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Saddlehorn Ranch Filing No. 4
Traffic Impact Study
EPC PCD File No. SF-23-006
(LSC #S224651)
December 27, 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.

Date

Saddlehorn Ranch Filing No. 4

Traffic Impact Study

Prepared for:
Nathan Steel
ROI Property Group

DECEMBER 27, 2023

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

EPC PCD File No. SF-23-006
LSC #S224651



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December 27, 2023

Nathan Steele
ROI Property Group

RE: Saddlehorn Ranch Filing No. 4
El Paso County, CO
Traffic Impact Study
EPC PCD File No. SF-23-006
LSC #S224651

Dear Mr. Steele,

LSC Transportation Consultants, Inc. has prepared this traffic impact study for Saddlehorn Ranch Filing No. 4. is part of the greater 824-acre Saddlehorn Ranch residential development located southeast of the intersection of Curtis Road and Judge Orr Road in El Paso County, Colorado. The development includes 2.5-acre single-family residential lots. Figure 1 shows the location of the development. Access is proposed to Curtis Road and Judge Orr Road. This report follows our prior TIS report for the Preliminary Plan, Filing No. 2 report, Filing No. 3 report and is part of the Filing No. 4 Final Plat submittal to the 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;
- Review of the roadway improvement plans for the adjacent arterial roads;
- Review of other recent LSC traffic reports completed in the area;
- Updated weekday peak-hour turning-movement traffic counts at several of the major intersections in the area;
- Estimated average weekday traffic (ADT) volumes on Falcon Highway, Curtis Road, Judge Orr Road, and US Highway 24 (US Hwy 24);
- Projections of 20-year background traffic volumes at the study-area intersections and on Falcon Highway, Curtis Road, Judge Orr Road, and US Hwy 24;
- The proposed site land use and access plan;

- Estimates of average weekday and weekday peak-hour trip generation for the Filing No. 3 residential 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:
 - Falcon Highway/Curtis Road
 - Curtis Road/Judge Orr Road
 - Judge Orr Road/Del Cambre Trail
 - Judge Orr/Barrosito Trail
 - Curtis Road/Benito Wells Trail
 - Curtis Road/Oscuro Trail (Filing 1 and 2 intersection)
 - US Highway 24/Stapleton Road
- Intersection level of service analysis at the study-area intersections;
- Evaluation of the short- and long-term projected intersection volumes to determine, for Filing No. 4, 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;
- Findings and recommendations for Filing No. 4 relative to those identified in the Preliminary Plan TIS. This report includes a modified version improvements table from the Preliminary Plan report. This modified version focuses on Filing No. 4 improvements; and
- CDOT process and requirements for Filing No. 4, specifically for the US Hwy 24/Stapleton intersection.

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

The following previously-completed traffic reports were referenced when the preparing this report:

- Saddlehorn Ranch Preliminary Plan TIS – dated March 11, 2020
- Saddlehorn Ranch (Filing 2 TIS) – dated February 6, 2023
- Saddlehorn Ranch (Filing 3 TIS) – dated November 18, 2022 (rev. 2/26/2023)
- Meadowlake Industrial Park Rezone TIS report – dated July 29, 2022

LAND USE AND ACCESS

Figure 1 shows a vicinity map of the Filing No. 4 site location and study area. The site is located south of Judge Orr Road and east of Curtis Road. The greater 824-acre Saddlehorn Ranch development is also shown for reference. Saddlehorn at buildout of all five filings is planned to contain a total of 218 single-family residential lots. The following is a summary of the lot count by subdivision filing:

- Filing 1 – 49 dwelling units
- Filing 2 – 42 dwelling units
- Filing 3 – 44 dwelling units
- Filing 4 – 42 dwelling units (this application)
- Filing 5 – 41 dwelling units

Figure 2 shows the planned Saddlehorn Ranch access points (public road connections) and internal subdivision street connection between the arterials and Filing No. 4. Four full-movement access points are planned for the overall development (not including a potential future local road connection to the parcel to the south of Saddlehorn):

- Barrosito Trail – 1,320 feet east of Curtis Road/Judge Orr
- Del Cambre Trail – 2,750 feet east of Curtis Road/Judge Orr (1,430 feet east of Barrosito Trail)
- Benito Wells Trail – 2,750 feet south of Curtis Road/Judge Orr (1,430 feet north of Oscuro Trail)
- Oscuro Trail (Primarily serving Filing Nos. 1 and 2) – 5,280 feet south of Curtis Road/Judge Orr (1,430 feet north of Richland Drive, the proposed north site access to Meadowlake Industrial Park development to the south)

Filing No. 1 has been approved and Filing Nos. 2 and 3 are currently in the County review process. Filing No. 5 is being submitted concurrently with Filing No. 4.

Figure 3 shows the subdivision roadways to be constructed with each filing.

The proposed Filing No. 4 lot and street layout is shown in Figure 2 and generally matches/conforms to the Preliminary Plan. Filing No. 4 traffic will primarily utilize Barrosito Trail and Del Cambre Trail to access Judge Orr Road, with some trips using the Benito Wells Trail access to Curtis Road. A copy of the plat is attached for reference.

Subdivision roads will be constructed to Rural Local standards, so sidewalks would not be required. No trail connections are shown on the site plan. A Park 'n Ride facility is located approximately 4.5 miles southwest of the site near US Hwy 24/New Meridian Road. The nearest school (Falcon High School) is located approximately 3.5 miles northwest of the site.

Roadway construction plans for Curtis Road adjacent to Filings 1 and 2 were previously prepared, submitted, and approved (in the case of Filing No. 1). Filing No. 3 roadway improvement plans (by JR Engineering) for the sections of Curtis Road and Judge Orr Road adjacent to Filing 3 were included with the recent Filing No. 3 submittal (by JR Engineering).

Intersection sight distance must meet *ECM* criteria at all subdivision street intersections.

ROAD AND TRAFFIC CONDITIONS AND *MTCP* CLASSIFICATION

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

Judge Orr Road is a two-lane roadway that extends east from Eastonville Road across most of El Paso County. It is shown on the *El Paso County 2040 Major Transportation Corridors Plan* and the *Preserved Corridor Network Plan* as a four-lane Minor Arterial west of Curtis Road. Posted

speed limits range from 45 to 55 miles per hour (mph). West of Curtis Road, the speed limit is 45 mph. The limit increases to 55 mph east of Curtis Road. The intersection of Curtis Road and Judge Orr Road is two-way, stop-sign-controlled with the stop signs on the northbound and southbound approaches. The intersection of US Hwy 24/Judge Orr Road is signalized. Due to the oblique angle of this intersection, the eastbound and westbound approaches are split-phased. The *US 24 Access Control Plan/PEL Study* shows future plans for realignment of Judge Orr at US Hwy 24 to improve the intersection and provide an intersection skew angle closer to 90 degrees.

Curtis Road is a two-lane roadway that extends south from the intersection of US Hwy 24/Stapleton Road intersection to Drennan Road. It is shown as a two-lane, rural Principal Arterial on El Paso County's *2040 Major Transportation Corridors Plan* and a four-lane Principal Arterial on the *Preserved Corridor Network Plan*. Adjacent to the site, the posted speed limit is 45 mph. Both intersections of Curtis Road/Orr Road and Curtis Road/Falcon Highway are two-way, stop-sign-controlled. The newer section north of Judge Orr, which connects to Stapleton Drive, was constructed to current *ECM* standards with paved shoulders, etc. Generally, Curtis Road is an "unimproved," two-lane paved road between Judge Orr and Falcon Highway. Roadway construction plans for Curtis Road adjacent to Saddlehorn have been prepared (the plans for the segment adjacent to Filing No. 1 were approved). Please refer to the "deviations" section of this report for a brief discussion of the interim cross section to be constructed.

Existing Traffic Volumes

Vehicular-turning-movement counts were conducted at the study-area intersections. Figure 4 shows these turning-movement volumes, as well as the average weekday traffic volumes (estimated based on factored peak-hour count data) on the study-area roadways. Raw count data are attached.

- Curtis Road/Falcon Highway
 - Wednesday, April 20, 2022 from 6:30 – 8:30 a.m.
 - Wednesday, April 20, 2022 from 4:00 – 6:00 p.m.
- Curtis Road/Judge Orr Road
 - Thursday, April 21, 2022 from 6:30 – 8:30 a.m.
 - Thursday, April 21, 2022 from 4:00 – 6:00 p.m.
- US Hwy 24/Judge Orr Road
 - Tuesday, May 10, 2022 from 6:30 – 8:30 a.m.
 - Tuesday, May 10, 2022 from 4:00 – 6:00 p.m.
- US Hwy 24/Stapleton Drive
 - January 10, 2023 from 6:30 – 8:30 a.m.
 - January 10, 2023 from 4:00 – 6:00 p.m.

Existing Level of service

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 1 shows the level of service delay ranges for signalized and unsignalized intersections.

Table 1: Intersection Levels of Service Delay Ranges

| Level of Service | Signalized Intersections | Unsignalized Intersections |
|------------------|---|--|
| | Average Control Delay (seconds per vehicle) | Average Control Delay (seconds per vehicle) ⁽¹⁾ |
| A | 10.0 sec or less | 10.0 sec or less |
| B | 10.1-20.0 sec | 10.1-15.0 sec |
| C | 20.1-35.0 sec | 15.1-25.0 sec |
| D | 35.1-55.0 sec | 25.1-35.0 sec |
| E | 55.1-80.0 sec | 35.1-50.0 sec |
| F | 80.1 sec or more | 50.1 sec or more |

(1) For unsignalized intersections, if V/C ratio is greater than 1.0 the level of service is LOS F, regardless of the projected average control delay per vehicle.

Level of service values for existing conditions have been included on Figure 4 for each turning movement/approach during the weekday morning and evening peak hours for the proposed site-access intersections and off-site intersections in the study area. Please refer to the figure and attached LOS reports for additional detail.

TRIP GENERATION

Estimates of the vehicle trips projected to be generated by the proposed Saddlehorn Ranch Filing No. 4 have been made using the nationally published trip-generation rates for land-use code “210 – Single-Family (Detached) Housing” from *Trip Generation, 11th Edition, 2021* by the Institute of Transportation Engineers (ITE).

The estimated site trip generation for Filing 4 is shown in Table 5 (attached). The table also shows the other Saddlehorn Ranch filings for reference.

This Application

Filing 4 – 42 Dwelling Units (This application)

Filing 4 consists of 42 lots for single-family homes. Resulting trip-generation estimates for Filing 4 are as follows:

- A.M. peak hour – 8 entering and 23 exiting trips
- P.M. peak hour – 26 entering and 15 exiting trips
- Daily 24-hour – 424 total trips, with half entering and half exiting

Prior and Future Filings and Overall Saddlehorn Buildout (for Reference)

Filing 5 – 41 Dwelling Units (Future – but application being submitted concurrently with Filing No. 4)

The final 41 dwelling units would be constructed during Filing 5. Resulting trip-generation estimates for Filing 5 are as follows:

- A.M. peak hour – 8 entering and 23 exiting trips
- P.M. peak hour – 26 entering and 15 exiting trips
- Daily 24-hour – 424 total trips, with half entering and half exiting

Overall Saddlehorn Development Buildout – 218 Dwelling Units

A total of 218 dwelling units are planned to be constructed by buildout of all Filings 1-5. Resulting trip-generation estimates for the residential development at buildout are as follows:

- A.M. peak hour – 42 entering and 120 exiting trips
- P.M. peak hour – 136 entering and 80 exiting trips
- Daily 24-hour – 2,200 total trips, with half entering and half exiting

TRIP DISTRIBUTION AND ASSIGNMENT

Trip Directional Distribution

Figure 5 shows the estimated percentages of the short-term and long-term site-generated vehicle trips. These percentages have been taken from the Preliminary Plan TIS report.

Site-Generated Traffic

Short Term (Filing 4 Only)

Short-term site-generated traffic volumes have been estimated at the study-area intersections by applying the short-term directional-distribution percentages estimated by LSC (from Figure 5) to the trip-generation estimates (from Table 5). Figure 6 shows projected short-term site-generated traffic volumes for Filing 4 only during the weekday morning and evening peak

hours, as well as the estimated average daily traffic volumes (ADTs). The volumes shown in Figure 6 reflect Filing No. 4-specific trip routing on the area roadway system between the site and directional distribution “gates” or trip origin/destination reference points.

Short Term (Filings 1-5 Combined – Saddlehorn Buildout – For Reference)

Short-term Saddlehorn buildout site-generated traffic volumes have been estimated at the study-area intersections by applying the short-term directional-distribution percentages estimated by LSC (from Figure 5) to the trip-generation estimates (from Table 5). Figure 7 shows projected short-term site-generated traffic volumes for all Filings 1-5 combined during the weekday morning and evening peak hours, as well as the estimated average daily traffic volumes (ADTs). Site-generated traffic volumes for Saddlehorn buildout in Figure 7 assume full buildout of all 218 dwelling units to be constructed during the short term for Filings 1-5 combined.

Long Term (Filings 1-5 Combined – Saddlehorn Buildout – For Reference)

Long-term site-generated traffic volumes have been estimated at the study-area intersections. The volumes have been calculated by applying the long-term directional-distribution percentages estimated by LSC (from Figure 5) to the trip-generation estimates (from Table 5). Figure 8 shows projected long-term site-generated traffic volumes for the weekday morning and evening peak hours. The figure also shows the estimated average daily traffic volumes (ADTs). Site-generated traffic volumes on Figure 8 assume full buildout of all 218 dwelling units during the long term.

Short-Term Total Traffic Volumes

Figure 9 shows the sum of the existing traffic volumes (from Figure 4) and short-term site-generated peak-hour traffic volumes (shown in Figure 7). These volumes represent the projected short-term total traffic following full buildout of **Filings 1-5**. Laneage and traffic control at the study-area intersections following short-term site buildout are shown in Figure 9.

2043 Background Traffic Volumes

The 2043 background traffic volumes, shown in Figure 10, are generally based on the projections presented in the Preliminary Plan report, but adjustments have been made, including adjustments based on more recent traffic count data and projections in LSC’s recent *Meadowlake Industrial Park* report (dated July 29, 2022). Traffic projected for Saddlehorn Ranch (all Filings) is **not** included in the 2043 **background** traffic volumes.

2043 Total Traffic Volumes

Figure 11 shows the sum of 2043 background traffic volumes (from Figure 10) plus long-term site-generated traffic volumes (from Figure 8).

LEVEL OF SERVICE ANALYSIS

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

- Figure 4: Existing Traffic, Lane Geometry, Traffic Control, and LOS
- Figure 9: Existing + Site Traffic, Lane Geometry, Traffic Control, and LOS
- Figure 10: 2043 Background Traffic, Lane Geometry, Traffic Control, and LOS
- Figure 11: 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.

Judge Orr Road/Barrosito Trail

All individual turning movements and approaches at this stop-sign-controlled intersection are projected to operate at LOS D or better through 2043 during both peak hours.

Judge Orr Road/Del Cambre Trail

All individual turning movements and approaches at this stop-sign-controlled intersection are projected to operate at LOS B or better through 2043 during both peak hours.

Curtis Road/Benito Wells Trail

All individual turning movements and approaches at this stop-sign-controlled intersection are projected to operate at LOS C or better through 2043 during both peak hours.

Judge Orr Road/Curtis Road

Short Term

Currently, all individual approaches/turning movements at the intersection of Judge Orr/Curtis operate at LOS B or better during both peak hours. All individual turning movements are projected to operate at LOS C or better during the short-term with the addition of Saddlehorn Filing Nos. 1-5 site-generated traffic (two-way stop-sign-controlled (TWSC) intersection).

Long Term

Assuming the intersection of Judge Orr/Curtis is converted from TWSC to a two-lane roundabout in the future, all individual turning movements would operate at LOS B or better during both peak hours of the long-term buildout scenario. This intersection improvement was previously recommended in the *Saddlehorn Ranch* traffic study. Additionally, eastbound and westbound

approaches on Judge Orr Road and the southbound approach on Curtis Road are assumed to be two through lanes in each direction (per the 2040 *MTCP*).

Falcon Highway/Curtis Road

Short Term

All individual approaches/turning movements at the intersection of Falcon Highway/Curtis Road currently operate at LOS C or better and would remain LOS D or better during both peak hours with the addition of short-term site-generated traffic.

Long Term

Assuming the intersection of Falcon Highway/Curtis Road is converted from TWSC to a two-lane roundabout in the future, all individual turning movements would operate at LOS C or better during both peak hours of the long-term buildout scenario. This intersection improvement was previously recommended in the *Saddlehorn Ranch* traffic study. Additionally, the analysis assumes some two-lane approaches to the roundabout at the Falcon Highway/Curtis Road intersection proper, even though roadway links are shown to remain one through lane in each direction (per the 2040 *MTCP*).

AUXILIARY TURN-LANE ANALYSIS, INTERSECTION CONFIGURATION, AND TRAFFIC CONTROL

Please refer to the attached Roadway Improvements Table for details. The following provides a summary and discussion.

Auxiliary Turn-Lane Requirements

Auxiliary turn lanes at the access points and study-area intersections would be required to meet design criteria specified in El Paso County's *Engineering Criteria Manual* (*ECM* Tables 2-24 and 2-27) or the Colorado State Highway Access Code (CDOT) for US Hwy 24 intersections.

Turn-Lane Criteria – El Paso County

Table 3 summarizes peak-hour auxiliary left- and right-turn lane thresholds according to *ECM* criteria. Roadway classifications for key County thoroughfares in the vicinity of the site include:

- Expressway – US Highway 24
- Principal Arterial – Curtis Road
- Minor Arterial – Judge Orr Road

Table 3: ECM Auxiliary Turn-Lane Thresholds by Functional Classification

| Functional Classification | Deceleration Lanes | | Acceleration Lanes | |
|--|--------------------|---------|--------------------|------------------------|
| | Left | Right | Left | Right |
| Expressway | Required | 10+ vph | * | 10+ vph |
| Principal Arterial | 10+ vph | 25+ vph | * | 50+ vph |
| Minor Arterial and Lower | 25+ vph | 50+ vph | * | Generally not required |
| * May be required if the design would benefit safety and roadway operations Note: vph = vehicles per hour | | | | |

Based on projected volumes and *ECM* criteria summarized in Table 3 -, auxiliary turn lanes would be required for the following turning movements at the following study-area intersections.

Note: all recommended auxiliary turn lanes at these intersections have been based on the *ECM* design speed for the roadway’s classification, with adjustments for storage lengths and/or based on the more site-specific design speed of the adjacent roadway (if different from the *ECM* design speed by general roadway classification).

Curtis Road/Oscuro Trail

Filing No. 4 is not projected to add traffic to this intersection. Please refer to the traffic report for Filing No. 2 for turn-lane recommendations specific to this intersection.

Curtis Road/Benito Wells Trail

Southbound-Left Deceleration Lane

The projected Filing Nos. 1, 2, 3, and 4 site-generated traffic volumes show a southbound-left turn volume over 10 vehicles per hour at the Benito Wells Trail/Curtis Road intersection. This is the threshold for a left-turn lane on a Principal Arterial. Based on the Preliminary Plan TIS, the Benito Wells Trail/Curtis Road intersection would include a southbound left-turn lane. Based on a design speed of 50 mph, this 485-foot turn lane should consist of 235 feet of deceleration length, a 200-foot approach taper, 50 feet of storage, and a 45:1 redirect taper length. Construction plans show this auxiliary turn lane being constructed with Filing 2.

Northbound-Right Deceleration Lane

The projected northbound-right turning volume would not exceed the 25-vph threshold requiring a right-turn deceleration lane with the projected short-term, Filings 1, 2, 3, and 4 turning-movement volumes. Construction plans show this auxiliary turn lane to be constructed with Filing No. 2. *ECM* turn-lane-length criteria based on a design speed of 50 mph shows a 435-foot turn lane consisting of 235 feet of deceleration length plus a 200-foot approach taper.

Judge Orr Road/Barrosito Trail

Based on projected short-term and long-term eastbound-right and westbound-left turning-movement volumes, no auxiliary turn lanes would be required at this proposed intersection (proposed site access). The Filing No. 3 construction plans show a right-turn deceleration lane at this intersection in case the actual volume (once developed) is higher than projected and exceeds the threshold requiring a turn lane.

Judge Orr Road/Del Cambre Trail

Based on projected short-term and long-term eastbound-right and westbound-left turning movement volumes, no auxiliary turn lanes would be required at this proposed intersection (proposed site access). The Filing No. 3 construction plans show a right-turn deceleration lane at this intersection in case the actual volume (once developed) is higher than projected and exceeds the threshold requiring a turn lane.

Judge Orr Road/Curtis Road

The intersection will likely require future improvements/upgrades, including AWSC, roundabout, or signal control, in order for all individual turning movements/approaches to operate at an acceptable level of service in the long-term. The development may be required to participate in future improvements or construct improvements. The intersection could potentially be converted to a modern roundabout in the future, as recommended in LSC's Preliminary Plan study for Saddlehorn and the *Meadowlake Industrial Park* (July 2022) traffic study.

All individual turning movements are projected to operate at LOS C or better during the short term for this project (assuming no traffic yet added by the proposed Meadowlake Industrial Park site to the southwest).

Note: The following future auxiliary turn-lane upgrade would not be required if a roundabout is selected as the ultimate traffic control in the future at the intersection of Judge Orr Road/Curtis Road. However, this auxiliary turn lane may be needed if two-way stop control remains the intermediate traffic-control condition or with future traffic-signal control:

- Eastbound right-turn deceleration lane
 - 290-foot deceleration lane
 - 240-foot approach taper

As called out in the Filing No. 3 TIS,

The current eastbound AM peak-hour right-turn volume exceeds the ECM-threshold right-turning volume of 50 vph for which a right-turn lane is prescribed. The current eastbound PM peak-hour volume does not currently exceed this threshold. The existing-plus-Filing No. 1-5 site-generated eastbound PM peak-hour volume is not projected to exceed this threshold.

Regarding short- or intermediate-term need for this right-turn lane, Colorado State Highway Access Code Section 3.5 (5) has a provision stating:

“The auxiliary lanes required in the category design standards may be waived when the 20th year predicted roadway volumes conflicting with the turning vehicle are below the following minimum volume thresholds. The right turn deceleration lane may be dropped if the volume in the travel lane is predicted to be below 150 DHV.”

Neither the AM nor PM peak-hour eastbound through volume is currently at the 150 vph level. For the existing-plus-Filings 1-5 traffic condition, the AM peak-hour eastbound through movement is not shown to exceed 150 and the PM peak-hour eastbound right-turn movement is not projected to exceed 50. However, the background intersection traffic movements are expected to increase over time, with either the PM peak-hour right-turn volume increasing to over 50, and/or the AM peak-hour through movement increasing to over 150.

The check for these thresholds could occur with future subdivision filings and a determination could be made at that time if this project should install the turn lane (with fee-program credit per fee-program provisions). Otherwise, each filing, including Filing No. 3, should escrow for pro rata share of this future improvement.

A current count at the intersection of Judge Orr Road/Curtis Road is attached. This count data was used to check the threshold for Filing No. 4.

Falcon Highway/Curtis Road

The intersection will likely require future improvements/upgrades, including traffic control, in order for all individual turning movements/approaches to operate at an acceptable level of service in the long term. The development may be required to participate in future improvements or construct improvements. The intersection of Falcon Highway/Curtis Road could potentially be converted to a roundabout in the long term, as all approaches would operate at LOS D or better as shown in the analysis.

