adjacent roadway system, and the impacts of additional traffic on the area roadways and intersections by ownership land use type. The report also identifies recommendations for auxiliary turn lanes, traffic signals, and other roadway system improvements for the short and long term.

## LAND USE PLAN AND OWNERSHIP

Falcon Hills is located west of Meridian Road and north of Stapleton Road. Aside from existing developed individual lots, of which there were about 497 in August 2003, there are three major owners of developing and undeveloped land within Falcon Hills. These owners are Six Ninety Nine LA, LLC; School District 49; and Roger Barrack/Scott Smith. These three owners will each contribute to a portion of the total traffic impacts of future development within Falcon Hills. Thus, the idea is that each would contribute to an equitable portion of the total cost of street improvements necessitated by the traffic generated.





[^0]:    Notes:
    (1) $\operatorname{DU}=$ dwelling unit
    (2) KF
    (2) $\mathrm{KFF}=$ thusand syuare feet of flor area
    (3) At the time traffic counts were conducte
    (3) At the time traffic counts were conducted (December 2020) homes had been constructed on 93 of the 97 lots within Painbrush hills Fil 13 D
    (4) A t the time traffic counts were conducted (December 2020) homes had been constucted on 19 of the 56 tits within Painhush
    (4) A t the time traffic counts were conducted (December 2020) homes had been constructed on 19 of the 561 Iots within Painbrush hills FFil 13 E (west)
    (5) At the time traficic counts were conducted (December 2020) homes had been constructed on 51 of the 102 lots within Painbrush Hills Fiil 13 E (east)

