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# Foundation Lutheran Church Traffic Impact Study <br> EPC PCD File No. SF2321 <br> (LSC \#S234300) <br> October 31, 2023 

## 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.


# Foundation Lutheran Church Traffic Impact Study 

Prepared for:
Ms. Jennifer Zezlina
Rocky Mountain Group
2910 Austin Bluffs Parkway, Suite 100
Colorado Springs, CO 80918

OCTOBER 31, 2023

LSC Transportation Consultants
Prepared by: Jeffrey C. Hodsdon, P.E.
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October 31, 2023

Ms. Jennifer Zezlina
Rocky Mountain Group
2910 Austin Bluffs Parkway, Suite 100
Colorado Springs, CO 80918

RE: Foundation Lutheran Church<br>El Paso County, Colorado<br>Traffic Impact Analysis<br>EPC PCD File No.: SF2321<br>LSC \#S234300

Dear Ms. Zezlina:

In response to your request, LSC Transportation Consultants, Inc. has prepared this traffic impact analysis for the proposed Foundation Lutheran Church development in El Paso County, Colorado. As shown in Figure 1, the site is located southwest of the north Londonderry Drive/Towner Avenue 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 Sunday morning peak hour traffic volumes street conditions.
- Projections of short-term (2024) and long-term (2043) baseline/background traffic volumes.
- The projected average Sunday and Sunday morning peak-hour vehicle-trips to be generated by the church.
- The assignment of the site's projected trips to the adjacent 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 improvements.
- Recommended lane configuration for the site access points.


## PREVIOUS TRAFFIC IMPACT STUDIES

LSC completed the following "master" traffic study for Paint Brush Hills (previously Falcon Hills):

- Falcon Hills [Master] Traffic Impact Study - April 8, 2004

The following are the most recent traffic studies for Paint Brush Hills (previously Falcon Hills) completed in the past 5-6 years.

- Paint Brush Hills Filings 13C and 13D - January 9, 2017
- D-49 Elementary School - May 30, 2017.
- Paint Brush Hills Filing 14 - July 16, 2018
- Paint Brush Hills Filing 13E - October 18, 2018


## STUDY AREA

Key approaches at the following offsite intersections have been evaluated for potential inclusion in the study area using criteria in ECM Appendix B.

- Southern Londonderry \& Towner Intersection
- Towner and Stapleton Intersection
- Londonderry and Meridian Intersection

The evaluation is included in Appendix A. Calculations are shown in Appendix Table 1. The most recent available weekday peak hour traffic counts have been utilized in the percent impact calculation. Those count sheets are also included in Appendix A (note: the "denominator" volumes have undoubtedly increased since 2018/2020, so the evaluation is conservative). The estimated church weekday traffic (estimated in the table) during the same/corresponding peak period has also been utilized in the calculation.

Based on the calculations, the ECM threshold of ten percent impact is not met. Therefore, the intersections have not been added to the study area. Any improvements that have been built or may be required in the future to accommodate weekday AM peak hour traffic, will also be sufficient to accommodate significantly lower Sunday morning peak hour baseline traffic plus site-generated traffic.

## LAND USE AND ACCESS

The proposed Foundation Lutheran Church is located southwest of the north intersection of Londonderry Drive and Towner Avenue. There are existing single-family homes north, west, and south of the site. The Bennett Ranch elementary school is located east of the site.

The proposed church will be 9,730 square feet. The church sanctuary will have 250 seats in the short term and 350 seats in the long term. Currently, one Sunday service is held at 10:45 am at another location. There is the potential for two church services on Sunday morning in the future. These potential future times are unknown at this time. However, other well-established church institutions in the Pikes Peak region, which are holding two Sunday morning services, report scheduled service start times of 9 am and 11am or 9am and 10:30am.

On weekdays, the building will host a preschool which will have a maximum of 80 students. Per the applicant, the preschool parent drop-off and pick-up times will be off-peak from the area schools and general peak traffic times. Therefore, this report focuses on Sunday morning peak hour. The applicant indicates that the expected times and days of the week for the preschool operation are $9 \mathrm{am}-1 \mathrm{pm}$ Monday through Friday.

## Access for the Foundation Lutheran Church

Two full-movement access points are proposed. Access to Londonderry Drive is proposed to align with Triborough Trail (about 302 feet west of Towner Avenue and 502 feet east of Beckham Street). Access to Towner Avenue is proposed to align with the existing metro district driveway on the east side of Towner (about 240 feet south of Londonderry Drive). The site plan is shown in Figure 2.

## Sight Distance

The required intersection sight distance at the site access driveways is 455 feet based on the posted speed of 35 miles per hour per ECM criteria contained in ECM Table 2-35 in Section 2.4.1.D. The line of sight is available to achieve the required sight distance at the new access points.

- The sight distance to the east along Londonderry from the north access is about 625-650 feet.
- The sight distance to the west along Londonderry from the north access is about 950 feet.
- The sight distance to the south along Towner from the east access is at least 900 feet.
- Regarding the sight distance to the north along Towner from the east access, the sight distance for a design speed of 20 mph is 240 feet (A Policy on Geometric Design of Highways and Streets 2018, American Association of State Highway and Transportation Officials, 7th Edition p.9-46, Table 9-7). This is about the same distance looking north from the Towner Access to the Londonderry Intersection to observe a westbound to southbound left turning vehicle (assuming a turning speed of 20 mph ).

Site improvements such as structures, solid fences, landscaping, parking areas, monument signs, etc. must not impede lines of sight required for these required sight distances. Note: The existing transformer located along the south side of Londonderry and east of the proposed access location will not impede the line of sight from the proposed access. It is located about 20 feet
back from the roadway. The driver's eye at the access will be only 10 feet back per table 2-35, footnote No. 1.

The required "Minimum Sight Distance Along Roadway" ECM per Table 2-33 is 225 feet for the 35 mph posted speed limit. This prescribed distance would be met for eastbound and westbound traffic on Londonderry Drive and northbound traffic on Towner Avenue approaching the site access points. For southbound traffic approaching the east access, the stopping sight distance on southbound Towner approaching the site access, based on a vehicle speed having completed a turn from Londonderry (about 25 mph ), would be 155 feet (A Policy on Geometric Design of Highways and Streets 2018, American Association of State Highway and Transportation Officials, 7th Edition p.9-46, Table 9-7). The distance from this point to the access is about 185 feet.

## ROADWAY AND TRAFFIC CONDITIONS

## Area Roadways

The area roadways in the site's vicinity are shown in Figures 1 and are described below.

- Londonderry Drive is a two-lane Urban Residential Collector that currently extends west from Eastonville Road to 2,460 feet west of Towner Avenue and then loops to the south to intersect Towner Avenue again about one-half mile to the south. The posted speed limit adjacent to the site is 35 miles per hour (mph).
- Towner Avenue is a 40 -foot-wide (paved) 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.
- Triborough Trail is a north/south local street that extends north from Londonderry Drive to just east of Beckham Street. The posted speed limit is 25 miles per hour.


## Existing Traffic

Figure 3 shows the current Sunday morning peak hour traffic volumes at the intersections of Londonderry Drive/Towner Avenue and Londonderry Drive/Triborough Trail. These traffic volumes are based on traffic counts conducted by LSC in September 2023. 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 1 shows the level of service delay ranges.

| Intersection Levels of Service Delay Ranges |  |  |  |
| :---: | :---: | :---: | :---: |
|  | Signalized Int | ections | Unsignalized Intersections |
| Level of Service | Average Control Delay (seconds per vehicle) | V/C ${ }^{(1)}$ | Average Control Delay (seconds per vehicle) ${ }^{(2)}$ |
| A | 10.0 sec or less | less than 0.60 | 10.0 sec or less |
| B | $10.1-20.0 \mathrm{sec}$ | 0.60-0.69 | $10.1-15.0$ sec |
| C | $20.1-35.0 \mathrm{sec}$ | 0.70-0.79 | $15.1-25.0 \mathrm{sec}$ |
| D | $35.1-55.0 \mathrm{sec}$ | 0.80-0.89 | $25.1-35.0 \mathrm{sec}$ |
| E | $55.1-80.0 \mathrm{sec}$ | 0.90-0.99 | $35.1-50.0 \mathrm{sec}$ |
| F | 80.1 sec or more | 1.00 and greater | 50.1 sec or more |
| (1) Source: Transportation Research Circular 212 <br> (2) For unsignalized intersections if $\mathrm{V} / \mathrm{C}$ ratio is greater than 1.0 the level of service is LOS F regardless of the projected average control delay per vehicle. |  |  |  |

The intersections of Londonderry Drive and Towner Avenue and Londonderry Drive/Triborough Trail were analyzed to determine the existing levels of service using the unsignalized method of analysis procedures outlined in the Highway Capacity Manual, 6th Edition by the Transportation Research Board.

Figure 3 shows the level of service analysis results. As shown on the figure, all movements these intersections are level of service B or better during the Sunday peak hour. The level of service (LOS) reports are attached.

## TRIP GENERATION

The site-generated vehicle-trips were estimated using the nationally published trip generation rates from Trip Generation, 11th Edition, 2021 by the Institute of Transportation Engineers (ITE).

Table 2 (attached) shows the trip generation estimate for Foundation Lutheran Church.

## Weekdays

As shown in Table 2, the church is expected to generate about 401 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 5 vehicles would enter and 2 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 4 vehicles would enter and 6 vehicles would exit the site.

As the preschool is not planned to operate during the typical peak hours or school peak hours, a separate "peak hour of the generator" analysis was run as shown in Table 4. During the preschool AM peak hour, about 33 vehicles would enter and 30 vehicles would exit the site. During the preschool PM peak hour, about 30 vehicles would enter and 35 vehicles would exit the site.

## Sundays

A church has the highest trip generation on Sundays. Table 4 shows the trip generation estimate for the church on an average Sunday. As presented in the table, the church is estimated to generate about 306 vehicle-trips on the average Sunday, with about half entering and half exiting the site during a Sunday 24 -hour period based on the church square footage of 9,743 square feet.

As mentioned above, ITE trip generation rates have been used for this report. Regarding the Sunday morning peak hour for churches, ITE trip generation rates do not specify the number of Sunday services specifically associated with the data points. However, as both the entering and exiting peak hour trip rates are relatively close in value, this suggests that the rates account for traffic departing a first service and arriving for a second service. The applicant indicates the potential for two services in the future, with both entering and exiting traffic occurring during the same hour. Assuming the potential for two Sunday services, the peak hour would potentially occur between 10 and 11 am with both entering and exiting traffic occurring during the same hour. Note: Churches typically prefer to minimize overlap of the highest flow of traffic departing a first service and highest flow of traffic arriving for the second service. This is primarily due to the efficient use of parking spaces, but benefits traffic flow as well. Note: the analysis in this report assumes a worst-case of minimal stagger by using a low peak hour factor in the level of service analysis.

During the Sunday morning peak hour, about 63 vehicles would enter and 66 vehicles would exit the site based on 250 seats proposed in the short term. In the long term, the church will increase to 350 seats. During the peak hour, the church will then have about 88 vehicles entering and 92 vehicles exiting the site. As the peak hour is higher on Sundays, the following analysis is based on the Sunday morning peak hour instead of a typical weekday peak hour(s) or weekday school peak hours.

## BACKGROUND TRAFFIC

Background traffic is the traffic estimated to be on the area streets and roadways without consideration of the proposed church development.

## Short Term

Figure 3 shows the existing traffic volumes plus minor adjustments to account for a slightly earlier church peak hour if that were to occur.

## Long Term (2043)

Figure 7 shows the projected background traffic volumes for the long term (2024). These volumes are estimates by LSC and take into account the future development of undeveloped lots to the northwest.