Note: The following auxiliary turn-lane **upgrades** would not be required if a roundabout were to be constructed at the intersection of Falcon Highway/Curtis Road. However, these auxiliary turn

lanes may be needed as long as two-way stop-sign control remains the traffic control or with future traffic-signal control:

- Southbound right-turn deceleration lane (New Lane – with signal control or if needed for operations)
 - 235-foot deceleration lane
 - 200-foot approach taper
- Eastbound left-turn deceleration lane
 - 290-foot deceleration lane
 - 100 feet of storage length
 - 240-foot approach taper
 - 55:1 redirect taper length
- Westbound right-turn deceleration lane
 - 290-foot deceleration lane
 - 240-foot approach taper

Please refer to the attached Improvements Table for additional details. Note: A deviation request has been prepared to allow interim use of the existing lane and tapers and defer this improvement (based on short-term turning volumes /associated queue length). There is a drainage channel just to the west. This deviation request form was included with the Filing No. 3 submittal in October 2023. A copy is also attached to this report for reference.

ROADWAY CLASSIFICATIONS

All roadways within this subdivision filing should be classified as Rural Local.

ROADWAY SEGMENT IMPROVEMENTS

The segments of Curtis Road and Judge Orr Road adjacent to Filing No. 3 will be improved with Filing No. 3, per the approved deviations (see the next section for details). Also, please refer to the Filing No. 3 construction plans. Right-of-way along the east side of Curtis Road and the south side of Judge Orr Road will be dedicated with adjacent Filings 1, 2, and 3. Details are presented in Table 4 (attached) and shown in the construction drawings.

Please refer to the Filing No. 1, Filing No. 2, and Filing No. 3 construction drawing sets for plans for upgrades to Curtis Road adjacent to those respective subdivision filings.

Curtis Road Improvements

The construction plans for Curtis Road with Filing No. 2 indicate that improvements will extend about 775 feet north of Benito Wells Trail and 1,100 feet south of Benito Wells Trail. Travel lanes will be 12-feet wide. The cross section will include an 8-foot outside paved shoulder and 2-foot gravel shoulder along the east side of Curtis Road and a 2-foot outside paved shoulder and 2-foot gravel shoulder on the west side of Curtis Road.

Auxiliary turn lanes to be constructed at the intersection of Benito Wells Trail/Curtis Road will include a northbound right-turn deceleration lane and a southbound left-turn deceleration lane.

Adjacent to the northbound right-turn lane on the east side of the roadway, there will be a 2-foot-wide outside paved shoulder and a 2-foot-wide gravel shoulder. The Curtis Road section which will include the southbound left-turn lane will have a cross section including 2-foot outside paved shoulders (both sides) and 2-foot gravel shoulders.

Internal Subdivision Roadways

All proposed internal roadways for Filing No. 4 should be constructed to Rural Local design standards.

DEVIATIONS

Currently-Requested Deviation

Curtis Road & Falcon Highway Intersection - Eastbound Left-Turn-Lane Lengthening

A deviation to allow interim use of the existing lane and tapers and defer this improvement (based on short-term turning volumes /associated queue length). There is a drainage channel just to the west. This deviation request form was included with the Filing No. 3 submittal in October 2023. A copy is also attached to this report for reference. Depending on/pending approval of this deviation, the development would contribute a fair share escrow amount toward a future improvement. An Escrow Calculation Spreadsheet has been prepared. This table is attached to the "LSC Responses to EPC PCD Comment Memo Comments" and the draft escrow agreement(s) and road fee credit agreement (separate submittal item).

The future improvement would encompass bringing the existing turn lane up to *ECM* standards. The *ECM* criteria for turn lanes requires elements of deceleration distance plus stacking distance plus taper length. On a roadway with a 60-mph design speed (55 posted), the required full-width, left-turn lane length is 290 feet plus left-turn stacking/queuing distance. The required transition taper is 240 feet. For this turn lane, the stacking requirement would be 50 feet (100 feet based on long-term projections) and the resulting total prescribed turn-lane length would be 580 feet. Redirect tapers at a ratio of 55:1 would also need to be part of the design.

Approved Deviations (attached for reference)

Curtis Road

A deviation (by JR Engineering, dated September 28, 2020) was approved for modification to the standard *ECM* cross section of Curtis Road, a Rural Two-Lane, Principal Arterial roadway (*ECM* Section 2.2.4 criteria). The *ECM* requires that Rural Principal Arterial cross-sections consist of

12-foot travel lanes with 8-foot paved, outside shoulders. The approved deviation shows the modified interim cross section with a 2-foot paved, outside shoulder on the west side of the roadway instead of an 8-foot shoulder, as this is the maximum that can fit within the existing western right-of-way (ROW) without needing to acquire additional ROW from the adjacent property owners. The east side of the roadway will be constructed with an 8-foot outside shoulder. Please refer to the attached approved deviation for more information.

Judge Orr Road

A deviation (by JR Engineering, dated September 4, 2020) was approved for modification to the standard *ECM* cross section of Judge Orr Road, which has a 2040 classification of Rural Four-Lane, Minor Arterial roadway (*ECM* Section 2.2.4 criteria). Although Judge Orr Road is shown as a four-lane Rural Minor Arterial in the 2040 *MTCP*, the *ECM* does not have a standard cross-section for this type of roadway functional classification. The deviation shows an interim four-lane Rural Minor Arterial cross-section with an additional eastbound 12-foot travel lane on the south side (Saddlehorn side).

Additional ROW would be required for completion of the full 4-lane section, but additional ROW is not available (not controlled by this development) on the north side of Judge Orr Road. Currently, Saddlehorn Ranch is dedicating an additional 40 feet of ROW to facilitate this in the future. Please refer to the attached deviation and deviation exhibit for more information.

COUNTY ROAD IMPROVEMENT FEE PROGRAM

El Paso County Road Impact Fee Program

This project will be required to participate in the El Paso County Road Improvement Fee Program. Saddlehorn Filing No. 4 will select the “Opt-out” option (no PID) and would pay the “Full Fee” amount at building permit. The current (2019) fee amount associated with this option is **\$3,850** per dwelling unit (subject to change). Based on 42 lots, the total building permit fee for this plat would be \$161,700.

IMPROVEMENTS SUMMARY TABLE

Table 10 contained in the Preliminary Plan TIS report presented the roadway improvement recommendations including auxiliary turn lane needs, traffic control, anticipated right-of-way dedication, and corridor preservation. An updated/modified copy of that table, addressing items specific to the proposed Filing No. 4, is included in this report as Table 4.

Additionally, US Highway 24/Stapleton is planned to be signalized. This project will need to escrow funds for this future signal on a pro-rata basis. Curtis Road, Judge Orr Road, and Stapleton Road north of Curtis Road are shown to need roadway upgrades on the 2040 *MTCP* based on anticipated growth and the Stapleton extension to Briargate Parkway. The intersections of

Curtis/Judge Orr and Curtis/Falcon Highway may need to be upgraded to roundabout or traffic-signal control by 2040. All-way, stop-sign control may be an interim option prior to ultimate signalization or roundabout control.

CDOT PROCESS AND REQUIREMENTS

- US Highway 24/Stapleton is planned to be signalized. The CDOT comment letter for Filing No. 2 indicates that the applicant will be required to escrow a fair share amount toward the future traffic signal at the US Hwy 24/Stapleton Road intersection for this subdivision filing. An access permit will be required to process the escrow.
LSC Note: There are a number of developments in the area – in progress and future/planned - which will also add traffic to this intersection and impact the Four-hour warrant. As CDOT collects escrow for other developments, LSC recommends that as the collective impact trips (directly impacting the Four-hour warrant volumes) by area developments begins to exceed the 60 vehicle-per-hour denominator, fair-share recalculation of pro-rata share escrow amounts and credit be provided to developments according to the updated fair-share calculations. Also, once the signal is installed, credit should be provided from the Countywide Fee Program based on a ratio of fee program unit signal cost divided by the \$700K signal cost.
- Please refer to the improvements table for detailed calculations and additional information.
- The CDOT comment letter for Filing No. 2 states the following: Section 2.6 of the State Highway Access Code, states that if changes in land use, vehicle operation and access use from a state highway states an updated access permit will be required for the intersection of US Hwy 24/Stapleton Road.

FINDINGS AND CONCLUSIONS

- Filing No. 4 is projected to generate about 424 vehicle trips on the average weekday.
- For Filing 4, during the weekday morning peak hour of adjacent street traffic, 8 vehicles would enter the site while 23 vehicles would exit.
- For Filing 4, during the weekday evening peak hour of adjacent street traffic, 26 vehicles would enter the site while 15 vehicles would exit.
- All Saddlehorn Ranch proposed site accesses to Curtis Road and Judge Orr Road are projected to operate at LOS D or better during both peak hours through 2043. Please refer to the level of service section for additional information. The level of service analysis analyzes potential future roundabout traffic control at the intersections of Curtis Road/Judge Orr and Falcon Highway/Curtis Road during the long term. The roundabout may be needed in the future in order for all turning movements/approaches at the intersection to operate at an acceptable level of service (LOS D or better).. Signal control may also be an option. All-way, stop-sign control may be an interim option prior to ultimate signalization or roundabout control.
- Please refer to the Improvements Table for a detailed list of roadway system improvements.
- Please refer to the “Auxiliary Turn-Lane Analysis” section above and the improvements table for recommendations related to Filing No. 4.

- All subdivision streets within the site should be designed and constructed to meet Rural Local criteria prescribed in the ECM.
- Please refer to the “CDOT requirements” section above regarding the Stapleton/US Hwy 24 intersection.
- This project will be subject to participation in the El Paso County Road Impact Fee Program. This project will select the “Opt-out” option (no PID) and would pay the “Full Fee” amount at building permit. The current fee amount is \$3,850 per dwelling unit (subject to change). Based on 42 lots, the total building permit fee for this plat would be \$161,700.

* * * * *

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 4 - Table 5
Figure 1 - Figure 11
Traffic Count Reports
Synchro LOS Reports
Deviation Request – Eastbound Left Turn Lane at Curtis Road/Falcon Highway
Approved Deviation (Curtis Road)
Approved Deviation (Judge Orr Road)

Tables 4-5



| Table 4*: Roadway Improvements | | | |
|--|---|---|--|
| Saddlehorn Ranch Filing No. 4 | | | |
| Offsite Intersections | | | |
| Item # | Improvement | Timing | Responsibility |
| US Highway 24/Judge Orr Intersection | | | |
| 1.1 | Realignment of Judge Orr Road at US Highway 24 per CDOT Hwy 24 PEL Study | Future (the PEL study identified this as a high priority project with a time frame of less than 5 years) | CDOT |
| 1.2 | Southwest-bound right-turn deceleration lane on US Hwy 24 approaching Judge Orr Road | As required by other development(s) or with realignment of US Hwy 24/Judge Orr | CDOT or by others |
| 1.3 | Construct southwest-bound right-turn acceleration lane on US Hwy 24 at Judge Orr Road | As required by other development(s) or with realignment of US Hwy 24/Judge Orr | CDOT or by others |
| 1.4 | Eastbound left-turn lane on Judge Orr Road approaching US Hwy 24 | With realignment of US Hwy 24/Judge Orr | CDOT |
| 1.5 | Westbound dual left-turn lanes on Judge Orr Road approaching US Hwy 24 | With realignment of US Hwy 24/Judge Orr | CDOT |
| 1.6 | Northeast-bound right-turn deceleration lane on US 24 approaching Judge Orr Road | With realignment of US Hwy 24/Judge Orr | CDOT |
| 1.7 | Eastbound right-turn deceleration lane on Judge Orr Road approaching US Hwy 24 | As required by other development(s) or with realignment of US Hwy 24/Judge Orr | CDOT or by others |
| US Highway 24/Stapleton Intersection | | | |
| 2.1a | CDOT Escrow for Participation in the cost of future signalization - \$75,000** (Note: Opportunity for County fee Program credit/reimbursement for a portion; also opportunity for cost recovery as other area project are required to escrow funds and if/when this development's overall fair share percentage is reduced accordingly in the future. | With the Filing No. 4 Plat | Applicant |
| 2.1b | Signalize the intersection | Once warrants are met | CDOT is collecting escrow from area developments impacting this intersection. |
| Curtis Road/Falcon Highway | | | |
| 3.1 | Filing No. 4 Escrow toward the cost of future lengthening of the eastbound left-turn lane to ECM standards on Falcon Highway approaching Curtis Road | Currently warranted by ECM; A Deviation request was submitted with Filing 3 in October 2023 and a copy is also included with this Filing No. 4 resubmittal. The deviation is a request to allow interim use of the existing lane and taper (based on short term turning volumes /associated queue length). Please refer to the deviation request for details. For Existing plus Fil. 1-5, recommended "trigger:" once projected queue (95th percentile) exceeds 50' | Escrow for pro-rata share of improvement (Pending Deviation Request Action) or construction at the time of Filing No. 4 development (fee program credit per fee program provisions) |
| 3.2 | Long Term: In the case of a future signalized intersection - Construct southbound right-turn deceleration lane on Curtis Road approaching Falcon Highway | Upon Signalization | Escrow for pro-rata share of improvement or construction if warranted at the time of development (fee program credit per fee program provisions) |
| 3.2 | Long Term: Reconstruct intersection as a modern roundabout (or signalize the intersection) | Once LOS of AWSC drops below acceptable levels (roundabout); or once signal warrants are met (for conversion to a signal or roundabout) | El Paso County -- This intersection will be fee-program eligible for a signal/roundabout and applicant will pay fee program traffic impact fees. |
| Adjacent County Arterial Roadway ROW Requirements | | | |
| 4.1 | Judge Orr Right-of-Way Dedication - 4 Lane Minor Arterial, Rural 130' to 150 estimated right-of-way dedication' (Note: 4-lane Rural Principal is 180') | Shown in 2040 MTCP; Dedicate adjacent ROW with the Filing No. 3 and No. 4 Plats | Applicant |
| 4.2 | Judge Orr - 4 Lane Minor Arterial - Beyond above dedication, no additional right-of-way preservation needed. | Shown in 2060 Corridor Pres Plan | Applicant |
| 4.3 | Curtis Road - 2 Lane Rural Principal Arterial 72' from existing centerline/section line to proposed ROW lind. This translates to 42 feet of ROW dedication. (Note: 4-lane Rural Principal is 180') | Dedicate adjacent ROW with the Filing No. 3 Plat | Applicant |
| 4.4 | Curtis Road - 4 Lane Rural Principal Arterial 180' right-of-way preservation (90 feet east of the existing centerline/section line). | Shown in 2060 Corridor Pres Plan; Reserve up to 90 feet as required with the Filing No. 3 plat. | Applicant |
| Roadway Segment Improvements | | | |
| 5.1 | Falcon Highway - Upgrade to Two-Lane Rural Minor Arterial | Shown in 2040 MTCP | MTCP Project No. U5; Details TBD; applicant will pay fee program traffic impact fees. |
| 5.2a | Judge Orr Road (Short Term) - Filing No. 3 construction plans show widening of the south side along the site frontage to include an additional 24' of asphalt pavement, plus a two-foot gravel shoulder. Please see Filing No. 3 CDs. | With development of Filing No. 3 | Applicant with potential for negotiated fee program credit based on construction of the ultimate four-lane, Rural Minor Arterial half section. This will be subject to submission and review and potential acceptance of a proposed fee program credit agreement by EPC and the Fee Program Committee. |
| 5.2b | Judge Orr Road (Long Term) - Future widening on the north side to completed the ultimate Four Lane Rural Minor Arterial | Four-lane Rural Minor Arterial Shown in 2040 MTCP | MTCP Project No. C15; Details TBD; - applicant will pay fee program traffic impact fees. |
| 5.3a | Short Term: Curtis Road Adjacent to Filing No. 1 - Interim upgrades to Curtis Road - to be constructed with Filing No. 1 - Please refer approved Filing No. 1 CDs. | To be constructed with Filing No. 2 | Applicant with potential for negotiated fee program credit based on constructed half-section. This will be subject to submission and review and potential acceptance of a proposed fee program credit agreement by EPC and the Fee Program Committee. |
| 5.3b | Short Term: Curtis Road Adjacent to Filing No. 2 - Interim upgrades to Curtis Road - to be constructed with Filing No. 2 - Please refer to Filing No. 2 CDs. | To be constructed with Filing No. 2 | Applicant with potential for negotiated fee program credit based on constructed half-section. This will be subject to submission and review and potential acceptance of a proposed fee program credit agreement by EPC and the Fee Program Committee. |
| 5.3c | Short Term: Curtis Road Adjacent to Filing No. 3 - Interim upgrades to Curtis Road - to be constructed with Filing No. 3 - Please refer to Filing No. 3 CDs. | To be constructed with Filing No. 3 | Applicant with potential for negotiated fee program credit based on constructed half-section. This will be subject to submission and review and potential acceptance of a proposed fee program credit agreement by EPC and the Fee Program Committee. |
| 5.3d | Long Term: Curtis Road - Upgrade to Two-Lane Rural Principal Arterial | Shown in 2040 MTCP; (Future - TBD - Limited ROW available on the west side. Please refer to approved Curtis Road Deviation). The segment from the south border of Saddlehorn and Falcon Highway is adjacent to the Meadowlake Industrial Park development. Please refer to the most recent TIS for that project for additional information. | MTCP Project No. U1; Applicant per rezone condition of approval, potentially subject to fee program credit. |
| Internal Subdivision Roadways | | | |
| 6.1 | Construct internal Filing No. 4 streets to County Rural Local Standards | Per the Filing 4 Construction Plans | Applicant |
| Adjacent Intersection and Access Intersections | | | |
| Item # | Improvement | Timing | Responsibility |
| Judge Orr/Curtis Road Intersection | | | |
| 7.1 | Westbound right-turn deceleration lane | Once peak-hour westbound right-turn volume exceeds 50 vehicles per hour. | Escrow a pro-rata share for future construction with Filing No.4 (fee program credit per fee program provisions) |
| 7.2 | Eastbound right-turn deceleration lane | Currently warranted by ECM | Escrow a pro-rata share for future construction with Filing No. 4 (fee program credit per fee program provisions) |
| 7.3 | Potentially sign for all-way stop-sign control (AWSC) | Once warrants for AWSC are met | El Paso County |
| 7.4 | Long Term: Reconstruct intersection as a modern roundabout (or signalize the intersection) | Once LOS of AWSC drops below acceptable levels (roundabout); or once signal warrants are met (for conversion to a signal or roundabout) | El Paso County. This intersection will be fee-program eligible for a signal/roundabout and applicant will pay fee program traffic impact fees. |
| 7.5 | Long Term: In the case of a future signalized intersection - lengthening of northbound and southbound left-turn deceleration lanes. | As needed based on future speed limit and turning volume/stacking length criteria. | Escrow for improvement or construction if warranted at the time of development (fee program credit per fee program provisions) |
| 7.6 | Northbound Left Turn Lane - potential future lengthening (restripping) | Proposed trigger - once intersection is signalized Or if Stop signs are switched to EB and WB or while NB stop control remains, if queue reaches lengths | Escrow for improvement or construction if warranted at the time of development (fee program credit per fee program provisions) |
| Judge Orr/Barrosito Trail | | | |
| 8.1 | No Auxiliary Turn Lanes Required Construction Plans show an eastbound right-turn deceleration lane to be constructed with Filing 3 | To be constructed with Filing No. 3 | Applicant |
| Judge Orr/Del Cambre Trail | | | |
| 9.1 | No Auxiliary Turn Lanes Required Construction Plans show an eastbound right-turn deceleration lane to be constructed with Filing 3 | To be constructed with Filing No. 3 | Applicant |
| Curtis Road/Oscuro Trail | | | |
| 10.1 | Short Term Please Refer to Filing No. 2 TIS. Filing 4 is not projected to generate any left- or right-turning movements at this intersection | | |
| 10.2 | Long Term Please Refer to Filing No. 2 TIS. Filing 4 is not projected to generate any left- or right-turning movements at this intersection | | |
| Curtis Road/Benito Wells Trail | | | |
| 11.1 | Short Term Construction Plans show Auxiliary Turn Lanes to be constructed with Filing 2 | Construction Plans show Auxiliary Turn Lanes to be constructed with Filing 2 | Applicant |
| 11.2 | Long Term Construct southbound left-turn deceleration lane on Curtis Rd approaching the site access | To be constructed with Filing No. 2 | Applicant |
| 11.3 | Long Term Construct northbound right-turn deceleration lane on Curtis Rd approaching the site access | To be constructed with Filing No. 2 | Applicant |
| * Modified version of Table 10 From the Saddlehorn Ranch Preliminary Plan TIS dated March 11, 2020. | | | |
| Note: Items with red borders - modifications with this Filing No. 4 revised table; items in blue border - modifications associated with Filings 1, 2 or 3. | | | |
| ** Note: CDOT Formula taken from Filing No. 2 review letter: [for Filing 2] The development is required to participate in the cost of the future traffic signal at Stapleton and Hwy 24. Based on the average AM&PM site-generated passenger cars directly impacting the 4-hour warrant, the development would be responsible for ~\$75,000 [Filing 2 amount], (6.5 new vehicles / 60 vehicles-to-warrant x ~\$700K/signal cost). Filing 4 amount calculated using 42 lots/42 lots x Filing 2 amount | | | |
| Source: LSC Transportation Consultants, Inc. REVISIONS: 2/8/2022, 11/18/2022 for Filing No. 2, 1/20/2023 for Filing No. 3, 2/27/2023 & 12/22/2023 for Filing No. 4. | | | |

Table 5: Detailed Trip Generation Estimate

| Filing Number | Status | ITE | | Inputs | | Trip Generation Rates ² | | | | | Driveway Trips Generated | | | | | |
|---|------------------------------|------------|---|------------|--------------------|------------------------------------|-------------|-------------|-------------|-------------|--------------------------|-------------|-----------|------------|------------|-----------|
| | | Code | Description | Values | Units ¹ | Average Weekday | A.M. | | P.M. | | Average Weekday | A.M. | | P.M. | | |
| | | | | | | | In | Out | In | Out | | In | Out | In | Out | |
| By Filing Number | | | | | | | | | | | | | | | | |
| Filing 1 | Approved | 210 | Single-Family (Detached) Housing | 49 | DU | 10.09 | 0.19 | 0.55 | 0.63 | 0.37 | 494 | 9 | 27 | 31 | 18 | |
| Filing 2 | Recently Resubmitted | 210 | Single-Family (Detached) Housing | 42 | DU | 10.09 | 0.19 | 0.55 | 0.63 | 0.37 | 424 | 8 | 23 | 26 | 15 | |
| Filing 3 | Recently Submitted | 210 | Single-Family (Detached) Housing | 44 | DU | 10.09 | 0.19 | 0.55 | 0.63 | 0.37 | 444 | 9 | 24 | 28 | 16 | |
| Filing 4 | This Report | 210 | Single-Family (Detached) Housing | 42 | DU | 10.09 | 0.19 | 0.55 | 0.63 | 0.37 | 424 | 8 | 23 | 26 | 15 | |
| Filing 5 | Being Submitted Concurrently | 210 | Single-Family (Detached) Housing | 41 | DU | 10.09 | 0.19 | 0.55 | 0.63 | 0.37 | 414 | 8 | 23 | 26 | 15 | |
| | | | Total | 218 | DU | | | | | | Total | 2200 | 42 | 120 | 136 | 80 |
| Cumulative by Filing Number | | | | | | | | | | | | | | | | |
| Filing 1 | | 210 | Single-Family (Detached) Housing | 49 | DU | - | - | - | - | - | 494 | 9 | 27 | 31 | 18 | |
| Filings 1-2 | | 210 | Single-Family (Detached) Housing | 91 | DU | - | - | - | - | - | 918 | 18 | 50 | 57 | 33 | |
| Filings 1-3 | | 210 | Single-Family (Detached) Housing | 135 | DU | - | - | - | - | - | 1362 | 26 | 74 | 85 | 50 | |
| Filings 1-4 | | 210 | Single-Family (Detached) Housing | 177 | DU | - | - | - | - | - | 1786 | 34 | 98 | 111 | 65 | |
| Filings 1-5 | | 210 | Single-Family (Detached) Housing | 218 | DU | - | - | - | - | - | 2200 | 42 | 120 | 136 | 80 | |
| ¹ DU = Dwelling Units | | | | | | | | | | | | | | | | |
| ² Source: <i>Trip Generation, 11th Edition (2021)</i> by the Institute of Transportation Engineers (ITE) | | | | | | | | | | | | | | | | |
| 27-Feb-23 | | | | | | | | | | | | | | | | |

