# Overlook at Homestead <br> Traffic Impact Study <br> EPC PCD File No.: P-235 <br> (LSC \#S234200) <br> October 6, 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.

# Overlook at Homestead Traffic Impact Study 

Prepared for:
Joe DesJardin
Proterra Properties
1864 Woodmoor Drive, Suite 100
Monument, CO 80132

OCTOBER 6, 2023

LSC Transportation Consultants, Inc.
Prepared by: Jeffrey C. Hodsdon, P.E.

EPC PCD FILE NO.: P-235
LSC \#S234200

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October 6, 2023

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RE: Overlook at Homestead El Paso County, CO Traffic Impact Study
LSC \#S234200

Dear Mr. DesJardin,

LSC Transportation Consultants, Inc. has prepared this Traffic Impact Study for the proposed Overlook at Homestead residential development in El Paso County, Colorado. The site is located east of Elbert Road generally between Hopper Road and Sweet Road. Access to the site is proposed via the existing Elbert Road/Apex Ranch Road intersection and a proposed new stop-sign-controlled intersection to the south (Elbert Road/Hatband Drive).

This report has been prepared for submittal to El Paso County.

## REPORT CONTENTS

The preparation of this report included the following:

- An inventory of existing roadway and traffic conditions on major thoroughfares adjacent to the site, including surface conditions, functional classification, widths, pavement markings, traffic-control signs, posted speed limits, intersection and access spacing, roadway and intersection alignments, roadway grades, and auxiliary turn lanes;
- Weekday peak-hour turning-movement traffic counts at the following "study-area" intersections:
- Elbert Road/Apex Ranch Road
- Elbert Road/proposed south access (Hatband Drive)
- Estimated average daily traffic (ADT) volumes adjacent to the proposed development on study-area roadway segments;
- Projections of 20-year background traffic volumes on the study-area roadways adjacent to the site;
- The proposed site land use and access plan;
- Estimates of average weekday and weekday peak-hour trip generation for the proposed development and the estimated directional distribution of site-generated vehicle trips on roadways and intersections adjacent to and in the vicinity of the site;
- Projected site-generated and resulting total peak-hour intersection traffic volumes at the following study-area intersections:
- Elbert Road/Apex Ranch Road
- Elbert Road/proposed south access (Hatband Drive).
- Projected total daily and peak-hour traffic volumes at the study-area intersections;
- Intersection level of service (LOS) analysis at the study-area intersections;
- Evaluation of short- and long-term projected intersection volumes to determine potential requirements for any auxiliary right-/left-turn lanes at the proposed site-access points, based on the criteria in El Paso County's Engineering Criteria Manual (ECM). Also included are potential long-term lane requirements; and
- Findings and recommendations for submittal to El Paso County.


## LIST OF OTHER TRAFFIC REPORTS USED IN THE PREPARATION OF THIS REPORT

The following previously-completed traffic reports were used for reference, context and/or background information for this study:

Apex Ranch Estates Traffic Engineering Services letter by Felsburg, Holt \& Ullevig dated November 6, 2007 (PCD File \# SP07013). The report is over 15 years old and Apex Ranch Estates has already been developed.

## LAND USE AND ACCESS

## Proposed Land Use

Figure 1 shows the site location relative to the adjacent and nearby roadways. The Overlook at Homestead site would consist of 62 single-family dwelling units. The site is located about one-quarter mile northeast of the intersection of Sweet Road and Elbert Road.

The project is planned to be developed in phases. Figure 2 also shows the proposed phasing plan.

## Proposed Site-Access Locations

Figure 2 contains the proposed site plan showing the proposed land use, on-site circulation, and proposed access points. Access to the site is proposed via the existing Elbert Road/Apex Ranch Road stop-sign-controlled intersection and a new public road connection to Elbert Road (Hatband Drive) to be located 1,920 feet north of Sweet Road. Hatband Drive would also meet the spacing to a future intersection created to the north with the planned future Hodgen Road extension east to Elbert Road, as shown on Map 13 of the MTCP (Project N3). Hatband Drive would be about 2,000 feet to the south, which would meet the prescribed quarter-mile spacing.

## Access to Nearby Parcels

Parcels to the east, 4100000251 and 4126000004 , will be afforded access as follows:

- 4100000251 is part of the regional park owned by the County, and the applicant is planning trail access as requested by the Parks Department, no vehicular access.
- 4126000004 is owned by Mr. Pickle and right-of-way will be provided at the end of the southernmost cul-de-sac per Code requirements. This will be shown on the upcoming Preliminary Plan.
- 4100000031 at the end of the Apex Ranch Road cul-de-sac. There will be an access stub to the parcel to the north.


## INTERSECTION SIGHT DISTANCE

## Entering Sight Distance

Intersection entering sight distance at Apex Ranch Road/Elbert Road and the proposed siteaccess location (Hatband Drive) on Elbert Road shown in the site plan meet sight-distance requirements in ECM Table 2-21. The following are the existing sight-distance measurements. These measurements were conducted in the field by LSC. The measurements were taken from a driver's eye height of 3.5 feet to an approaching vehicle height of 3.5 feet.

- Apex Ranch Road/Elbert Road intersection:
- 750 feet looking north from Apex Ranch Rd.
- 1,230 feet south of Apex Ranch Road.
- Proposed Site Access (Hatband Drive)/Elbert Road Intersection:
- 1,800 feet north of proposed Hatband Drive.
- Over $1 / 2$ mile south of proposed Hatband Drive - well past the Sweet Road intersection.

Please refer to the attached sight-distance exhibits for details. The lines of sight for both access point intersections will need to be kept clear of any sight-distance obstructions. This includes landscaping, signage, etc. proposed for the residential development.

## Stopping Sight Distance to Downstream Intersection

Stopping sight distance along Elbert Road approaching Apex Ranch Road/Elbert Road and the proposed Hatband Drive/Elbert Road shown in the site plan meet stopping sight-distance requirements in ECM Table 2-17 (or 2-18 for grades over 3\%). The following are the existing sight-distance measurements. These measurements were conducted in the field by LSC. The measurements were taken from the driver's eye height of an approaching vehicle to a height of 3.5 feet at the center of each intersection.

- Apex Ranch Road/Elbert Road intersection:
- 750 feet south to Apex Ranch Road from a southbound motorist on Elbert Road approaching the intersection from the north.
- 1,230 feet north to Apex Ranch Road from a northbound motorist on Elbert Road approaching the intersection from the south.
- Proposed Hatband Drive/Elbert Road Intersection:
- 1,800 feet south to the proposed site access a southbound motorist on Elbert Road approaching the Hatband Drive intersection from the north.
- There is over $1 / 2$ mile of stopping sight distance for a northbound motorist on Elbert Road approaching the Hatband Drive intersection from the south.
- Also, please refer to the attached profile drawing showing the clear lines of sight from each direction along Elbert Road for the required intersection sight distance along Elbert Road.


## ROAD AND TRAFFIC CONDITIONS AND MTCP CLASSIFICATION

Figure 1 shows the roads adjacent to and in the vicinity of the site. Adjacent roads serving the site are identified below followed by a brief description of each:

Elbert Road is a paved, "unimproved," two-lane Rural Minor Arterial that extends for 10 miles north from Judge Orr Road to the El Paso County/Elbert County line. The roadway continues into Elbert County to State Highway 86 (in Elbert County). The posted speed limit at the Elbert Road/Apex Ranch Road intersection is 55 miles per hour (mph). No auxiliary turn lanes currently exist at Elbert Road's intersections with Apex Ranch Road or Sweet Road.

Apex Ranch Road is a paved Rural Local roadway extending east-to-west for 0.5 miles between Elbert Road and its terminus to the east. The posted speed limit along this paved road is 25 mph . The westbound approach to the Elbert Road intersection is stop-sign controlled with a single lane.

Sweet Road is a Rural Collector extending generally east-to-west for 14.5 miles between Eastonville and Eurich Road. The segment of Sweet Road between Elbert Road and Eastonville Road is paved. Sweet Road is discontinuous at Elbert Road, with an offset of approximately 1,000 feet, between north and south intersections with Elbert Road. No auxiliary turn lanes exist at either of the two Elbert Road intersections with Sweet Road.

## Existing Traffic Volumes

Vehicular turning-movement counts were conducted for the following dates and times at the following intersections. Raw count data is attached:

- Elbert Road/Sweet Road
- Wednesday, May 31, 2023 from 6:30-8:30 a.m.
- Wednesday, May 31, 2023 from 4:00-6:00 p.m.
- Elbert Road/Apex Ranch Road
- Wednesday, May 31, 2023 from 6:30-8:30 a.m.
- Wednesday, May 31, 2023 from 4:00-6:00 p.m.


## PEDESTRIAN AND BICYCLE FACILITIES

Elbert Road and Apex Ranch Road do not currently have sidewalks or dedicated bicycle lanes to accommodate pedestrians or bicycles. Sidewalks would not be required along any study-area roadways following site buildout. The proposed subdivision roads are proposed to be Rural roadways and, per ECM criteria, would not require sidewalks.

## TRIP GENERATION

Estimates of the vehicle trips projected to be generated by the proposed Overlook at Homestead residential development have been made using the nationally published trip-generation rates from Trip Generation, $11^{\text {th }}$ Edition, 2021 by the Institute of Transportation Engineers (ITE). Corresponding trip-generation rates from ITE Land Use Category "210 - Single-Family (Detached) Housing" have been used to develop the trip-generation estimates for the proposed 62-dwelling unit residential site.

Table 1 below presents a summary of the estimated site trip generation. A detailed trip-generation estimate for the site, including ITE rates for the proposed residential land use, is presented in

Table 3 (attached).
The proposed residential development is projected to generate about 650 total vehicle trips on the average weekday during a 24 -hour period, with approximately half entering and half exiting the site. During the morning peak hour, approximately 13 entering vehicles and 36 exiting vehicles are estimated to be generated. Approximately 40 entering and 23 exiting vehicles are estimated to be generated by the site during the afternoon peak hour.

Table 1: Estimated Site Vehicle-Trip Generation

| Analysis Period | Weekday |  |  |
| :---: | :---: | :---: | :---: |
|  | In | Out | Total |
| Morning Peak Hour | 13 | 36 | 49 |
| Afternoon Peak Hour | 40 | 23 | 63 |
| Daily/24-hour | 325 | 325 | 650 |

## TRIP DISTRIBUTION AND ASSIGNMENT

## Trip Directional Distribution

The directional-distribution estimate of site-generated vehicle trips to the study-area roads and intersections is a necessary component in determining the site's traffic impacts. Figure 4 shows the percentages of the site-generated vehicle trips projected to be oriented to and from the site's major approaches. Estimates have been based on the following factors: the proposed new land use, the area roadway system serving the site, and the site's geographic location relative to the overall greater El Paso County/Colorado Springs area and Elbert County to the north.