## 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 4 shows the short-term and long-term 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 nearby communities and neighborhoods and the balance of the Falcon and northeast Colorado Springs 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.

## SITE-GENERATED TRAFFIC

Figure 5 shows 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 4) to the trip generation estimates from Table 2.

## TOTAL TRAFFIC

Figure 6 shows the projected short-term total traffic volumes. The short-term total traffic volumes are the sum of the existing traffic volumes (from Figure 3) plus the short-term site-generated traffic volumes from Figure 5.

Figure 8 shows the projected 2043 total traffic volumes. The 2043 total traffic volumes are the sum of the 2043 background traffic volumes (from Figure 7) plus the long-term site-generated traffic volumes from Figure 5.

## PROJECTED LEVELS OF SERVICE

The access point intersections and the intersection of Londonderry/Towner 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 3, 6, 7, and 8 show the level of service analysis results. The level of service reports are attached.

## Towner/Londonderry

All movements at the north and south intersections of Towner/Londonderry, Londonderry/Triborough Trail, and the site access intersection on Towner are projected to
operate at LOS A or B during the Sunday morning peak hour based on the projected short-term and 2043 total traffic volumes.

## PEDESTRIAN FACILITIES

The adjacent Londonderry Drive and Towner Avenue generally provides sidewalks or gravel trail connections in the area. The signal at Londonderry/Meridian Road provides a pedestrian crossing location to/from Meridian Ranch to the east. The school crossing location just west of Londonderry/Tottenham Court will also provide a good crossing location pedestrian access to/from the church, as will the south leg of the Londonderry/Towner intersection.

The church site plan shows new sidewalk along both Towner and Londonderry, with pedestrian ramps across the site driveways. Please refer to the CDs and Site Development Plan for additional details. The applicant has indicated that additional ped ramps will be provided at the site access points as required by the county.

## RECOMMENDATIONS

## Auxiliary Lanes

For Urban, Collector streets, with a posted speed limit of 35 mph ( 40 mph design speed), right and left turn deceleration lanes have required deceleration length of 155 feet plus a 160-foot taper. Left turn lanes are also required to include stacking/vehicle storage length. Note: The ECM allows for the potential use of tangent bay tapers with a minimum taper ratio of 8:1 in constrained locations. The minimum ECM bay taper length would be 96 feet.

- Based on the criteria contained in the EI Paso County Engineering Criteria Manual (ECM) and the projected 2043 total traffic volumes, the turning volume threshold of 25 vph would be met during the Sunday morning peak hour at the east access to Towner. Although opposing traffic is expected to be light, LSC recommends restriping the center painted median (currently two sets of dual yellow centerline stripes) to accommodate northbound left turns from Towner into the access driveway. A concept for the recommended restriping is shown in Figure 9.
- Based on the criteria contained in the EI Paso County Engineering Criteria Manual (ECM) and the projected short-term and 2043 total Sunday morning peak hour traffic volumes and the minimum threshold turning volume of 25 vph , no auxiliary turn lanes would be required on Londonderry Drive approaching the north site access. However, review comments have indicated that a left turn would be required. A concept for the recommended restriping is shown in Figure 10.


## Intersection Traffic Control

The site access driveways should be controlled with Stop-signs.

## County Road Impact Fee Program

- The applicant will be required to participate in the County Road Impact Fee Program.
- No PID option is available for this land use. The up-front, full fee would be $\$ 32,810$. This amount is subject to change. Road Impact fees will need to be paid at time of plat recording or at time of building permit.


## Deviations

A deviation request for "access to a Collector street" is included with this submittal. The site only has frontage on two Collector streets, with no ability to access a local street. However, the ECM criteria does not allow private access to a Collector Street. The access points are proposed to align with an existing public street and an existing driveway. Please refer to the deviation request - a separate submittal document.

## CONCLUSIONS AND RECOMMENDATIONS

## Trip Generation

- The Foundation Lutheran Church is expected to generate about 401 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 5 vehicles would enter and 2 vehicles would exit the site. During the afternoon peak hour about 4 vehicles would enter and 6 vehicles would exit the site.
- The peak hours for the preschool, which are anticipated to be off-peak, would result in about 33 vehicles entering and 30 vehicles exiting in the AM peak hour and 30 vehicles entering and 35 vehicles exiting in the PM peak hour.
- On Sunday's, the church is expected to generate about 306 vehicle-trips with about half entering and half exiting the site during a 24 -hour period. In the short-term with 250 seats, about 63 vehicles would enter and 66 vehicles would exit the site. In the long-term with 350 seats, about 88 vehicles would enter and 92 vehicles would exit the site.


## Level of Service

All movements at the access points and study area intersections are projected to operate at LOS A or B during the Sunday morning peak hour through 2043.

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:jas
Enclosures: Table 2
Figures 1-10
Traffic Count Reports
Level of Service Reports

Table 2

Table 2: Trip Generation Estimate


Figures 1-9




Figure 2
Site Plan









## Traffic Counts

# LSC Transportation Consultants, Inc. 

2504 E. Pikes Peak Ave, Suite 304
Colorado Springs, CO 80909
719-633-2868
File Name : Towner Ave N - Londonderry Dr Post-Service Sun
Site Code : S234300
Start Date : 9/10/2023
Page No : 1

Groups Printed- Unshifted

|  | Southbound |  |  |  |  | Londonderry Dr Westbound |  |  |  |  | Towner Ave N Northbound |  |  |  |  | Londonderry Dr Eastbound |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Start Time | Right | Thru | Left | Peds | App. Toal | Right | Thru | Left | Peds | App. Toal | Right | Thru | Left | Peds | App. Toal | Right | Thru | Left | Peds | App. Toala | Int. Total |
| 10:45 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 1 | 0 | 4 | 1 | 0 | 2 | 0 | 3 | 1 | 5 | 0 | 0 | 6 | 13 |
| 10:50 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 4 | 1 | 0 | 2 | 0 | 3 | 0 | 1 | 0 | 0 | 1 | 8 |
| 10:55 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 0 | 4 | 1 | 0 | 2 | 0 | 3 | 1 | 6 | 0 | 0 | 7 | 14 |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 3 | 0 | 12 | 3 | 0 | , | 0 | 9 | 2 | 12 |  | 0 | 14 | 35 |


| $11: 00$ | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 2 | 1 | 0 | 0 | 0 | 1 | 2 | 3 | 0 | 0 | 5 | 8 |
| ---: | ---: | :--- | :--- | :--- | :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| $11: 05$ | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 1 | 0 | 4 | 0 | 0 | 1 | 0 | 1 | 1 | 2 | 0 | 0 | 3 | 8 |
| 1110 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 1 | 5 | 0 | 0 | 6 | 8 |
| 1115 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 1 | 0 | 2 | 0 | 3 | 1 | 3 | 0 | 0 | 4 | 8 |
| $11: 20$ | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 0 | 5 | 0 | 0 | 3 | 0 | 3 | 0 | 3 | 0 | 0 | 3 | 11 |
| $11: 25$ | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 1 | 0 | 4 | 2 | 0 | 0 | 0 | 2 | 0 | 1 | 0 | 0 | 1 | 7 |
| $11: 30$ | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 0 | 3 | 1 | 0 | 0 | 0 | 1 | 1 | 5 | 0 | 0 | 6 | 10 |
| $11: 35$ | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 2 | 3 | 0 | 0 | 0 | 3 | 0 | 4 | 0 | 0 | 4 | 9 |
| $11: 40$ | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 0 | 0 | 6 | 1 | 0 | 1 | 0 | 2 | 0 | 5 | 0 | 0 | 5 | 13 |
| Grand Total | 0 | 0 | 0 | 0 | 0 | 0 | 35 | 6 | 0 | 41 | 12 | 0 | 13 | 0 | 25 | 8 | 43 | 0 | 0 | 51 | 117 |
| Apprch \% | 0 | 0 | 0 | 0 |  | 0 | 85.4 | 14.6 | 0 |  | 48 | 0 | 52 | 0 |  | 15.7 | 84.3 | 0 | 0 |  |  |
| Total \% | 0 | 0 | 0 | 0 | 0 | 0 | 29.9 | 5.1 | 0 | 35 | 10.3 | 0 | 11.1 | 0 | 21.4 | 6.8 | 36.8 | 0 | 0 | 43.6 |  |

# LSC Transportation Consultants, Inc. 

2504 E. Pikes Peak Ave, Suite 304
Colorado Springs, CO 80909 719-633-2868

File Name : Towner Ave N - Londonderry Dr Post-Service Sun Site Code : S234300
Start Date : 9/10/2023
Page No : 2

|  | Southbound |  |  |  |  | Londonderry Dr Westbound |  |  |  |  | Towner Ave N Northbound |  |  |  |  | Londonderry Dr Eastbound |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Start Time | Right | Thru | Left | Peds | App. Toal | Right | Thru | Left | Peds | App. Toal | Right | Thru | Left | Peds | App | Right | Thru | Left | Peds | App. Toal | int. Total |

Peak Hour Analysis From 10:45 to 11:40-Peak 1 of 1
Peak Hour for Entire Intersection Begins at 10:45

| 10:45 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 1 | 0 | 4 | 1 | 0 | 2 | 0 | 3 | 1 | 5 | 0 | 0 | 6 | 13 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 10:50 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 4 | 1 | 0 | 2 | 0 | 3 | 0 | 1 | 0 | 0 | 1 | 8 |
| 10:55 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 0 | 4 | 1 | 0 | 2 | 0 | 3 | 1 | 6 | 0 | 0 | 7 | 14 |
| 11:00 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 2 | 1 | 0 | 0 | 0 | 1 | 2 | 3 | 0 | 0 | 5 | 8 |
| 11:05 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 1 | 0 | 4 | 0 | 0 | 1 | 0 | 1 | 1 | 2 | 0 | 0 | 3 | 8 |
| 11:10 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 1 | 5 | 0 | 0 | 6 | 8 |
| 11:15 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 1 | 0 | 2 | 0 | 3 | 1 | 3 | 0 | 0 | 4 | 8 |
| 11:20 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 0 | 5 | 0 | 0 | 3 | 0 | 3 | 0 | 3 | 0 | 0 | 3 | 11 |
| 11:25 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 1 | 0 | 4 | 2 | 0 | 0 | 0 | 2 | 0 | 1 | 0 | 0 | 1 | 7 |
| 11:30 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 0 | 3 | 1 | 0 | 0 | 0 | 1 | 1 | 5 | 0 | 0 | 6 | 10 |
| 11:35 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 2 | 3 | 0 | 0 | 0 | 3 | 0 | 4 | 0 | 0 | 4 | 9 |
| 11:40 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 0 | 0 | 6 | 1 | 0 | 1 | 0 | 2 | 0 | 5 | 0 | 0 | 5 | 13 |
| Total Volume | 0 | 0 | 0 | 0 | 0 | 0 | 35 | 6 | 0 | 41 | 12 | 0 | 13 | 0 | 25 | 8 | 43 | 0 | 0 | 51 | 117 |
| \% App. Total | 0 | 0 | 0 | 0 |  | 0 | 85.4 | 14.6 | 0 |  | 48 | 0 | 52 | 0 |  | 15.7 | 84.3 | 0 | 0 |  |  |
| PHF | . 000 | . 000 | . 000 | . 000 | . 000 | . 000 | . 486 | . 250 | . 000 | . 569 | . 333 | . 000 | . 361 | . 000 | . 694 | . 333 | . 597 | . 000 | . 000 | . 607 | . 696 |