Figures 1-12



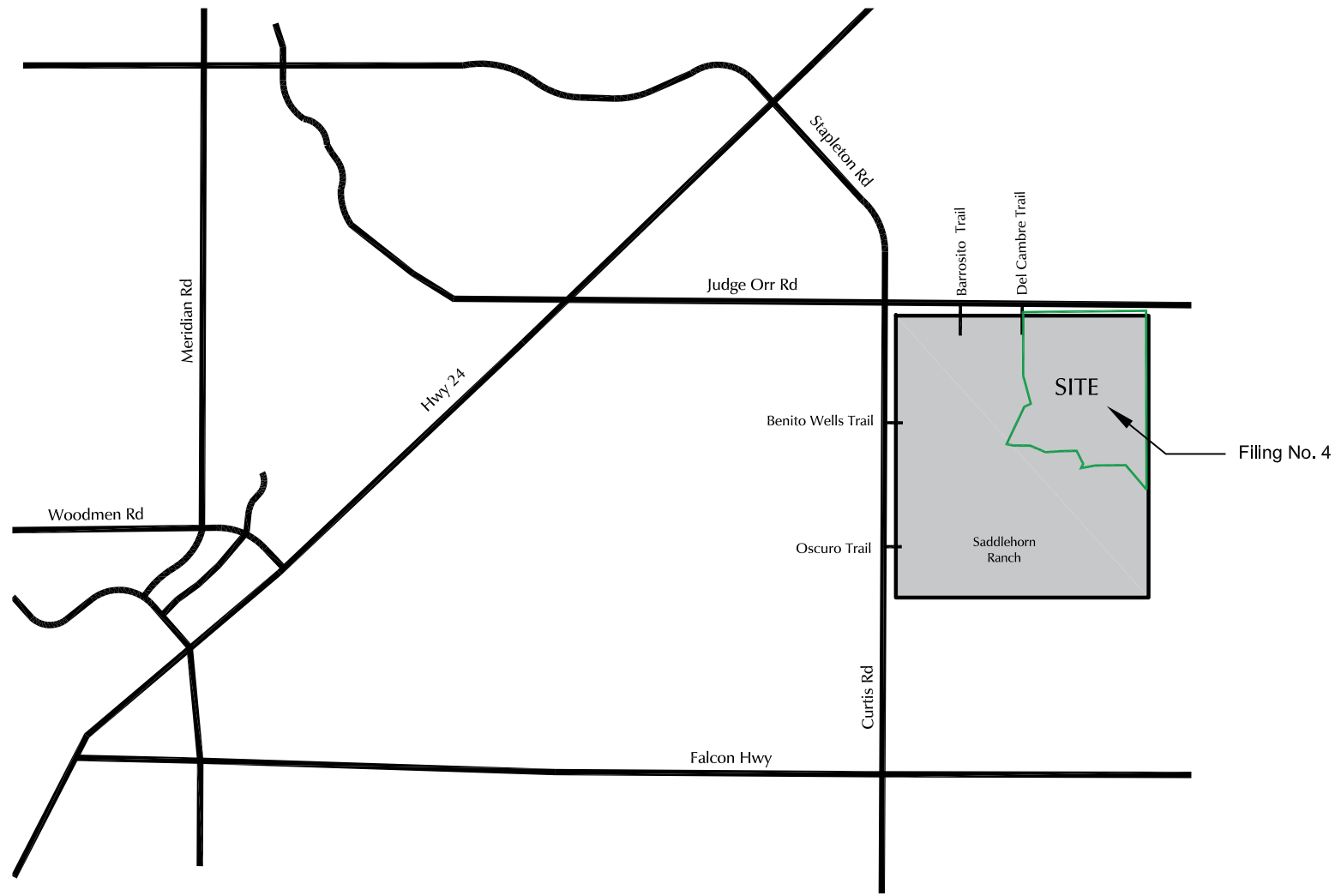


Figure 1
Vicinity Map

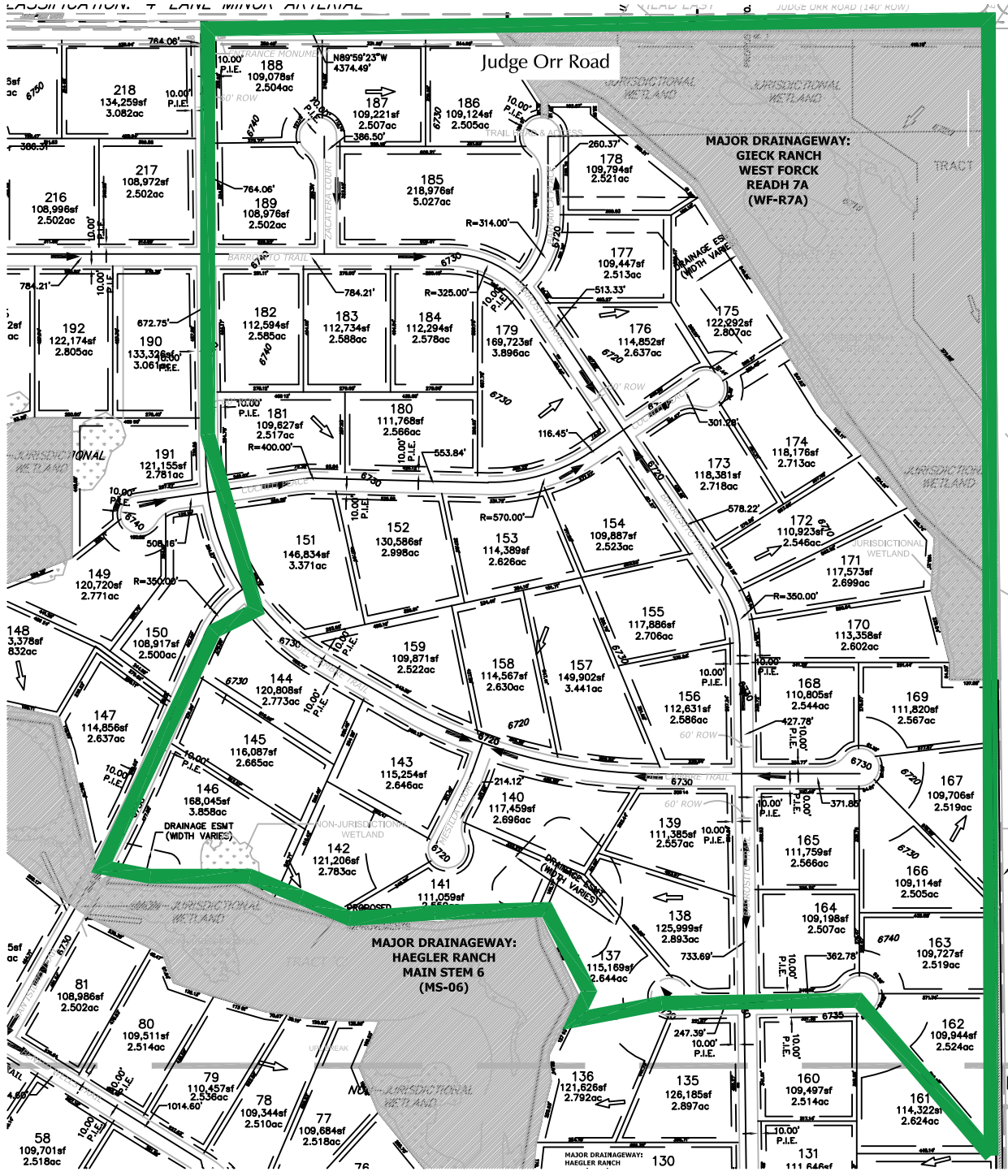
Saddlehorn Ranch Filing 4 (LSC # S224650)

Approximate Scale
1" = 500'



Del Cumbre Trail
To Barrosito Trail

1,417'



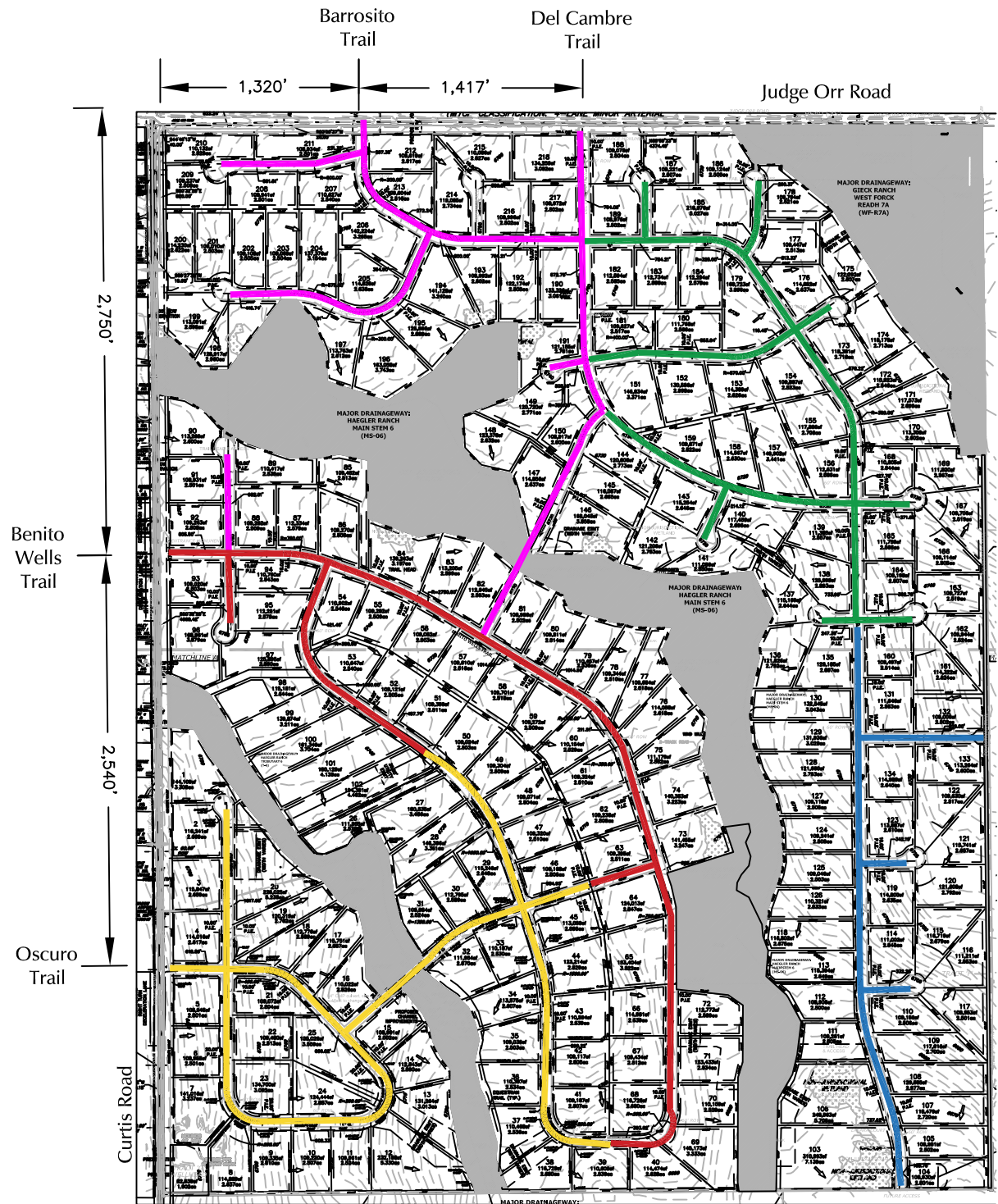
 Filing No. 4

Figure 2

Site Plan

Saddlehorn Ranch Filing 4 (LSC # S224650)





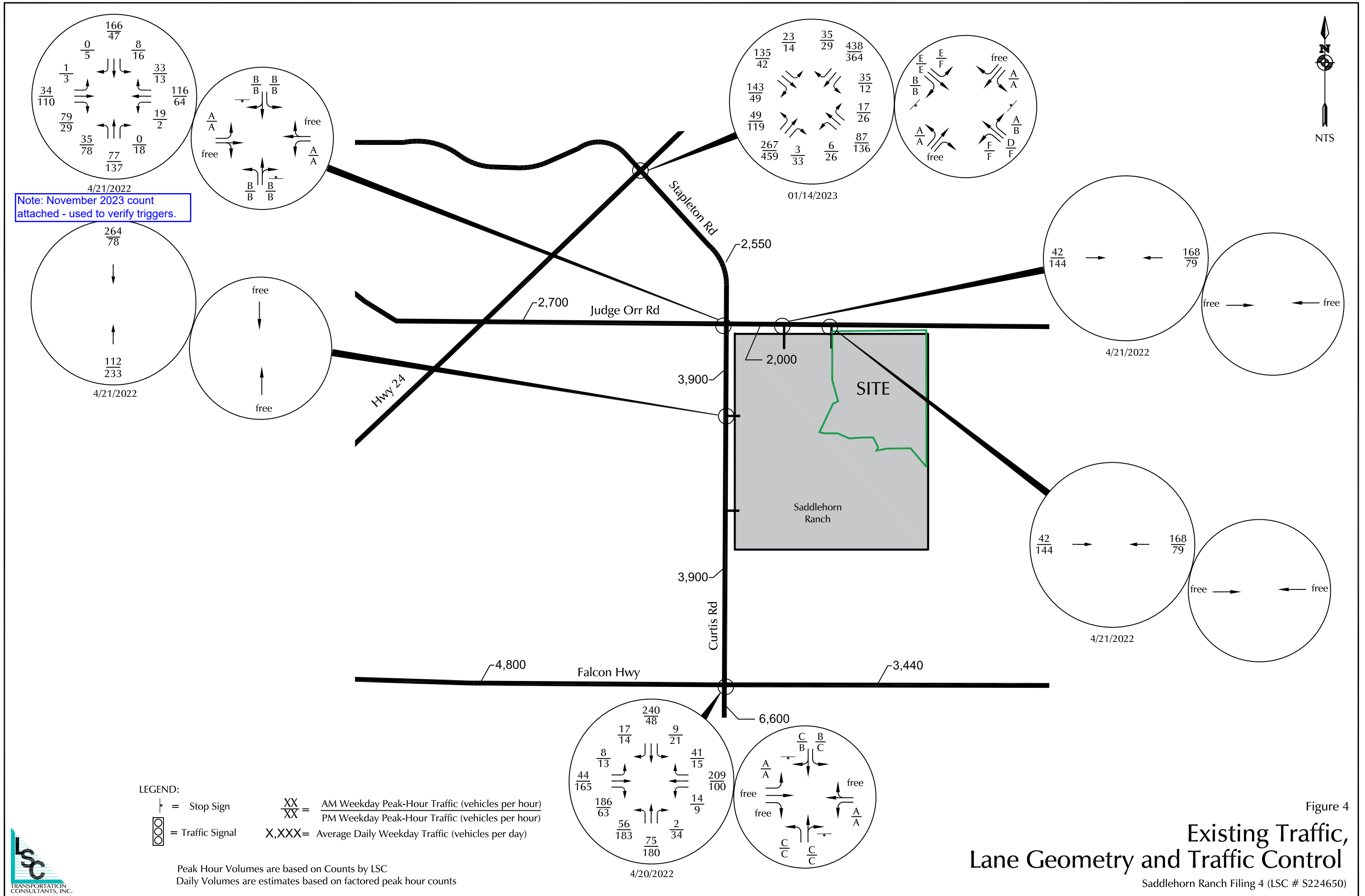
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-  Filing 2
-  Filing 3
-  Filing 4
-  Filing 5

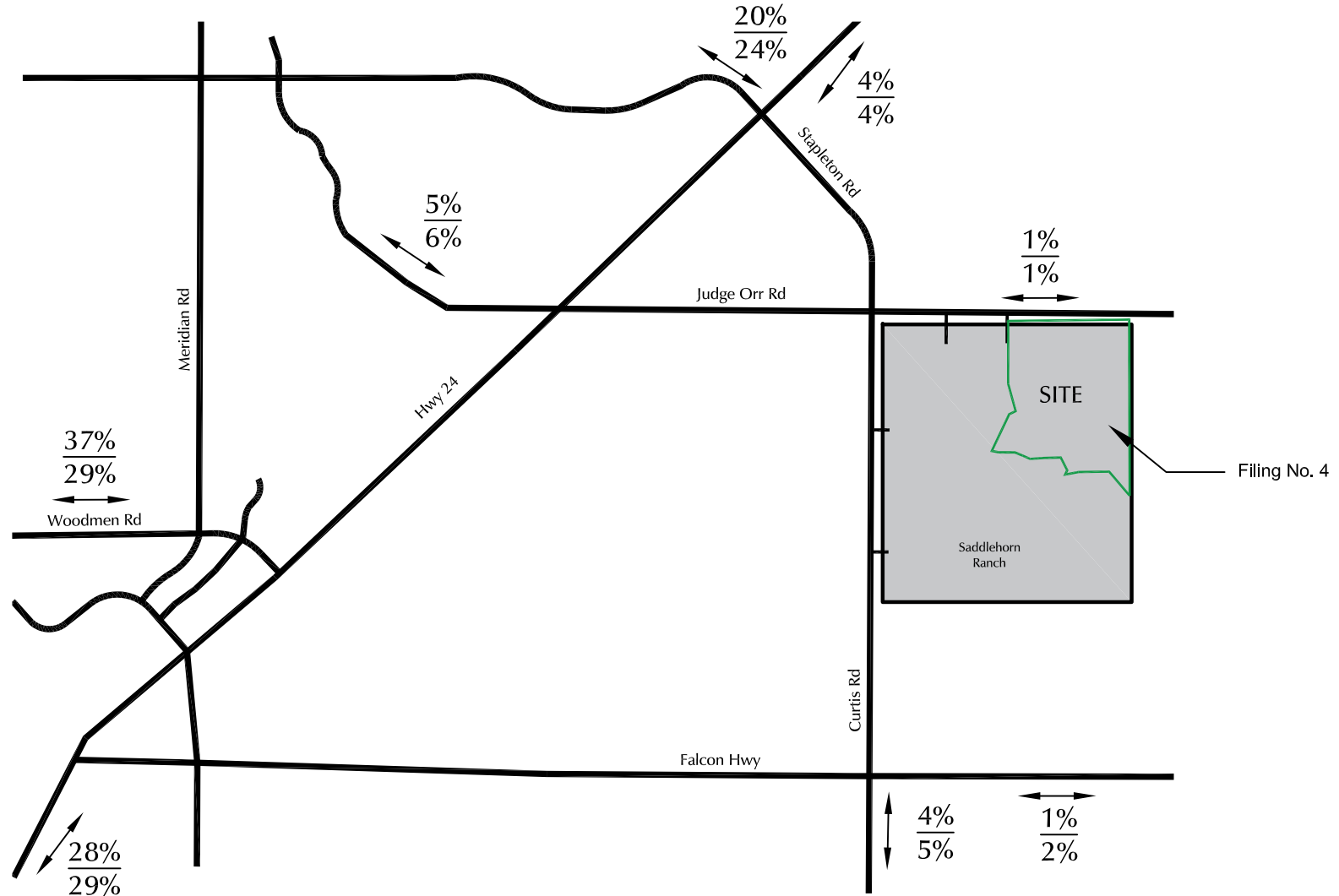
Figure 3

Roadways to be Constructed by Subdivision Filing

Saddlehorn Ranch Filing 4 (LSC # S224650)





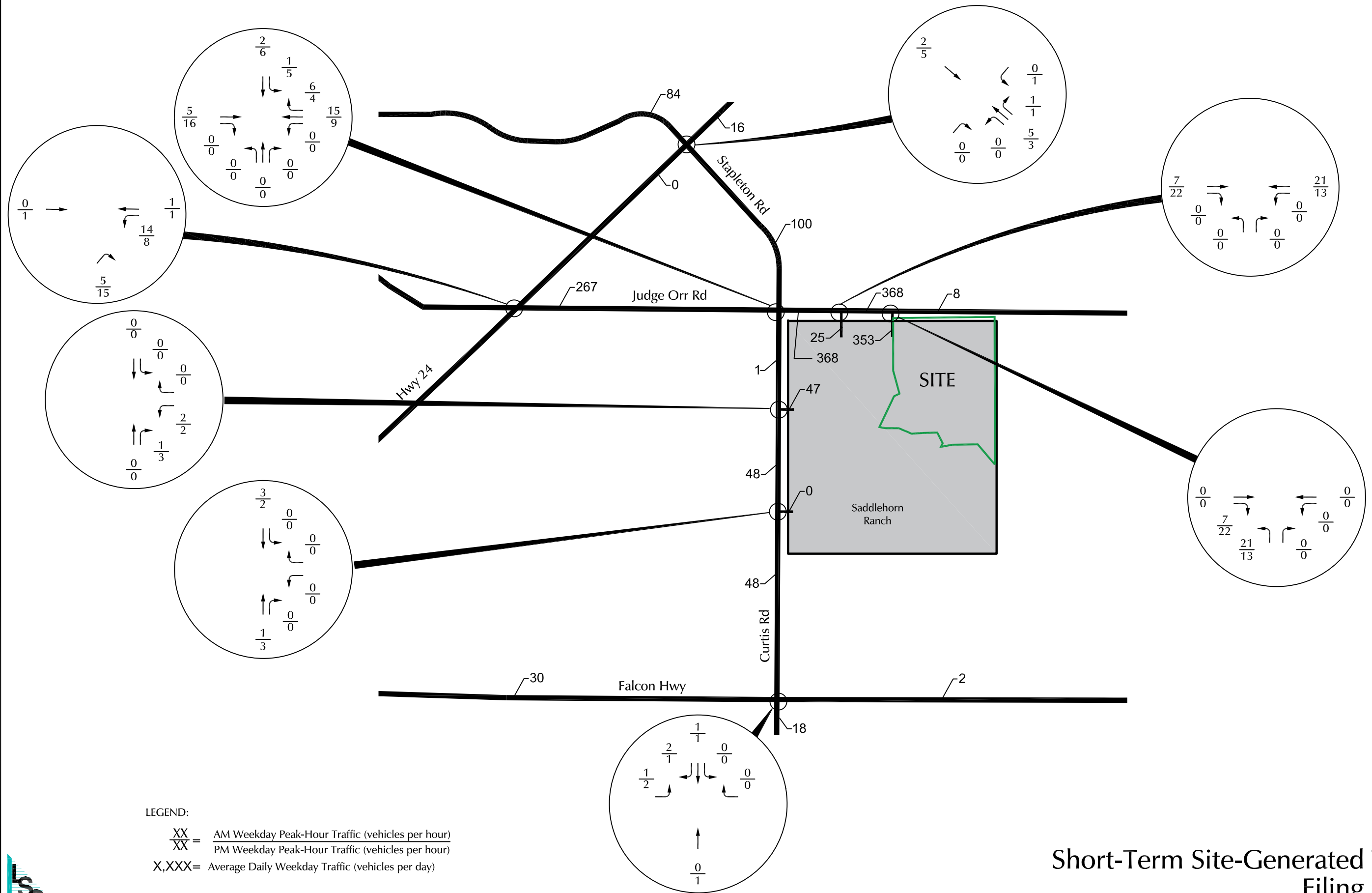


LEGEND:
 $\frac{XX\%}{XX\%} = \frac{\text{Percent Short-Term Distribution}}{\text{Percent Long-Term Distribution}}$