## Site-Generated Traffic

Site-generated traffic volumes have been estimated at the following intersections:

- Elbert Road/Apex Ranch Road
- Elbert Road/proposed south access (Hatband Drive).
- Elbert Road/Sweet Road (north intersection)

These site-generated volumes have been calculated by applying directional-distribution percentages estimated by LSC (from Figure 4) to the trip-generation estimates (from

Table 3). Figure 5 shows the projected short-term site-generated traffic volumes for the weekday morning and afternoon peak hours.

## Existing Plus Site-Generated Traffic Volumes

Figure 6 shows the sum of the existing traffic volumes (from Figure 3) and site-generated traffic volumes (shown in Figure 5). These volumes represent the projected short-term total traffic following site buildout.

## 2043 Background Traffic Volumes

Long-term background traffic volumes have been estimated by LSC based, in-part, on projected 2043 volumes adjacent to the site shown in Map 9 of the El Paso County Major Transportation

Corridors Plan (MTCP). The 2043 traffic volumes represent a 2.25 percent per year growth rate over existing traffic. Estimated traffic to be generated at buildout for the 62-dwelling unit Overlook at Homestead residential developments is not included in 2043 background traffic volumes. Please refer to Figure 7 for estimated long-term background volumes and assumed laneage at the study-area intersections.

## 2043 Total Traffic Volumes

Figure 8 shows the sum of 2043 background traffic volumes (from Figure 7) plus site-generated traffic volumes (from Figure 5).
LEVEL OF SERVICE ANALYSIS

Level of service (LOS) is a quantitative measure of the level of congestion or delay at an intersection and is indicated on a scale from "A" to "F." LOS A is indicative of little congestion or delay. LOS F indicates a high level of congestion or delay. Table 2 shows the level of service delay ranges for signalized and unsignalized intersections.

Table 2: Intersection Levels of Service Delay Ranges

| Level of Service | Signalized Intersections | Unsignalized Intersections |
| :---: | :---: | :---: |
|  | Average Control Delay <br> (seconds per vehicle) | Average Control Delay <br> (seconds per vehicle) ${ }^{(\mathbf{1})}$ |
| A | 10.0 sec or less | 10.0 sec or less |
| B | $10.1-20.0 \mathrm{sec}$ | $10.1-15.0 \mathrm{sec}$ |
| C | $20.1-35.0 \mathrm{sec}$ | $15.1-25.0 \mathrm{sec}$ |
| 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 |

(1) 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.

LOS values have been included in each figure for each turning movement/approach during the weekday morning and afternoon peak hours for the proposed site-access intersections and off-site intersections in the study area:

- Figure 3: 2023 Existing Traffic, Lane Geometry, Traffic Control, and LOS
- Figure 6: 2023 Existing + Site Traffic, Lane Geometry, Traffic Control, and LOS
- Figure 7: 2043 Background Traffic, Lane Geometry, Traffic Control, and LOS
- Figure 8: 2043 Background + Site Traffic, Lane Geometry, Traffic Control, and LOS

LOS calculations for long-term scenarios were based upon the recommended lane geometries and traffic controls outlined in the figures above.

## Elbert Road/Apex Ranch Road

All movements at this intersection currently operate at and are projected to remain at LOS B or better during both peak hours with the addition of site-generated traffic. No modifications would be required to this intersection.

## Elbert Road/Proposed South Access (Hatband Drive)

All movements at this intersection are projected to operate at LOS B or better during both peak hours with the addition of site-generated traffic.

## Elbert Road/Sweet Road (North Intersection)

All movements at this intersection currently operate at and are projected to remain at LOS B or better during both peak hours with the addition of site-generated traffic. No modifications would be required to this intersection.

## AUXILIARY TURN-LANE NEEDS ANALYSIS

## Elbert Road/Apex Ranch Road and Elbert Road/Proposed South Access (Hatband Drive)

## Southbound-Left-Turn Deceleration Lane(s)

According to the El Paso County Engineering Criteria Manual (ECM), exclusive left-turn lanes shall be provided for any access on a Minor Arterial with a projected peak-hour ingress turning volume of 25 vehicles per hour (vph) or greater. Projected short-term total and long-term total volumes would not exceed the $25-\mathrm{vph}$ threshold. As such, no modifications would be required to the southbound approach on Elbert Road at either Apex Ranch Road or the proposed Hatband Drive.

## Northbound-Right-Turn Deceleration Lane(s)

According to the ECM, exclusive right-turn lanes shall be provided for any access on a Minor Arterial with a projected peak-hour ingress turning volume of 50 vehicles per hour (vph) or greater. The projected right-turn volumes at Elbert/Apex Ranch and at the Elbert/proposed south access are not expected to exceed the 50-vph minimum right-turn volume thresholds prescribing a turn lane outlined in the ECM upon site buildout. As such, a northbound-right-turn deceleration lane would not be required on Elbert Road approaching Apex Ranch Road or the proposed Hatband Drive.

## Elbert Road/Sweet Road

## Northbound-Left-Turn Deceleration Lane

Based on count data from May 2023, the existing northbound-left turning volume is 21 vehicles during the morning peak hour and 22 vehicles during the afternoon peak hour. Assuming an annual growth rate of 2 percent for background traffic, it is likely that the northbound-left turning volume would exceed the ECM threshold of 25 vph at some point within the next 20 years.

The proposed Overlook at Homestead residential development would not increase the peak-hour left-turn volume for this turning movement. Existing and future traffic making this turn constitutes background traffic only. This has been included in this report, even as need due to "background traffic," because the intersection is within the study area and it is our understanding that El Paso County staff is interested in all potential future needed improvements, even if related to background traffic.
Southbound-Right-Turn Deceleration Lane
The projected right-turn volumes at the Elbert Road/Sweet Road intersection are not expected to exceed the 50 -vph minimum right-turn volume thresholds prescribing a turn lane outlined in the ECM upon site buildout or based on 2043 projected total traffic volumes. As such, no modifications would be required for the southbound approach on Elbert Road approaching Sweet Road.

## ROADWAY CLASSIFICATIONS

## Elbert Road

Per ECM Table B-1, the ADT threshold capacity for roads classified as Rural Minor Arterial is 10,000 vehicles per day. The projected ADT on Elbert Road in the vicinity of the site (between Hopper Road and Sweet Road) would be well below 10,000 vehicles per day for this classification.

## Internal Roadways

All proposed internal roadways within the 62-dwelling-unit residential development should be classified as Rural Local roadways. Based on buildout traffic volume estimates, the projected ADT on Apex Ranch Road and the proposed Hatband Drive would be less than the ECM threshold of 750 vehicles per day for Rural Local roadways. Apex Ranch Road currently conforms to Rural Local roadway standards, so no modifications would be needed. The proposed Hatband Drive and other internal roadways should be constructed to Rural Local roadway standards.

## ROADWAY IMPROVEMENTS

Based on the analysis herein, no off-site or adjacent roadway improvements would be "triggered" by this development. Staff has indicated that Elbert Road will need to be restriped to remove the
existing passing zone on Elbert Road in the vicinity of Hatband Drive. This can be addressed as part of the construction documents at a later stage in the process.

Elbert Road is currently a 24-foot, paved, "unimproved" (MTCP terminology) roadway in the vicinity of the site. The ECM standard width for the Rural Minor Arterial roadway classification is 40 -feet of paved width, plus a ten-foot outside shoulder ( 8 feet paved, 2 feet gravel). This project should not be required to widen Elbert Road. MTCP Map 13 does not show an MTCP roadway project for Elbert Road. The 2040 Unimproved Roadway Analysis on MTCP Map 12 indicates that Elbert Road will be adequate, and the projected volumes in this report appear to be well under the capacity values shown in the latest Road Impact Fee Study for similar two-lane, paved, unimproved roadways.

Staff has requested the inclusion of some Elbert shoulder improvements for a short distance on both sides of Hatband Drive. This would involve widening Elbert Road on the east side for an 8 -foot-wide paved shoulder for 40 -feet north and 40 -feet south from the end of the radius at Hatband Drive. In addition to the 40 -feet of 8 -foot shoulder on each side, a 45 -foot "taper" or transition back to the existing edge of roadway on each side would be included. The radii would be set back eight feet to the edge of the new shoulder and the culvert under the new street would be placed accordingly.

The intersection of Apex Ranch Road/Elbert Road was previously constructed, so completing a similar improvement at that existing intersection would involve rebuilding and reconstruction, which would not be practical and would be unnecessarily disruptive to the traveling public.

## COUNTY ROAD IMPROVEMENT FEE PROGRAM

## Transportation Impact Fees

Per ECM Appendix B: State what the current applicable Transportation Impact Fees are and what option the developer will be selecting for payment.

The applicant will be required to participate in this program. The PID option will be identified with a future Preliminary Plan/Plat submittal.

## Reimbursable Improvements

The following roadway improvement projects have been identified as being needed by the year 2040 per Map 13 and Table 4 of El Paso County's 2016 MTCP:

- N3 - Hodgen Road from Eastonville Road to Elbert Road $(\$ 4,470,000)$
- Existing conditions - does not exist
- Future conditions - 2-lane Rural Collector

See the attached MTCP maps for reference.

## MULTI-MODAL TRANSPORTATION AND TDM OPPORTUNITIES

The following roadway improvement projects have been identified as being needed by the year 2040 per Map 15 and Table 5 of El Paso County's 2016 MTCP:

- M10 - Hodgen Road from Meridian Road to Elbert Road
- Bicycle improvements ( 1.67 miles)

No public schools are located within a two-mile radius of the site.

## DEVIATIONS

No deviations to ECM design criteria are proposed at the proposed study-area intersections.

## FINDINGS AND CONCLUSIONS

- The site is projected to generate about 650 new driveway vehicle-trips on the average weekday.
- During the weekday morning peak hour of adjacent street traffic, 13 vehicles would enter the site while 36 vehicles would exit.
- During the weekday afternoon peak hour of adjacent street traffic, 40 vehicles would enter the site while 23 vehicles would exit.
- All individual approaches and turn lanes at both site-access intersections would operate at LOS B or better during both short-term and long-term peak hours, with or without the addition of site-generated traffic.
- Auxiliary left-turn and right-turn deceleration lanes would not be required at either of the site-access points, based on projected buildout traffic volumes. Please refer to the "Auxiliary Turn-Lane Analysis" section for evaluation of potential turn-lane needs.
- All internal site-access roadways are proposed to be public Rural Local roadways.
- Intersection sight distance will meet ECM standards. Please refer to the SIGHT DISTANCE section for details.
- No deviations are included with this submittal.