# LSC Transportation Consultants, Inc. 

2504 E. Pikes Peak Ave, Suite 304
Colorado Springs, CO 80909
719-633-2868
File Name : Towner Ave N - Londonderry Dr Post-Service Sun
Site Code : S234300
Start Date : 9/10/2023
Page No : 3

|  | Southbound |  |  |  |  | Londonderry Dr Westbound |  |  |  |  | Towner Ave N Northbound |  |  |  |  | Londonderry Dr Eastbound |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Start Time | Right | Thru | Left | Peds | App. Toal | Right | Thru | Left | Peds | Toal | Right | Thru | Left | Peds | App. Toal | Right | Thru | Left | Peds | App. Toal |  |

Peak Hour Analysis From 10:45 to 11:40-Peak 1 of 1
Peak Hour for Each Approach Begins at:

|  | 10:45 |  |  |  |  | 10:45 |  |  |  |  | 10:45 |  |  |  |  | 10:45 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| +0 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 1 | 0 | 4 | 1 | 0 | 2 | 0 | 3 | 1 | 5 | 0 | 0 | 6 |
| +5 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 4 | 1 | 0 | 2 | 0 | 3 | 0 | 1 | 0 | 0 | 1 |
| +10 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 0 | 4 | 1 | 0 | 2 | 0 | 3 | 1 | 6 | 0 | 0 | 7 |
| +15 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 2 | 1 | 0 | 0 | 0 | 1 | 2 | 3 | 0 | 0 | 5 |
| +20 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 1 | 0 | 4 | 0 | 0 | 1 | 0 | 1 | 1 | 2 | 0 | 0 | 3 |
| +25 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 1 | 5 | 0 | 0 | 6 |
| +30 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 1 | 0 | 2 | 0 | 3 | 1 | 3 | 0 | 0 | 4 |
| +35 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 0 | 5 | 0 | 0 | 3 | 0 | 3 | 0 | 3 | 0 | 0 | 3 |
| +40 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 1 | 0 | 4 | 2 | 0 | 0 | 0 | 2 | 0 | 1 | 0 | 0 | 1 |
| +45 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 0 | 3 | 1 | 0 | 0 | 0 | 1 | 1 | 5 | 0 | 0 | 6 |
| +50 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 2 | 3 | 0 | 0 | 0 | 3 | 0 | 4 | 0 | 0 | 4 |
| +55 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 0 | 0 | 6 | 1 | 0 | 1 | 0 | 2 | 0 | 5 | 0 | 0 | 5 |
| Total Volume | 0 | 0 | 0 | 0 | 0 | 0 | 35 | 6 | 0 | 41 | 12 | 0 | 13 | 0 | 25 | 8 | 43 | 0 | 0 | 51 |
| \% App. Total | 0 | 0 | 0 | 0 |  | 0 | 85.4 | 14.6 | 0 |  | 48 | 0 | 52 | 0 |  | 15.7 | 84.3 | 0 | 0 |  |
| PHF | . 000 | . 000 | . 000 | . 000 | . 000 | . 000 | . 486 | . 250 | . 000 | . 569 | . 333 | . 000 | . 361 | . 000 | . 694 | . 333 | . 597 | . 000 | . 000 | . 607 |



# LSC Transportation Consultants, Inc. 

2504 E. Pikes Peak Ave, Suite 304
Colorado Springs, CO 80909
719-633-2868
File Name : Towner Ave N - Londonderry Dr Pre-Service Sun Site Code : S234300
Start Date: 9/10/2023
Page No : 1

Groups Printed- Unshifted

|  | Southbound |  |  |  |  | Londonderry Dr Westbound |  |  |  |  | Towner Dr N Northbound |  |  |  |  | Londonderry Dr Eastbound |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Start Time | Right | Thru | Left | Peds | App. Toal | Right | Thru | Left | Peds | App. Toal | Right | Thru | Left | Peds | App. Toal | Right | Thru | Left | Peds | App. Toal | Int. Total |
| 09:15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 3 |
| 09:20 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 2 | 0 | 1 | 0 | 3 | 0 | 4 | 0 | 0 | 4 | 8 |
| 09:25 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 0 | 5 | 0 | 0 | 2 | 0 | 2 | 0 | 1 | 0 | 0 | 1 | 8 |
| 09:30 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 0 | 0 | 6 | 10 |
| 09:35 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 2 | 0 | 0 | 1 | 0 | 1 | 1 | 2 | 0 | 0 | 3 | 6 |
| 09:40 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 4 | 1 | 0 | 0 | 0 | 1 | 0 | 4 | 0 | 0 | 4 | 9 |
| 09:45 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 0 | 3 | 0 | 0 | 1 | 0 | 1 | 1 | 2 | 0 | 0 | 3 | 7 |
| 09:50 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 1 | 0 | 4 | 2 | 0 | 1 | 0 | 3 | 1 | 5 | 0 | 0 | 6 | 13 |
| 09:55 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 4 | 4 | 0 | 0 | 0 | 4 | 4 | 3 | 0 | 0 | 7 | 15 |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 23 | 5 | 0 | 28 | 9 | 1 | 6 | 0 | 16 | 8 | 27 | 0 | 0 | 35 | 79 |


| $10: 00$ | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 3 | 1 | 0 | 0 | 0 | 1 | 0 | 8 | 0 | 0 | 8 | 12 |
| ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| $10: 05$ | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 2 | 1 | 0 | 0 | 0 | 1 | 1 | 4 | 0 | 0 | 5 | 8 |
| $10: 10$ | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 2 | 6 | 0 | 0 | 8 | 10 |
| Grand Total | 0 | 0 | 0 | 0 | 0 | 0 | 28 | 6 | 0 | 34 | 12 | 1 | 6 | 0 | 19 | 11 | 45 | 0 | 0 | 56 | 109 |
| Apprch \% | 0 | 0 | 0 | 0 |  | 0 | 82.4 | 17.6 | 0 |  | 63.2 | 5.3 | 31.6 | 0 |  | 19.6 | 80.4 | 0 | 0 |  |  |

# LSC Transportation Consultants, Inc. 

2504 E. Pikes Peak Ave, Suite 304
Colorado Springs, CO 80909
719-633-2868
File Name : Towner Ave N - Londonderry Dr Pre-Service Sun Site Code : S234300 Start Date : 9/10/2023 Page No : 2

|  | Southbound |  |  |  |  | Londonderry Dr Westbound |  |  |  |  | Towner Dr N Northbound |  |  |  |  | Londonderry Dr Eastbound |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Start Time | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Int. Total |
| Peak Hour Analysis From 09:15 to 10:10-Peak 1 of 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Peak Hour | or Ent | re Int | rsect | on Be | ins at | 09:15 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 09:15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 3 |
| 09:20 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 2 | 0 | 1 | 0 | 3 | 0 | 4 | 0 | 0 | 4 | 8 |
| 09:25 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 0 | 5 | 0 | 0 | 2 | 0 | 2 | 0 | 1 | 0 | 0 | 1 | 8 |
| 09:30 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 0 | 0 | 6 | 10 |
| 09:35 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 2 | 0 | 0 | 1 | 0 | 1 | 1 | 2 | 0 | 0 | 3 | 6 |
| 09:40 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 4 | 1 | 0 | 0 | 0 | 1 | 0 | 4 | 0 | 0 | 4 | 9 |
| 09:45 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 0 | 3 | 0 | 0 | 1 | 0 | 1 | 1 | 2 | 0 | 0 | 3 | 7 |
| 09:50 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 1 | 0 | 4 | 2 | 0 | 1 | 0 | 3 | 1 | 5 | 0 | 0 | 6 | 13 |
| 09:55 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 4 | 4 | 0 | 0 | 0 | 4 | 4 | 3 | 0 | 0 | 7 | 15 |
| 10:00 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 3 | 1 | 0 | 0 | 0 | 1 | 0 | 8 | 0 | 0 | 8 | 12 |
| 10:05 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 2 | 1 | 0 | 0 | 0 | 1 | 1 | 4 | 0 | 0 | 5 | 8 |
| 10:10 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 2 | 6 | 0 | 0 | 8 | 10 |
| Total Volume | 0 | 0 | 0 | 0 | 0 | 0 | 28 | 6 | 0 | 34 | 12 | 1 | 6 | 0 | 19 | 11 | 45 | 0 | 0 | 56 | 109 |
| \% App. Total | 0 | 0 | 0 | 0 |  | 0 | 82.4 | 17.6 | 0 |  | 63.2 | 5.3 | 31.6 | 0 |  | 19.6 | 80.4 | 0 | 0 |  |  |
| PHF | . 000 | . 000 | . 000 | . 000 | . 000 | . 000 | . 467 | . 250 | . 000 | . 567 | . 250 | . 083 | . 250 | . 000 | . 396 | . 229 | . 469 | . 000 | . 000 | . 583 | . 606 |



# LSC Transportation Consultants, Inc. 

2504 E. Pikes Peak Ave, Suite 304
Colorado Springs, CO 80909
719-633-2868
File Name : Towner Ave N - Londonderry Dr Pre-Service Sun Site Code : S234300 Start Date : 9/10/2023
Page No : 3


Peak Hour Analysis From 09:15 to 10:10-Peak 1 of 1
Peak Hour for Each Approach Begins at:

|  | 09:15 |  |  |  |  | 09:15 |  |  |  |  | 09:15 |  |  |  |  | 09:15 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| +0 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 1 |
| +5 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 2 | 0 | 1 | 0 | 3 | 0 | 4 | 0 | 0 | 4 |
| +10 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 0 | 5 | 0 | 0 | 2 | 0 | 2 | 0 | 1 | 0 | 0 | 1 |
| +15 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 0 | 0 | 6 |
| +20 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 2 | 0 | 0 | 1 | 0 | 1 | 1 | 2 | 0 | 0 | 3 |
| +25 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 4 | 1 | 0 | 0 | 0 | 1 | 0 | 4 | 0 | 0 | 4 |
| +30 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 0 | 3 | 0 | 0 | 1 | 0 | 1 | 1 | 2 | 0 | 0 | 3 |
| +35 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 1 | 0 | 4 | 2 | 0 | 1 | 0 | 3 | 1 | 5 | 0 | 0 | 6 |
| +40 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 4 | 4 | 0 | 0 | 0 | 4 | 4 | 3 | 0 | 0 | 7 |
| +45 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 3 | 1 | 0 | 0 | 0 | 1 | 0 | 8 | 0 | 0 | 8 |
| +50 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 2 | 1 | 0 | 0 | 0 | 1 | 1 | 4 | 0 | 0 | 5 |
| +55 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 2 | 6 | 0 | 0 | 8 |
| Total Volume | 0 | 0 | 0 | 0 | 0 | 0 | 28 | 6 | 0 | 34 | 12 | 1 | 6 | 0 | 19 | 11 | 45 | 0 | 0 | 56 |
| \% App. Total | 0 | 0 | 0 | 0 |  | 0 | 82.4 | 17.6 | 0 |  | 63.2 | 5.3 | 31.6 | 0 |  | 19.6 | 80.4 | 0 | 0 |  |
| PHF | . 000 | . 000 | . 000 | . 000 | . 000 | . 000 | . 467 | . 250 | . 000 | . 567 | . 250 | . 083 | . 250 | . 000 | . 396 | . 229 | . 469 | . 000 | . 000 | . 583 |



# LSC Transportation Consultants, Inc. 

2504 E. Pikes Peak Ave, Suite 304
Colorado Springs, CO 80909
719-633-2868
File Name : Triborough Trl - Londonderry Dr Post Service Sun
Site Code : S234300
Start Date : 9/10/2023
Page No : 1

| Note: Includes Left and Right Turning |
| :--- |
| Movements Only. Thru movements |
| shown in the report reflect volume |
| balancing with the count at the |
| Londonderry/Towner intersection. |