Figure 5
**Estimated Directional Distribution
of Site-Generated Traffic**

Saddlehorn Ranch Filing 4 (LSC # S224650)

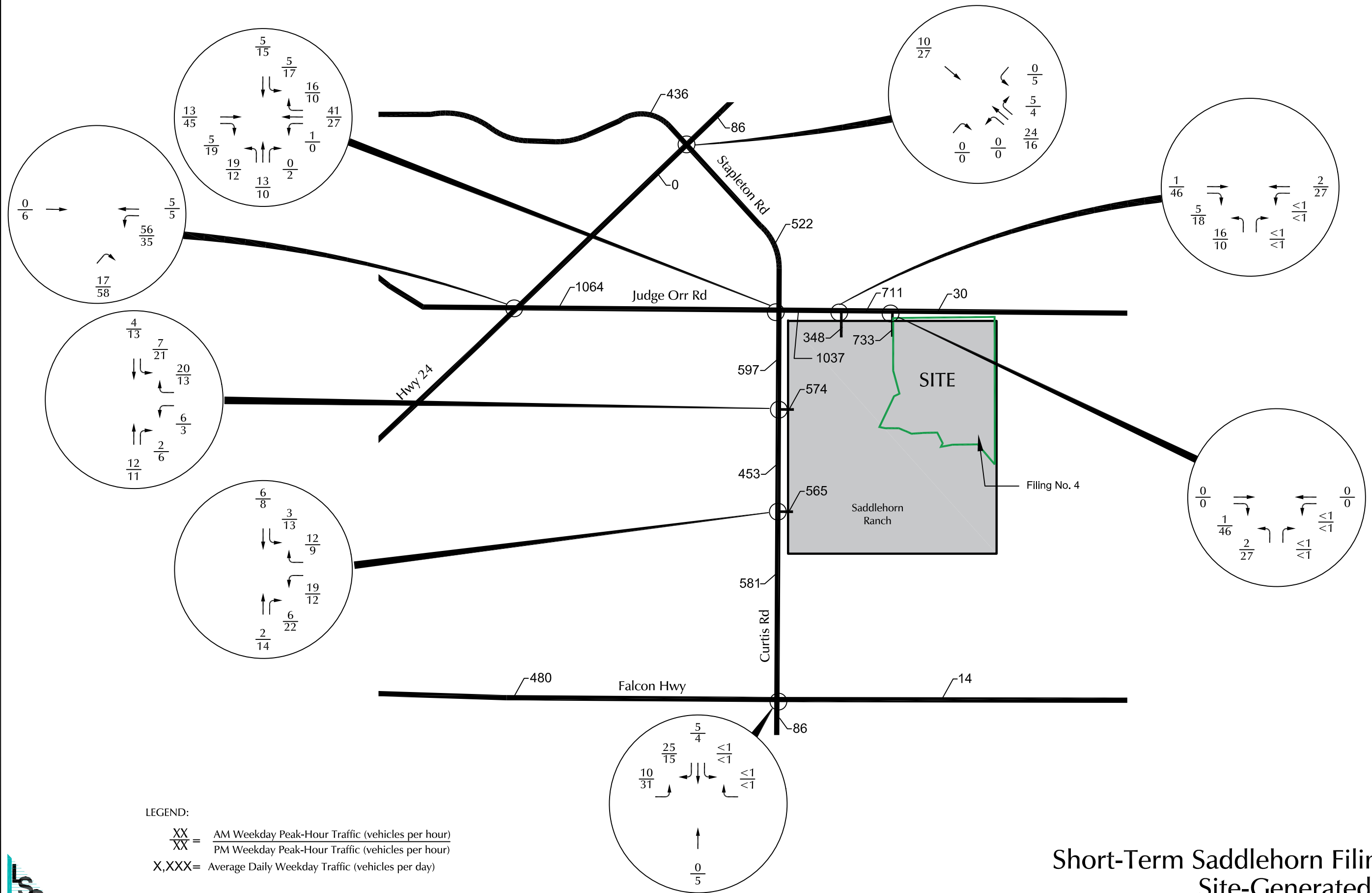




LEGEND:
 $\frac{XX}{XX}$ = AM Weekday Peak-Hour Traffic (vehicles per hour)
 $\frac{XX}{XX}$ = PM Weekday Peak-Hour Traffic (vehicles per hour)
 X,XXX= Average Daily Weekday Traffic (vehicles per day)



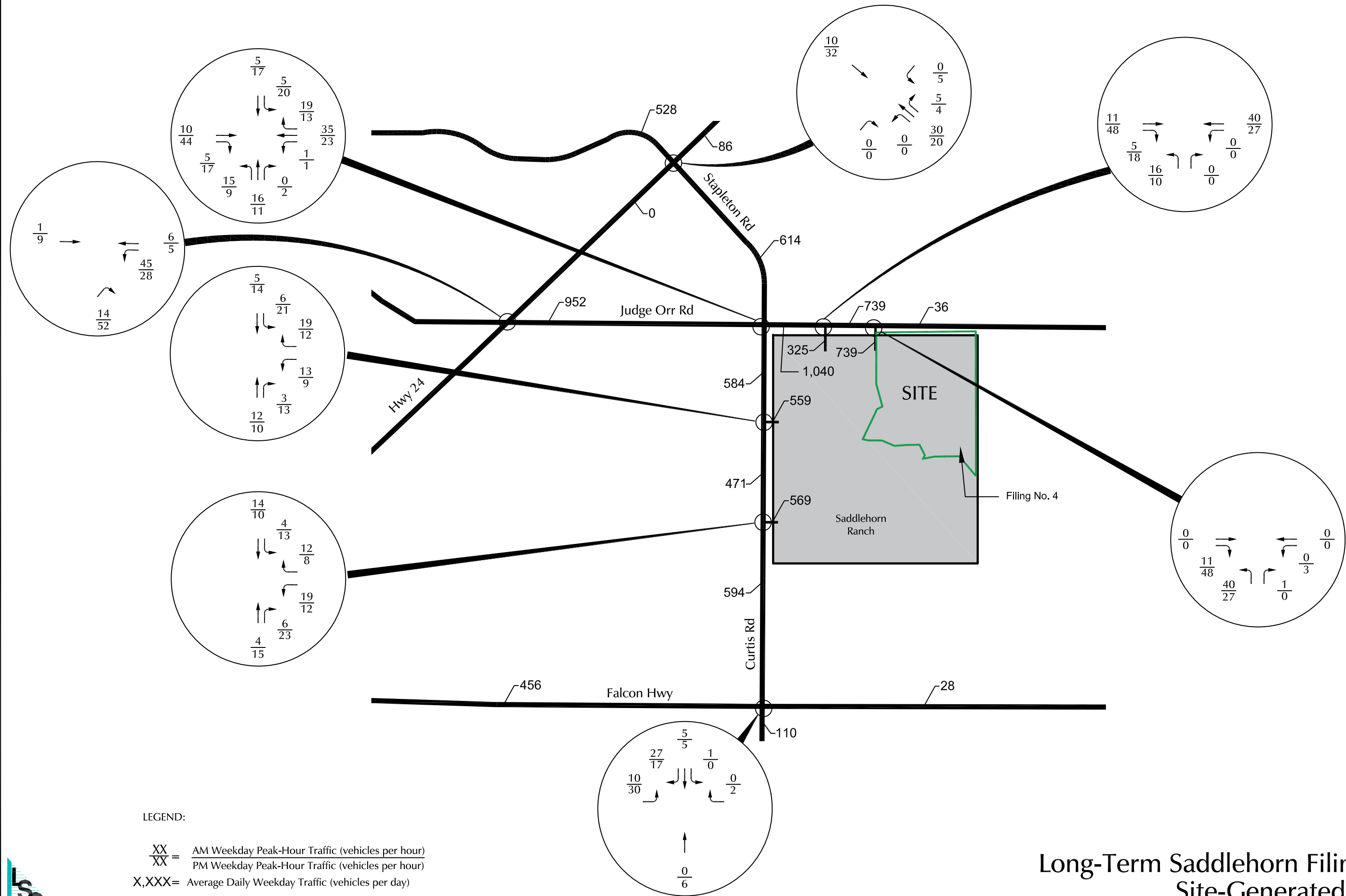
Figure 6
 Short-Term Site-Generated Traffic,
 Filing 4 Only
 Saddlehorn Ranch Filing 4 (LSC # S224650)



LEGEND:
 $\frac{XX}{XX}$ = AM Weekday Peak-Hour Traffic (vehicles per hour)
 $\frac{XX}{XX}$ = PM Weekday Peak-Hour Traffic (vehicles per hour)
 X,XXX= Average Daily Weekday Traffic (vehicles per day)



Figure 7
Short-Term Saddlehorn Filings 1-5
Site-Generated Traffic
 Saddlehorn Ranch Filing 4 (LSC # S224650)



LEGEND:
 $\frac{XX}{XX}$ = AM Weekday Peak-Hour Traffic (vehicles per hour)
 $\frac{XX}{XX}$ = PM Weekday Peak-Hour Traffic (vehicles per hour)
 X,XXX= Average Daily Weekday Traffic (vehicles per day)



Figure 8
Long-Term Saddlehorn Filings 1-5
Site-Generated Traffic
 Saddlehorn Ranch Filing 4 (LSC # S224650)

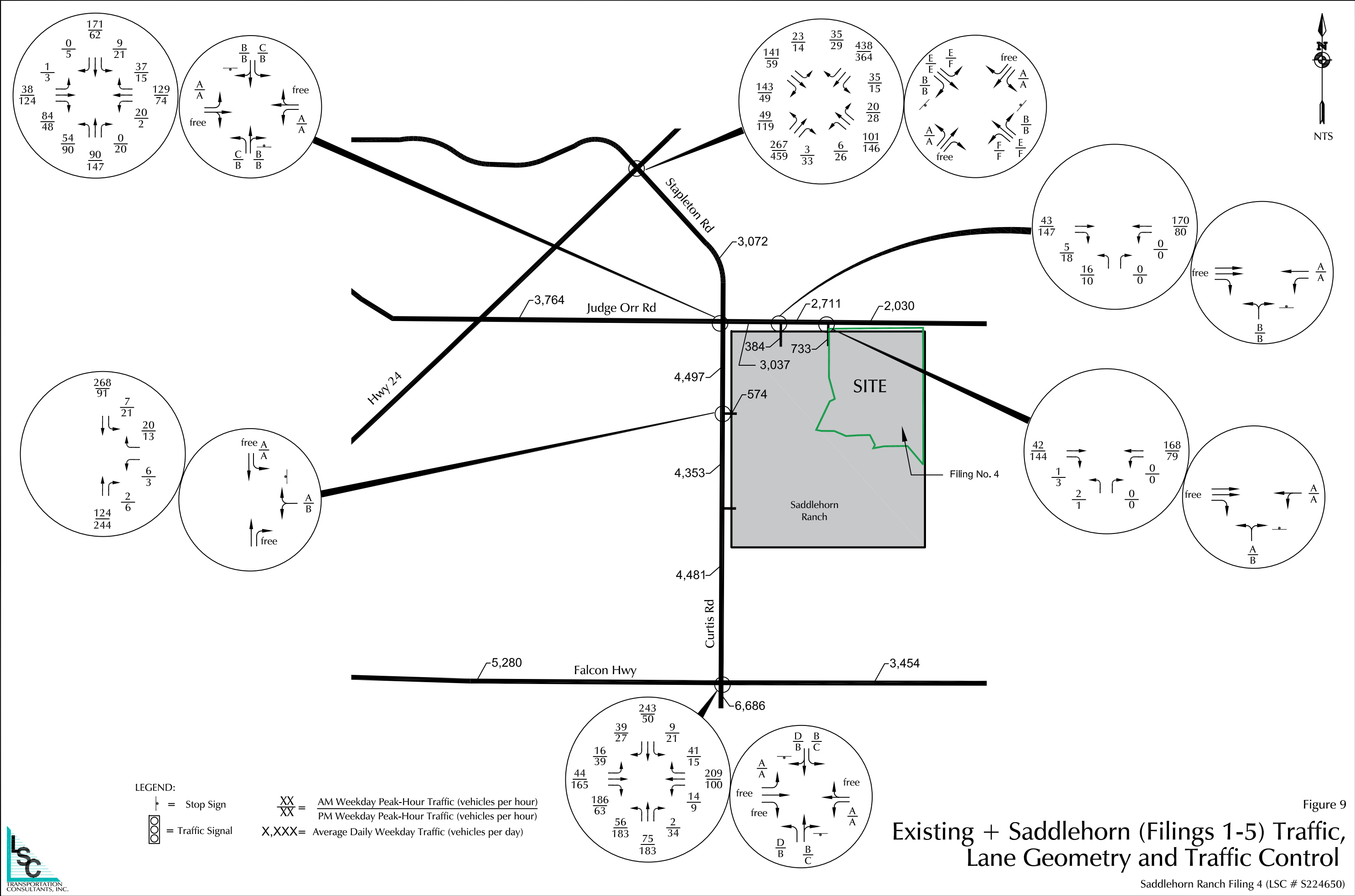
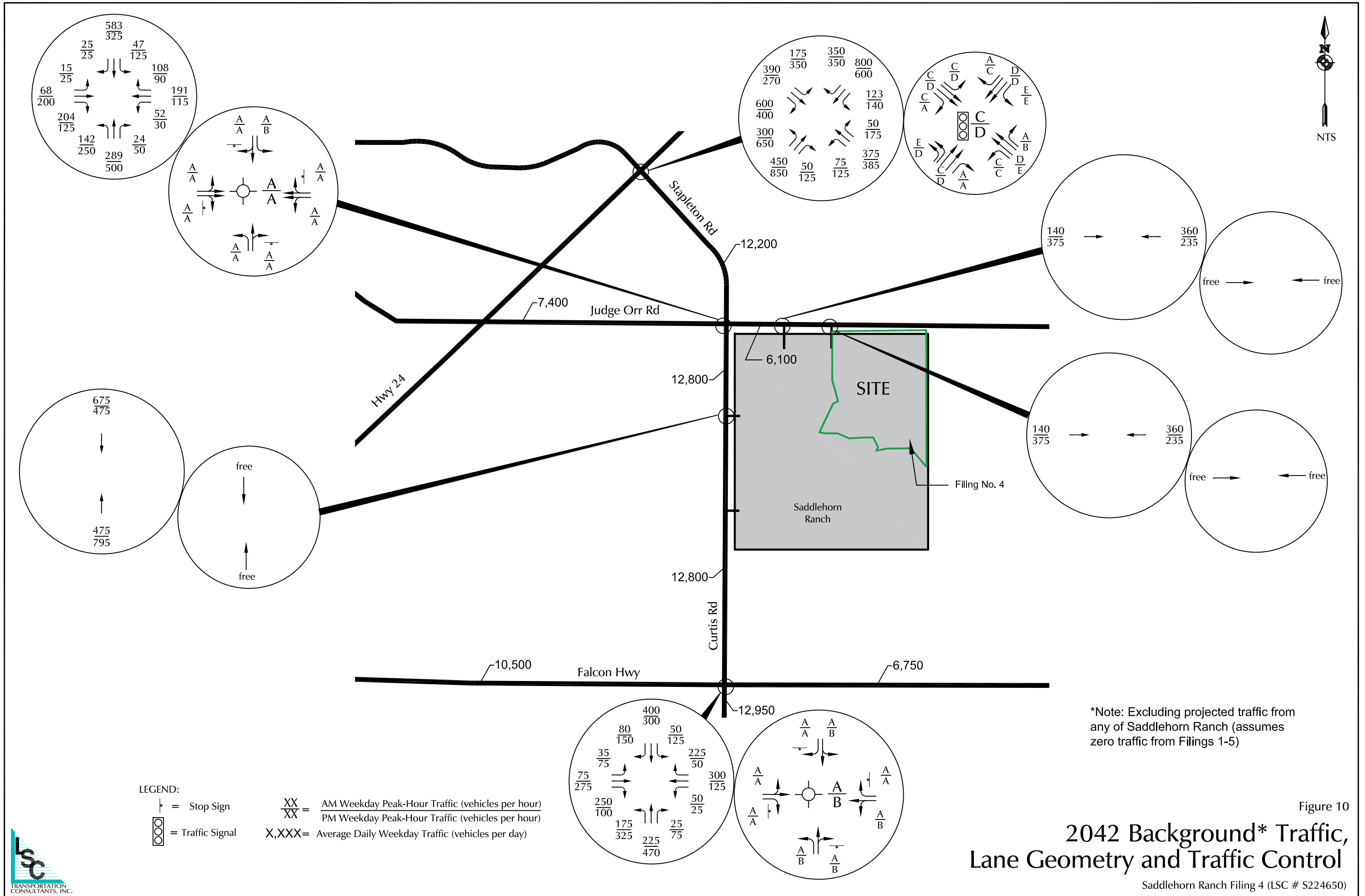
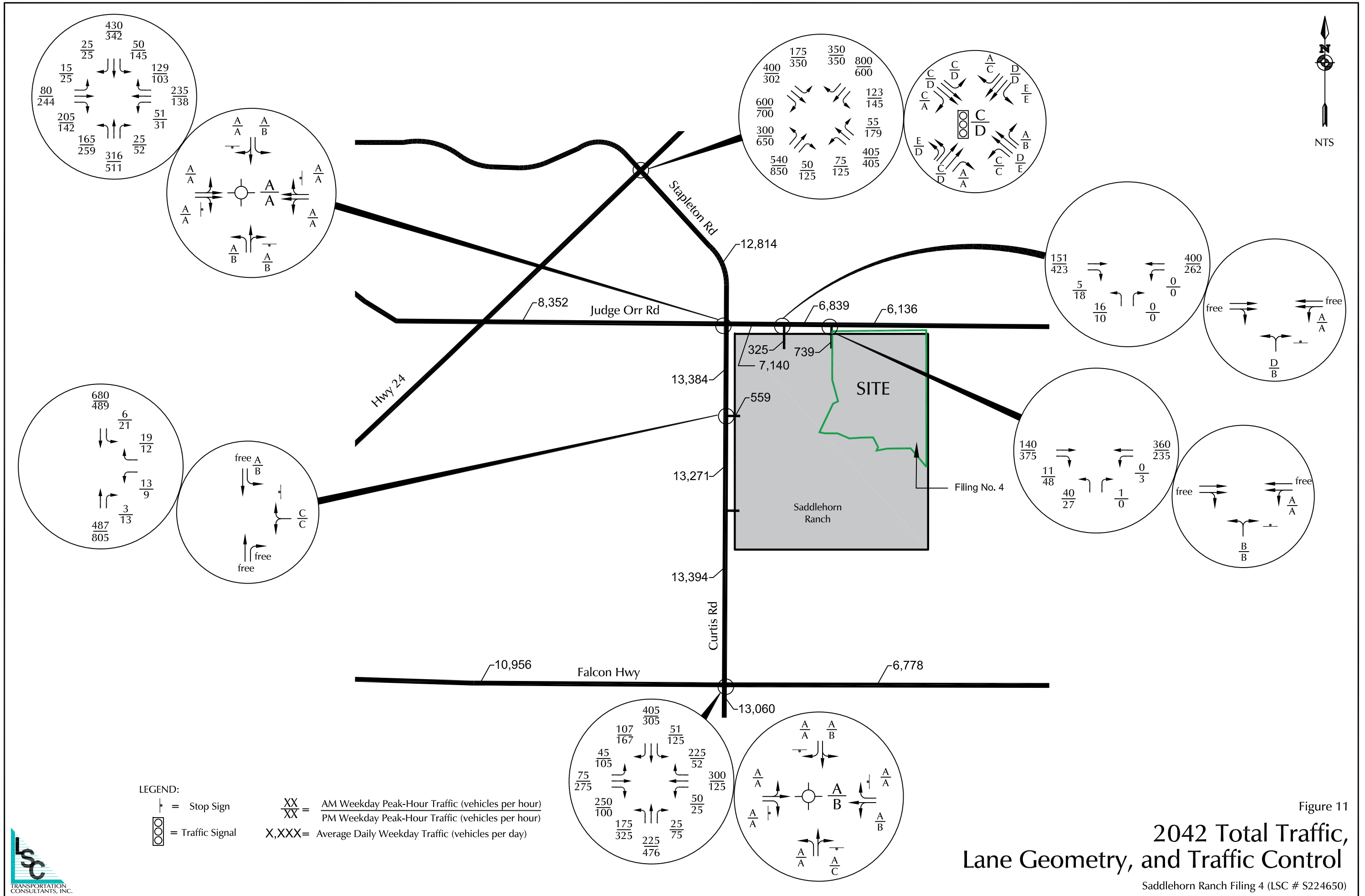


Figure 9
Existing + Saddlehorn (Filings 1-5) Traffic, Lane Geometry and Traffic Control
 Saddlehorn Ranch Filing 4 (LSC # S224650)







Traffic Counts



LSC Transportation Consultants, Inc.