Please contact me if you have any questions regarding this report.
Respectfully Submitted,

LSC TRANSPORTATION CONSULTANTS, INC.
By: Jeffrey C. Hodsdon, P.E.
Principal
JCH/JAB:jas
Enclosures: Table 3
Figures 1-8
Sight Distance Exhibits 1 \& 2
Stopping Sight Distance Exhibit
Traffic Count Reports
Synchro LOS Reports
MTCP Map

Table

Table 3: Detailed Trip Generation Estimate

| ITE |  | Value | Units ${ }^{1}$ | Trip Generation Rates ${ }^{2}$ |  |  |  |  | Driveway Trips Generated |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Average <br> Weekday |  | A.M. |  | P.M. |  | Average <br> Weekday | A.M. |  | P.M. |  |
| Code | Description |  |  | In | Out | In | Out |  | In | Out | In | Out |
| 210 | Single-Family (Detached) Housing | 62 | DU | 10.48 | 0.20 | 0.58 | 0.64 | 0.38 | 650 | 13 | 36 | 40 | 23 |
| ${ }^{1}$ DU $=$ dwelling units |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ${ }^{2}$ Source: Trip Generation, 11th Edition (2021) by the Institute of Transportation Engineers (ITE) |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Updated by LSC 06/02/2023 |  |  |  |  |  |  |  |  |  |  |  |  |  |

Figure 1 - Figure 8





Figure 5


Figure 6

$\begin{aligned} & \text { IRANSPORTATION } \\ & \text { CONSULTANTS, INC. }\end{aligned} \mathrm{X}, \mathrm{XXX}=$ Average Daily Traffic (Vehicles/Day)

Existing + Site-Generated Traffic, Lane Geometry, Traffic Control, and LOS



Sight Distance Exhibits 1 \& 2




## Traffic Counts

# LSC Transportation Consultants, Inc. 

2504 E. Pikes Peak Ave, Suite 304
Colorado Springs, CO 80909
719-633-2868
File Name: Elbert Rd - Apex Ranch Rd AM
Site Code : S234200
Start Date : 5/31/2024
Page No : 1

Groups Printed- Unshifted

|  | Elbert Rd Southbound |  |  |  |  | Apex Ranch Rd Westbound |  |  |  |  | Elbert Rd Northbound |  |  |  |  | Eastbound |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Start Time | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Toata | Right | Thru | Left | Peds | App. Toal | Right | Thru | Left | Peds | App. Toal | Int. Total |
| 06:30 | 0 | 8 | 0 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 14 |
| 06:35 | 0 | 6 | 0 | 0 | 6 | 0 | 0 | 3 | 0 | 3 | 0 | 6 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 15 |
| 06:40 | 0 | 4 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 0 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 11 |
| 06:45 | 0 | 4 | 0 | 0 | 4 | 0 | 0 | 3 | 0 | 3 | 0 | 6 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 13 |
| 06:50 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 5 |
| 06:55 | 0 | 3 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 0 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 10 |
| Total | 0 | 25 | 0 | 0 | 25 | 0 | 0 | 6 | 0 | 6 | 0 | 37 | 0 | 0 | 37 | 0 | 0 | 0 | 0 | 0 | 68 |
| 07:00 | 0 | 9 | 0 | 0 | 9 | 0 | 0 | 1 | 0 | 1 | 0 | 8 | 0 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 18 |
| 07:05 | 0 | 6 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 12 |
| 07:10 | 0 | 9 | 0 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 13 |
| 07:15 | 0 | 6 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 13 | 0 | 0 | 13 | 0 | 0 | 0 | 0 | 0 | 19 |
| 07:20 | 0 | 5 | 0 | 0 | 5 | 0 | 0 | 2 | 0 | 2 | 0 | 5 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 12 |
| 07:25 | 0 | 7 | 0 | 0 | 7 | 0 | 0 | 1 | 0 | 1 | 0 | 5 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 13 |
| 07:30 | 0 | 5 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 0 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 12 |
| 07:35 | 0 | 8 | 0 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 14 |
| 07:40 | 0 | 10 | 0 | 0 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 16 |
| 07:45 | 0 | 4 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 6 |
| 07:50 | 0 | 8 | 0 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 0 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 16 |
| 07:55 | 0 | 5 | 0 | 0 | 5 | 0 | 0 | 1 | 0 | 1 | 0 | 5 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 11 |
| Total | 0 | 82 | 0 | 0 | 82 | 0 | 0 | 5 | 0 | 5 | 0 | 75 | 0 | 0 | 75 | 0 | 0 | 0 | 0 | 0 | 162 |
| 08:00 | 0 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 0 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 11 |
| 08:05 | 0 | 4 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 8 |
| 08:10 | 0 | 4 | 0 | 0 | 4 | 0 | 0 | 1 | 0 | 1 | 0 | 3 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 8 |
| 08:15 | 0 | 5 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 0 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 14 |
| 08:20 | 0 | 7 | 0 | 0 | 7 | 0 | 0 | 1 | 0 | 1 | 0 | 9 | 0 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 17 |
| 08:25 | 0 | 6 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 10 |
| Grand Total | 0 | 135 | 0 | 0 | 135 | 0 | 0 | 13 | 0 | 13 | 0 | 150 | 0 | 0 | 150 | 0 | 0 | 0 | 0 | 0 | 298 |
| Apprch \% | 0 | 100 | 0 | 0 |  | 0 | 0 | 100 | 0 |  | 0 | 100 | 0 | 0 |  | 0 | 0 | 0 | 0 |  |  |
| Total \% | 0 | 45.3 | 0 | 0 | 45.3 | 0 | 0 | 4.4 | 0 | 4.4 | 0 | 50.3 | 0 | 0 | 50.3 | 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 : Elbert Rd - Apex Ranch Rd AM
Site Code : S234200
Start Date : 5/31/2024
Page No : 2

|  | Elbert Rd Southbound |  |  |  |  | Apex Ranch Rd Westbound |  |  |  |  | Elbert Rd Northbound |  |  |  |  | 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 06:30 to 08:25-Peak 1 of 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Peak Hour | or Ent | re Int | rsect | on Be | ins at | 07:00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 07:00 | 0 | 9 | 0 | 0 | 9 | 0 | 0 | 1 | 0 | 1 | 0 | 8 | 0 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 18 |
| 07:05 | 0 | 6 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 12 |
| 07:10 | 0 | 9 | 0 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 13 |
| 07:15 | 0 | 6 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 13 | 0 | 0 | 13 | 0 | 0 | 0 | 0 | 0 | 19 |
| 07:20 | 0 | 5 | 0 | 0 | 5 | 0 | 0 | 2 | 0 | 2 | 0 | 5 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 12 |
| 07:25 | 0 | 7 | 0 | 0 | 7 | 0 | 0 | 1 | 0 | 1 | 0 | 5 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 13 |
| 07:30 | 0 | 5 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 0 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 12 |
| 07:35 | 0 | 8 | 0 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 14 |
| 07:40 | 0 | 10 | 0 | 0 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 16 |
| 07:45 | 0 | 4 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 6 |
| 07:50 | 0 | 8 | 0 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 0 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 16 |
| 07:55 | 0 | 5 | 0 | 0 | 5 | 0 | 0 | 1 | 0 | 1 | 0 | 5 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 11 |
| Total Volume | 0 | 82 | 0 | 0 | 82 | 0 | 0 | 5 | 0 | 5 | 0 | 75 | 0 | 0 | 75 | 0 | 0 | 0 | 0 | 0 | 162 |
| \% App. Total | 0 | 100 | 0 | 0 |  | 0 | 0 | 100 | 0 |  | 0 | 100 | 0 | 0 |  | 0 | 0 | 0 | 0 |  |  |
| PHF | . 000 | . 683 | . 000 | . 000 | . 683 | . 000 | . 000 | . 208 | . 000 | . 208 | . 000 | . 481 | . 000 | . 000 | . 481 | . 000 | . 000 | . 000 | . 000 | . 000 | . 711 |



# LSC Transportation Consultants, Inc. 

2504 E. Pikes Peak Ave, Suite 304
Colorado Springs, CO 80909
719-633-2868
File Name : Elbert Rd - Apex Ranch Rd AM
Site Code : S234200
Start Date : 5/31/2024
Page No : 3

|  | Elbert Rd Southbound |  |  |  |  | Apex Ranch Rd Westbound |  |  |  |  | Elbert Rd Northbound |  |  |  |  | Eastbound |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Start Time | Right | Thru | Left | Peds | App. Top | Right | Thru | Left | Peds | App. Toala | Right | Thru | Left | Peds | App. Tod | Right | Thru | Left | Peds | App. Toata |  | Total |

Peak Hour Analysis From 06:30 to 08:25-Peak 1 of 1
Peak Hour for Each Approach Begins at:

|  | 07:00 |  |  |  |  | 06:30 |  |  |  |  | 06:35 |  |  |  |  | 06:30 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| +0 mins. | 0 | 9 | 0 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 |
| +5 mins. | 0 | 6 | 0 | 0 | 6 | 0 | 0 | 3 | 0 | 3 | 0 | 7 | 0 | 0 | 7 | 0 | 0 | 0 | 0 | 0 |
| +10 mins. | 0 | 9 | 0 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 |
| +15 mins. | 0 | 6 | 0 | 0 | 6 | 0 | 0 | 3 | 0 | 3 | 0 | 5 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 |
| +20 mins. | 0 | 5 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 0 | 0 | 7 | 0 | 0 | 0 | 0 | 0 |
| +25 mins. | 0 | 7 | 0 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 0 | 0 | 8 | 0 | 0 | 0 | 0 | 0 |
| +30 mins. | 0 | 5 | 0 | 0 | 5 | 0 | 0 | 1 | 0 | 1 | 0 | 6 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 |
| +35 mins. | 0 | 8 | 0 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 |
| +40 mins. | 0 | 10 | 0 | 0 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 13 | 0 | 0 | 13 | 0 | 0 | 0 | 0 | 0 |
| +45 mins. | 0 | 4 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 |
| +50 mins. | 0 | 8 | 0 | 0 | 8 | 0 | 0 | 2 | 0 | 2 | 0 | 5 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 |
| +55 mins. | 0 | 5 | 0 | 0 | 5 | 0 | 0 | 1 | 0 | 1 | 0 | 7 | 0 | 0 | 7 | 0 | 0 | 0 | 0 | 0 |
| Total Volume | 0 | 82 | 0 | 0 | 82 | 0 | 0 | 10 | 0 | 10 | 0 | 79 | 0 | 0 | 79 | 0 | 0 | 0 | 0 | 0 |
| \% App. Total | 0 | 100 | 0 | 0 |  | 0 | 0 | 100 | 0 |  | 0 | 100 | 0 | 0 |  | 0 | 0 | 0 | 0 |  |
| PHF | . 000 | . 683 | . 000 | . 000 | . 683 | . 000 | . 000 | . 278 | . 000 | . 278 | . 000 | . 506 | . 000 | . 000 | . 506 | . 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 : Elbert Rd - Apex Ranch Rd Rd PM
Site Code : S234200
Start Date : 5/31/2024
Page No : 1