Groups Printed- Bank 1

|  | Triborough TrI Southbound |  |  |  |  | Londonderry Dr Westbound |  |  |  |  | Northbound |  |  |  |  | Londonderry Dr Eastbound |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Start Time | Right | Thru | Left | Peds | App. Toal | Right | Thru | Left | Peds | App. Toal | Right | Thru | Left | Peds | Ap. Toal | Right | Thru | Left | Peds | App. Toalal | Int. Total |
| 10:45 | 0 | 0 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 10:50 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 10:55 | 0 | 0 | 3 | 0 | 3 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| Total | 0 | 0 | 4 | 0 | 4 | 5 | 0 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 |


| 11:00 | 0 | 0 | 3 | 0 | 3 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 11:05 | 0 | 0 | 2 | 0 | 2 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 11:10 | 0 | 0 | 3 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 11:15 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| *** BREAK *** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 11:25 | 0 | 0 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 11:30 | 0 | 0 | 3 | 0 | 3 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| *** BREAK *** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 11:40 | 0 | 0 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| Grand Total | 0 | 0 | 17 | 0 | 17 | 12 | 0 | 0 | 0 | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 29 |
| Apprch \% | 0 | 0 | 100 | 0 |  | 100 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 |  |  |
| Total \% | 0 | 0 | 58.6 | 0 | 58.6 | 41.4 | 0 | 0 | 0 | 41.4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |  |

# LSC Transportation Consultants, Inc. 

2504 E. Pikes Peak Ave, Suite 304
Colorado Springs, CO 80909
719-633-2868
File Name : Triborough Trl-Londonderry Dr Post Service Sun
Site Code : S234300
Start Date : 9/10/2023
Page No : 2

Note: Includes Left and Right Turning Movements Only. Thru movements shown in the report reflect volume balancing with the count at the Londonderry/Towner intersection.

|  | Triborough TrI Southbound |  |  |  |  | Londonderry Dr Westbound |  |  |  |  | Northbound |  |  |  |  | Londonderry Dr Eastbound |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Start Time | Right | Thru | Left | Peds | App. Toal | Right | Thru | Left | Peds | App. Toal | Right | Thru | Left | Peds | App. Toal | Right | Thru | Left | Peds | App. Toaal | Int. Total |

Peak Hour Analysis From 10:45 to 11:40-Peak 1 of 1
Peak Hour for Entire Intersection Begins at 10:45

| 10:45 | 0 | 0 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 10:50 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 10:55 | 0 | 0 | 3 | 0 | 3 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| 11:00 | 0 | 0 | 3 | 0 | 3 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| 11:05 | 0 | 0 | 2 | 0 | 2 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 11:10 | 0 | 0 | 3 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 11:15 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 11:20 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 11:25 | 0 | 0 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 11:30 | 0 | 0 | 3 | 0 | 3 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| 11:35 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 11:40 | 0 | 0 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| Total Volume | 0 | 0 | 17 | 0 | 17 | 12 | 0 | 0 | 0 | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 29 |
| \% App. Total | 0 | 0 | 100 | 0 |  | 100 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 |  |  |
| PHF | . 000 | . 000 | . 472 | . 000 | . 472 | . 333 | . 000 | . 000 | . 000 | . 333 | . 000 | . 000 | . 000 | . 000 | . 000 | . 000 | . 000 | . 000 | . 000 | . 000 | . 604 |



## LSC Transportation Consultants, Inc.

2504 E. Pikes Peak Ave, Suite 304
Colorado Springs, CO 80909
719-633-2868
File Name : Triborough Trl - Londonderry Dr Post Service Sun
Site Code : S234300 Note: Includes Left and Right Turning
Start Date : 9/10/2023 Movements Only. Thru movements Page No : 3 shown in the report reflect volume balancing with the count at the Londonderry/Towner intersection.

|  | Triborough Trl Southbound |  |  |  |  | Londonderry Dr Westbound |  |  |  |  | Northbound |  |  |  |  | Londonderry Dr Eastbound |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Start Time | Right | Thru | Left | Peds | App. Toal | Right | Thru | Left | Peds | App. Toal | Right | Thru | Left | Peds | App. Toal | Right | Thru | Left | Peds | App. Toal | Int. Total |

Peak Hour Analysis From 10:45 to 11:40-Peak 1 of 1
Peak Hour for Each Approach Begins at:

|  | 10:45 |  |  |  |  | 10:45 |  |  |  |  | 10:45 |  |  |  |  | 10:45 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| +0 mins. | 0 | 0 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| +5 mins. | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| +10 mins. | 0 | 0 | 3 | 0 | 3 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| +15 mins. | 0 | 0 | 3 | 0 | 3 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| +20 mins. | 0 | 0 | 2 | 0 | 2 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| +25 mins. | 0 | 0 | 3 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| +30 mins. | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| +35 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| +40 mins. | 0 | 0 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| +45 mins. | 0 | 0 | 3 | 0 | 3 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| +50 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| +55 mins. | 0 | 0 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Volume | 0 | 0 | 17 | 0 | 17 | 12 | 0 | 0 | 0 | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| \% App. Total | 0 | 0 | 100 | 0 |  | 100 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 |  |
| PHF | . 000 | . 000 | . 472 | . 000 | . 472 | . 333 | . 000 | . 000 | . 000 | . 333 | . 000 | . 000 | . 000 | . 000 | . 000 | . 000 | . 000 | . 000 | . 000 | . 000 |



# LSC Transportation Consultants, Inc. 

2504 E. Pikes Peak Ave, Suite 304
Colorado Springs, CO 80909
719-633-2868
File Name : Triborough Trl - Londonderry Dr Pre-Service Sun
Site Code : S234300
Start Date : 9/10/2023 Page No : 1

Note: Includes Left and Right Turning Movements Only. Thru movements shown in the report reflect volume balancing with the count at the Londonderry/Towner intersection.

Groups Printed- Bank 1

|  | Triborough Trl Southbound |  |  |  |  | Londonderry Dr Westbound |  |  |  |  | Northbound |  |  |  |  | Londonderry Dr Eastbound |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Start Time | Right | Thru | Left | Peds | App. Toal | Right | Thru | Left | Peds | App. Toal | Right | Thru | Left | Peds | App. Toal | Right | Thru | Left | Peds | App. Toala | Int. Total |
| 09:15 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 09:20 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 09:25 | 0 | 0 | 2 | 0 | 2 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 09:30 | 0 | 0 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 09:35 | 0 | 0 | 2 | 0 | 2 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 09:40 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 09:45 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 09:50 | 0 | 0 | 2 | 0 | 2 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 09:55 | 0 | 0 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| Total | 0 | 0 | 12 | 0 | 12 | 5 | 0 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 17 |
| 10:00 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| *** BREAK |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10:10 | 0 | 0 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| Grand Total | 0 | 0 | 14 | 0 | 14 | 7 | 0 | 0 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 21 |
| Apprch \% | 0 | 0 | 100 | 0 |  | 100 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 |  |  |
| Total \% | 0 | 0 | 66.7 | 0 | 66.7 | 33.3 | 0 | 0 | 0 | 33.3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |  |

# LSC Transportation Consultants, Inc. 

2504 E. Pikes Peak Ave, Suite 304
Colorado Springs, CO 80909
719-633-2868
File Name : Triborough Trl - Londonderry Dr Pre-Service Sun
Site Code : S234300
Start Date : 9/10/2023
Page No : 2
Note: Includes Left and Right Turning Movements Only. Thru movements shown in the report reflect volume balancing with the count at the Londonderry/Towner intersection.

|  | Triborough TrI Southbound |  |  |  |  | Londonderry Dr Westbound |  |  |  |  | Northbound |  |  |  |  | Londonderry Dr Eastbound |  |  |  |  | Int. Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Start Time | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total |  |
| Peak Hour Analysis From 09:15 to 10:10-Peak 1 of 1 <br> Peak Hour for Entire Intersection Begins at 09:15 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 09:15 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 09:20 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 09:25 | 0 | 0 | 2 | 0 | 2 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 09:30 | 0 | 0 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 09:35 | 0 | 0 | 2 | 0 | 2 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 09:40 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 09:45 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 09:50 | 0 | 0 | 2 | 0 | 2 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 09:55 | 0 | 0 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 10:00 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 10:05 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10:10 | 0 | 0 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| Total Volume | 0 | 0 | 14 | 0 | 14 | 7 | 0 | 0 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 21 |
| \% App. Total | 0 | 0 | 100 | 0 |  | 100 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 |  |  |
| PHF | . 000 | . 000 | . 583 | . 000 | . 583 | . 292 | . 000 | . 000 | . 000 | . 292 | . 000 | . 000 | . 000 | . 000 | . 000 | . 000 | . 000 | . 000 | . 000 | . 000 | . 583 |



# LSC Transportation Consultants, Inc. 

2504 E. Pikes Peak Ave, Suite 304
Colorado Springs, CO 80909
719-633-2868
File Name : Triborough Trl - Londonderry Dr Pre-Service Sun
Site Code : S234300 Note: Includes Left and Right Turning
Start Date : 9/10/2023
Page No : 3 Movements Only. Thru movements shown in the report reflect volume balancing with the count at the Londonderry/Towner intersection.

|  | Triborough TrI Southbound |  |  |  |  | Londonderry Dr Westbound |  |  |  |  | Northbound |  |  |  |  | Londonderry Dr Eastbound |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Start Time | Right | Thru | Left | Peds | Apoo Toal | Right | Thru | Left | Peds | Apo. Toal | Right | Thru | Left | Peds | App. Toal | Right | Thru | Left | Peds | App. Toala | Int. Total |

Peak Hour Analysis From 09:15 to 10:10-Peak 1 of 1
Peak Hour for Each Approach Begins at:

|  | 09:15 |  |  |  |  | 09:15 |  |  |  |  | 09:15 |  |  |  |  | 09:15 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| +0 mins. | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| +5 mins. | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| +10 mins. | 0 | 0 | 2 | 0 | 2 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| +15 mins. | 0 | 0 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| +20 mins. | 0 | 0 | 2 | 0 | 2 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| +25 mins. | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| +30 mins. | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| +35 mins. | 0 | 0 | 2 | 0 | 2 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| +40 mins. | 0 | 0 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| +45 mins. | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| +50 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| +55 mins. | 0 | 0 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Volume | 0 | 0 | 14 | 0 | 14 | 7 | 0 | 0 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| \% App. Total | 0 | 0 | 100 | 0 |  | 100 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 |  |
| PHF | . 000 | . 000 | . 583 | . 000 | . 583 | . 292 | . 000 | . 000 | . 000 | . 292 | . 000 | . 000 | . 000 | . 000 | . 000 | . 000 | . 000 | . 000 | . 000 | . 000 |



| Intersection |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: |
| Int Delay, s/veh | 2.1 |  |  |  |  |  |
| Movement | EBT | EBR | WBL | WBT | NBL | NBR |
| Lane Configurations | $\uparrow$ |  | 1 | 个 | $\mathbf{r}$ | $\mathbf{7}$ |
| Traffic Vol, veh/h | 50 | 15 | 6 | 35 | 13 | 12 |
| Future Vol, veh/h | 50 | 15 | 6 | 35 | 13 | 12 |
| Conflicting Peds, \#/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | - | - | 0 | - | 0 | 0 |
| Veh in Median Storage, \# | 0 | - | - | 0 | 0 | - |
| Grade, \% | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 78 | 78 | 78 | 78 | 75 | 75 |
| Heavy Vehicles, \% | 0 | 0 | 0 | 0 | 0 | 0 |
| Mvmt Flow | 64 | 19 | 8 | 45 | 17 | 16 |