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

File Name : Hwy 24 - Stapleton Rd AM PM

Site Code : S224640

Start Date : 1/10/2023

Page No : 1

Groups Printed- Unshifted

| Start Time | Hwy 24 Southbound | | | | | Stapleton Dr Westbound | | | | | Hwy 24 Northbound | | | | | Stapleton Dr Eastbound | | | | | Int. Total |
|---------------|-------------------|------------|-----------|----------|------------|------------------------|-----------|----------|----------|------------|-------------------|------------|-----------|----------|------------|------------------------|------------|-----------|----------|------------|-------------|
| | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | |
| 06:30 | 1 | 29 | 1 | 0 | 31 | 0 | 1 | 1 | 0 | 2 | 1 | 7 | 1 | 0 | 9 | 20 | 11 | 1 | 0 | 32 | 74 |
| 06:35 | 0 | 33 | 0 | 0 | 33 | 1 | 4 | 0 | 0 | 5 | 0 | 12 | 0 | 0 | 12 | 11 | 11 | 2 | 0 | 24 | 74 |
| 06:40 | 0 | 35 | 2 | 0 | 37 | 1 | 0 | 0 | 0 | 1 | 0 | 13 | 2 | 0 | 15 | 16 | 8 | 2 | 0 | 26 | 79 |
| 06:45 | 3 | 41 | 3 | 0 | 47 | 1 | 6 | 3 | 0 | 10 | 1 | 22 | 4 | 0 | 27 | 13 | 9 | 2 | 0 | 24 | 108 |
| 06:50 | 3 | 32 | 1 | 0 | 36 | 1 | 3 | 0 | 0 | 4 | 1 | 15 | 7 | 0 | 23 | 14 | 7 | 1 | 0 | 22 | 85 |
| 06:55 | 2 | 22 | 1 | 0 | 25 | 2 | 8 | 0 | 0 | 10 | 0 | 24 | 6 | 0 | 30 | 16 | 13 | 0 | 0 | 29 | 94 |
| Total | 9 | 192 | 8 | 0 | 209 | 6 | 22 | 4 | 0 | 32 | 3 | 93 | 20 | 0 | 116 | 90 | 59 | 8 | 0 | 157 | 514 |
| | | | | | | | | | | | | | | | | | | | | | |
| 07:00 | 4 | 35 | 3 | 0 | 42 | 2 | 6 | 0 | 0 | 8 | 0 | 29 | 2 | 0 | 31 | 7 | 13 | 1 | 0 | 21 | 102 |
| 07:05 | 4 | 33 | 4 | 0 | 41 | 1 | 10 | 0 | 0 | 11 | 0 | 22 | 4 | 0 | 26 | 7 | 11 | 6 | 0 | 24 | 102 |
| 07:10 | 0 | 33 | 3 | 0 | 36 | 4 | 11 | 1 | 0 | 16 | 0 | 30 | 5 | 0 | 35 | 15 | 12 | 2 | 0 | 29 | 116 |
| 07:15 | 2 | 36 | 2 | 0 | 40 | 4 | 14 | 1 | 0 | 19 | 0 | 29 | 7 | 0 | 36 | 13 | 15 | 3 | 0 | 31 | 126 |
| 07:20 | 4 | 46 | 1 | 0 | 51 | 1 | 6 | 0 | 0 | 7 | 0 | 30 | 4 | 0 | 34 | 11 | 13 | 1 | 0 | 25 | 117 |
| 07:25 | 5 | 51 | 8 | 0 | 64 | 0 | 7 | 0 | 0 | 7 | 0 | 28 | 0 | 0 | 28 | 10 | 7 | 1 | 0 | 18 | 117 |
| 07:30 | 2 | 34 | 2 | 0 | 38 | 0 | 7 | 0 | 0 | 7 | 1 | 16 | 6 | 0 | 23 | 9 | 20 | 2 | 0 | 31 | 99 |
| 07:35 | 6 | 40 | 5 | 0 | 51 | 0 | 9 | 1 | 0 | 10 | 0 | 9 | 2 | 0 | 11 | 12 | 7 | 2 | 0 | 21 | 93 |
| 07:40 | 4 | 31 | 1 | 0 | 36 | 0 | 7 | 2 | 0 | 9 | 0 | 9 | 3 | 0 | 12 | 5 | 9 | 0 | 0 | 14 | 71 |
| 07:45 | 1 | 31 | 1 | 0 | 33 | 2 | 5 | 1 | 0 | 8 | 0 | 13 | 6 | 0 | 19 | 6 | 17 | 2 | 0 | 25 | 85 |
| 07:50 | 3 | 21 | 4 | 0 | 28 | 0 | 5 | 0 | 0 | 5 | 1 | 18 | 1 | 0 | 20 | 10 | 15 | 2 | 0 | 27 | 80 |
| 07:55 | 2 | 15 | 3 | 0 | 20 | 1 | 1 | 0 | 0 | 2 | 0 | 16 | 4 | 0 | 20 | 8 | 5 | 1 | 0 | 14 | 56 |
| Total | 37 | 406 | 37 | 0 | 480 | 15 | 88 | 6 | 0 | 109 | 2 | 249 | 44 | 0 | 295 | 113 | 144 | 23 | 0 | 280 | 1164 |
| | | | | | | | | | | | | | | | | | | | | | |
| 08:00 | 3 | 39 | 2 | 0 | 44 | 0 | 6 | 0 | 0 | 6 | 0 | 10 | 5 | 0 | 15 | 4 | 10 | 2 | 0 | 16 | 81 |
| 08:05 | 1 | 30 | 0 | 0 | 31 | 1 | 2 | 1 | 0 | 4 | 2 | 19 | 5 | 0 | 26 | 4 | 6 | 4 | 0 | 14 | 75 |
| 08:10 | 2 | 27 | 2 | 0 | 31 | 2 | 2 | 1 | 0 | 5 | 0 | 13 | 4 | 0 | 17 | 5 | 6 | 0 | 0 | 11 | 64 |
| 08:15 | 4 | 31 | 0 | 0 | 35 | 5 | 1 | 2 | 0 | 8 | 0 | 7 | 5 | 0 | 12 | 8 | 5 | 2 | 0 | 15 | 70 |
| 08:20 | 5 | 22 | 3 | 0 | 30 | 1 | 7 | 0 | 0 | 8 | 0 | 3 | 3 | 0 | 6 | 7 | 4 | 1 | 0 | 12 | 56 |
| 08:25 | 4 | 34 | 1 | 0 | 39 | 0 | 2 | 0 | 0 | 2 | 1 | 14 | 0 | 0 | 15 | 4 | 7 | 5 | 0 | 16 | 72 |
| *** BREAK *** | | | | | | | | | | | | | | | | | | | | | |
| Total | 19 | 183 | 8 | 0 | 210 | 9 | 20 | 4 | 0 | 33 | 3 | 66 | 22 | 0 | 91 | 32 | 38 | 14 | 0 | 84 | 418 |
| | | | | | | | | | | | | | | | | | | | | | |
| 16:00 | 2 | 26 | 0 | 0 | 28 | 3 | 7 | 1 | 0 | 11 | 0 | 41 | 13 | 0 | 54 | 3 | 3 | 4 | 0 | 10 | 103 |
| 16:05 | 3 | 25 | 0 | 0 | 28 | 4 | 6 | 0 | 0 | 10 | 0 | 46 | 15 | 0 | 61 | 1 | 2 | 5 | 0 | 8 | 107 |
| 16:10 | 3 | 32 | 0 | 0 | 35 | 2 | 8 | 0 | 0 | 10 | 3 | 35 | 15 | 0 | 53 | 6 | 4 | 2 | 0 | 12 | 110 |
| 16:15 | 3 | 36 | 1 | 0 | 40 | 3 | 9 | 1 | 0 | 13 | 4 | 45 | 7 | 0 | 56 | 4 | 1 | 2 | 0 | 7 | 116 |
| 16:20 | 0 | 31 | 3 | 0 | 34 | 1 | 7 | 1 | 0 | 9 | 2 | 46 | 15 | 0 | 63 | 4 | 2 | 1 | 0 | 7 | 113 |
| 16:25 | 1 | 24 | 1 | 0 | 26 | 2 | 11 | 0 | 0 | 13 | 3 | 47 | 8 | 0 | 58 | 5 | 10 | 3 | 0 | 18 | 115 |
| 16:30 | 1 | 23 | 0 | 0 | 24 | 0 | 10 | 2 | 0 | 12 | 1 | 42 | 7 | 0 | 50 | 5 | 3 | 2 | 0 | 10 | 96 |
| 16:35 | 2 | 32 | 1 | 0 | 35 | 1 | 5 | 1 | 0 | 7 | 4 | 34 | 4 | 0 | 42 | 2 | 1 | 1 | 0 | 4 | 88 |
| 16:40 | 5 | 29 | 1 | 0 | 35 | 2 | 13 | 0 | 0 | 15 | 1 | 29 | 7 | 0 | 37 | 4 | 9 | 1 | 0 | 14 | 101 |
| 16:45 | 3 | 31 | 2 | 0 | 36 | 5 | 10 | 3 | 0 | 18 | 2 | 31 | 13 | 0 | 46 | 3 | 2 | 2 | 0 | 7 | 107 |
| 16:50 | 1 | 32 | 1 | 0 | 34 | 2 | 11 | 0 | 0 | 13 | 4 | 39 | 7 | 0 | 50 | 6 | 4 | 2 | 0 | 12 | 109 |

LSC Transportation Consultants, Inc.

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

File Name : Hwy 24 - Stapleton Rd AM PM
 Site Code : S224640
 Start Date : 1/10/2023
 Page No : 2

Groups Printed- Unshifted

| Start Time | Hwy 24 Southbound | | | | | Stapleton Dr Westbound | | | | | Hwy 24 Northbound | | | | | Stapleton Dr Eastbound | | | | | Int. Total |
|--------------------|-------------------|------|------|------|------------|------------------------|------|------|------|------------|-------------------|------|------|------|------------|------------------------|------|------|------|------------|------------|
| | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | |
| 16:55 | 5 | 29 | 1 | 0 | 35 | 3 | 15 | 2 | 0 | 20 | 3 | 31 | 15 | 0 | 49 | 2 | 4 | 2 | 0 | 8 | 112 |
| Total | 29 | 350 | 11 | 0 | 390 | 28 | 112 | 11 | 0 | 151 | 27 | 466 | 126 | 0 | 619 | 45 | 45 | 27 | 0 | 117 | 1277 |
| 17:00 | 3 | 22 | 0 | 0 | 25 | 0 | 20 | 0 | 0 | 20 | 1 | 37 | 13 | 0 | 51 | 8 | 1 | 0 | 0 | 9 | 105 |
| 17:05 | 2 | 30 | 0 | 0 | 32 | 4 | 6 | 1 | 0 | 11 | 7 | 47 | 14 | 0 | 68 | 2 | 4 | 0 | 0 | 6 | 117 |
| 17:10 | 3 | 45 | 1 | 0 | 49 | 3 | 19 | 1 | 0 | 23 | 1 | 31 | 9 | 0 | 41 | 4 | 1 | 1 | 0 | 6 | 119 |
| 17:15 | 3 | 29 | 1 | 0 | 33 | 1 | 4 | 1 | 0 | 6 | 0 | 46 | 7 | 0 | 53 | 3 | 1 | 1 | 0 | 5 | 97 |
| 17:20 | 3 | 27 | 1 | 0 | 31 | 4 | 11 | 1 | 0 | 16 | 3 | 34 | 8 | 0 | 45 | 3 | 5 | 2 | 0 | 10 | 102 |
| 17:25 | 3 | 21 | 0 | 0 | 24 | 3 | 2 | 0 | 0 | 5 | 0 | 30 | 11 | 0 | 41 | 2 | 4 | 2 | 0 | 8 | 78 |
| 17:30 | 3 | 18 | 0 | 0 | 21 | 5 | 8 | 0 | 0 | 13 | 2 | 43 | 8 | 0 | 53 | 1 | 3 | 0 | 0 | 4 | 91 |
| 17:35 | 3 | 17 | 0 | 0 | 20 | 2 | 6 | 0 | 0 | 8 | 0 | 33 | 14 | 0 | 47 | 2 | 1 | 3 | 0 | 6 | 81 |
| 17:40 | 1 | 18 | 0 | 0 | 19 | 2 | 6 | 2 | 0 | 10 | 1 | 32 | 6 | 0 | 39 | 0 | 1 | 3 | 0 | 4 | 72 |
| 17:45 | 4 | 24 | 1 | 0 | 29 | 2 | 4 | 1 | 0 | 7 | 1 | 51 | 7 | 0 | 59 | 3 | 2 | 1 | 0 | 6 | 101 |
| 17:50 | 1 | 13 | 0 | 0 | 14 | 1 | 6 | 1 | 0 | 8 | 0 | 48 | 13 | 0 | 61 | 2 | 5 | 3 | 0 | 10 | 93 |
| 17:55 | 3 | 18 | 0 | 0 | 21 | 3 | 7 | 0 | 0 | 10 | 1 | 23 | 9 | 0 | 33 | 4 | 7 | 2 | 0 | 13 | 77 |
| Total | 32 | 282 | 4 | 0 | 318 | 30 | 99 | 8 | 0 | 137 | 17 | 455 | 119 | 0 | 591 | 34 | 35 | 18 | 0 | 87 | 1133 |
| Grand Total | 126 | 1413 | 68 | 0 | 1607 | 88 | 341 | 33 | 0 | 462 | 52 | 1329 | 331 | 0 | 1712 | 314 | 321 | 90 | 0 | 725 | 4506 |
| Apprch % | 7.8 | 87.9 | 4.2 | 0 | | 19 | 73.8 | 7.1 | 0 | | 3 | 77.6 | 19.3 | 0 | | 43.3 | 44.3 | 12.4 | 0 | | |
| Total % | 2.8 | 31.4 | 1.5 | 0 | 35.7 | 2 | 7.6 | 0.7 | 0 | 10.3 | 1.2 | 29.5 | 7.3 | 0 | 38 | 7 | 7.1 | 2 | 0 | 16.1 | |

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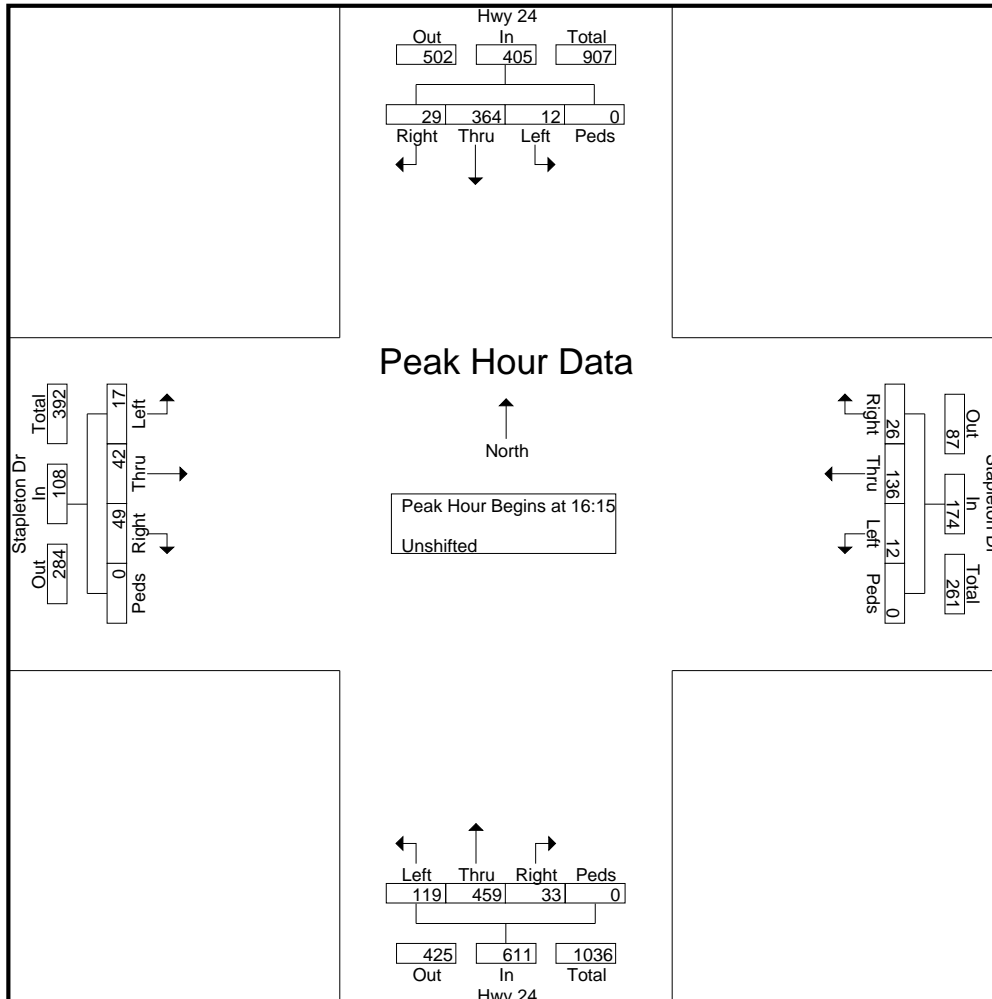
File Name : Hwy 24 - Stapleton Rd AM PM

Site Code : S224640

Start Date : 1/10/2023

Page No : 3

| Start Time | Hwy 24 Southbound | | | | | Stapleton Dr Westbound | | | | | Hwy 24 Northbound | | | | | Stapleton Dr Eastbound | | | | | Int. Total |
|--|-------------------|------|------|------|------------|------------------------|------|------|------|------------|-------------------|------|------|------|------------|------------------------|------|------|------|------------|------------|
| | 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 17:55 - Peak 1 of 1 | | | | | | | | | | | | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 16:15 | | | | | | | | | | | | | | | | | | | | | |
| 16:15 | 3 | 36 | 1 | 0 | 40 | 3 | 9 | 1 | 0 | 13 | 4 | 45 | 7 | 0 | 56 | 4 | 1 | 2 | 0 | 7 | 116 |
| 16:20 | 0 | 31 | 3 | 0 | 34 | 1 | 7 | 1 | 0 | 9 | 2 | 46 | 15 | 0 | 63 | 4 | 2 | 1 | 0 | 7 | 113 |
| 16:25 | 1 | 24 | 1 | 0 | 26 | 2 | 11 | 0 | 0 | 13 | 3 | 47 | 8 | 0 | 58 | 5 | 10 | 3 | 0 | 18 | 115 |
| 16:30 | 1 | 23 | 0 | 0 | 24 | 0 | 10 | 2 | 0 | 12 | 1 | 42 | 7 | 0 | 50 | 5 | 3 | 2 | 0 | 10 | 96 |
| 16:35 | 2 | 32 | 1 | 0 | 35 | 1 | 5 | 1 | 0 | 7 | 4 | 34 | 4 | 0 | 42 | 2 | 1 | 1 | 0 | 4 | 88 |
| 16:40 | 5 | 29 | 1 | 0 | 35 | 2 | 13 | 0 | 0 | 15 | 1 | 29 | 7 | 0 | 37 | 4 | 9 | 1 | 0 | 14 | 101 |
| 16:45 | 3 | 31 | 2 | 0 | 36 | 5 | 10 | 3 | 0 | 18 | 2 | 31 | 13 | 0 | 46 | 3 | 2 | 2 | 0 | 7 | 107 |
| 16:50 | 1 | 32 | 1 | 0 | 34 | 2 | 11 | 0 | 0 | 13 | 4 | 39 | 7 | 0 | 50 | 6 | 4 | 2 | 0 | 12 | 109 |
| 16:55 | 5 | 29 | 1 | 0 | 35 | 3 | 15 | 2 | 0 | 20 | 3 | 31 | 15 | 0 | 49 | 2 | 4 | 2 | 0 | 8 | 112 |
| 17:00 | 3 | 22 | 0 | 0 | 25 | 0 | 20 | 0 | 0 | 20 | 1 | 37 | 13 | 0 | 51 | 8 | 1 | 0 | 0 | 9 | 105 |
| 17:05 | 2 | 30 | 0 | 0 | 32 | 4 | 6 | 1 | 0 | 11 | 7 | 47 | 14 | 0 | 68 | 2 | 4 | 0 | 0 | 6 | 117 |
| 17:10 | 3 | 45 | 1 | 0 | 49 | 3 | 19 | 1 | 0 | 23 | 1 | 31 | 9 | 0 | 41 | 4 | 1 | 1 | 0 | 6 | 119 |
| Total Volume | 29 | 364 | 12 | 0 | 405 | 26 | 136 | 12 | 0 | 174 | 33 | 459 | 119 | 0 | 611 | 49 | 42 | 17 | 0 | 108 | 1298 |
| % App. Total | 7.2 | 89.9 | 3 | 0 | | 14.9 | 78.2 | 6.9 | 0 | | 5.4 | 75.1 | 19.5 | 0 | | 45.4 | 38.9 | 15.7 | 0 | | |
| PHF | .483 | .674 | .333 | .000 | .689 | .433 | .567 | .333 | .000 | .630 | .393 | .814 | .661 | .000 | .749 | .510 | .350 | .472 | .000 | .500 | .909 |



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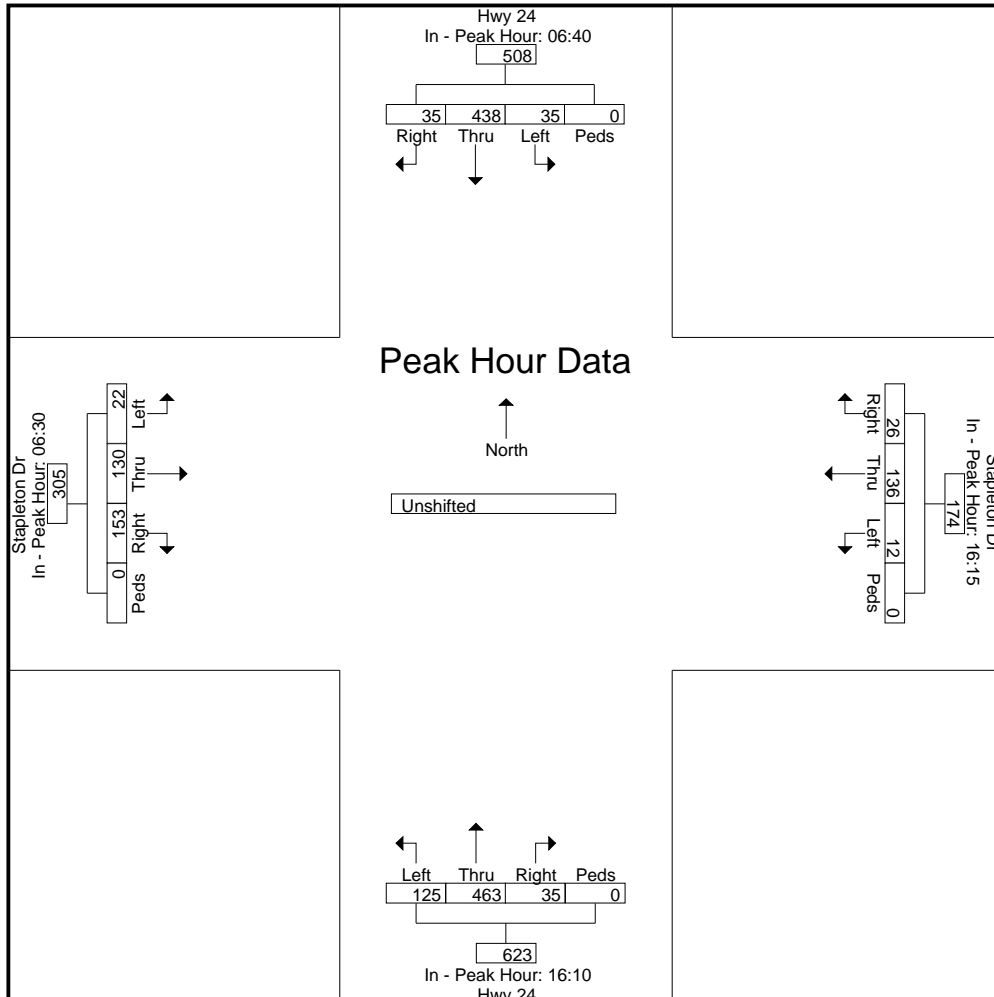
2504 E. Pikes Peak Ave, Suite 304
 Colorado Springs, CO 80909
 719-633-2868

File Name : Hwy 24 - Stapleton Rd AM PM
 Site Code : S224640
 Start Date : 1/10/2023
 Page No : 4

| Start Time | Hwy 24 Southbound | | | | | Stapleton Dr Westbound | | | | | Hwy 24 Northbound | | | | | Stapleton Dr Eastbound | | | | | Int. Total |
|------------|-------------------|------|------|------|------------|------------------------|------|------|------|------------|-------------------|------|------|------|------------|------------------------|------|------|------|------------|------------|
| | 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 17:55 - Peak 1 of 1
 Peak Hour for Each Approach Begins at:

| | 06:40 | | | | | 16:15 | | | | | 16:10 | | | | | 06:30 | | | | |
|--------------|-------|------|------|------|------|-------|------|------|------|------|-------|------|------|------|------|-------|------|------|------|------|
| +0 mins. | 0 | 35 | 2 | 0 | 37 | 3 | 9 | 1 | 0 | 13 | 3 | 35 | 15 | 0 | 53 | 20 | 11 | 1 | 0 | 32 |
| +5 mins. | 3 | 41 | 3 | 0 | 47 | 1 | 7 | 1 | 0 | 9 | 4 | 45 | 7 | 0 | 56 | 11 | 11 | 2 | 0 | 24 |
| +10 mins. | 3 | 32 | 1 | 0 | 36 | 2 | 11 | 0 | 0 | 13 | 2 | 46 | 15 | 0 | 63 | 16 | 8 | 2 | 0 | 26 |
| +15 mins. | 2 | 22 | 1 | 0 | 25 | 0 | 10 | 2 | 0 | 12 | 3 | 47 | 8 | 0 | 58 | 13 | 9 | 2 | 0 | 24 |
| +20 mins. | 4 | 35 | 3 | 0 | 42 | 1 | 5 | 1 | 0 | 7 | 1 | 42 | 7 | 0 | 50 | 14 | 7 | 1 | 0 | 22 |
| +25 mins. | 4 | 33 | 4 | 0 | 41 | 2 | 13 | 0 | 0 | 15 | 4 | 34 | 4 | 0 | 42 | 16 | 13 | 0 | 0 | 29 |
| +30 mins. | 0 | 33 | 3 | 0 | 36 | 5 | 10 | 3 | 0 | 18 | 1 | 29 | 7 | 0 | 37 | 7 | 13 | 1 | 0 | 21 |
| +35 mins. | 2 | 36 | 2 | 0 | 40 | 2 | 11 | 0 | 0 | 13 | 2 | 31 | 13 | 0 | 46 | 7 | 11 | 6 | 0 | 24 |
| +40 mins. | 4 | 46 | 1 | 0 | 51 | 3 | 15 | 2 | 0 | 20 | 4 | 39 | 7 | 0 | 50 | 15 | 12 | 2 | 0 | 29 |
| +45 mins. | 5 | 51 | 8 | 0 | 64 | 0 | 20 | 0 | 0 | 20 | 3 | 31 | 15 | 0 | 49 | 13 | 15 | 3 | 0 | 31 |
| +50 mins. | 2 | 34 | 2 | 0 | 38 | 4 | 6 | 1 | 0 | 11 | 1 | 37 | 13 | 0 | 51 | 11 | 13 | 1 | 0 | 25 |
| +55 mins. | 6 | 40 | 5 | 0 | 51 | 3 | 19 | 1 | 0 | 23 | 7 | 47 | 14 | 0 | 68 | 10 | 7 | 1 | 0 | 18 |
| Total Volume | 35 | 438 | 35 | 0 | 508 | 26 | 136 | 12 | 0 | 174 | 35 | 463 | 125 | 0 | 623 | 153 | 130 | 22 | 0 | 305 |
| % App. Total | 6.9 | 86.2 | 6.9 | 0 | | 14.9 | 78.2 | 6.9 | 0 | | 5.6 | 74.3 | 20.1 | 0 | | 50.2 | 42.6 | 7.2 | 0 | |
| PHF | .486 | .716 | .365 | .000 | .661 | .433 | .567 | .333 | .000 | .630 | .417 | .821 | .694 | .000 | .763 | .638 | .722 | .306 | .000 | .794 |



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LSC Transportation Consultants, Inc.