Groups Printed- Unshifted

|  | Elbert Rd Southbound |  |  |  |  | Apex Ranch Rd Westbound |  |  |  |  | Elbert Rd Northbound |  |  |  |  | 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. Toala | Int. Total |
| 16:00 | 0 | 4 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 8 |
| 16:05 | 0 | 5 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 11 |
| 16:10 | 0 | 5 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 0 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 12 |
| 16:15 | 0 | 5 | 0 | 0 | 5 | 0 | 0 | 2 | 0 | 2 | 0 | 7 | 0 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 14 |
| 16:20 | 0 | 11 | 0 | 0 | 11 | 0 | 0 | 0 | 0 | 0 | 1 | 7 | 0 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 19 |
| 16:25 | 0 | 13 | 0 | 0 | 13 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 1 | 6 | 0 | 0 | 0 | 0 | 0 | 19 |
| 16:30 | 0 | 6 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 14 | 0 | 0 | 14 | 0 | 0 | 0 | 0 | 0 | 20 |
| 16:35 | 0 | 13 | 0 | 0 | 13 | 0 | 0 | 0 | 0 | 0 | 1 | 9 | 0 | 0 | 10 | 0 | 0 | 0 | 0 | 0 | 23 |
| 16:40 | 0 | 8 | 0 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 2 | 6 | 0 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 16 |
| 16:45 | 0 | 7 | 0 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 1 | 8 | 0 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 16 |
| 16:50 | 0 | 10 | 0 | 0 | 10 | 0 | 0 | 1 | 0 | 1 | 0 | 4 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 15 |
| 16:55 | 0 | 8 | 0 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 1 | 8 | 0 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 17 |
| Total | 0 | 95 | 0 | 0 | 95 | 0 | 0 | 3 | 0 | 3 | 6 | 85 | 0 | 1 | 92 | 0 | 0 | 0 | 0 | 0 | 190 |
| 17:00 | 0 | 5 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 0 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 13 |
| 17:05 | 0 | 8 | 0 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 1 | 12 | 0 | 0 | 13 | 0 | 0 | 0 | 0 | 0 | 21 |
| 17:10 | 0 | 11 | 0 | 0 | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 0 | 0 | 10 | 0 | 0 | 0 | 0 | 0 | 21 |
| 17:15 | 0 | 8 | 0 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 0 | 0 | 10 | 0 | 0 | 0 | 0 | 0 | 18 |
| 17:20 | 0 | 5 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 9 |
| 17:25 | 0 | 7 | 0 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 0 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 14 |
| 17:30 | 0 | 10 | 0 | 0 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 11 | 0 | 0 | 11 | 0 | 0 | 0 | 0 | 0 | 21 |
| 17:35 | 0 | 7 | 0 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 0 | 0 | 10 | 0 | 0 | 0 | 0 | 0 | 17 |
| 17:40 | 0 | 12 | 0 | 0 | 12 | 0 | 0 | 1 | 0 | 1 | 0 | 10 | 0 | 0 | 10 | 0 | 0 | 0 | 0 | 0 | 23 |
| 17:45 | 0 | 4 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 1 | 8 | 0 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 13 |
| 17:50 | 0 | 9 | 0 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 0 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 18 |
| 17:55 | 0 | 8 | 0 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 1 | 6 | 0 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 15 |
| Total | 0 | 94 | 0 | 0 | 94 | 0 | 0 | 1 | 0 | 1 | 3 | 105 | 0 | 0 | 108 | 0 | 0 | 0 | 0 | 0 | 203 |
| Grand Total | 0 | 189 | 0 | 0 | 189 | 0 | 0 | 4 | 0 | 4 | 9 | 190 | 0 | 1 | 200 | 0 | 0 | 0 | 0 | 0 | 393 |
| Apprch \% | 0 | 100 | 0 | 0 |  | 0 | 0 | 100 | 0 |  | 4.5 | 95 | 0 | 0.5 |  | 0 | 0 | 0 | 0 |  |  |
| Total \% | 0 | 48.1 | 0 | 0 | 48.1 | 0 | 0 | 1 | 0 | 1 | 2.3 | 48.3 | 0 | 0.3 | 50.9 | 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 : Elbert Rd - Apex Ranch Rd Rd PM
Site Code : S234200
Start Date : 5/31/2024
Page No : 2

|  | Elbert Rd Southbound |  |  |  |  | Apex Ranch Rd Westbound |  |  |  |  | Elbert Rd Northbound |  |  |  |  | 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 16:00 to 17:55-Peak 1 of 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Peak Hour | or Ent | re Int | rsect | on Be | ins at | 16:20 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 16:20 | 0 | 11 | 0 | 0 | 11 | 0 | 0 | 0 | 0 | 0 | 1 | 7 | 0 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 19 |
| 16:25 | 0 | 13 | 0 | 0 | 13 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 1 | 6 | 0 | 0 | 0 | 0 | 0 | 19 |
| 16:30 | 0 | 6 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 14 | 0 | 0 | 14 | 0 | 0 | 0 | 0 | 0 | 20 |
| 16:35 | 0 | 13 | 0 | 0 | 13 | 0 | 0 | 0 | 0 | 0 | 1 | 9 | 0 | 0 | 10 | 0 | 0 | 0 | 0 | 0 | 23 |
| 16:40 | 0 | 8 | 0 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 2 | 6 | 0 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 16 |
| 16:45 | 0 | 7 | 0 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 1 | 8 | 0 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 16 |
| 16:50 | 0 | 10 | 0 | 0 | 10 | 0 | 0 | 1 | 0 | 1 | 0 | 4 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 15 |
| 16:55 | 0 | 8 | 0 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 1 | 8 | 0 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 17 |
| 17:00 | 0 | 5 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 0 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 13 |
| 17:05 | 0 | 8 | 0 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 1 | 12 | 0 | 0 | 13 | 0 | 0 | 0 | 0 | 0 | 21 |
| 17:10 | 0 | 11 | 0 | 0 | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 0 | 0 | 10 | 0 | 0 | 0 | 0 | 0 | 21 |
| 17:15 | 0 | 8 | 0 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 0 | 0 | 10 | 0 | 0 | 0 | 0 | 0 | 18 |
| Total Volume | 0 | 108 | 0 | 0 | 108 | 0 | 0 | 1 | 0 | 1 | 7 | 101 | 0 | 1 | 109 | 0 | 0 | 0 | 0 | 0 | 218 |
| \% App. Total | 0 | 100 | 0 | 0 |  | 0 | 0 | 100 | 0 |  | 6.4 | 92.7 | 0 | 0.9 |  | 0 | 0 | 0 | 0 |  |  |
| PHF | . 000 | . 692 | . 000 | . 000 | . 692 | . 000 | . 000 | . 083 | . 000 | . 083 | . 292 | . 601 | . 000 | . 083 | . 649 | . 000 | . 000 | . 000 | . 000 | . 000 | 790 |



# LSC Transportation Consultants, Inc. 

2504 E. Pikes Peak Ave, Suite 304
Colorado Springs, CO 80909
719-633-2868
File Name : Elbert Rd - Apex Ranch Rd Rd PM
Site Code : S234200
Start Date : 5/31/2024
Page No : 3


Peak Hour Analysis From 16:00 to 17:55-Peak 1 of 1
Peak Hour for Each Approach Begins at:

|  | 16:20 |  |  |  |  | 16:00 |  |  |  |  | 16:55 |  |  |  |  | 16:00 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| +0 mins. | 0 | 11 | 0 | 0 | 11 | 0 | 0 | 0 | 0 | 0 | 1 | 8 | 0 | 0 | 9 | 0 | 0 | 0 | 0 | 0 |
| +5 mins. | 0 | 13 | 0 | 0 | 13 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 0 | 0 | 8 | 0 | 0 | 0 | 0 | 0 |
| +10 mins. | 0 | 6 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 1 | 12 | 0 | 0 | 13 | 0 | 0 | 0 | 0 | 0 |
| +15 mins. | 0 | 13 | 0 | 0 | 13 | 0 | 0 | 2 | 0 | 2 | 0 | 10 | 0 | 0 | 10 | 0 | 0 | 0 | 0 | 0 |
| +20 mins. | 0 | 8 | 0 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 0 | 0 | 10 | 0 | 0 | 0 | 0 | 0 |
| +25 mins. | 0 | 7 | 0 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 |
| +30 mins. | 0 | 10 | 0 | 0 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 0 | 0 | 7 | 0 | 0 | 0 | 0 | 0 |
| +35 mins. | 0 | 8 | 0 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 11 | 0 | 0 | 11 | 0 | 0 | 0 | 0 | 0 |
| +40 mins. | 0 | 5 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 0 | 0 | 10 | 0 | 0 | 0 | 0 | 0 |
| +45 mins. | 0 | 8 | 0 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 0 | 0 | 10 | 0 | 0 | 0 | 0 | 0 |
| +50 mins. | 0 | 11 | 0 | 0 | 11 | 0 | 0 | 1 | 0 | 1 | 1 | 8 | 0 | 0 | 9 | 0 | 0 | 0 | 0 | 0 |
| +55 mins. | 0 | 8 | 0 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 0 | 0 | 9 | 0 | 0 | 0 | 0 | 0 |
| Total Volume | 0 | 108 | 0 | 0 | 108 | 0 | 0 | 3 | 0 | 3 | 3 | 107 | 0 | 0 | 110 | 0 | 0 | 0 | 0 | 0 |
| \% App. Total | 0 | 100 | 0 | 0 |  | 0 | 0 | 100 | 0 |  | 2.7 | 97.3 | 0 | 0 |  | 0 | 0 | 0 | 0 |  |
| PHF | . 000 | . 692 | . 000 | . 000 | . 692 | . 000 | . 000 | . 125 | . 000 | . 125 | . 250 | . 743 | . 000 | . 000 | . 705 | . 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 : Elbert Rd - Sweet Rd AM
Site Code : S234200
Start Date : 5/31/2024
Page No : 1