| Intersection |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: |
| Int Delay, s/veh | 1.7 |  |  |  |  |  |
| Movement | EBL | EBT | WBT | WBR | SBL | SBR |
| Lane Configurations |  | -1 | $\mathbf{T}$ |  | M |  |
| Traffic Vol, veh/h | 0 | 45 | 33 | 15 | 20 | 0 |
| Future Vol, veh/h | 0 | 45 | 33 | 15 | 20 | 0 |
| Conflicting Peds, \#/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | - | - | - | - | 0 | - |
| Veh in Median Storage, \# | - | 0 | 0 | - | 0 | - |
| Grade, \% | - | 0 | 0 | - | 0 | - |
| Peak Hour Factor | 78 | 78 | 78 | 78 | 75 | 75 |
| Heavy Vehicles, \% | 0 | 0 | 0 | 0 | 0 | 0 |
| Mvmt Flow | 0 | 58 | 42 | 19 | 27 | 0 |


| Major/Minor | Major1 |  |  |  | inor2 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Conflicting Flow All | 61 | 0 | - | 0 | 110 | 52 |
| Stage 1 | - | - | - | - | 52 | - |
| Stage 2 | - | - | - | - | 58 | - |
| Critical Hdwy | 4.1 | - | - | - | 6.4 | 6.2 |
| Critical Hdwy Stg 1 | - | - | - | - | 5.4 | - |
| Critical Hdwy Stg 2 | - | - | - | - | 5.4 | - |
| Follow-up Hdwy | 2.2 | - | - | - | 3.5 | 3.3 |
| Pot Cap-1 Maneuver | 1555 | - | - | - | 892 | 1021 |
| Stage 1 | - | - | - | - | 976 | - |
| Stage 2 | - | - | - | - | 970 | - |
| Platoon blocked, \% |  | - | - | - |  |  |
| Mov Cap-1 Maneuver | 1555 | - | - | - | 892 | 1021 |
| Mov Cap-2 Maneuver | - | - | - | - | 892 | - |
| Stage 1 | - | - | - | - | 976 | - |
| Stage 2 | - | - | - | - | 970 | - |
|  |  |  |  |  |  |  |
| Approach | EB |  | B |  | SB |  |
| HCM Control Delay, s | 0 |  | 0 |  | 9.2 |  |
| HCM LOS |  |  |  |  | A |  |
|  |  |  |  |  |  |  |
| Minor Lane/Major Mvmt |  | EBL | EBT |  | WBR | BLn1 |
| Capacity (veh/h) |  | 1555 | - | - | - | 892 |
| HCM Lane V/C Ratio |  | - | - | - | - | 0.03 |
| HCM Control Delay (s) |  | 0 | - | - | - | 9.2 |
| HCM Lane LOS |  | A | - | - | - | A |
| HCM 95th \%tile Q(veh) |  | 0 | - | - |  | 0.1 |



| Major/Minor | Minor1 | Major1 |  | Major2 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Conflicting Flow All | 61 | 33 | 0 | 0 | 33 | 0 |  |
| Stage 1 | 33 | - | - | - | - | - |  |
| Stage 2 | 28 | - | - | - | - | - |  |
| Critical Hdwy | 6.4 | 6.2 | - | - | 4.1 | - |  |
| Critical Hdwy Stg 1 | 5.4 | - | - | - | - | - |  |
| Critical Hdwy Stg 2 | 5.4 | - | - | - | - | - |  |
| Follow-up Hdwy | 3.5 | 3.3 | - | - | 2.2 | - |  |
| Pot Cap-1 Maneuver | 950 | 1046 | - | - | 1592 | - |  |
| Stage 1 | 995 | - | - | - | - | - |  |
| Stage 2 | 1000 | - | - | - | - | - |  |
| Platoon blocked, \% |  |  | - | - |  | - |  |
| Mov Cap-1 Maneuver | 950 | 1046 | - | - | 1592 | - |  |
| Mov Cap-2 Maneuver | 950 | - | - | - | - | - |  |
| Stage 1 | 995 | - | - | - | - | - |  |
| Stage 2 | 1000 | - | - | - | - | - |  |
|  |  |  |  |  |  |  |  |
| Approach | WB |  | NB |  | SB |  |  |
| HCM Control Delay, s | 0 |  | 0 |  | 0 |  |  |
| HCM LOS | A |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| Minor Lane/Major Mvmt |  | NBT | NBRWBLn1 |  | SBL | SBT |  |
| Capacity (veh/h) |  | - | - | - | 1592 | - |  |
| HCM Lane V/C Ratio |  | - | - | - | - | - |  |
| HCM Control Delay (s) |  | - | - | 0 | 0 | - |  |
| HCM Lane LOS |  | - | - | A | A | - |  |
| HCM 95th \%tile Q(veh) |  | - | - | - | 0 | - |  |


| Intersection |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: |
| Int Delay, s/veh | 2.2 |  |  |  |  |  |
| Movement | EBT | EBR | WBL | WBT | NBL | NBR |
| Lane Configurations | 7 |  | 1 | 个 | r | $\mathbf{7}$ |
| Traffic Vol, veh/h | 75 | 15 | 17 | 60 | 13 | 26 |
| Future Vol, veh/h | 75 | 15 | 17 | 60 | 13 | 26 |
| Conflicting Peds, \#/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | - | - | 0 | - | 0 | 0 |
| Veh in Median Storage, \# | 0 | - | - | 0 | 0 | - |
| Grade, \% | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 60 | 60 | 60 | 60 | 75 | 75 |
| Heavy Vehicles, \% | 0 | 0 | 0 | 0 | 0 | 0 |
| Mvmt Flow | 125 | 25 | 28 | 100 | 17 | 35 |



| Intersection |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Int Delay, s/veh | 4.5 |  |  |  |  |  |  |  |  |  |  |  |  |
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |  |
| Lane Configurations |  | $\uparrow$ |  |  | $\uparrow$ |  |  | ¢ |  |  | ¢ |  |  |
| Traffic Vol, veh/h | 0 | 45 | 2 | 25 | 33 | 15 | 1 | 1 | 25 | 20 | 1 | 0 |  |
| Future Vol, veh/h | 0 | 45 | 2 | 25 | 33 | 15 | 1 | 1 | 25 | 20 | 1 | 0 |  |
| 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 | 78 | 78 | 50 | 50 | 78 | 78 | 50 | 50 | 50 | 75 | 50 | 75 |  |
| Heavy Vehicles, \% | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |  |
| Mvmt Flow | 0 | 58 | 4 | 50 | 42 | 19 | 2 | 2 | 50 | 27 | 2 | 0 |  |





| Intersection |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: |
| Int Delay, s/veh | 3.7 |  |  |  |  |  |
| Movement | EBT | EBR | WBL | WBT | NBL | NBR |
| Lane Configurations | $\uparrow$ |  | 1 | 4 | a | $\mathbf{F}$ |
| Traffic Vol, veh/h | 60 | 25 | 25 | 50 | 35 | 30 |
| Future Vol, veh/h | 60 | 25 | 25 | 50 | 35 | 30 |
| Conflicting Peds, \#/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | - | - | 0 | - | 0 | 0 |
| Veh in Median Storage, \# | 0 | - | - | 0 | 0 | - |
| Grade, \% | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 82 | 82 | 75 | 78 | 76 | 76 |
| Heavy Vehicles, \% | 0 | 0 | 0 | 0 | 0 | 0 |
| Mvmt Flow | 73 | 30 | 33 | 64 | 46 | 39 |



| Intersection |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: |
| Int Delay, s/veh | 1.2 |  |  |  |  |  |
| Movement | EBL | EBT | WBT | WBR | SBL | SBR |
| Lane Configurations |  |  | $\uparrow$ |  | r |  |
| Traffic Vol, veh/h | 0 | 65 | 70 | 15 | 20 | 0 |
| Future Vol, veh/h | 0 | 65 | 70 | 15 | 20 | 0 |
| Conflicting Peds, \#/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | - | - | - | - | 0 | - |
| Veh in Median Storage, \# | - | 0 | 0 | - | 0 | - |
| Grade, \% | - | 0 | 0 | - | 0 | - |
| Peak Hour Factor | 80 | 80 | 82 | 82 | 75 | 75 |
| Heavy Vehicles, \% | 0 | 0 | 0 | 0 | 0 | 0 |
| Mvmt Flow | 0 | 81 | 85 | 18 | 27 | 0 |


| Major/Minor | Major1 | Major2 |  | Minor2 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Conflicting Flow All | 103 | 0 | - | 0 | 175 | 94 |
| Stage 1 | - | - | - | - | 94 | - |
| Stage 2 | - | - | - | - | 81 | - |
| Critical Hdwy | 4.1 | - | - | - | 6.4 | 6.2 |
| Critical Hdwy Stg 1 | - | - | - | - | 5.4 | - |
| Critical Hdwy Stg 2 | - | - | - | - | 5.4 | - |
| Follow-up Hdwy | 2.2 | - | - | - | 3.5 | 3.3 |
| Pot Cap-1 Maneuver | 1502 | - | - | - | 819 | 968 |
| Stage 1 | - | - | - | - | 935 | - |
| Stage 2 | - | - | - | - | 947 | - |
| Platoon blocked, \% |  | - | - | - |  |  |
| Mov Cap-1 Maneuver | 1502 | - | - | - | 819 | 968 |
| Mov Cap-2 Maneuver | - | - | - | - | 819 | - |
| Stage 1 | - | - | - | - | 935 | - |
| Stage 2 | - | - | - | - | 947 | - |
|  |  |  |  |  |  |  |
| Approach | EB |  |  |  | SB |  |
| HCM Control Delay, s | 0 |  | 0 |  | 9.5 |  |
| HCM LOS |  |  |  |  | A |  |
|  |  |  |  |  |  |  |
| Minor Lane/Major Mvmt |  | EBL | EBT |  | WBR | BLn1 |
| Capacity (veh/h) |  | 502 | - | - | - | 819 |
| HCM Lane V/C Ratio |  | - | - | - | - | 0.033 |
| HCM Control Delay (s) |  | 0 | - | - | - | 9.5 |
| HCM Lane LOS |  | A | - | - | - | A |
| HCM 95th \%tile Q(veh) |  | 0 | - | - | - | 0.1 |










| Appendix Table 1 <br> Percent Impact Calculations for Potential Study Area Intersections (ECM Appendix B.2.3) |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Offsite Intersection Approach | Site Trip Direction | Projected Sunday Site-Generated AM Peak Traffic (veh/hr) | RATIO of Site <br> AM Weekday PeakTrips to Sunday Peak Hour Trips (Trip Generation Ratio) | RATIO of Site AM Weekday PeakTrips to Sunday Peak Hour Trips (decimal/factor) | Approx Weekday AM Peak Traffic (veh/hr) | Trips from 2018 or 2020 Count Data | Percent Impact | Vs. ECM Threshold |
| SB Towner at S Londonderry Int. | Outbound | 34 | 2/92 | 0.02 | 1 | 156 | 0.5\% | <10\% |
| NB Towner at S Londonderry Int. | Inbound | 33 | 5/88 | 0.06 | 2 | 304 | 0.6\% | <10\% |
| SB Towner at Stapleton | Outbound (MAX) | 34 | 2/92 | 0.02 | 1 | 323 | 0.2\% | < 10\% |
| EB Londonderry at Meridian | Outbound (MAX) | 54 | 2/92 | 0.02 | 1 | 445 | 0.3\% | <10\% |