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

File Name : Curtis Rd - Falcon Hwy AM

Site Code : S214950

Start Date : 4/20/2022

Page No : 1

Groups Printed- Unshifted

| Start Time | Curtis Rd Southbound | | | | | Falcon Hwy Westbound | | | | | Curtis Rd Northbound | | | | | Falcon Hwy Eastbound | | | | | Int. Total |
|--------------------|----------------------|------|------|------|------------|----------------------|------|------|------|------------|----------------------|------|------|------|------------|----------------------|------|------|------|------------|------------|
| | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | |
| 06:30 | 0 | 12 | 0 | 0 | 12 | 2 | 15 | 2 | 0 | 19 | 0 | 4 | 4 | 0 | 8 | 12 | 1 | 0 | 0 | 13 | 52 |
| 06:35 | 0 | 14 | 1 | 0 | 15 | 1 | 15 | 2 | 0 | 18 | 0 | 3 | 4 | 0 | 7 | 13 | 0 | 0 | 0 | 13 | 53 |
| 06:40 | 0 | 13 | 0 | 0 | 13 | 2 | 14 | 3 | 0 | 19 | 0 | 4 | 5 | 0 | 9 | 15 | 1 | 0 | 0 | 16 | 57 |
| 06:45 | 0 | 20 | 0 | 0 | 20 | 1 | 13 | 1 | 0 | 15 | 0 | 4 | 4 | 0 | 8 | 6 | 3 | 0 | 0 | 9 | 52 |
| 06:50 | 0 | 18 | 0 | 0 | 18 | 0 | 15 | 1 | 0 | 16 | 0 | 5 | 4 | 0 | 9 | 19 | 1 | 0 | 0 | 20 | 63 |
| 06:55 | 0 | 15 | 0 | 0 | 15 | 5 | 19 | 2 | 0 | 26 | 0 | 7 | 4 | 0 | 11 | 16 | 5 | 0 | 0 | 21 | 73 |
| Total | 0 | 92 | 1 | 0 | 93 | 11 | 91 | 11 | 0 | 113 | 0 | 27 | 25 | 0 | 52 | 81 | 11 | 0 | 0 | 92 | 350 |
| | | | | | | | | | | | | | | | | | | | | | |
| 07:00 | 0 | 19 | 2 | 0 | 21 | 4 | 19 | 1 | 0 | 24 | 0 | 3 | 4 | 0 | 7 | 11 | 3 | 2 | 0 | 16 | 68 |
| 07:05 | 2 | 23 | 0 | 0 | 25 | 5 | 26 | 2 | 0 | 33 | 0 | 5 | 1 | 0 | 6 | 10 | 3 | 1 | 0 | 14 | 78 |
| 07:10 | 2 | 23 | 0 | 0 | 25 | 5 | 16 | 1 | 0 | 22 | 0 | 9 | 2 | 0 | 11 | 16 | 4 | 0 | 0 | 20 | 78 |
| 07:15 | 3 | 23 | 1 | 0 | 27 | 4 | 18 | 1 | 0 | 23 | 0 | 10 | 6 | 0 | 16 | 15 | 1 | 1 | 0 | 17 | 83 |
| 07:20 | 3 | 20 | 2 | 0 | 25 | 4 | 19 | 1 | 0 | 24 | 1 | 8 | 5 | 0 | 14 | 23 | 2 | 0 | 0 | 25 | 88 |
| 07:25 | 2 | 11 | 1 | 0 | 14 | 4 | 20 | 0 | 0 | 24 | 0 | 6 | 7 | 0 | 13 | 15 | 6 | 0 | 0 | 21 | 72 |
| 07:30 | 3 | 18 | 0 | 0 | 21 | 2 | 20 | 1 | 0 | 23 | 0 | 6 | 8 | 0 | 14 | 14 | 4 | 2 | 0 | 20 | 78 |
| 07:35 | 2 | 22 | 1 | 0 | 25 | 3 | 11 | 3 | 0 | 17 | 1 | 6 | 4 | 0 | 11 | 25 | 9 | 2 | 0 | 36 | 89 |
| 07:40 | 0 | 28 | 2 | 0 | 30 | 4 | 13 | 0 | 0 | 17 | 0 | 6 | 7 | 0 | 13 | 16 | 3 | 0 | 0 | 19 | 79 |
| 07:45 | 1 | 21 | 1 | 0 | 23 | 1 | 10 | 3 | 0 | 14 | 0 | 4 | 5 | 0 | 9 | 12 | 4 | 1 | 0 | 17 | 63 |
| 07:50 | 1 | 15 | 0 | 0 | 16 | 2 | 9 | 0 | 0 | 11 | 0 | 1 | 2 | 0 | 3 | 10 | 3 | 0 | 0 | 13 | 43 |
| 07:55 | 0 | 11 | 1 | 0 | 12 | 4 | 11 | 1 | 0 | 16 | 1 | 2 | 7 | 0 | 10 | 17 | 6 | 1 | 0 | 24 | 62 |
| Total | 19 | 234 | 11 | 0 | 264 | 42 | 192 | 14 | 0 | 248 | 3 | 66 | 58 | 0 | 127 | 184 | 48 | 10 | 0 | 242 | 881 |
| | | | | | | | | | | | | | | | | | | | | | |
| 08:00 | 0 | 19 | 2 | 0 | 21 | 0 | 18 | 0 | 0 | 18 | 0 | 2 | 12 | 0 | 14 | 13 | 6 | 0 | 0 | 19 | 72 |
| 08:05 | 2 | 7 | 2 | 0 | 11 | 0 | 15 | 1 | 0 | 16 | 1 | 2 | 2 | 0 | 5 | 12 | 5 | 0 | 0 | 17 | 49 |
| 08:10 | 1 | 14 | 0 | 0 | 15 | 1 | 11 | 1 | 0 | 13 | 1 | 2 | 7 | 0 | 10 | 10 | 5 | 3 | 0 | 18 | 56 |
| 08:15 | 0 | 7 | 0 | 0 | 7 | 1 | 8 | 1 | 0 | 10 | 0 | 3 | 4 | 0 | 7 | 9 | 6 | 0 | 0 | 15 | 39 |
| 08:20 | 1 | 8 | 0 | 0 | 9 | 2 | 17 | 1 | 0 | 20 | 0 | 3 | 7 | 0 | 10 | 11 | 9 | 0 | 0 | 20 | 59 |
| 08:25 | 0 | 4 | 0 | 0 | 4 | 3 | 9 | 2 | 0 | 14 | 0 | 2 | 6 | 0 | 8 | 7 | 7 | 1 | 0 | 15 | 41 |
| Grand Total | 23 | 385 | 16 | 0 | 424 | 60 | 361 | 31 | 0 | 452 | 5 | 107 | 121 | 0 | 233 | 327 | 97 | 14 | 0 | 438 | 1547 |
| Apprch % | 5.4 | 90.8 | 3.8 | 0 | | 13.3 | 79.9 | 6.9 | 0 | | 2.1 | 45.9 | 51.9 | 0 | | 74.7 | 22.1 | 3.2 | 0 | | |
| Total % | 1.5 | 24.9 | 1 | 0 | 27.4 | 3.9 | 23.3 | 2 | 0 | 29.2 | 0.3 | 6.9 | 7.8 | 0 | 15.1 | 21.1 | 6.3 | 0.9 | 0 | 28.3 | |

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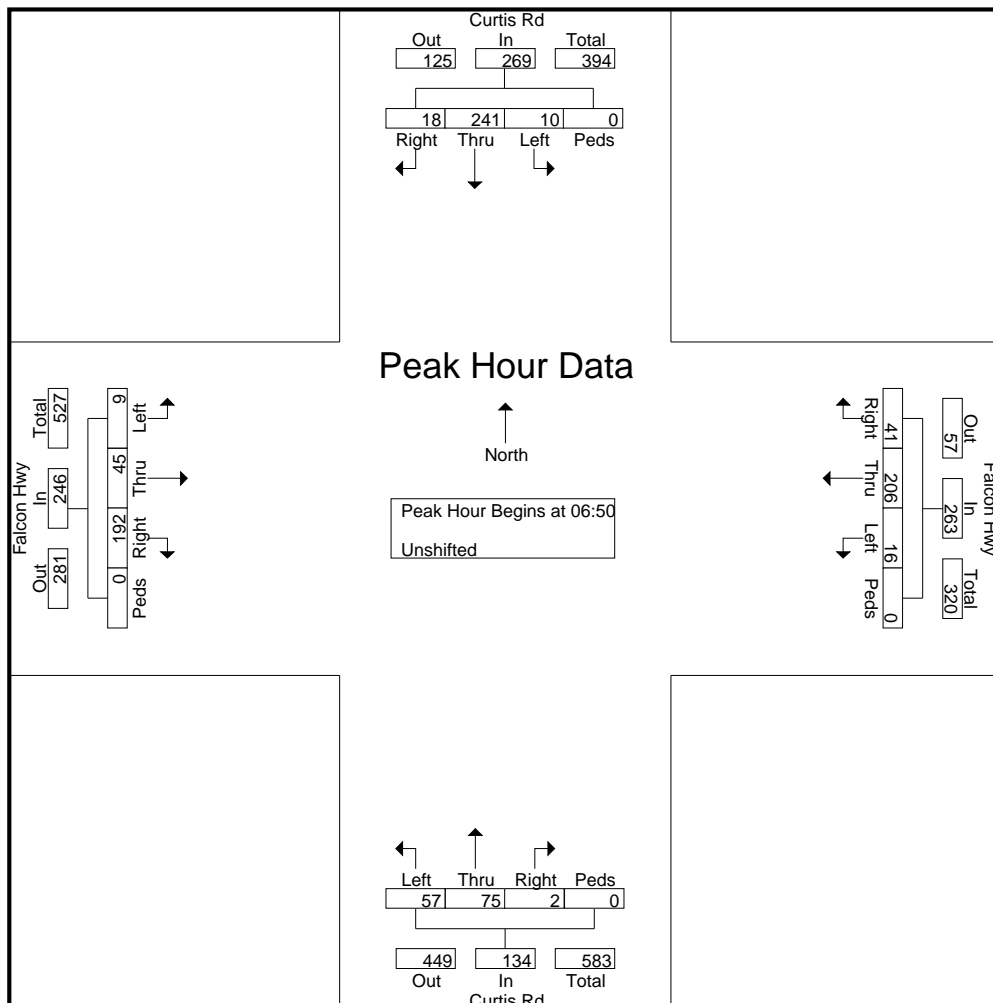
File Name : Curtis Rd - Falcon Hwy AM

Site Code : S214950

Start Date : 4/20/2022

Page No : 2

| Start Time | Curtis Rd Southbound | | | | | Falcon Hwy Westbound | | | | | Curtis Rd Northbound | | | | | Falcon Hwy Eastbound | | | | | Int. Total |
|--|----------------------|------|------|------|------------|----------------------|------|------|------|------------|----------------------|------|------|------|------------|----------------------|------|------|------|------------|------------|
| | 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 for Entire Intersection Begins at 06:50 | | | | | | | | | | | | | | | | | | | | | |
| 06:50 | 0 | 18 | 0 | 0 | 18 | 0 | 15 | 1 | 0 | 16 | 0 | 5 | 4 | 0 | 9 | 19 | 1 | 0 | 0 | 20 | 63 |
| 06:55 | 0 | 15 | 0 | 0 | 15 | 5 | 19 | 2 | 0 | 26 | 0 | 7 | 4 | 0 | 11 | 16 | 5 | 0 | 0 | 21 | 73 |
| 07:00 | 0 | 19 | 2 | 0 | 21 | 4 | 19 | 1 | 0 | 24 | 0 | 3 | 4 | 0 | 7 | 11 | 3 | 2 | 0 | 16 | 68 |
| 07:05 | 2 | 23 | 0 | 0 | 25 | 5 | 26 | 2 | 0 | 33 | 0 | 5 | 1 | 0 | 6 | 10 | 3 | 1 | 0 | 14 | 78 |
| 07:10 | 2 | 23 | 0 | 0 | 25 | 5 | 16 | 1 | 0 | 22 | 0 | 9 | 2 | 0 | 11 | 16 | 4 | 0 | 0 | 20 | 78 |
| 07:15 | 3 | 23 | 1 | 0 | 27 | 4 | 18 | 1 | 0 | 23 | 0 | 10 | 6 | 0 | 16 | 15 | 1 | 1 | 0 | 17 | 83 |
| 07:20 | 3 | 20 | 2 | 0 | 25 | 4 | 19 | 1 | 0 | 24 | 1 | 8 | 5 | 0 | 14 | 23 | 2 | 0 | 0 | 25 | 88 |
| 07:25 | 2 | 11 | 1 | 0 | 14 | 4 | 20 | 0 | 0 | 24 | 0 | 6 | 7 | 0 | 13 | 15 | 6 | 0 | 0 | 21 | 72 |
| 07:30 | 3 | 18 | 0 | 0 | 21 | 2 | 20 | 1 | 0 | 23 | 0 | 6 | 8 | 0 | 14 | 14 | 4 | 2 | 0 | 20 | 78 |
| 07:35 | 2 | 22 | 1 | 0 | 25 | 3 | 11 | 3 | 0 | 17 | 1 | 6 | 4 | 0 | 11 | 25 | 9 | 2 | 0 | 36 | 89 |
| 07:40 | 0 | 28 | 2 | 0 | 30 | 4 | 13 | 0 | 0 | 17 | 0 | 6 | 7 | 0 | 13 | 16 | 3 | 0 | 0 | 19 | 79 |
| 07:45 | 1 | 21 | 1 | 0 | 23 | 1 | 10 | 3 | 0 | 14 | 0 | 4 | 5 | 0 | 9 | 12 | 4 | 1 | 0 | 17 | 63 |
| Total Volume | 18 | 241 | 10 | 0 | 269 | 41 | 206 | 16 | 0 | 263 | 2 | 75 | 57 | 0 | 134 | 192 | 45 | 9 | 0 | 246 | 912 |
| % App. Total | 6.7 | 89.6 | 3.7 | 0 | | 15.6 | 78.3 | 6.1 | 0 | | 1.5 | 56 | 42.5 | 0 | | 78 | 18.3 | 3.7 | 0 | | |
| PHF | .500 | .717 | .417 | .000 | .747 | .683 | .660 | .444 | .000 | .664 | .167 | .625 | .594 | .000 | .698 | .640 | .417 | .375 | .000 | .569 | .854 |



LSC Transportation Consultants, Inc.

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

File Name : Curtis Rd - Falcon Hwy AM

Site Code : S214950

Start Date : 4/20/2022

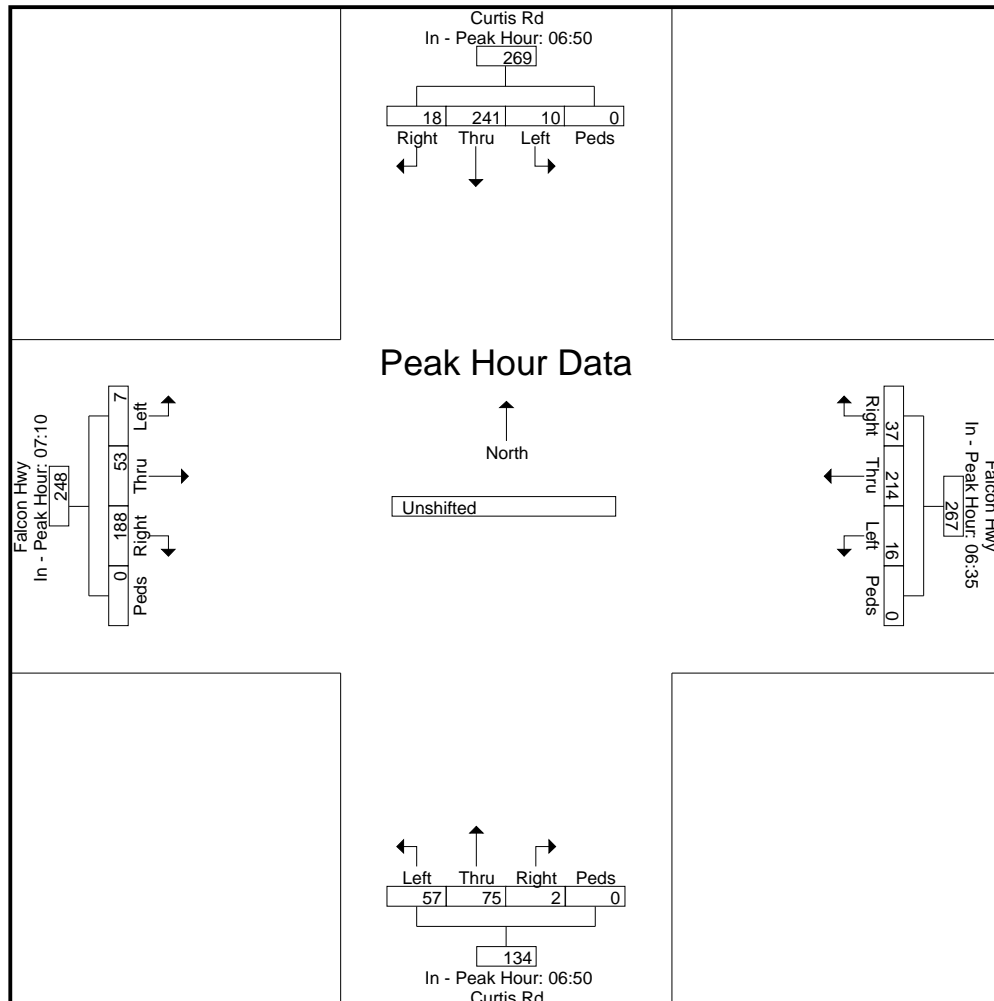
Page No : 3

| Start Time | Curtis Rd Southbound | | | | | Falcon Hwy Westbound | | | | | Curtis Rd Northbound | | | | | Falcon Hwy Eastbound | | | | | Int. Total |
|------------|----------------------|------|------|------|------------|----------------------|------|------|------|------------|----------------------|------|------|------|------------|----------------------|------|------|------|------------|------------|
| | 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 for Each Approach Begins at:

| | 06:50 | | | | | 06:35 | | | | | 06:50 | | | | | 07:10 | | | | |
|--------------|-------|------|------|------|------|-------|------|------|------|------|-------|------|------|------|------|-------|------|------|------|------|
| +0 mins. | 0 | 18 | 0 | 0 | 18 | 1 | 15 | 2 | 0 | 18 | 0 | 5 | 4 | 0 | 9 | 16 | 4 | 0 | 0 | 20 |
| +5 mins. | 0 | 15 | 0 | 0 | 15 | 2 | 14 | 3 | 0 | 19 | 0 | 7 | 4 | 0 | 11 | 15 | 1 | 1 | 0 | 17 |
| +10 mins. | 0 | 19 | 2 | 0 | 21 | 1 | 13 | 1 | 0 | 15 | 0 | 3 | 4 | 0 | 7 | 23 | 2 | 0 | 0 | 25 |
| +15 mins. | 2 | 23 | 0 | 0 | 25 | 0 | 15 | 1 | 0 | 16 | 0 | 5 | 1 | 0 | 6 | 15 | 6 | 0 | 0 | 21 |
| +20 mins. | 2 | 23 | 0 | 0 | 25 | 5 | 19 | 2 | 0 | 26 | 0 | 9 | 2 | 0 | 11 | 14 | 4 | 2 | 0 | 20 |
| +25 mins. | 3 | 23 | 1 | 0 | 27 | 4 | 19 | 1 | 0 | 24 | 0 | 10 | 6 | 0 | 16 | 25 | 9 | 2 | 0 | 36 |
| +30 mins. | 3 | 20 | 2 | 0 | 25 | 5 | 26 | 2 | 0 | 33 | 1 | 8 | 5 | 0 | 14 | 16 | 3 | 0 | 0 | 19 |
| +35 mins. | 2 | 11 | 1 | 0 | 14 | 5 | 16 | 1 | 0 | 22 | 0 | 6 | 7 | 0 | 13 | 12 | 4 | 1 | 0 | 17 |
| +40 mins. | 3 | 18 | 0 | 0 | 21 | 4 | 18 | 1 | 0 | 23 | 0 | 6 | 8 | 0 | 14 | 10 | 3 | 0 | 0 | 13 |
| +45 mins. | 2 | 22 | 1 | 0 | 25 | 4 | 19 | 1 | 0 | 24 | 1 | 6 | 4 | 0 | 11 | 17 | 6 | 1 | 0 | 24 |
| +50 mins. | 0 | 28 | 2 | 0 | 30 | 4 | 20 | 0 | 0 | 24 | 0 | 6 | 7 | 0 | 13 | 13 | 6 | 0 | 0 | 19 |
| +55 mins. | 1 | 21 | 1 | 0 | 23 | 2 | 20 | 1 | 0 | 23 | 0 | 4 | 5 | 0 | 9 | 12 | 5 | 0 | 0 | 17 |
| Total Volume | 18 | 241 | 10 | 0 | 269 | 37 | 214 | 16 | 0 | 267 | 2 | 75 | 57 | 0 | 134 | 188 | 53 | 7 | 0 | 248 |
| % App. Total | 6.7 | 89.6 | 3.7 | 0 | | 13.9 | 80.1 | 6 | 0 | | 1.5 | 56 | 42.5 | 0 | | 75.8 | 21.4 | 2.8 | 0 | |
| PHF | .500 | .717 | .417 | .000 | .747 | .617 | .686 | .444 | .000 | .674 | .167 | .625 | .594 | .000 | .698 | .627 | .491 | .292 | .000 | .574 |



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 Colorado Springs, CO 80909
 719-633-2868