Groups Printed- Unshifted

|  | Elbert Rd Southbound |  |  |  |  | Westbound |  |  |  |  | Elbert Rd Northbound |  |  |  |  | Sweet Rd Eastbound |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Start Time | Right | Thru | Left | Peds | ${ }_{\text {App }}$ Total | Right | Thru | Left | Peds | App. Toal | Right | Thru | Left | Peds | App. Toal | Right | Thru | Left | Peds | App. Total | Int. Total |
| 06:30 | 1 | 8 | 0 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 2 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 15 |
| 06:35 | 1 | 5 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 2 | 0 | 9 | 2 | 0 | 1 | 0 | 3 | 18 |
| 06:40 | 1 | 6 | 0 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 2 | 0 | 5 | 1 | 0 | 3 | 0 | 4 | 16 |
| 06:45 | 1 | 6 | 0 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 4 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 16 |
| 06:50 | 0 | 3 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 3 | 0 | 7 | 2 | 0 | 1 | 0 | 3 | 13 |
| 06:55 | 3 | 6 | 0 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 1 | 0 | 5 | 2 | 0 | 2 | 0 | 4 | 18 |
| Total | 7 | 34 | 0 | 0 | 41 | 0 | 0 | 0 | 0 | 0 | 0 | 27 | 14 | 0 | 41 | 7 | 0 | 7 | 0 | 14 | 96 |
| 07:00 | 1 | 5 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 1 | 0 | 7 | 0 | 0 | 2 | 0 | 2 | 15 |
| 07:05 | 1 | 9 | 0 | 0 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 1 | 0 | 9 | 1 | 0 | 0 | 0 | 1 | 20 |
| 07:10 | 0 | 6 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 2 | 0 | 7 | 1 | 0 | 3 | 0 | 4 | 17 |
| 07:15 | 2 | 3 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 3 | 0 | 12 | 0 | 0 | 1 | 0 | 1 | 18 |
| 07:20 | 1 | 7 | 0 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 4 | 0 | 7 | 3 | 0 | 1 | 0 | 4 | 19 |
| 07:25 | 3 | 4 | 0 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 2 | 0 | 8 | 2 | 0 | 0 | 0 | 2 | 17 |
| 07:30 | 2 | 5 | 0 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 1 | 0 | 6 | 1 | 0 | 2 | 0 | 3 | 16 |
| 07:35 | 0 | 9 | 0 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 14 |
| 07:40 | 1 | 4 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 2 | 0 | 5 | 1 | 0 | 2 | 0 | 3 | 13 |
| 07:45 | 1 | 6 | 0 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 0 | 5 | 2 | 0 | 0 | 0 | 2 | 14 |
| 07:50 | 1 | 7 | 0 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 4 | 0 | 10 | 2 | 0 | 2 | 0 | 4 | 22 |
| 07:55 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 4 | 0 | 7 | 2 | 0 | 2 | 0 | 4 | 12 |
| Total | 13 | 66 | 0 | 0 | 79 | 0 | 0 | 0 | 0 | 0 | 0 | 64 | 24 | 0 | 88 | 15 | 0 | 15 | 0 | 30 | 197 |
| 08:00 | 2 | 3 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | , | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 12 |
| 08:05 | 1 | 4 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 1 | 0 | 6 | 4 | 0 | 0 | 0 | 4 | 15 |
| 08:10 | 0 | 6 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 0 | 3 |  | 0 | 1 | 0 | 2 | 11 |
| 08:15 | 1 | 5 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 4 | 0 | 13 | 2 | 0 | 0 | 0 | 2 | 21 |
| 08:20 | 0 | 7 | 0 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 2 | 0 | 11 | 2 | 0 | 1 | 0 | 3 | 21 |
| 08:25 | 1 | 5 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 1 | 0 | 5 | 4 | 0 | 1 | 0 | 5 | 16 |
| Grand Total | 25 | 130 | 0 | 0 | 155 | 0 | 0 | 0 | 0 | 0 | 0 | 126 | 48 | 0 | 174 | 35 | 0 | 25 | 0 | 60 | 389 |
| Apprch \% | 16.1 | 83.9 | 0 | 0 |  | 0 | 0 | 0 | 0 |  | 0 | 72.4 | 27.6 | 0 |  | 58.3 | 0 | 41.7 | 0 |  |  |
| Total \% | 6.4 | 33.4 | 0 | 0 | 39.8 | 0 | 0 | 0 | 0 | 0 | 0 | 32.4 | 12.3 | 0 | 44.7 | 9 | 0 | 6.4 | 0 | 15.4 |  |

# LSC Transportation Consultants, Inc. 

2504 E. Pikes Peak Ave, Suite 304
Colorado Springs, CO 80909
719-633-2868
File Name : Elbert Rd - Sweet Rd AM
Site Code : S234200
Start Date : 5/31/2024
Page No : 2

|  | Elbert Rd Southbound |  |  |  |  | Westbound |  |  |  |  | Elbert Rd Northbound |  |  |  |  | Sweet Rd 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 06:30 to 08:25-Peak 1 of 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Peak Hour | Ont | re Int | rsect | on Be | ins at | 06:35 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 06:35 | 1 | 5 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 2 | 0 | 9 | 2 | 0 | 1 | 0 | 3 | 18 |
| 06:40 | 1 | 6 | 0 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 2 | 0 | 5 | 1 | 0 | 3 | 0 | 4 | 16 |
| 06:45 | 1 | 6 | 0 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 4 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 16 |
| 06:50 | 0 | 3 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 3 | 0 | 7 | 2 | 0 | 1 | 0 | 3 | 13 |
| 06:55 | 3 | 6 | 0 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 1 | 0 | 5 | 2 | 0 | 2 | 0 | 4 | 18 |
| 07:00 | 1 | 5 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 1 | 0 | 7 | 0 | 0 | 2 | 0 | 2 | 15 |
| 07:05 | 1 | 9 | 0 | 0 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 1 | 0 | 9 | 1 | 0 | 0 | 0 | 1 | 20 |
| 07:10 | 0 | 6 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 2 | 0 | 7 | 1 | 0 | 3 | 0 | 4 | 17 |
| 07:15 | 2 | 3 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 3 | 0 | 12 | 0 | 0 | 1 | 0 | 1 | 18 |
| 07:20 | 1 | 7 | 0 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 4 | 0 | 7 | 3 | 0 | 1 | 0 | 4 | 19 |
| 07:25 | 3 | 4 | 0 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 2 | 0 | 8 | 2 | 0 | 0 | 0 | 2 | 17 |
| 07:30 | 2 | 5 | 0 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 1 | 0 | 6 | 1 | 0 | 2 | 0 | 3 | 16 |
| Total Volume | 16 | 65 | 0 | 0 | 81 | 0 | 0 | 0 | 0 | 0 | 0 | 65 | 26 | 0 | 91 | 15 | 0 | 16 | 0 | 31 | 203 |
| \% App. Total | 19.8 | 80.2 | 0 | 0 |  | 0 | 0 | 0 | 0 |  | 0 | 71.4 | 28.6 | 0 |  | 48.4 | 0 | 51.6 | 0 |  |  |
| PHF | . 444 | . 602 | . 000 | . 000 | . 675 | . 000 | . 000 | . 000 | . 000 | . 000 | . 000 | . 602 | . 542 | . 000 | . 632 | . 417 | . 000 | . 444 | . 000 | . 646 | . 846 |



# LSC Transportation Consultants, Inc. 

2504 E. Pikes Peak Ave, Suite 304
Colorado Springs, CO 80909
719-633-2868
File Name: Elbert Rd - Sweet Rd AM
Site Code : S234200
Start Date : 5/31/2024
Page No : 3

|  | Elbert Rd Southbound |  |  |  |  | Westbound |  |  |  |  | Elbert Rd Northbound |  |  |  |  | Sweet Rd Eastbound |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Start Time | Right | Thru | Left | Peds | App. Toala | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. To | Right | Thru | Left | Peds | App. Toal | Int. Total |

Peak Hour Analysis From 06:30 to 08:25-Peak 1 of 1
Peak Hour for Each Approach Begins at:

|  | 06:55 |  |  |  |  | 06:30 |  |  |  |  | 06:30 |  |  |  |  | 07:30 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| +0 mins. | 3 | 6 | 0 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 2 | 0 | 6 | 1 | 0 | 2 | 0 | 3 |
| +5 mins. | 1 | 5 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 2 | 0 | 9 | 0 | 0 | 0 | 0 | 0 |
| +10 mins. | 1 | 9 | 0 | 0 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 2 | 0 | 5 | 1 | 0 | 2 | 0 | 3 |
| +15 mins. | 0 | 6 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 4 | 0 | 9 | 2 | 0 | 0 | 0 | 2 |
| +20 mins. | 2 | 3 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 3 | 0 | 7 | 2 | 0 | 2 | 0 | 4 |
| +25 mins. | 1 | 7 | 0 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 1 | 0 | 5 | 2 | 0 | 2 | 0 | 4 |
| +30 mins. | 3 | 4 | 0 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 1 | 0 | 7 | 0 | 0 | 0 | 0 | 0 |
| +35 mins. | 2 | 5 | 0 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 1 | 0 | 9 | 4 | 0 | 0 | 0 | 4 |
| +40 mins. | 0 | 9 | 0 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 2 | 0 | 7 | 1 | 0 | 1 | 0 | 2 |
| +45 mins. | 1 | 4 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 3 | 0 | 12 | 2 | 0 | 0 | 0 | 2 |
| +50 mins. | 1 | 6 | 0 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 4 | 0 | 7 | 2 | 0 | 1 | 0 | 3 |
| +55 mins. | 1 | 7 | 0 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 2 | 0 | 8 | 4 | 0 | 1 | 0 | 5 |
| Total Volume | 16 | 71 | 0 | 0 | 87 | 0 | 0 | 0 | 0 | 0 | 0 | 64 | 27 | 0 | 91 | 21 | 0 | 11 | 0 | 32 |
| \% App. Total | 18.4 | 81.6 | 0 | 0 |  | 0 | 0 | 0 | 0 |  | 0 | 70.3 | 29.7 | 0 |  | 65.6 | 0 | 34.4 | 0 |  |
| PHF | . 444 | . 657 | . 000 | . 000 | . 725 | . 000 | . 000 | . 000 | . 000 | . 000 | . 000 | . 593 | . 563 | . 000 | . 632 | . 438 | . 000 | . 458 | . 000 | . 533 |