## LSC Transportation Consultants, Inc.

## 545 E Pikes Peak Ave, Suite 210

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719-633-2868
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Groups Printed- Unshifted

|  | Meridian Rd Southbound |  |  |  |  | Londonderry Dr Westbound |  |  |  |  | Meridian Rd 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 |
| 06:30 AM | 0 | 97 | 2 | 0 | 99 | 74 | 4 | 4 | 0 | 82 | 2 | 30 | 5 | 0 | 37 | 6 | 8 | 32 | 0 | 46 | 264 |
| 06:45 AM | 7 | 123 | 4 | 0 | 134 | 108 | 8 | 17 | 0 | 133 | 0 | 45 | 20 | 0 | 65 | 12 | 15 | 33 | 0 | 60 | 392 |
| Total | 7 | 220 | 6 | 0 | 233 | 182 | 12 | 21 | 0 | 215 | 2 | 75 | 25 | 0 | 102 | 18 | 23 | 65 | 0 | 106 | 656 |
| 07:00 AM | 15 | 71 | 14 | 0 | 100 | 114 | 40 | 34 | 0 | 188 | 9 | 73 | 25 | 0 | 107 | 29 | 27 | 38 | 0 | 94 | 489 |
| 07:15 AM | 9 | 108 | 31 | 0 | 148 | 81 | 76 | 28 | 0 | 185 | 22 | 101 | 25 | 0 | 148 | 32 | 33 | 38 | 0 | 103 | 584 |
| 07:30 AM | 12 | 116 | 36 | 0 | 164 | 68 | 31 | 41 | 4 | 144 | 27 | 147 | 13 | 0 | 187 | 36 | 33 | 61 | 0 | 130 | 625 |
| 07:45 AM | 17 | 121 | 16 | 0 | 154 | 58 | 5 | 13 | 0 | 76 | 21 | 104 | 34 | 0 | 159 | 34 | 18 | 65 | 1 | 118 | 507 |
| Total | 53 | 416 | 97 | 0 | 566 | 321 | 152 | 116 | 4 | 593 | 79 | 425 | 97 | 0 | 601 | 131 | 111 | 202 | 1 | 445 | 2205 |
| 08:00 AM | 13 | 110 | 9 | 0 | 132 | 78 | 7 | 13 | 0 | 98 | 21 | 51 | 38 | 0 | 110 | 8 | 10 | 17 | 0 | 35 | 375 |
| 08:15 AM | 11 | 71 | 1 | 0 | 83 | 96 | 10 | 18 | 0 | 124 | 10 | 66 | 38 | 0 | 114 | 6 | 8 | 26 | 0 | 40 | 361 |
| Grand Total | 84 | 817 | 113 | 0 | 1014 | 677 | 181 | 168 | 4 | 1030 | 112 | 617 | 198 | 0 | 927 | 163 | 152 | 310 | 1 | 626 | 3597 |
| Apprch \% | 8.3 | 80.6 | 11.1 | 0 |  | 65.7 | 17.6 | 16.3 | 0.4 |  | 12.1 | 66.6 | 21.4 | 0 |  | 26 | 24.3 | 49.5 | 0.2 |  |  |
| Total \% | 2.3 | 22.7 | 3.1 | 0 | 28.2 | 18.8 | 5 | 4.7 | 0.1 | 28.6 | 3.1 | 17.2 | 5.5 | 0 | 25.8 | 4.5 | 4.2 | 8.6 | 0 | 17.4 |  |

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|  | Meridian Rd Southbound |  |  |  |  | Londonderry Dr Westbound |  |  |  |  | Meridian Rd Northbound |  |  |  |  | Londonderry 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 |
| Peak Hour Analysis From 6:30:00 AM to 8:15:00 AM - Peak 1 of 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Peak Hour for Entire Intersection Begins at 7:00:00 AM |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 7:00:00 AM | 15 | 71 | 14 | 0 | 100 | 114 | 40 | 34 | 0 | 188 | 9 | 73 | 25 | 0 | 107 | 29 | 27 | 38 | 0 | 94 | 489 |
| 7:15:00 AM | 9 | 108 | 31 | 0 | 148 | 81 | 76 | 28 | 0 | 185 | 22 | 101 | 25 | 0 | 148 | 32 | 33 | 38 | 0 | 103 | 584 |
| 7:30:00 AM | 12 | 116 | 36 | 0 | 164 | 68 | 31 | 41 | 4 | 144 | 27 | 147 | 13 | 0 | 187 | 36 | 33 | 61 | 0 | 130 | 625 |
| 7:45:00 AM | 17 | 121 | 16 | 0 | 154 | 58 | 5 | 13 | 0 | 76 | 21 | 104 | 34 | 0 | 159 | 34 | 18 | 65 | 1 | 118 | 507 |
| Total Volume | 53 | 416 | 97 | 0 | 566 | 321 | 152 | 116 | 4 | 593 | 79 | 425 | 97 | 0 | 601 | 131 | 111 | 202 | 1 | 445 | 2205 |
| \% App. Total | 9.4 | 73.5 | 17.1 | 0 |  | 54.1 | 25.6 | 19.6 | 0.7 |  | 13.1 | 70.7 | 16.1 | 0 |  | 29.4 | 24.9 | 45.4 | 0.2 |  |  |
| PHF | . 779 | . 860 | . 674 | . 000 | . 863 | . 704 | . 500 | . 707 | . 250 | . 789 | . 731 | . 723 | . 713 | . 000 | . 803 | . 910 | . 841 | . 777 | . 250 | . 856 | . 882 |

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|  | Meridian Rd Southbound |  |  |  |  | Londonderry Dr Westbound |  |  |  |  | Meridian Rd Northbound |  |  |  |  | Londonderry 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 |
| Peak Hour Analysis From 6:30:00 AM to 8:15:00 AM - Peak 1 of 1 Peak Hour for Each Approach Begins at: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 7:15:00 AM |  |  |  |  | 6:45:00 AM |  |  |  |  | 7:15:00 AM |  |  |  |  | 7:00:00 AM |  |  |  |  |  |
| +0 mins. | 9 | 108 | 31 | 0 | 148 | 108 | 8 | 17 | 0 | 133 | 22 | 101 | 25 | 0 | 148 | 29 | 27 | 38 | 0 | 94 |  |
| +5 mins. | 12 | 116 | 36 | 0 | 164 | 114 | 40 | 34 | 0 | 188 | 27 | 147 | 13 | 0 | 187 | 32 | 33 | 38 | 0 | 103 |  |
| +10 mins. | 17 | 121 | 16 | 0 | 154 | 81 | 76 | 28 | 0 | 185 | 21 | 104 | 34 | 0 | 159 | 36 | 33 | 61 | 0 | 130 |  |
| +15 mins. | 13 | 110 | 9 | 0 | 132 | 68 | 31 | 41 | 4 | 144 | 21 | 51 | 38 | 0 | 110 | 34 | 18 | 65 | 1 | 118 |  |
| Total Volume | 51 | 455 | 92 | 0 | 598 | 371 | 155 | 120 | 4 | 650 | 91 | 403 | 110 | 0 | 604 | 131 | 111 | 202 | 1 | 445 |  |
| \% App. Total | 8.5 | 76.1 | 15.4 | 0 |  | 57.1 | 23.8 | 18.5 | 0.6 |  | 15.1 | 66.7 | 18.2 | 0 |  | 29.4 | 24.9 | 45.4 | 0.2 |  |  |
| PHF | . 750 | . 940 | . 639 | . 000 | . 912 | . 814 | . 510 | . 732 | . 250 | . 864 | . 843 | . 685 | . 724 | . 000 | . 807 | . 910 | . 841 | . 777 | . 250 | . 856 |  |

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Groups Printed- Unshifted

|  | Meridian Rd Southbound |  |  |  |  | Londonderry Dr Westbound |  |  |  |  | Meridian Rd 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 |
| 04:00 PM | 10 | 104 | 23 | 0 | 137 | 49 | 5 | 4 | 0 | 58 | 37 | 84 | 56 | 0 | 177 | 6 | 1 | 9 | 0 | 16 | 388 |
| 04:15 PM | 21 | 79 | 16 | 0 | 116 | 41 | 5 | 8 | 0 | 54 | 28 | 105 | 70 | 0 | 203 | 11 | 6 | 26 | 0 | 43 | 416 |
| 04:30 PM | 14 | 85 | 13 | 0 | 112 | 60 | 4 | 7 | 0 | 71 | 34 | 114 | 82 | 0 | 230 | 5 | 9 | 22 | 0 | 36 | 449 |
| 04:45 PM | 19 | 67 | 17 | 0 | 103 | 47 | 14 | 8 | 0 | 69 | 27 | 97 | 88 | 0 | 212 | 5 | 3 | 20 | 0 | 28 | 412 |
| Total | 64 | 335 | 69 | 0 | 468 | 197 | 28 | 27 | 0 | 252 | 126 | 400 | 296 | 0 | 822 | 27 | 19 | 77 | 0 | 123 | 1665 |
| 05:00 PM | 17 | 76 | 14 | 0 | 107 | 52 | 9 | 7 | 0 | 68 | 23 | 122 | 83 | 0 | 228 | 11 | 19 | 20 | 0 | 50 | 453 |
| 05:15 PM | 25 | 78 | 21 | 0 | 124 | 58 | 5 | 8 | 0 | 71 | 22 | 117 | 81 | 0 | 220 | 5 | 7 | 22 | 0 | 34 | 449 |
| 05:30 PM | 15 | 83 | 18 | 0 | 116 | 64 | 4 | 7 | 0 | 75 | 27 | 117 | 89 | 0 | 233 | 4 | 2 | 23 | 0 | 29 | 453 |
| 05:45 PM | 14 | 65 | 9 | 0 | 88 | 62 | 7 | 8 | 0 | 77 | 28 | 97 | 102 | 0 | 227 | 3 | 8 | 16 | 0 | 27 | 419 |
| Total | 71 | 302 | 62 | 0 | 435 | 236 | 25 | 30 | 0 | 291 | 100 | 453 | 355 | 0 | 908 | 23 | 36 | 81 | 0 | 140 | 1774 |
| Grand Total | 135 | 637 | 131 | 0 | 903 | 433 | 53 | 57 | 0 | 543 | 226 | 853 | 651 | 0 | 1730 | 50 | 55 | 158 | 0 | 263 | 3439 |
| Apprch \% | 15 | 70.5 | 14.5 | 0 |  | 79.7 | 9.8 | 10.5 | 0 |  | 13.1 | 49.3 | 37.6 | 0 |  | 19 | 20.9 | 60.1 | 0 |  |  |
| Total \% | 3.9 | 18.5 | 3.8 | 0 | 26.3 | 12.6 | 1.5 | 1.7 | 0 | 15.8 | 6.6 | 24.8 | 18.9 | 0 | 50.3 | 1.5 | 1.6 | 4.6 | 0 | 7.6 |  |