File Name : Curtis Rd - Falcon Hwy AM

Site Code : S214950

Start Date : 4/20/2022

Page No : 1

Groups Printed- Unshifted

| Start Time | Curtis Rd Southbound | | | | | Falcon Hwy Westbound | | | | | Curtis Rd Northbound | | | | | Falcon Hwy Eastbound | | | | | Int. Total |
|-------------|----------------------|------|------|------|------------|----------------------|------|------|------|------------|----------------------|------|------|------|------------|----------------------|------|------|------|------------|------------|
| | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | |
| 06:30 | 0 | 39 | 1 | 0 | 40 | 5 | 44 | 7 | 0 | 56 | 0 | 11 | 13 | 0 | 24 | 40 | 2 | 0 | 0 | 42 | 162 |
| 06:45 | 0 | 53 | 0 | 0 | 53 | 6 | 47 | 4 | 0 | 57 | 0 | 16 | 12 | 0 | 28 | 41 | 9 | 0 | 0 | 50 | 188 |
| Total | 0 | 92 | 1 | 0 | 93 | 11 | 91 | 11 | 0 | 113 | 0 | 27 | 25 | 0 | 52 | 81 | 11 | 0 | 0 | 92 | 350 |
| 07:00 | 4 | 65 | 2 | 0 | 71 | 14 | 61 | 4 | 0 | 79 | 0 | 17 | 7 | 0 | 24 | 37 | 10 | 3 | 0 | 50 | 224 |
| 07:15 | 8 | 54 | 4 | 0 | 66 | 12 | 57 | 2 | 0 | 71 | 1 | 24 | 18 | 0 | 43 | 53 | 9 | 1 | 0 | 63 | 243 |
| 07:30 | 5 | 68 | 3 | 0 | 76 | 9 | 44 | 4 | 0 | 57 | 1 | 18 | 19 | 0 | 38 | 55 | 16 | 4 | 0 | 75 | 246 |
| 07:45 | 2 | 47 | 2 | 0 | 51 | 7 | 30 | 4 | 0 | 41 | 1 | 7 | 14 | 0 | 22 | 39 | 13 | 2 | 0 | 54 | 168 |
| Total | 19 | 234 | 11 | 0 | 264 | 42 | 192 | 14 | 0 | 248 | 3 | 66 | 58 | 0 | 127 | 184 | 48 | 10 | 0 | 242 | 881 |
| 08:00 | 3 | 40 | 4 | 0 | 47 | 1 | 44 | 2 | 0 | 47 | 2 | 6 | 21 | 0 | 29 | 35 | 16 | 3 | 0 | 54 | 177 |
| 08:15 | 1 | 19 | 0 | 0 | 20 | 6 | 34 | 4 | 0 | 44 | 0 | 8 | 17 | 0 | 25 | 27 | 22 | 1 | 0 | 50 | 139 |
| Grand Total | 23 | 385 | 16 | 0 | 424 | 60 | 361 | 31 | 0 | 452 | 5 | 107 | 121 | 0 | 233 | 327 | 97 | 14 | 0 | 438 | 1547 |
| Apprch % | 5.4 | 90.8 | 3.8 | 0 | | 13.3 | 79.9 | 6.9 | 0 | | 2.1 | 45.9 | 51.9 | 0 | | 74.7 | 22.1 | 3.2 | 0 | | |
| Total % | 1.5 | 24.9 | 1 | 0 | 27.4 | 3.9 | 23.3 | 2 | 0 | 29.2 | 0.3 | 6.9 | 7.8 | 0 | 15.1 | 21.1 | 6.3 | 0.9 | 0 | 28.3 | |

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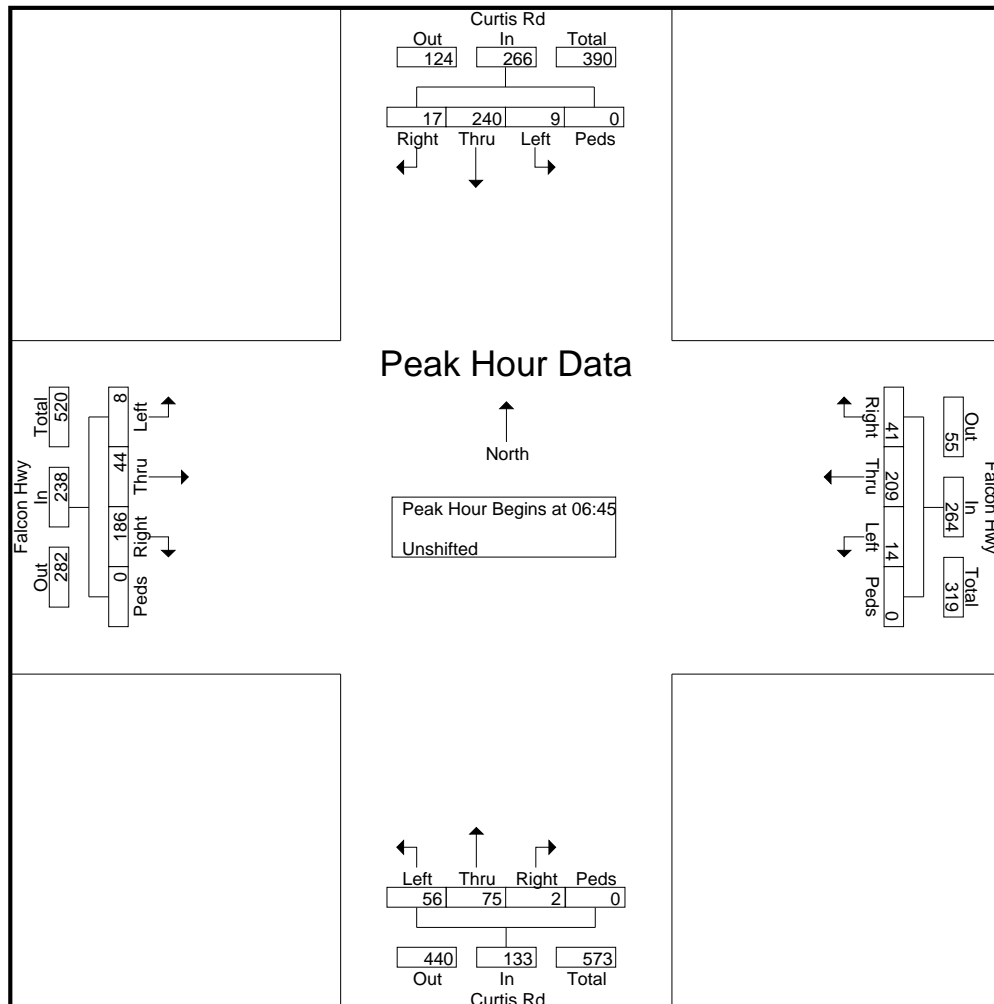
File Name : Curtis Rd - Falcon Hwy AM

Site Code : S214950

Start Date : 4/20/2022

Page No : 2

| Start Time | Curtis Rd Southbound | | | | | Falcon Hwy Westbound | | | | | Curtis Rd Northbound | | | | | Falcon Hwy Eastbound | | | | | Int. Total |
|--|----------------------|------|------|------|------------|----------------------|------|------|------|------------|----------------------|------|------|------|------------|----------------------|------|------|------|------------|------------|
| | 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 6:30:00 AM to 8:15:00 AM - Peak 1 of 1 | | | | | | | | | | | | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 6:45:00 AM | | | | | | | | | | | | | | | | | | | | | |
| 6:45:00 AM | 0 | 53 | 0 | 0 | 53 | 6 | 47 | 4 | 0 | 57 | 0 | 16 | 12 | 0 | 28 | 41 | 9 | 0 | 0 | 50 | 188 |
| 7:00:00 AM | 4 | 65 | 2 | 0 | 71 | 14 | 61 | 4 | 0 | 79 | 0 | 17 | 7 | 0 | 24 | 37 | 10 | 3 | 0 | 50 | 224 |
| 7:15:00 AM | 8 | 54 | 4 | 0 | 66 | 12 | 57 | 2 | 0 | 71 | 1 | 24 | 18 | 0 | 43 | 53 | 9 | 1 | 0 | 63 | 243 |
| 7:30:00 AM | 5 | 68 | 3 | 0 | 76 | 9 | 44 | 4 | 0 | 57 | 1 | 18 | 19 | 0 | 38 | 55 | 16 | 4 | 0 | 75 | 246 |
| Total Volume | 17 | 240 | 9 | 0 | 266 | 41 | 209 | 14 | 0 | 264 | 2 | 75 | 56 | 0 | 133 | 186 | 44 | 8 | 0 | 238 | 901 |
| % App. Total | 6.4 | 90.2 | 3.4 | 0 | | 15.5 | 79.2 | 5.3 | 0 | | 1.5 | 56.4 | 42.1 | 0 | | 78.2 | 18.5 | 3.4 | 0 | | |
| PHF | .531 | .882 | .563 | .000 | .875 | .732 | .857 | .875 | .000 | .835 | .500 | .781 | .737 | .000 | .773 | .845 | .688 | .500 | .000 | .793 | .916 |



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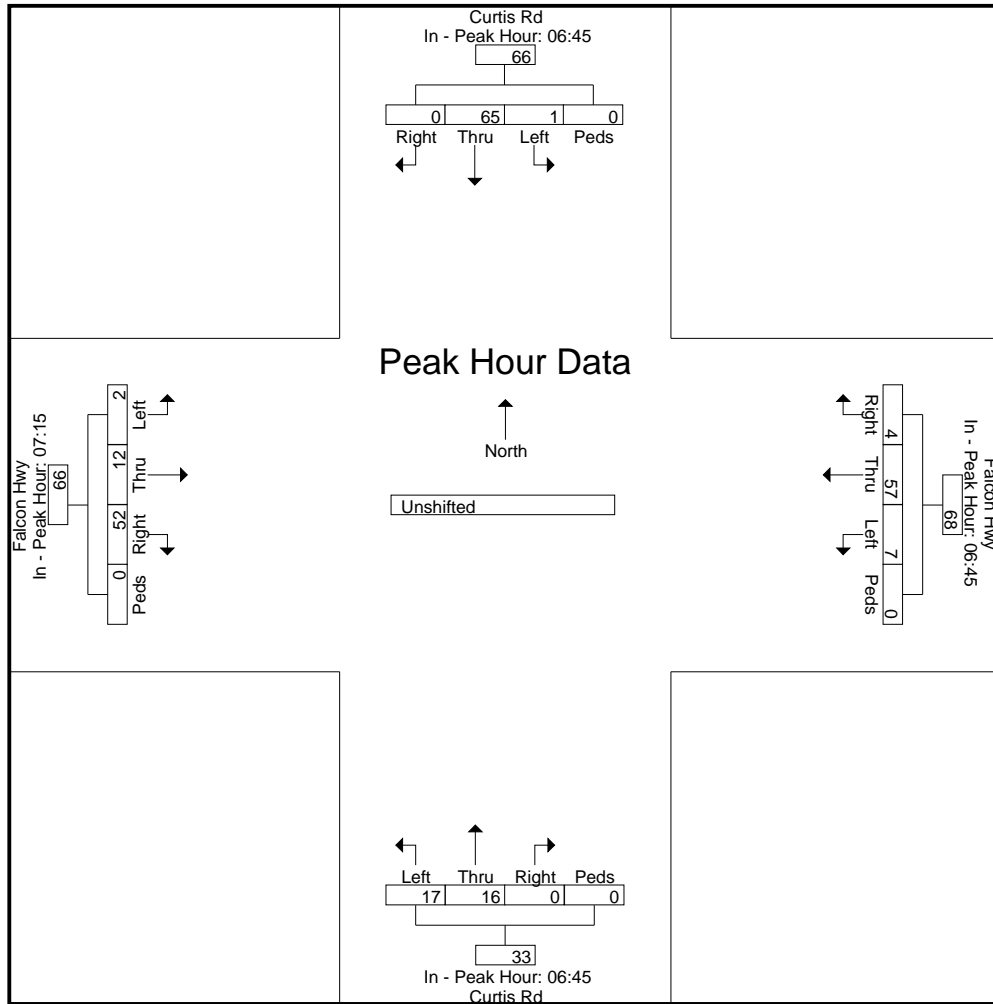
File Name : Curtis Rd - Falcon Hwy AM

Site Code : S214950

Start Date : 4/20/2022

Page No : 3

| Start Time | Curtis Rd Southbound | | | | | Falcon Hwy Westbound | | | | | Curtis Rd Northbound | | | | | Falcon Hwy Eastbound | | | | | Int. Total |
|--|----------------------|-----------|----------|------|------------|----------------------|-----------|------|------|------------|----------------------|-----------|-----------|------|------------|----------------------|-----------|----------|------|------------|------------|
| | 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 6:30:00 AM to 8:15:00 AM - Peak 1 of 1 | | | | | | | | | | | | | | | | | | | | | |
| Peak Hour for Each Approach Begins at: | | | | | | | | | | | | | | | | | | | | | |
| | 6:45:00 AM | | | | | 6:45:00 AM | | | | | 6:45:00 AM | | | | | 7:15:00 AM | | | | | |
| +0 mins. | 0 | 53 | 0 | 0 | 53 | 6 | 47 | 4 | 0 | 57 | 0 | 16 | 12 | 0 | 28 | 53 | 9 | 1 | 0 | 63 | |
| +5 mins. | 4 | 65 | 2 | 0 | 71 | 14 | 61 | 4 | 0 | 79 | 0 | 17 | 7 | 0 | 24 | 55 | 16 | 4 | 0 | 75 | |
| +10 mins. | 8 | 54 | 4 | 0 | 66 | 12 | 57 | 2 | 0 | 71 | 1 | 24 | 18 | 0 | 43 | 39 | 13 | 2 | 0 | 54 | |
| +15 mins. | 5 | 68 | 3 | 0 | 76 | 9 | 44 | 4 | 0 | 57 | 1 | 18 | 19 | 0 | 38 | 35 | 16 | 3 | 0 | 54 | |
| Total Volume | 17 | 240 | 9 | 0 | 266 | 41 | 209 | 14 | 0 | 264 | 2 | 75 | 56 | 0 | 133 | 182 | 54 | 10 | 0 | 246 | |
| % App. Total | 6.4 | 90.2 | 3.4 | 0 | | 15.5 | 79.2 | 5.3 | 0 | | 1.5 | 56.4 | 42.1 | 0 | | 74 | 22 | 4.1 | 0 | | |
| PHF | .531 | .882 | .563 | .000 | .875 | .732 | .857 | .875 | .000 | .835 | .500 | .781 | .737 | .000 | .773 | .827 | .844 | .625 | .000 | .820 | |



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File Name : Curtis Rd - Falcon Hwy PM

Site Code : S214950

Start Date : 4/20/2022

Page No : 1

Groups Printed- Unshifted

| Start Time | Curtis Rd Southbound | | | | | Falcon Hwy Westbound | | | | | Curtis Rd Northbound | | | | | Falcon Hwy Eastbound | | | | | Int. Total |
|--------------|----------------------|-----------|-----------|----------|------------|----------------------|------------|----------|----------|------------|----------------------|------------|------------|----------|------------|----------------------|------------|-----------|----------|------------|------------|
| | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | |
| 16:00 | 1 | 2 | 1 | 0 | 4 | 2 | 6 | 1 | 0 | 9 | 1 | 9 | 12 | 0 | 22 | 5 | 13 | 1 | 0 | 19 | 54 |
| 16:05 | 2 | 9 | 4 | 0 | 15 | 1 | 9 | 0 | 0 | 10 | 2 | 11 | 12 | 0 | 25 | 6 | 12 | 1 | 0 | 19 | 69 |
| 16:10 | 1 | 4 | 3 | 0 | 8 | 2 | 8 | 1 | 0 | 11 | 2 | 14 | 9 | 0 | 25 | 1 | 12 | 2 | 0 | 15 | 59 |
| 16:15 | 0 | 7 | 1 | 0 | 8 | 0 | 9 | 0 | 0 | 9 | 1 | 13 | 16 | 0 | 30 | 3 | 13 | 0 | 0 | 16 | 63 |
| 16:20 | 1 | 3 | 0 | 0 | 4 | 1 | 5 | 0 | 0 | 6 | 4 | 16 | 14 | 0 | 34 | 6 | 11 | 2 | 0 | 19 | 63 |
| 16:25 | 1 | 6 | 0 | 0 | 7 | 2 | 10 | 1 | 0 | 13 | 3 | 18 | 16 | 0 | 37 | 5 | 17 | 1 | 0 | 23 | 80 |
| 16:30 | 2 | 2 | 1 | 0 | 5 | 0 | 7 | 1 | 0 | 8 | 6 | 21 | 20 | 0 | 47 | 3 | 12 | 0 | 0 | 15 | 75 |
| 16:35 | 1 | 6 | 2 | 0 | 9 | 2 | 9 | 3 | 0 | 14 | 3 | 17 | 14 | 0 | 34 | 13 | 14 | 1 | 0 | 28 | 85 |
| 16:40 | 1 | 2 | 1 | 0 | 4 | 0 | 15 | 0 | 0 | 15 | 3 | 16 | 19 | 0 | 38 | 5 | 13 | 0 | 0 | 18 | 75 |
| 16:45 | 2 | 3 | 3 | 0 | 8 | 1 | 8 | 0 | 0 | 9 | 3 | 10 | 16 | 0 | 29 | 9 | 14 | 2 | 0 | 25 | 71 |
| 16:50 | 2 | 2 | 3 | 0 | 7 | 1 | 7 | 1 | 0 | 9 | 3 | 19 | 18 | 0 | 40 | 3 | 21 | 2 | 0 | 26 | 82 |
| 16:55 | 0 | 2 | 2 | 0 | 4 | 3 | 7 | 1 | 0 | 11 | 3 | 16 | 17 | 0 | 36 | 4 | 13 | 1 | 0 | 18 | 69 |
| Total | 14 | 48 | 21 | 0 | 83 | 15 | 100 | 9 | 0 | 124 | 34 | 180 | 183 | 0 | 397 | 63 | 165 | 13 | 0 | 241 | 845 |
| 17:00 | 0 | 5 | 0 | 0 | 5 | 0 | 4 | 0 | 0 | 4 | 2 | 7 | 18 | 0 | 27 | 8 | 16 | 2 | 0 | 26 | 62 |
| 17:05 | 2 | 2 | 1 | 0 | 5 | 1 | 5 | 1 | 0 | 7 | 2 | 20 | 10 | 0 | 32 | 6 | 14 | 1 | 0 | 21 | 65 |
| 17:10 | 0 | 4 | 2 | 0 | 6 | 0 | 9 | 0 | 0 | 9 | 3 | 11 | 4 | 0 | 18 | 4 | 14 | 0 | 0 | 18 | 51 |
| 17:15 | 1 | 1 | 2 | 0 | 4 | 0 | 9 | 1 | 0 | 10 | 3 | 18 | 12 | 0 | 33 | 10 | 18 | 1 | 0 | 29 | 76 |
| 17:20 | 1 | 6 | 1 | 0 | 8 | 0 | 5 | 0 | 0 | 5 | 1 | 16 | 12 | 0 | 29 | 3 | 18 | 2 | 0 | 23 | 65 |
| 17:25 | 0 | 4 | 3 | 0 | 7 | 0 | 2 | 0 | 0 | 2 | 3 | 11 | 17 | 0 | 31 | 6 | 18 | 1 | 0 | 25 | 65 |
| 17:30 | 2 | 3 | 0 | 0 | 5 | 0 | 3 | 1 | 0 | 4 | 0 | 11 | 6 | 0 | 17 | 4 | 14 | 2 | 0 | 20 | 46 |
| 17:35 | 0 | 2 | 2 | 0 | 4 | 1 | 9 | 0 | 0 | 10 | 4 | 9 | 8 | 0 | 21 | 6 | 14 | 1 | 0 | 21 | 56 |
| 17:40 | 0 | 5 | 0 | 0 | 5 | 1 | 8 | 1 | 0 | 10 | 0 | 10 | 8 | 0 | 18 | 4 | 13 | 1 | 0 | 18 | 51 |
| 17:45 | 1 | 3 | 2 | 0 | 6 | 0 | 4 | 0 | 0 | 4 | 0 | 8 | 10 | 0 | 18 | 9 | 21 | 0 | 0 | 30 | 58 |
| 17:50 | 1 | 3 | 0 | 0 | 4 | 0 | 8 | 1 | 0 | 9 | 2 | 5 | 4 | 0 | 11 | 6 | 13 | 0 | 0 | 19 | 43 |
| 17:55 | 0 | 4 | 3 | 0 | 7 | 0 | 10 | 0 | 0 | 10 | 2 | 5 | 13 | 0 | 20 | 5 | 19 | 0 | 0 | 24 | 61 |
| Total | 8 | 42 | 16 | 0 | 66 | 3 | 76 | 5 | 0 | 84 | 22 | 131 | 122 | 0 | 275 | 71 | 192 | 11 | 0 | 274 | 699 |
| Grand Total | 22 | 90 | 37 | 0 | 149 | 18 | 176 | 14 | 0 | 208 | 56 | 311 | 305 | 0 | 672 | 134 | 357 | 24 | 0 | 515 | 1544 |
| Apprch % | 14.8 | 60.4 | 24.8 | 0 | | 8.7 | 84.6 | 6.7 | 0 | | 8.3 | 46.3 | 45.4 | 0 | | 26 | 69.3 | 4.7 | 0 | | |
| Total % | 1.4 | 5.8 | 2.4 | 0 | 9.7 | 1.2 | 11.4 | 0.9 | 0 | 13.5 | 3.6 | 20.1 | 19.8 | 0 | 43.5 | 8.7 | 23.1 | 1.6 | 0 | 33.4 | |

LSC Transportation Consultants, Inc.