# LSC Transportation Consultants, Inc. 

2504 E. Pikes Peak Ave, Suite 304
Colorado Springs, CO 80909
719-633-2868
File Name : Elbert Rd - Sweet Rd PM
Site Code : S234200
Start Date : 5/31/2024
Page No : 1

Groups Printed- Unshifted

|  | Elbert Rd Southbound |  |  |  |  | Westbound |  |  |  |  | Elbert Rd Northbound |  |  |  |  | Sweet Rd 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 |
| 16:00 | 1 | 3 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 1 | 0 | 5 | 1 | 0 | 1 | 0 | 2 | 11 |
| 16:05 | 1 | 4 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 11 |
| 16:10 | 0 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 1 | 0 | 6 | 1 | 0 | 1 | 0 | 2 | 10 |
| 16:15 | 1 | 7 | 0 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 1 | 0 | 10 | 2 | 0 | 0 | 0 | 2 | 20 |
| 16:20 | 1 | 9 | 0 | 0 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 16 |
| 16:25 | 3 | 12 | 0 | 0 | 15 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 0 | 0 | 9 | 0 | 0 | 1 | 0 | 1 | 25 |
| 16:30 | 1 | 5 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 0 | 0 | 9 | 4 | 0 | 3 | 0 | 7 | 22 |
| 16:35 | 1 | 14 | 0 | 0 | 15 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 0 | 0 | 6 | 8 | 0 | 1 | 0 | 9 | 30 |
| 16:40 | 4 | 4 | 0 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 2 | 0 | 8 | 2 | 0 | 1 | 0 | 3 | 19 |
| 16:45 | 1 | 5 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 2 | 0 | 7 | 10 | 0 | 3 | 0 | 13 | 26 |
| 16:50 | 6 | 6 | 0 | 0 | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 0 | 0 | 10 | 2 | 0 | 0 | 0 | 2 | 24 |
| 16:55 | 3 | 6 | 0 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 1 | 0 | 4 | 2 | 0 | 2 | 0 | 4 | 17 |
| Total | 23 | 77 | 0 | 0 | 100 | 0 | 0 | 0 | 0 | 0 | 0 | 78 | 8 | 0 | 86 | 32 | 0 | 13 | 0 | 45 | 231 |
| 17:00 | 0 | 5 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 3 | 0 | 11 | 2 | 0 | 1 | 0 | 3 | 19 |
| 17:05 | 1 | 4 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 0 | 0 | 9 | 5 | 0 | 1 | 0 | 6 | 20 |
| 17:10 | 1 | 12 | 0 | 0 | 13 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 4 | 0 | 14 | 4 | 0 | 1 | 0 | 5 | 32 |
| 17:15 | 2 | 6 | 0 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 2 | 0 | 9 | 4 | 0 | 1 | 0 | 5 | 22 |
| 17:20 | 0 | 3 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 3 | 0 | 8 | 3 | 0 | 0 | 0 | 3 | 14 |
| 17:25 | 0 | 9 | 0 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 1 | 0 | 9 | 2 | 0 | 4 | 0 | 6 | 24 |
| 17:30 | 1 | 7 | 0 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 2 | 0 | 9 | 5 | 0 | 0 | 0 | 5 | 22 |
| 17:35 | 2 | 8 | 0 | 0 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 2 | 0 | 12 | 1 | 0 | 1 | 0 | 2 | 24 |
| 17:40 | 3 | 10 | 0 | 0 | 13 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 2 | 0 | 11 | 5 | 0 | 1 | 0 | 6 | 30 |
| 17:45 | 1 | 5 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 1 | 0 | 7 | 4 | 0 | 2 | 0 | 6 | 19 |
| 17:50 | 0 | 9 | 0 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 2 | 0 | 11 | 3 | 0 | 2 | 0 | 5 | 25 |
| 17:55 | 2 | 7 | 0 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 0 | 0 | 6 | 4 | 0 | 2 | 0 | 6 | 21 |
| Total | 13 | 85 | 0 | 0 | 98 | 0 | 0 | 0 | 0 | 0 | 0 | 94 | 22 | 0 | 116 | 42 | 0 | 16 | 0 | 58 | 272 |
| Grand Total | 36 | 162 | 0 | 0 | 198 | 0 | 0 | 0 | 0 | 0 | 0 | 172 | 30 | 0 | 202 | 74 | 0 | 29 | 0 | 103 | 503 |
| Apprch \% | 18.2 | 81.8 | 0 | 0 |  | 0 | 0 | 0 | 0 |  | 0 | 85.1 | 14.9 | 0 |  | 71.8 | 0 | 28.2 | 0 |  |  |
| Total \% | 7.2 | 32.2 | 0 | 0 | 39.4 | 0 | 0 | 0 | 0 | 0 | 0 | 34.2 | 6 | 0 | 40.2 | 14.7 | 0 | 5.8 | 0 | 20.5 |  |

# LSC Transportation Consultants, Inc. 

2504 E. Pikes Peak Ave, Suite 304
Colorado Springs, CO 80909
719-633-2868
File Name: Elbert Rd - Sweet Rd PM
Site Code : S234200
Start Date : 5/31/2024
Page No : 2

|  | Elbert Rd Southbound |  |  |  |  | Westbound |  |  |  |  | Elbert Rd Northbound |  |  |  |  | Sweet Rd 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 16:00 to 17:55-Peak 1 of 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Peak Hour | or Ent | re Int | rsect | on Be | ins at | 16:45 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 16:45 | 1 | 5 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 2 | 0 | 7 | 10 | 0 | 3 | 0 | 13 | 26 |
| 16:50 | 6 | 6 | 0 | 0 | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 0 | 0 | 10 | 2 | 0 | 0 | 0 | 2 | 24 |
| 16:55 | 3 | 6 | 0 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 1 | 0 | 4 | 2 | 0 | 2 | 0 | 4 | 17 |
| 17:00 | 0 | 5 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 3 | 0 | 11 | 2 | 0 | 1 | 0 | 3 | 19 |
| 17:05 | 1 | 4 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 0 | 0 | 9 | 5 | 0 | 1 | 0 | 6 | 20 |
| 17:10 | 1 | 12 | 0 | 0 | 13 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 4 | 0 | 14 | 4 | 0 | 1 | 0 | 5 | 32 |
| 17:15 | 2 | 6 | 0 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 2 | 0 | 9 | 4 | 0 | 1 | 0 | 5 | 22 |
| 17:20 | 0 | 3 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 3 | 0 | 8 | 3 | 0 | 0 | 0 | 3 | 14 |
| 17:25 | 0 | 9 | 0 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 1 | 0 | 9 | 2 | 0 | 4 | 0 | 6 | 24 |
| 17:30 | 1 | 7 | 0 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 2 | 0 | 9 | 5 | 0 | 0 | 0 | 5 | 22 |
| 17:35 | 2 | 8 | 0 | 0 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 2 | 0 | 12 | 1 | 0 | 1 | 0 | 2 | 24 |
| 17:40 | 3 | 10 | 0 | 0 | 13 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 2 | 0 | 11 | 5 | 0 | 1 | 0 | 6 | 30 |
| Total Volume | 20 | 81 | 0 | 0 | 101 | 0 | 0 | 0 | 0 | 0 | 0 | 91 | 22 | 0 | 113 | 45 | 0 | 15 | 0 | 60 | 274 |
| \% App. Total | 19.8 | 80.2 | 0 | 0 |  | 0 | 0 | 0 | 0 |  | 0 | 80.5 | 19.5 | 0 |  | 75 | 0 | 25 | 0 |  |  |
| PHF | . 278 | . 563 | . 000 | . 000 | . 647 | . 000 | . 000 | . 000 | . 000 | . 000 | . 000 | . 758 | . 458 | . 000 | . 673 | . 375 | . 000 | . 313 | . 000 | . 385 | . 714 |



# LSC Transportation Consultants, Inc. 

2504 E. Pikes Peak Ave, Suite 304
Colorado Springs, CO 80909
719-633-2868
File Name: Elbert Rd - Sweet Rd PM
Site Code : S234200
Start Date : 5/31/2024
Page No : 3

|  | Elbert Rd Southbound |  |  |  |  | Westbound |  |  |  |  | Elbert Rd Northbound |  |  |  |  | Sweet Rd Eastbound |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Start Time | Right | Thru | Left | Peds | App. Toal | Right | Thru | Left | Peds | App. Toaal | Right | Thru | Left | Peds | App. Toala | Right | Thru | Left | Peds | App. Toid | Int. Total |

Peak Hour Analysis From 16:00 to 17:55-Peak 1 of 1
Peak Hour for Each Approach Begins at:

|  | 16:15 |  |  |  |  | 16:00 |  |  |  |  | 17:00 |  |  |  |  | 16:30 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| +0 mins. | 1 | 7 | 0 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 3 | 0 | 11 | 4 | 0 | 3 | 0 | 7 |
| +5 mins. | 1 | 9 | 0 | 0 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 0 | 0 | 9 | 8 | 0 | 1 | 0 | 9 |
| +10 mins. | 3 | 12 | 0 | 0 | 15 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 4 | 0 | 14 | 2 | 0 | 1 | 0 | 3 |
| +15 mins. | 1 | 5 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 2 | 0 | 9 | 10 | 0 | 3 | 0 | 13 |
| +20 mins. | 1 | 14 | 0 | 0 | 15 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 3 | 0 | 8 | 2 | 0 | 0 | 0 | 2 |
| +25 mins. | 4 | 4 | 0 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 1 | 0 | 9 | 2 | 0 | 2 | 0 | 4 |
| +30 mins. | 1 | 5 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 2 | 0 | 9 | 2 | 0 | 1 | 0 | 3 |
| +35 mins. | 6 | 6 | 0 | 0 | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 2 | 0 | 12 | 5 | 0 | 1 | 0 | 6 |
| +40 mins. | 3 | 6 | 0 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 2 | 0 | 11 | 4 | 0 | 1 | 0 | 5 |
| +45 mins. | 0 | 5 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 1 | 0 | 7 | 4 | 0 | 1 | 0 | 5 |
| +50 mins. | 1 | 4 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 2 | 0 | 11 | 3 | 0 | 0 | 0 | 3 |
| +55 mins. | 1 | 12 | 0 | 0 | 13 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 0 | 0 | 6 | 2 | 0 | 4 | 0 | 6 |
| Total Volume | 23 | 89 | 0 | 0 | 112 | 0 | 0 | 0 | 0 | 0 | 0 | 94 | 22 | 0 | 116 | 48 | 0 | 18 | 0 | 66 |
| \% App. Total | 20.5 | 79.5 | 0 | 0 |  | 0 | 0 | 0 | 0 |  | 0 | 81 | 19 | 0 |  | 72.7 | 0 | 27.3 | 0 |  |
| PHF | . 319 | . 530 | . 000 | . 000 | . 622 | . 000 | . 000 | . 000 | . 000 | . 000 | . 000 | . 783 | . 458 | . 000 | . 690 | . 400 | . 000 | . 375 | . 000 | . 423 |