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|  | Meridian Rd Southbound |  |  |  |  | Londonderry Dr Westbound |  |  |  |  | Meridian Rd Northbound |  |  |  |  | Londonderry 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 |
| Peak Hour Analysis From 4:00:00 PM to 5:45:00 PM - Peak 1 of 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Peak Hour for Entire Intersection Begins at 5:00:00 PM |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5:00:00 PM | 17 | 76 | 14 | 0 | 107 | 52 | 9 | 7 | 0 | 68 | 23 | 122 | 83 | 0 | 228 | 11 | 19 | 20 | 0 | 50 | 453 |
| 5:15:00 PM | 25 | 78 | 21 | 0 | 124 | 58 | 5 | 8 | 0 | 71 | 22 | 117 | 81 | 0 | 220 | 5 | 7 | 22 | 0 | 34 | 449 |
| 5:30:00 PM | 15 | 83 | 18 | 0 | 116 | 64 | 4 | 7 | 0 | 75 | 27 | 117 | 89 | 0 | 233 | 4 | 2 | 23 | 0 | 29 | 453 |
| 5:45:00 PM | 14 | 65 | 9 | 0 | 88 | 62 | 7 | 8 | 0 | 77 | 28 | 97 | 102 | 0 | 227 | 3 | 8 | 16 | 0 | 27 | 419 |
| Total Volume | 71 | 302 | 62 | 0 | 435 | 236 | 25 | 30 | 0 | 291 | 100 | 453 | 355 | 0 | 908 | 23 | 36 | 81 | 0 | 140 | 1774 |
| \% App. Total | 16.3 | 69.4 | 14.3 | 0 |  | 81.1 | 8.6 | 10.3 | 0 |  | 11 | 49.9 | 39.1 | 0 |  | 16.4 | 25.7 | 57.9 | 0 |  |  |
| PHF | . 710 | . 910 | . 738 | . 000 | . 877 | . 922 | . 694 | . 938 | . 000 | . 945 | . 893 | . 928 | . 870 | . 000 | . 974 | . 523 | . 474 | . 880 | . 000 | . 700 | . 979 |

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|  | Meridian Rd Southbound |  |  |  |  | Londonderry Dr Westbound |  |  |  |  | Meridian Rd Northbound |  |  |  |  | Londonderry 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 |
| Peak Hour Analysis From 4:00:00 PM to 5:45:00 PM - Peak 1 of 1 Peak Hour for Each Approach Begins at: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 4:00:00 PM |  |  |  |  | 5:00:00 PM |  |  |  |  | 5:00:00 PM |  |  |  |  | 4:15:00 PM |  |  |  |  |  |
| +0 mins. | 10 | 104 | 23 | 0 | 137 | 52 | 9 | 7 | 0 | 68 | 23 | 122 | 83 | 0 | 228 | 11 | 6 | 26 | 0 | 43 |  |
| +5 mins. | 21 | 79 | 16 | 0 | 116 | 58 | 5 | 8 | 0 | 71 | 22 | 117 | 81 | 0 | 220 | 5 | 9 | 22 | 0 | 36 |  |
| +10 mins. | 14 | 85 | 13 | 0 | 112 | 64 | 4 | 7 | 0 | 75 | 27 | 117 | 89 | 0 | 233 | 5 | 3 | 20 | 0 | 28 |  |
| +15 mins. | 19 | 67 | 17 | 0 | 103 | 62 | 7 | 8 | 0 | 77 | 28 | 97 | 102 | 0 | 227 | 11 | 19 | 20 | 0 | 50 |  |
| Total Volume | 64 | 335 | 69 | 0 | 468 | 236 | 25 | 30 | 0 | 291 | 100 | 453 | 355 | 0 | 908 | 32 | 37 | 88 | 0 | 157 |  |
| \% App. Total | 13.7 | 71.6 | 14.7 | 0 |  | 81.1 | 8.6 | 10.3 | 0 |  | 11 | 49.9 | 39.1 | 0 |  | 20.4 | 23.6 | 56.1 | 0 |  |  |
| PHF | . 762 | . 805 | . 750 | . 000 | . 854 | . 922 | . 694 | . 938 | . 000 | . 945 | . 893 | . 928 | . 870 | . 000 | . 974 | . 727 | . 487 | . 846 | . 000 | . 785 |  |

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# LSC Transportation Consultants, Inc. <br> 545 E Pikes Peak Ave, Suite 210 <br> Colorado Springs, CO 80905 <br> 719-633-2868 

File Name : S Towner Ave - Londonderry Dr AM
Site Code : 00184630
Start Date : 9/25/2018
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Groups Printed- Unshifted

|  | S Towner Ave Southbound |  |  |  | Londonderry Dr Westbound |  |  |  | S Towner Ave Northbound |  |  |  | Londonderry Dr Eastbound |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Start Time | Left | Thru | Right | Peds | Left | Thru | Right | Peds | Left | Thru | Right | Peds | Left | Thru | Right | Peds | Int. Total |
| 06:30 | 0 | 3 | 1 | 0 | 1 | 0 | 0 | 0 | 1 | 8 | 1 | 0 | 0 | 1 | 18 | 0 | 34 |
| 06:45 | 1 | 11 | 1 | 0 | 0 | 0 | 3 | 0 | 10 | 26 | 0 | 0 | 0 | 0 | 14 | 0 | 66 |
| Total | 1 | 14 | 2 | 0 | 1 | 0 | 3 | 0 | 11 | 34 | 1 | 0 | 0 | 1 | 32 | 0 | 100 |


| $07: 00$ | 4 | 36 | 0 | 0 | 3 | 0 | 1 | 0 | 6 | 50 | 3 | 0 | 2 | 0 | 22 | 0 | 127 |
| ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| $07: 15$ | 4 | 34 | 2 | 0 | 0 | 0 | 2 | 0 | 7 | 82 | 6 | 0 | 4 | 1 | 22 | 0 | 164 |
| $07: 30$ | 1 | 34 | 1 | 0 | 6 | 0 | 9 | 0 | 7 | 104 | 4 | 0 | 1 | 2 | 29 | 0 | 198 |
| $07: 45$ | 3 | 37 | 0 | 0 | 1 | 0 | 4 | 0 | 4 | 30 | 1 | 0 | 2 | 1 | 16 | 0 | 99 |
| Total | 12 | 141 | 3 | 0 | 10 | 0 | 16 | 0 | 24 | 266 | 14 | 0 | 9 | 4 | 89 | 0 | 588 |


| $08: 00$ | 3 | 10 | 0 | 0 | 0 | 0 | 1 | 0 | 12 | 18 | 1 | 0 | 0 | 0 | 12 | 0 | 57 |
| ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| $08: 15$ | 3 | 18 | 2 | 0 | 1 | 0 | 1 | 0 | 4 | 18 | 1 | 0 | 2 | 0 | 11 | 0 | 61 |
| Grand Total | 19 | 183 | 7 | 0 | 12 | 0 | 21 | 0 | 51 | 336 | 17 | 0 | 11 | 5 | 144 | 0 | 806 |
| Apprch \% | 9.1 | 87.6 | 3.3 | 0 | 36.4 | 0 | 63.6 | 0 | 12.6 | 83.2 | 4.2 | 0 | 6.9 | 3.1 | 90 | 0 |  |
| Total \% | 2.4 | 22.7 | 0.9 | 0 | 1.5 | 0 | 2.6 | 0 | 6.3 | 41.7 | 2.1 | 0 | 1.4 | 0.6 | 17.9 | 0 |  |

# LSC Transportation Consultants, Inc. 

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|  | S Towner Ave Southbound |  |  |  |  | Londonderry Dr Westbound |  |  |  |  | S Towner Ave Northbound |  |  |  |  | Londonderry Dr Eastbound |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Start Time | Left | Thru | Right | Peds | App. Total | Left | Thru | Right | Peds | App. Total | Left | Thru | Right | Peds | App. Total | Left | Thru | Right | Peds | App. Total | Int. Total |
| Peak Hour Analysis From 6:30:00 AM to 8:15:00 AM - Peak 1 of 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Peak Hour for Entire Intersection Begins at 7:00:00 AM |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 7:00:00 AM | 4 | 36 | 0 | 0 | 40 | 3 | 0 | 1 | 0 | 4 | 6 | 50 | 3 | 0 | 59 | 2 | 0 | 22 | 0 | 24 | 127 |
| 7:15:00 AM | 4 | 34 | 2 | 0 | 40 | 0 | 0 | 2 | 0 | 2 | 7 | 82 | 6 | 0 | 95 | 4 | 1 | 22 | 0 | 27 | 164 |
| 7:30:00 AM | 1 | 34 | 1 | 0 | 36 | 6 | 0 | 9 | 0 | 15 | 7 | 104 | 4 | 0 | 115 | 1 | 2 | 29 | 0 | 32 | 198 |
| 7:45:00 AM | 3 | 37 | 0 | 0 | 40 | 1 | 0 | 4 | 0 | 5 | 4 | 30 | 1 | 0 | 35 | 2 | 1 | 16 | 0 | 19 | 99 |
| Total Volume | 12 | 141 | 3 | 0 | 156 | 10 | 0 | 16 | 0 | 26 | 24 | 266 | 14 | 0 | 304 | 9 | 4 | 89 | 0 | 102 | 588 |
| \% App. Total | 7.7 | 90.4 | 1.9 | 0 |  | 38.5 | 0 | 61.5 | 0 |  | 7.9 | 87.5 | 4.6 | 0 |  | 8.8 | 3.9 | 87.3 | 0 |  |  |
| PHF | . 750 | . 953 | . 375 | . 000 | . 975 | . 417 | . 000 | . 444 | . 000 | . 433 | . 857 | . 639 | . 583 | . 000 | . 661 | . 563 | . 500 | . 767 | . 000 | . 797 | . 742 |



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Groups Printed- Unshifted

|  | S Towner Ave Southbound |  |  |  | Londonderry Dr Westbound |  |  |  | S Towner Ave Northbound |  |  |  | Londonderry Dr Eastbound |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Start Time | Left | Thru | Right | Peds | Left | Thru | Right | Peds | Left | Thru | Right | Peds | Left | Thru | Right | Peds | Int. Total |
| 16:30 | 3 | 7 | 0 | 0 | 0 | 1 | 0 | 0 | 14 | 6 | 1 | 0 | 1 | 0 | 16 | 0 | 49 |
| 16:45 | 0 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 20 | 25 | 1 | 0 | 1 | 0 | 12 | 0 | 63 |
| Total | 3 | 10 | 1 | 0 | 0 | 1 | 0 | 0 | 34 | 31 | 2 | 0 | 2 | 0 | 28 | 0 | 112 |


| $17: 00$ | 1 | 7 | 0 | 0 | 1 | 0 | 0 | 0 | 16 | 44 | 6 | 0 | 2 | 0 | 13 | 0 | 90 |
| ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| $17: 15$ | 2 | 11 | 2 | 0 | 4 | 0 | 0 | 0 | 18 | 23 | 15 | 0 | 0 | 2 | 5 | 0 | 82 |
| $17: 30$ | 1 | 23 | 1 | 0 | 10 | 1 | 1 | 0 | 11 | 18 | 11 | 0 | 1 | 2 | 10 | 0 | 90 |
| $17: 45$ | 2 | 28 | 1 | 0 | 10 | 2 | 4 | 0 | 24 | 23 | 8 | 0 | 1 | 2 | 11 | 0 | 116 |
| Total | 6 | 69 | 4 | 0 | 25 | 3 | 5 | 0 | 69 | 108 | 40 | 0 | 4 | 6 | 39 | 0 | 378 |


| $18: 00$ | 0 | 31 | 3 | 0 | 3 | 1 | 2 | 0 | 20 | 24 | 2 | 0 | 1 | 2 | 10 | 0 | 99 |
| ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| $18: 15$ | 0 | 7 | 1 | 0 | 3 | 1 | 0 | 0 | 13 | 12 | 2 | 0 | 1 | 0 | 4 | 0 | 44 |
| Grand Total | 9 | 117 | 9 | 0 | 31 | 6 | 7 | 0 | 136 | 175 | 46 | 0 | 8 | 8 | 81 | 0 | 633 |
| Apprch \% | 6.7 | 86.7 | 6.7 | 0 | 70.5 | 13.6 | 15.9 | 0 | 38.1 | 49 | 12.9 | 0 | 8.2 | 8.2 | 83.5 | 0 |  |
| Total \% | 1.4 | 18.5 | 1.4 | 0 | 4.9 | 0.9 | 1.1 | 0 | 21.5 | 27.6 | 7.3 | 0 | 1.3 | 1.3 | 12.8 | 0 |  |