| Intersection |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: |
| Int Delay, s/veh | 0.3 |  |  |  |  |  |
| Movement | WBL | WBR | NBT | NBR | SBL | SBT |
| Lane Configurations | Y |  | 1 |  |  | -1 |
| Traffic Vol, veh/h | 5 | 0 | 75 | 0 | 0 | 82 |
| Future Vol, veh/h | 5 | 0 | 75 | 0 | 0 | 82 |
| Conflicting Peds, \#/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 0 | - | - | - | - | - |
| Veh in Median Storage, \# | 0 | - | 0 | - | - | 0 |
| Grade, \% | 0 | - | 0 | - | - | 0 |
| Peak Hour Factor | 78 | 78 | 83 | 83 | 83 | 83 |
| Heavy Vehicles, \% | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 6 | 0 | 90 | 0 | 0 | 99 |


| Major/Minor | Minor1 |  | Major1 |  | Major2 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Conflicting Flow All | 189 | 90 | 0 | 0 | 90 | 0 |
| Stage 1 | 90 | - | - | - | - | - |
| Stage 2 | 99 | - | - | - | - | - |
| Critical Hdwy | 6.42 | 6.22 | - | - | 4.12 | - |
| Critical Hdwy Stg 1 | 5.42 | - | - | - | - | - |
| Critical Hdwy Stg 2 | 5.42 | - | - | - | - | - |
| Follow-up Hdwy | 3.518 | 3.318 | - | - | 2.218 | - |
| Pot Cap-1 Maneuver | 800 | 968 | - | - | 1505 | - |
| Stage 1 | 934 | - | - | - | - | - |
| Stage 2 | 925 | - | - | - | - | - |
| Platoon blocked, \% |  |  | - | - |  | - |
| Mov Cap-1 Maneuver | 800 | 968 | - | - | 1505 | - |
| Mov Cap-2 Maneuver | 800 | - | - | - | - | - |
| Stage 1 | 934 | - | - | - | - | - |
| Stage 2 | 925 | - | - | - | - | - |
|  |  |  |  |  |  |  |
| Approach | WB |  | NB |  | SB |  |
| HCM Control Delay, s | 9.5 |  | 0 |  | 0 |  |
| HCM LOS | A |  |  |  |  |  |
|  |  |  |  |  |  |  |
| Minor Lane/Major Mvmt |  | NBT | NBRWBLn1 |  | SBL | SBT |
| Capacity (veh/h) |  | - | - | 800 | 1505 | - |
| HCM Lane V/C Ratio |  | - | - | 0.008 | - | - |
| HCM Control Delay (s) |  | - | - | 9.5 | 0 | - |
| HCM Lane LOS |  | - | - | A | A | - |
| HCM 95th \%tile Q(veh) |  | - | - | 0 | 0 | - |


| Intersection |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: |



| Intersection |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: |
| Int Delay, s/veh | 0.1 |  |  |  |  |  |
| Movement | WBL | WBR | NBT | NBR | SBL | SBT |
| Lane Configurations | Yr |  | $\uparrow$ |  |  | -1 |
| Traffic Vol, veh/h | 3 | 0 | 98 | 7 | 0 | 105 |
| Future Vol, veh/h | 3 | 0 | 98 | 7 | 0 | 105 |
| Conflicting Peds, \#/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 0 | - | - | - | - | - |
| Veh in Median Storage, \# | 0 | - | 0 | - | - | 0 |
| Grade, \% | 0 | - | 0 | - | - | 0 |
| Peak Hour Factor | 78 | 78 | 83 | 83 | 83 | 83 |
| Heavy Vehicles, \% | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 4 | 0 | 118 | 8 | 0 | 127 |



| Intersection |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: |



| Intersection |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: |



| Intersection |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: |
| Int Delay, s/veh | 1.3 |  |  |  |  |  |
| Movement | WBL | WBR | NBT | NBR | SBL | SBT |
| Lane Configurations | Mr |  | 1 |  |  | -1 |
| Traffic Vol, veh/h | 25 | 2 | 77 | 10 | 0 | 93 |
| Future Vol, veh/h | 25 | 2 | 77 | 10 | 0 | 93 |
| Conflicting Peds, \#/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 0 | - | - | - | - | - |
| Veh in Median Storage, \# | 0 | - | 0 | - | - | 0 |
| Grade, \% | 0 | - | 0 | - | - | 0 |
| Peak Hour Factor | 78 | 78 | 83 | 83 | 83 | 83 |
| Heavy Vehicles, \% | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 32 | 3 | 93 | 12 | 0 | 112 |


| Major/Minor | Minor1 |  | Major1 |  | Major2 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Conflicting Flow All | 211 | 99 | 0 | 0 | 105 | 0 |
| Stage 1 | 99 | - | - | - | - | - |
| Stage 2 | 112 | - | - | - | - | - |
| Critical Hdwy | 6.42 | 6.22 | - | - | 4.12 | - |
| Critical Hdwy Stg 1 | 5.42 | - | - | - | - | - |
| Critical Hdwy Stg 2 | 5.42 | - | - | - | - | - |
| Follow-up Hdwy | 3.518 | 3.318 | - | - | 2.218 | - |
| Pot Cap-1 Maneuver | 777 | 957 | - | - | 1486 | - |
| Stage 1 | 925 | - | - | - | - | - |
| Stage 2 | 913 | - | - | - | - | - |
| Platoon blocked, \% |  |  | - | - |  | - |
| Mov Cap-1 Maneuver | 777 | 957 | - | - | 1486 | - |
| Mov Cap-2 Maneuver | 777 | - | - | - | - | - |
| Stage 1 | 925 | - | - | - | - | - |
| Stage 2 | 913 | - | - | - | - | - |
|  |  |  |  |  |  |  |
| Approach | WB |  | NB |  | SB |  |
| HCM Control Delay, s | 9.8 |  | 0 |  | 0 |  |
| HCM LOS | A |  |  |  |  |  |
|  |  |  |  |  |  |  |
| Minor Lane/Major Mvmt |  | NBT | NBRWBLn1 |  | SBL | SBT |
| Capacity (veh/h) |  | - | - | 788 | 1486 | - |
| HCM Lane V/C Ratio |  | - | - | 0.044 | - | - |
| HCM Control Delay (s) |  | - | - | 9.8 | 0 | - |
| HCM Lane LOS |  | - | - | A | A | - |
| HCM 95th \%tile Q(veh) |  | - | - | 0.1 | 0 | - |


| Intersection |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: |


| Major/Minor $\quad$ N | Minor2 | Major1 Major2 |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Conflicting Flow All | 265 | 127 | 142 | 0 | - | 0 |  |
| Stage 1 | 127 | - | - | - | - | - |  |
| Stage 2 | 138 | - | - | - | - | - |  |
| Critical Hdwy | 6.42 | 6.22 | 4.12 | - | - | - |  |
| Critical Hdwy Stg 1 | 5.42 | - | - | - | - | - |  |
| Critical Hdwy Stg 2 | 5.42 | - | - | - | - | - |  |
| Follow-up Hdwy | 3.518 | 3.318 | 2.218 | - | - | - |  |
| Pot Cap-1 Maneuver | 724 | 923 | 1441 | - | - | - |  |
| Stage 1 | 899 | - | - | - | - | - |  |
| Stage 2 | 889 | - | - | - | - | - |  |
| Platoon blocked, \% |  |  |  | - | - | - |  |
| Mov Cap-1 Maneuver | 711 | 923 | 1441 | - | - | - |  |
| Mov Cap-2 Maneuver | 711 | - | - | - | - | - |  |
| Stage 1 | 883 | - | - | - | - | - |  |
| Stage 2 | 889 | - | - | - | - | - |  |
|  |  |  |  |  |  |  |  |
| Approach | EB |  | NB |  | SB |  |  |
| HCM Control Delay, s | 9.8 |  | 1.7 |  | 0 |  |  |
| HCM LOS | A |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| Minor Lane/Major Mvmt |  | NBL | NBT | EBLn1 | SBT | SBR |  |
| Capacity (veh/h) |  | 1441 | - | 791 | - | - |  |
| HCM Lane V/C Ratio |  | 0.018 |  | 0.055 | - | - |  |
| HCM Control Delay (s) |  | 7.5 | 0 | 9.8 | - | - |  |
| HCM Lane LOS |  | A | A | A | - | - |  |
| HCM 95th \%tile Q(veh) |  | 0.1 | - | 0.2 | - | - |  |


| Intersection |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: |
| Int Delay, s/veh | 0.4 |  |  |  |  |  |
| Movement | WBL | WBR | NBT | NBR | SBL | SBT |
| Lane Configurations | Yr |  | 1 |  |  | $\neq$ |
| Traffic Vol, veh/h | 7 | 1 | 100 | 14 | 2 | 107 |
| Future Vol, veh/h | 7 | 1 | 100 | 14 | 2 | 107 |
| Conflicting Peds, \#/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 0 | - | - | - | - | - |
| Veh in Median Storage, \# | 0 | - | 0 | - | - | 0 |
| Grade, \% | 0 | - | 0 | - | - | 0 |
| Peak Hour Factor | 78 | 78 | 83 | 83 | 83 | 83 |
| Heavy Vehicles, \% | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 9 | 1 | 120 | 17 | 2 | 129 |



| Intersection |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: |
| Int Delay, s/veh | 0.8 |  |  |  |  |  |
| Movement | WBL | WBR | NBT | NBR | SBL | SBT |
| Lane Configurations | M |  | 1 |  |  | $\uparrow$ |
| Traffic Vol, veh/h | 17 | 2 | 112 | 32 | 2 | 112 |
| Future Vol, veh/h | 17 | 2 | 112 | 32 | 2 | 112 |
| Conflicting Peds, \#/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 0 | - | - | - | - | - |
| Veh in Median Storage, \# | 0 | - | 0 | - | - | 0 |
| Grade, \% | 0 | - | 0 | - | - | 0 |
| Peak Hour Factor | 78 | 78 | 83 | 83 | 83 | 83 |
| Heavy Vehicles, \% | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 22 | 3 | 135 | 39 | 2 | 135 |



| Intersection |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: |
| Int Delay, s/veh | 2.6 |  |  |  |  |  |
| Movement | EBL | EBR | NBL | NBT | SBT | SBR |
| Lane Configurations | Mr |  |  | -1 | F |  |
| Traffic Vol, veh/h | 26 | 45 | 22 | 119 | 95 | 27 |
| Future Vol, veh/h | 26 | 45 | 22 | 119 | 95 | 27 |
| Conflicting Peds, \#/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 0 | - | - | - | - | - |
| Veh in Median Storage, \# | 0 | - | - | 0 | 0 | - |
| Grade, \% | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 83 | 83 | 83 | 83 | 83 | 83 |
| Heavy Vehicles, \% | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 31 | 54 | 27 | 143 | 114 | 33 |



| Intersection |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: |



| Intersection |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: |



| Intersection |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: |
| Int Delay, s/veh | 0.1 |  |  |  |  |  |
| Movement | WBL | WBR | NBT | NBR | SBL | SBT |
| Lane Configurations | Yr |  | $\uparrow$ |  |  | $\uparrow$ |
| Traffic Vol, veh/h | 3 | 0 | 148 | 7 | 0 | 142 |
| Future Vol, veh/h | 3 | 0 | 148 | 7 | 0 | 142 |
| Conflicting Peds, \#/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 0 | - | - | - | - | - |
| Veh in Median Storage, \# | 0 | - | 0 | - | - | 0 |
| Grade, \% | 0 | - | 0 | - | - | 0 |
| Peak Hour Factor | 78 | 78 | 87 | 87 | 83 | 83 |
| Heavy Vehicles, \% | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 4 | 0 | 170 | 8 | 0 | 171 |



| Intersection |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Int Delay, s/veh | 3 |  |  |  |  |  |
| Movement E | EBL | EBR | NBL | NBT | SBT | SBR |
| Lane Configurations | M |  |  | $\uparrow$ | $\uparrow$ |  |
| Traffic Vol, veh/h | 25 | 65 | 35 | 130 | 115 | 30 |
| Future Vol, veh/h | 25 | 65 | 35 | 130 | 115 | 30 |
| Conflicting Peds, \#/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control St | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 0 | - | - | - | - | - |
| Veh in Median Storage, \# | \# 0 | - | - | 0 | 0 | - |
| Grade, \% | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 83 | 83 | 87 | 87 | 83 | 83 |
| Heavy Vehicles, \% | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 30 | 78 | 40 | 149 | 139 | 36 |



| Intersection |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: |




| Major/Minor | Minor1 |  | Major1 |  | Major2 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Conflicting Flow All | 311 | 153 | 0 | 0 | 159 | 0 |
| Stage 1 | 153 | - | - | - | - | - |
| Stage 2 | 158 | - | - | - | - | - |
| Critical Hdwy | 6.42 | 6.22 | - | - | 4.12 | - |
| Critical Hdwy Stg 1 | 5.42 | - | - | - | - | - |
| Critical Hdwy Stg 2 | 5.42 | - | - | - | - | - |
| Follow-up Hdwy | 3.518 | 3.318 | - | - | 2.218 | - |
| Pot Cap-1 Maneuver | 681 | 893 | - | - | 1420 | - |
| Stage 1 | 875 | - | - | - | - | - |
| Stage 2 | 871 | - | - | - | - | - |
| Platoon blocked, \% |  |  | - | - |  | - |
| Mov Cap-1 Maneuver | 681 | 893 | - | - | 1420 | - |
| Mov Cap-2 Maneuver | 681 | - | - | - | - | - |
| Stage 1 | 875 | - | - | - | - | - |
| Stage 2 | 871 | - | - | - | - | - |
|  |  |  |  |  |  |  |
| Approach | WB |  | NB |  | SB |  |
| HCM Control Delay, s | 10.5 |  | 0 |  | 0 |  |
| HCM LOS | B |  |  |  |  |  |
|  |  |  |  |  |  |  |
| Minor Lane/Major Mvmt |  | NBT | NBRWBLn1 |  | SBL | SBT |
| Capacity (veh/h) |  | - | - | 693 | 1420 | - |
| HCM Lane V/C Ratio |  | - | - | 0.05 | - | - |
| HCM Control Delay (s) |  | - | - | 10.5 | 0 | - |
| HCM Lane LOS |  | - | - | B | A | - |
| HCM 95th \%tile Q(veh) |  | - | - | 0.2 | 0 | - |


| Intersection |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: |
| $l$ |  |  |  |  |  |  |



| Intersection |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: |
| Int Delay, s/veh | 0.3 |  |  |  |  |  |
| Movement | WBL | WBR | NBT | NBR | SBL | SBT |
| Lane Configurations | M |  | 6 |  |  | $\uparrow$ |
| Traffic Vol, veh/h | 7 | 1 | 150 | 14 | 2 | 144 |
| Future Vol, veh/h | 7 | 1 | 150 | 14 | 2 | 144 |
| Conflicting Peds, \#/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 0 | - | - | - | - | - |
| Veh in Median Storage, \# | 0 | - | 0 | - | - | 0 |
| Grade, \% | 0 | - | 0 | - | - | 0 |
| Peak Hour Factor | 78 | 78 | 87 | 87 | 83 | 83 |
| Heavy Vehicles, \% | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 9 | 1 | 172 | 16 | 2 | 173 |



| Intersection |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: |
| Int Delay, s/veh | 0.7 |  |  |  |  |  |
| Movement | WBL | WBR | NBT | NBR | SBL | SBT |
| Lane Configurations | M |  | 1 |  |  | $\uparrow$ |
| Traffic Vol, veh/h | 17 | 2 | 162 | 32 | 2 | 149 |
| Future Vol, veh/h | 17 | 2 | 162 | 32 | 2 | 149 |
| Conflicting Peds, \#/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 0 | - | - | - | - | - |
| Veh in Median Storage, \# | 0 | - | 0 | - | - | 0 |
| Grade, \% | 0 | - | 0 | - | - | 0 |
| Peak Hour Factor | 78 | 78 | 87 | 87 | 87 | 87 |
| Heavy Vehicles, \% | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 22 | 3 | 186 | 37 | 2 | 171 |


| Major/Minor | Minor1 |  | Major1 |  | Major2 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Conflicting Flow All | 380 | 205 | 0 | 0 | 223 | 0 |
| Stage 1 | 205 | - | - | - | - | - |
| Stage 2 | 175 | - | - | - | - | - |
| Critical Hdwy | 6.42 | 6.22 | - | - | 4.12 | - |
| Critical Hdwy Stg 1 | 5.42 | - | - | - | - | - |
| Critical Hdwy Stg 2 | 5.42 | - | - | - | - | - |
| Follow-up Hdwy | 3.518 | 3.318 | - | - | 2.218 | - |
| Pot Cap-1 Maneuver | 622 | 836 | - | - | 1346 | - |
| Stage 1 | 829 | - | - | - | - | - |
| Stage 2 | 855 | - | - | - | - | - |
| Platoon blocked, \% |  |  | - | - |  | - |
| Mov Cap-1 Maneuver | 621 | 836 | - | - | 1346 | - |
| Mov Cap-2 Maneuver | 621 | - | - | - | - | - |
| Stage 1 | 829 | - | - | - | - | - |
| Stage 2 | 853 | - | - | - | - | - |
|  |  |  |  |  |  |  |
| Approach | WB |  | NB |  | SB |  |
| HCM Control Delay, s | 10.9 |  | 0 |  | 0.1 |  |
| HCM LOS | B |  |  |  |  |  |
|  |  |  |  |  |  |  |
| Minor Lane/Major Mvmt |  | NBT | NBRWBLn1 |  | SBL | SBT |
| Capacity (veh/h) |  | - | - | 638 | 1346 | - |
| HCM Lane V/C Ratio |  | - | - | 0.038 | 0.002 | - |
| HCM Control Delay (s) |  | - | - | 10.9 | 7.7 | 0 |
| HCM Lane LOS |  | - | - | B | A | A |
| HCM 95th \%tile Q(veh) |  | - | - | 0.1 | 0 | - |


| Intersection |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: |


| Major/Minor | Minor2 | Major1 Major2 |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Conflicting Flow All | 432 | 170 | 191 | 0 | - | 0 |  |
| Stage 1 | 170 | - | - | - | - | - |  |
| Stage 2 | 262 | - | - | - | - | - |  |
| Critical Hdwy | 6.42 | 6.22 | 4.12 | - | - | - |  |
| Critical Hdwy Stg 1 | 5.42 | - | - | - | - | - |  |
| Critical Hdwy Stg 2 | 5.42 | - | - | - | - | - |  |
| Follow-up Hdwy | 3.518 | 3.318 | 2.218 | - | - | - |  |
| Pot Cap-1 Maneuver | 581 | 874 | 1383 | - | - | - |  |
| Stage 1 | 860 | - | - | - | - | - |  |
| Stage 2 | 782 | - | - | - | - | - |  |
| Platoon blocked, \% |  |  |  | - | - | - |  |
| Mov Cap-1 Maneuver | 562 | 874 | 1383 | - | - | - |  |
| Mov Cap-2 Maneuver | 562 | - | - | - | - | - |  |
| Stage 1 | 832 | - | - | - | - | - |  |
| Stage 2 | 782 | - | - | - | - | - |  |
|  |  |  |  |  |  |  |  |
| Approach | EB |  | NB |  | SB |  |  |
| HCM Control Delay, s | 10.9 |  | 1.4 |  | 0 |  |  |
| HCM LOS | B |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| Minor Lane/Major Mvmt |  | NBL | NBT | BLn1 | SBT | SBR |  |
| Capacity (veh/h) |  | 1383 | - | 730 | - | - |  |
| HCM Lane V/C Ratio |  | 0.029 |  | 0.167 | - | - |  |
| HCM Control Delay (s) |  | 7.7 | 0 | 10.9 | - | - |  |
| HCM Lane LOS |  | A | A | B | - | - |  |
| HCM 95th \%tile Q(veh) |  | 0.1 | - | 0.6 | - | - |  |

## MTCP Maps

## ER RD

## RD <br> 06



## HOPPER RRD

 P3
## Peyton

Excerpt From MTCP Map 13