# LSC Transportation Consultants, Inc. <br> 545 E Pikes Peak Ave, Suite 210 <br> Colorado Springs, CO 80905 <br> 719-633-2868 

File Name : S Towner Ave - Londonderry Dr PM
Site Code : 00184630
Start Date : 9/25/2018
Page No : 2

|  | S Towner Ave Southbound |  |  |  |  | Londonderry Dr Westbound |  |  |  |  | S Towner Ave Northbound |  |  |  |  | Londonderry Dr Eastbound |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Start Time | Left | Thru | Right | Peds | App. Total | Left | Thru | Right | Peds | App. Total | Left | Thru | Right | Peds | App. Total | Left | Thru | Right | Peds | App. Total | Int. Total |
| Peak Hour Analysis From 16:30 to 18:15-Peak 1 of 1 Peak Hour for Entire Intersection Begins at 17:15 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 17:15 | 2 | 11 | 2 | 0 | 15 | 4 | 0 | 0 | 0 | 4 | 18 | 23 | 15 | 0 | 56 | 0 | 2 | 5 | 0 | 7 | 82 |
| 17:30 | 1 | 23 | 1 | 0 | 25 | 10 | 1 | 1 | 0 | 12 | 11 | 18 | 11 | 0 | 40 | 1 | 2 | 10 | 0 | 13 | 90 |
| 17:45 | 2 | 28 | 1 | 0 | 31 | 10 | 2 | 4 | 0 | 16 | 24 | 23 | 8 | 0 | 55 | 1 | 2 | 11 | 0 | 14 | 116 |
| 18:00 | 0 | 31 | 3 | 0 | 34 | 3 | 1 | 2 | 0 | 6 | 20 | 24 | 2 | 0 | 46 | 1 | 2 | 10 | 0 | 13 | 99 |
| Total Volume | 5 | 93 | 7 | 0 | 105 | 27 | 4 | 7 | 0 | 38 | 73 | 88 | 36 | 0 | 197 | 3 | 8 | 36 | 0 | 47 | 387 |
| \% App. Total | 4.8 | 88.6 | 6.7 | 0 |  | 71.1 | 10.5 | 18.4 | 0 |  | 37.1 | 44.7 | 18.3 | 0 |  | 6.4 | 17 | 76.6 | 0 |  |  |
| PHF | . 625 | . 750 | . 583 | . 000 | . 772 | . 675 | . 500 | . 438 | . 000 | . 594 | . 760 | . 917 | . 600 | . 000 | . 879 | . 750 | 1.0 0 | . 818 | . 000 | . 839 | . 834 |



LSC Transportation Consultants, Inc.
545 E Pikes Peak Ave, Suite 210
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719-633-2868
File Name : S Towner Ave - Londonderry Dr PM
Site Code : 00184630
Start Date : 9/25/2018
Page No : 3


## LSC Transportation Consultants, Inc.

545 E Pikes Peak Ave, Suite 210
Colorado Springs, CO 80905
719-633-2868
File Name : Stapleton Dr - Towner Ave AM
Site Code : 184390
Start Date : 05/03/2018
Page No : 1
Groups Printed- Unshifted

|  | Towner Ave Southbound |  |  |  |  | Stapleton Dr Westbound |  |  |  |  | Towner Ave Northbound |  |  |  |  | Eastbound |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Start Time | Left | Thru | Right | Peds | App. Total | Left | Thru | Right | Peds | App. Total | Left | Thru | Right | Peds | App. Total | Left | Thru | Right | Peds | App. Total | Int. Total |
| 06:30 | 22 | 1 | 0 | 0 | 23 | 1 | 0 | 16 | 0 | 17 | 0 | 2 | 1 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 43 |
| 06:45 | 26 | 1 | 0 | 0 | 27 | 0 | 0 | 33 | 0 | 33 | 0 | 2 | 1 | 0 | 3 | 0 | 1 | 0 | 0 | 1 | 64 |
| Total | 48 | 2 | 0 | 0 | 50 | 1 | 0 | 49 | 0 | 50 | 0 | 4 | 2 | 0 | 6 | 0 | 1 | 0 | 0 | 1 | 107 |


| $07: 00$ | 48 | 5 | 0 | 0 | 53 | 0 | 0 | 47 | 0 | 47 | 0 | 5 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 105 |
| ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| $07: 15$ | 65 | 4 | 0 | 0 | 69 | 0 | 0 | 93 | 0 | 93 | 0 | 6 | 2 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 170 |
| $07: 30$ | 59 | 4 | 0 | 0 | 63 | 1 | 0 | 119 | 0 | 120 | 0 | 8 | 1 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 192 |
| $07: 45$ | 45 | 2 | 0 | 0 | 47 | 1 | 0 | 31 | 0 | 32 | 0 | 3 | 1 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 83 |
| Total | 217 | 15 | 0 | 0 | 232 | 2 | 0 | 290 | 0 | 292 | 0 | 22 | 4 | 0 | 26 | 0 | 0 | 0 | 0 | 0 | 550 |


| $08: 00$ | 22 | 1 | 0 | 0 | 23 | 1 | 0 | 20 | 0 | 21 | 0 | 2 | 1 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 47 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| $08: 15$ | 16 | 2 | 0 | 0 | 18 | 0 | 0 | 12 | 0 | 12 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 31 |

## LSC Transportation Consultants, Inc. <br> 545 E Pikes Peak Ave, Suite 210 <br> Colorado Springs, CO 80905 <br> 719-633-2868

File Name : Stapleton Dr - Towner Ave AM
Site Code : 184390
Start Date : 05/03/2018
Page No : 3

|  | Towner Ave Southbound |  |  |  |  | Stapleton Dr Westbound |  |  |  |  | Towner Ave Northbound |  |  |  |  | Eastbound |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Start Time | Left | Thru | Right | Peds | App. Total | Left | Thru | Right | Peds | App. Total | Left | Thru | Right | Peds | App. Total | Left | Thru | Right | Peds | App. Total | Int. Total |
| Peak Hour Analysis From 06:30 to 08:15-Peak 1 of 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Peak Hour f | or Ent | re Int | rsect | on Be | gins at | 07:00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 07:00 | 48 | 5 | 0 | 0 | 53 | 0 | 0 | 47 | 0 | 47 | 0 | 5 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 105 |
| 07:15 | 65 | 4 | 0 | 0 | 69 | 0 | 0 | 93 | 0 | 93 | 0 | 6 | 2 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 170 |
| 07:30 | 59 | 4 | 0 | 0 | 63 | 1 | 0 | 119 | 0 | 120 | 0 | 8 | 1 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 192 |
| 07:45 | 45 | 2 | 0 | 0 | 47 | 1 | 0 | 31 | 0 | 32 | 0 | 3 | 1 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 83 |
| Total Volume | 217 | 15 | 0 | 0 | 232 | 2 | 0 | 290 | 0 | 292 | 0 | 22 | 4 | 0 | 26 | 0 | 0 | 0 | 0 | 0 | 550 |
| \% App. Total | 93.5 | 6.5 | 0 | 0 |  | 0.7 | 0 | 99.3 | 0 |  | 0 | 84.6 | 15.4 | 0 |  | 0 | 0 | 0 | 0 |  |  |
| PHF | . 835 | . 750 | . 000 | . 000 | . 841 | . 500 | . 000 | . 609 | . 000 | . 608 | . 000 | . 688 | . 500 | . 000 | . 722 | . 000 | . 000 | . 000 | . 000 | . 000 | . 716 |



## LSC Transportation Consultants, Inc.

545 E Pikes Peak Ave, Suite 210
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File Name : Stapleton Dr - Towner Ave PM
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Start Date : 05/03/2018
Page No : 1

Groups Printed- Unshifted

|  | Towner ave Southbound |  |  |  |  | Stapleton Dr Westbound |  |  |  |  | Towner ave Northbound |  |  |  |  | Eastbound |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Start Time | Left | Thru | Right | Peds | App. Toal | Left | Thru | Right | Peds | App. Total | Left | Thru | Right | Peds | App. Total | Left | Thru | Right | Peds | App. Toala | Int. Total |
| 16:00 | 16 | 0 | 0 | 0 | 16 | 0 | 0 | 10 | 0 | 10 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 27 |
| 16:15 | 16 | 2 | 0 | 0 | 18 | 0 | 0 | 34 | 0 | 34 | 0 | 1 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 54 |
| 16:30 | 12 | 0 | 0 | 0 | 12 | 1 | 0 | 26 | 0 | 27 | 0 | 3 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 42 |
| 16:45 | 17 | 0 | 0 | 0 | 17 | 2 | 0 | 25 | 0 | 27 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 45 |
| Total | 61 | 2 | 0 | 0 | 63 | 3 | 0 | 95 | 0 | 98 | 0 | 6 | 1 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 168 |
| 17:00 | 29 | 2 | 0 | 0 | 31 | 1 | 0 | 18 | 0 | 19 | 0 | 1 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 52 |
| 17:15 | 13 | 1 | 0 | 0 | 14 | 0 | 0 | 14 | 0 | 14 | 0 | 3 | 1 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 32 |
| 17:30 | 11 | 1 | 0 | 0 | 12 | 1 | 0 | 16 | 0 | 17 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 29 |
| 17:45 | 9 | 0 | 0 | 0 | 9 | 1 | 0 | 12 | 0 | 13 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 23 |
| Total | 62 | 4 | 0 | 0 | 66 | 3 | 0 | 60 | 0 | 63 | 0 | 5 | 2 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 136 |

## LSC Transportation Consultants, Inc. <br> 545 E Pikes Peak Ave, Suite 210 <br> Colorado Springs, CO 80905 719-633-2868

File Name : Stapleton Dr - Towner Ave PM
Site Code : 184390
Start Date : 05/03/2018
Page No : 1

|  | Towner ave Southbound |  |  |  |  | Stapleton Dr Westbound |  |  |  |  | Towner ave Northbound |  |  |  |  | Eastbound |  |  |  |  | Int. Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Start Time | Left | Thru | Right | Peds | App. Total | Left | Thru | Right | Peds | App. Total | Left | Thru | Right | Peds | App. Total | Left | Thru | Right | Peds | App. Total |  |
| Peak Hour Analysis From 16:00 to 17:45-Peak 1 of 1 l |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Peak Hour for Entire Intersection Begins at 16:15 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 16:15 | 16 | 2 | 0 | 0 | 18 | 0 | 0 | 34 | 0 | 34 | 0 | 1 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 54 |
| 16:30 | 12 | 0 | 0 | 0 | 12 | 1 | 0 | 26 | 0 | 27 | 0 | 3 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 42 |
| 16:45 | 17 | 0 | 0 | 0 | 17 | 2 | 0 | 25 | 0 | 27 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 45 |
| 17:00 | 29 | 2 | 0 | 0 | 31 | 1 | 0 | 18 | 0 | 19 | 0 | 1 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 52 |
| Total Volume | 74 | 4 | 0 | 0 | 78 | 4 | 0 | 103 | 0 | 107 | 0 | 6 | 2 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 193 |
| \% App. Total | 94.9 | 5.1 | 0 | 0 |  | 3.7 | 0 | 96.3 | 0 |  | 0 | 75 | 25 | 0 |  | 0 | 0 | 0 | 0 |  |  |
| PHF | . 638 | . 500 | . 000 | . 000 | . 629 | . 500 | . 000 | . 757 | . 000 | . 787 | . 000 | . 500 | . 500 | . 000 | . 667 | . 000 | . 000 | . 000 | . 000 | . 000 | . 894 |