2504 E. Pikes Peak Ave, Suite 304
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File Name : Curtis Rd - Falcon Hwy PM

Site Code : S214950

Start Date : 4/20/2022

Page No : 2

| Start Time | Curtis Rd Southbound | | | | | Falcon Hwy Westbound | | | | | Curtis Rd Northbound | | | | | Falcon Hwy Eastbound | | | | | Int. Total |
|--|----------------------|------|------|------|------------|----------------------|------|------|------|------------|----------------------|------|------|------|------------|----------------------|------|------|------|------------|------------|
| | 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 16:00 to 17:55 - Peak 1 of 1 | | | | | | | | | | | | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 16:25 | | | | | | | | | | | | | | | | | | | | | |
| 16:25 | 1 | 6 | 0 | 0 | 7 | 2 | 10 | 1 | 0 | 13 | 3 | 18 | 16 | 0 | 37 | 5 | 17 | 1 | 0 | 23 | 80 |
| 16:30 | 2 | 2 | 1 | 0 | 5 | 0 | 7 | 1 | 0 | 8 | 6 | 21 | 20 | 0 | 47 | 3 | 12 | 0 | 0 | 15 | 75 |
| 16:35 | 1 | 6 | 2 | 0 | 9 | 2 | 9 | 3 | 0 | 14 | 3 | 17 | 14 | 0 | 34 | 13 | 14 | 1 | 0 | 28 | 85 |
| 16:40 | 1 | 2 | 1 | 0 | 4 | 0 | 15 | 0 | 0 | 15 | 3 | 16 | 19 | 0 | 38 | 5 | 13 | 0 | 0 | 18 | 75 |
| 16:45 | 2 | 3 | 3 | 0 | 8 | 1 | 8 | 0 | 0 | 9 | 3 | 10 | 16 | 0 | 29 | 9 | 14 | 2 | 0 | 25 | 71 |
| 16:50 | 2 | 2 | 3 | 0 | 7 | 1 | 7 | 1 | 0 | 9 | 3 | 19 | 18 | 0 | 40 | 3 | 21 | 2 | 0 | 26 | 82 |
| 16:55 | 0 | 2 | 2 | 0 | 4 | 3 | 7 | 1 | 0 | 11 | 3 | 16 | 17 | 0 | 36 | 4 | 13 | 1 | 0 | 18 | 69 |
| 17:00 | 0 | 5 | 0 | 0 | 5 | 0 | 4 | 0 | 0 | 4 | 2 | 7 | 18 | 0 | 27 | 8 | 16 | 2 | 0 | 26 | 62 |
| 17:05 | 2 | 2 | 1 | 0 | 5 | 1 | 5 | 1 | 0 | 7 | 2 | 20 | 10 | 0 | 32 | 6 | 14 | 1 | 0 | 21 | 65 |
| 17:10 | 0 | 4 | 2 | 0 | 6 | 0 | 9 | 0 | 0 | 9 | 3 | 11 | 4 | 0 | 18 | 4 | 14 | 0 | 0 | 18 | 51 |
| 17:15 | 1 | 1 | 2 | 0 | 4 | 0 | 9 | 1 | 0 | 10 | 3 | 18 | 12 | 0 | 33 | 10 | 18 | 1 | 0 | 29 | 76 |
| 17:20 | 1 | 6 | 1 | 0 | 8 | 0 | 5 | 0 | 0 | 5 | 1 | 16 | 12 | 0 | 29 | 3 | 18 | 2 | 0 | 23 | 65 |
| Total Volume | 13 | 41 | 18 | 0 | 72 | 10 | 95 | 9 | 0 | 114 | 35 | 189 | 176 | 0 | 400 | 73 | 184 | 13 | 0 | 270 | 856 |
| % App. Total | 18.1 | 56.9 | 25 | 0 | | 8.8 | 83.3 | 7.9 | 0 | | 8.8 | 47.2 | 44 | 0 | | 27 | 68.1 | 4.8 | 0 | | |
| PHF | .542 | .569 | .500 | .000 | .667 | .278 | .528 | .250 | .000 | .633 | .486 | .750 | .733 | .000 | .709 | .468 | .730 | .542 | .000 | .776 | .839 |

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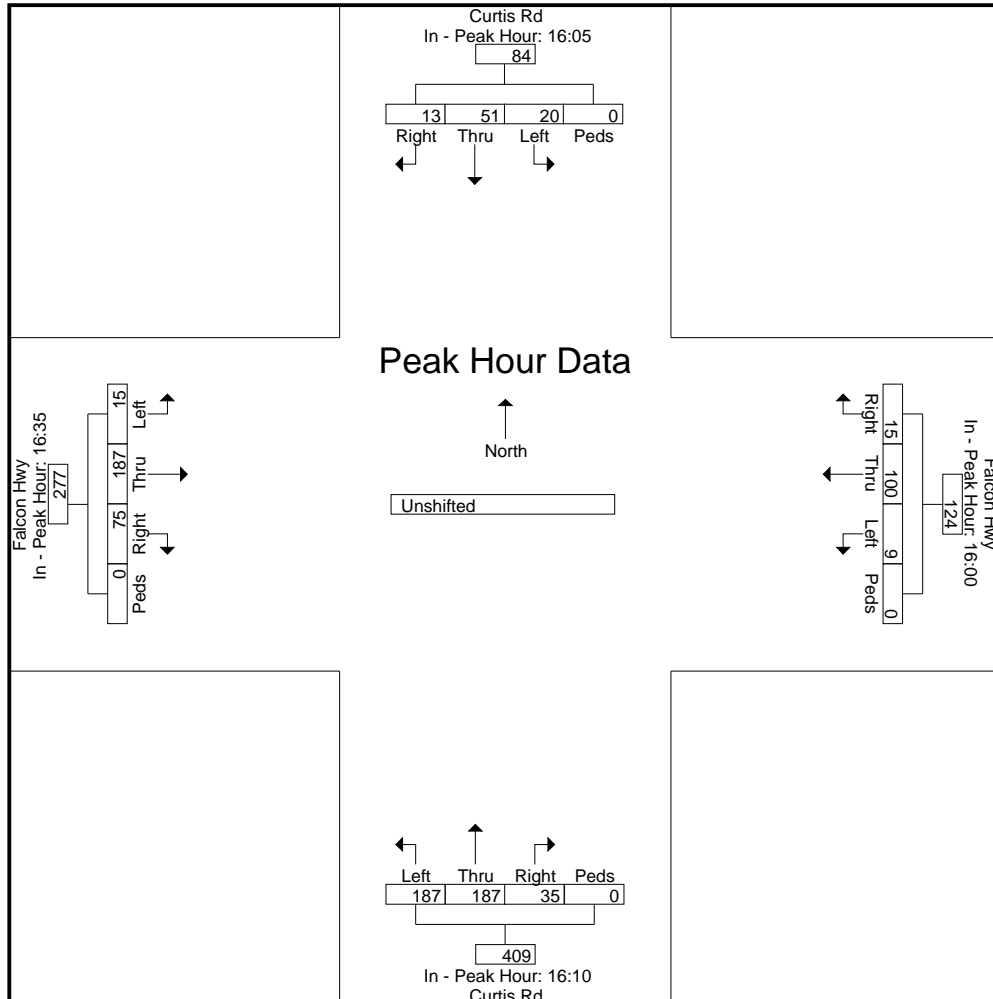
File Name : Curtis Rd - Falcon Hwy PM

Site Code : S214950

Start Date : 4/20/2022

Page No : 3

| Start Time | Curtis Rd Southbound | | | | | Falcon Hwy Westbound | | | | | Curtis Rd Northbound | | | | | Falcon Hwy Eastbound | | | | | Int. Total |
|--|----------------------|------|------|------|------------|----------------------|------|------|------|------------|----------------------|------|------|------|------------|----------------------|------|------|------|------------|------------|
| | 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 16:00 to 17:55 - Peak 1 of 1 | | | | | | | | | | | | | | | | | | | | | |
| Peak Hour for Each Approach Begins at: | | | | | | | | | | | | | | | | | | | | | |
| | 16:05 | | | | | 16:00 | | | | | 16:10 | | | | | 16:35 | | | | | |
| +0 mins. | 2 | 9 | 4 | 0 | 15 | 2 | 6 | 1 | 0 | 9 | 2 | 14 | 9 | 0 | 25 | 13 | 14 | 1 | 0 | 28 | |
| +5 mins. | 1 | 4 | 3 | 0 | 8 | 1 | 9 | 0 | 0 | 10 | 1 | 13 | 16 | 0 | 30 | 5 | 13 | 0 | 0 | 18 | |
| +10 mins. | 0 | 7 | 1 | 0 | 8 | 2 | 8 | 1 | 0 | 11 | 4 | 16 | 14 | 0 | 34 | 9 | 14 | 2 | 0 | 25 | |
| +15 mins. | 1 | 3 | 0 | 0 | 4 | 0 | 9 | 0 | 0 | 9 | 3 | 18 | 16 | 0 | 37 | 3 | 21 | 2 | 0 | 26 | |
| +20 mins. | 1 | 6 | 0 | 0 | 7 | 1 | 5 | 0 | 0 | 6 | 6 | 21 | 20 | 0 | 47 | 4 | 13 | 1 | 0 | 18 | |
| +25 mins. | 2 | 2 | 1 | 0 | 5 | 2 | 10 | 1 | 0 | 13 | 3 | 17 | 14 | 0 | 34 | 8 | 16 | 2 | 0 | 26 | |
| +30 mins. | 1 | 6 | 2 | 0 | 9 | 0 | 7 | 1 | 0 | 8 | 3 | 16 | 19 | 0 | 38 | 6 | 14 | 1 | 0 | 21 | |
| +35 mins. | 1 | 2 | 1 | 0 | 4 | 2 | 9 | 3 | 0 | 14 | 3 | 10 | 16 | 0 | 29 | 4 | 14 | 0 | 0 | 18 | |
| +40 mins. | 2 | 3 | 3 | 0 | 8 | 0 | 15 | 0 | 0 | 15 | 3 | 19 | 18 | 0 | 40 | 10 | 18 | 1 | 0 | 29 | |
| +45 mins. | 2 | 2 | 3 | 0 | 7 | 1 | 8 | 0 | 0 | 9 | 3 | 16 | 17 | 0 | 36 | 3 | 18 | 2 | 0 | 23 | |
| +50 mins. | 0 | 2 | 2 | 0 | 4 | 1 | 7 | 1 | 0 | 9 | 2 | 7 | 18 | 0 | 27 | 6 | 18 | 1 | 0 | 25 | |
| +55 mins. | 0 | 5 | 0 | 0 | 5 | 3 | 7 | 1 | 0 | 11 | 2 | 20 | 10 | 0 | 32 | 4 | 14 | 2 | 0 | 20 | |
| Total Volume | 13 | 51 | 20 | 0 | 84 | 15 | 100 | 9 | 0 | 124 | 35 | 187 | 187 | 0 | 409 | 75 | 187 | 15 | 0 | 277 | |
| % App. Total | 15.5 | 60.7 | 23.8 | 0 | | 12.1 | 80.6 | 7.3 | 0 | | 8.6 | 45.7 | 45.7 | 0 | | 27.1 | 67.5 | 5.4 | 0 | | |
| PHF | .542 | .472 | .417 | .000 | .467 | .417 | .556 | .250 | .000 | .689 | .486 | .742 | .779 | .000 | .725 | .481 | .742 | .625 | .000 | .796 | |



LSC Transportation Consultants, Inc.

2504 E. Pikes Peak Ave, Suite 304

Colorado Springs, CO 80909

719-633-2868

LSC Transportation Consultants, Inc.

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

File Name : Curtis Rd - Falcon Hwy PM

Site Code : S214950

Start Date : 4/20/2022

Page No : 1

Groups Printed- Unshifted

| Start Time | Curtis Rd Southbound | | | | | Falcon Hwy Westbound | | | | | Curtis Rd Northbound | | | | | Falcon Hwy Eastbound | | | | | Int. Total |
|--------------------|----------------------|-------------|-------------|----------|------------|----------------------|-------------|------------|----------|-------------|----------------------|-------------|-------------|----------|-------------|----------------------|-------------|------------|----------|-------------|-------------|
| | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | |
| 16:00 | 4 | 15 | 8 | 0 | 27 | 5 | 23 | 2 | 0 | 30 | 5 | 34 | 33 | 0 | 72 | 12 | 37 | 4 | 0 | 53 | 182 |
| 16:15 | 2 | 16 | 1 | 0 | 19 | 3 | 24 | 1 | 0 | 28 | 8 | 47 | 46 | 0 | 101 | 14 | 41 | 3 | 0 | 58 | 206 |
| 16:30 | 4 | 10 | 4 | 0 | 18 | 2 | 31 | 4 | 0 | 37 | 12 | 54 | 53 | 0 | 119 | 21 | 39 | 1 | 0 | 61 | 235 |
| 16:45 | 4 | 7 | 8 | 0 | 19 | 5 | 22 | 2 | 0 | 29 | 9 | 45 | 51 | 0 | 105 | 16 | 48 | 5 | 0 | 69 | 222 |
| Total | 14 | 48 | 21 | 0 | 83 | 15 | 100 | 9 | 0 | 124 | 34 | 180 | 183 | 0 | 397 | 63 | 165 | 13 | 0 | 241 | 845 |
| 17:00 | 2 | 11 | 3 | 0 | 16 | 1 | 18 | 1 | 0 | 20 | 7 | 38 | 32 | 0 | 77 | 18 | 44 | 3 | 0 | 65 | 178 |
| 17:15 | 2 | 11 | 6 | 0 | 19 | 0 | 16 | 1 | 0 | 17 | 7 | 45 | 41 | 0 | 93 | 19 | 54 | 4 | 0 | 77 | 206 |
| 17:30 | 2 | 10 | 2 | 0 | 14 | 2 | 20 | 2 | 0 | 24 | 4 | 30 | 22 | 0 | 56 | 14 | 41 | 4 | 0 | 59 | 153 |
| 17:45 | 2 | 10 | 5 | 0 | 17 | 0 | 22 | 1 | 0 | 23 | 4 | 18 | 27 | 0 | 49 | 20 | 53 | 0 | 0 | 73 | 162 |
| Total | 8 | 42 | 16 | 0 | 66 | 3 | 76 | 5 | 0 | 84 | 22 | 131 | 122 | 0 | 275 | 71 | 192 | 11 | 0 | 274 | 699 |
| Grand Total | 22 | 90 | 37 | 0 | 149 | 18 | 176 | 14 | 0 | 208 | 56 | 311 | 305 | 0 | 672 | 134 | 357 | 24 | 0 | 515 | 1544 |
| Apprch % | 14.8 | 60.4 | 24.8 | 0 | | 8.7 | 84.6 | 6.7 | 0 | | 8.3 | 46.3 | 45.4 | 0 | | 26 | 69.3 | 4.7 | 0 | | |
| Total % | 1.4 | 5.8 | 2.4 | 0 | 9.7 | 1.2 | 11.4 | 0.9 | 0 | 13.5 | 3.6 | 20.1 | 19.8 | 0 | 43.5 | 8.7 | 23.1 | 1.6 | 0 | 33.4 | |

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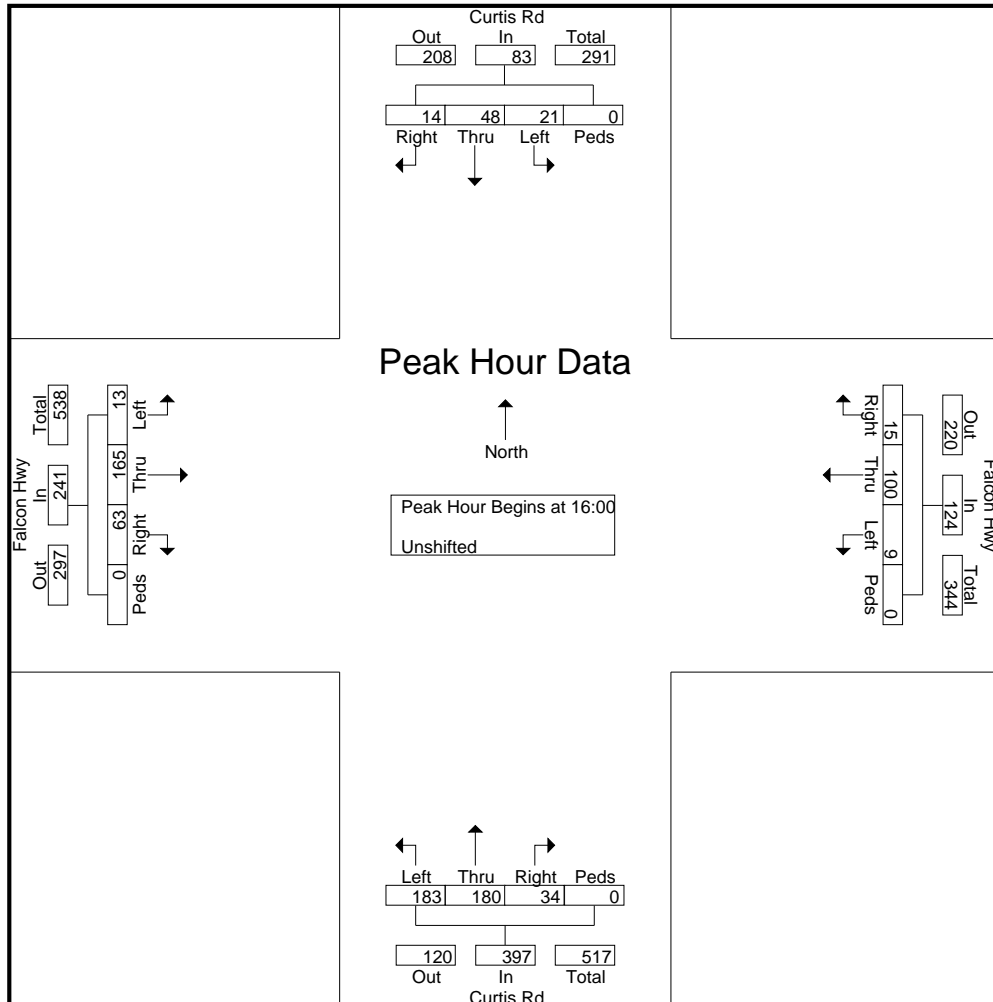
File Name : Curtis Rd - Falcon Hwy PM

Site Code : S214950

Start Date : 4/20/2022

Page No : 2

| Start Time | Curtis Rd Southbound | | | | | Falcon Hwy Westbound | | | | | Curtis Rd Northbound | | | | | Falcon Hwy Eastbound | | | | | Int. Total |
|--|----------------------|------|------|------|------------|----------------------|------|------|------|------------|----------------------|------|------|------|------------|----------------------|------|------|------|------------|------------|
| | 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 4:00:00 PM to 5:45:00 PM - Peak 1 of 1 | | | | | | | | | | | | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 4:00:00 PM | | | | | | | | | | | | | | | | | | | | | |
| 4:00:00 PM | 4 | 15 | 8 | 0 | 27 | 5 | 23 | 2 | 0 | 30 | 5 | 34 | 33 | 0 | 72 | 12 | 37 | 4 | 0 | 53 | 182 |
| 4:15:00 PM | 2 | 16 | 1 | 0 | 19 | 3 | 24 | 1 | 0 | 28 | 8 | 47 | 46 | 0 | 101 | 14 | 41 | 3 | 0 | 58 | 206 |
| 4:30:00 PM | 4 | 10 | 4 | 0 | 18 | 2 | 31 | 4 | 0 | 37 | 12 | 54 | 53 | 0 | 119 | 21 | 39 | 1 | 0 | 61 | 235 |
| 4:45:00 PM | 4 | 7 | 8 | 0 | 19 | 5 | 22 | 2 | 0 | 29 | 9 | 45 | 51 | 0 | 105 | 16 | 48 | 5 | 0 | 69 | 222 |
| Total Volume | 14 | 48 | 21 | 0 | 83 | 15 | 100 | 9 | 0 | 124 | 34 | 180 | 183 | 0 | 397 | 63 | 165 | 13 | 0 | 241 | 845 |
| % App. Total | 16.9 | 57.8 | 25.3 | 0 | | 12.1 | 80.6 | 7.3 | 0 | | 8.6 | 45.3 | 46.1 | 0 | | 26.1 | 68.5 | 5.4 | 0 | | |
| PHF | .875 | .750 | .656 | .000 | .769 | .750 | .806 | .563 | .000 | .838 | .708 | .833 | .863 | .000 | .834 | .750 | .859 | .650 | .000 | .873 | .899 |



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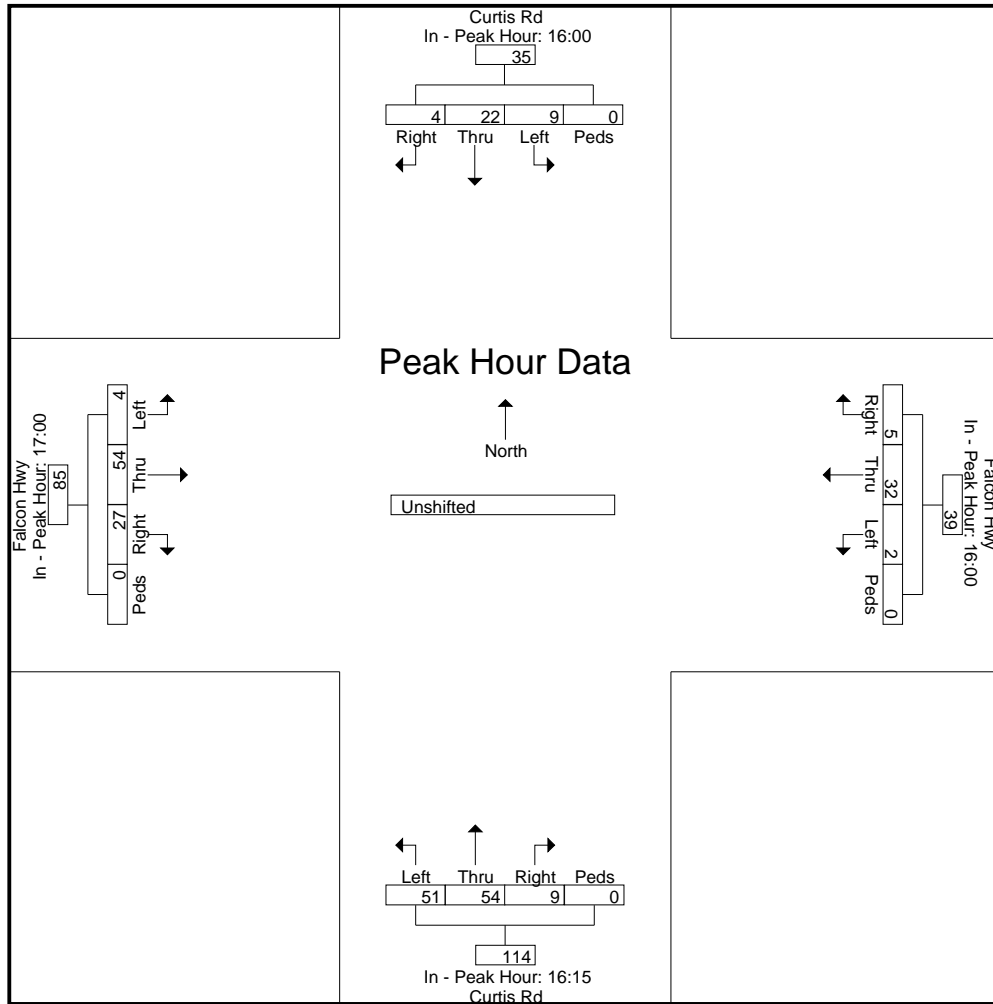
File Name : Curtis Rd - Falcon Hwy PM

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Start Date : 4/20/2022

Page No : 3

| Start Time | Curtis Rd Southbound | | | | | Falcon Hwy Westbound | | | | | Curtis Rd Northbound | | | | | Falcon Hwy Eastbound | | | | | Int. Total |
|--|----------------------|------|------|------|------------|----------------------|------|------|------|------------|----------------------|------|------|------|------------|----------------------|------|------|------|------------|------------|
| | 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 4:00:00 PM to 5:45:00 PM - Peak 1 of 1 | | | | | | | | | | | | | | | | | | | | | |
| Peak Hour for Each Approach Begins at: | | | | | | | | | | | | | | | | | | | | | |
| | 4:00:00 PM | | | | | 4:00:00 PM | | | | | 4:15:00 PM | | | | | 5:00:00 PM | | | | | |
| +0 mins. | 4 | 15 | 8 | 0 | 27 | 5 | 23 | 2 | 0 | 30 | 8 | 47 | 46 | 0 | 101 | 18 | 44 | 3 | 0 | 65 | |
| +5 mins. | 2 | 16 | 1 | 0 | 19 | 3 | 24 | 1 | 0 | 28 | 12 | 54 | 53 | 0 | 119 | 19 | 54 | 4 | 0 | 77 | |
| +10 mins. | 4 | 10 | 4 | 0 | 18 | 2 | 31 | 4 | 0 | 37 | 9 | 45 | 51 | 0 | 105 | 14 | 41 | 4 | 0 | 59 | |
| +15 mins. | 4 | 7 | 8 | 0 | 19 | 5 | 22 | 2 | 0 | 29 | 7 | 38 | 32 | 0 | 77 | 20 | 53 | 0 | 0 | 73 | |
| Total Volume | 14 | 48 | 21 | 0 | 83 | 15 | 100 | 9 | 0 | 124 | 36 | 184 | 182 | 0 | 402 | 71 | 192 | 11 | 0 | 274 | |
| % App. Total | 16.9 | 57.8 | 25.3 | 0 | | 12.1 | 80.6 | 7.3 | 0 | | 9 | 45.8 | 45.3 | 0 | | 25.9 | 70.1 | 4 | 0 | | |
| PHF | .875 | .750 | .656 | .000 | .769 | .750 | .806 | .563 | .000 | .838 | .750 | .852 | .858 | .000 | .845 | .888 | .889 | .688 | .000 | .890 | |



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File Name : Curtis Rd - Judge Orr Rd AM

Site Code : S214950

Start Date : 4/21/2022

Page No : 1

Groups Printed- Unshifted

| Start Time | Curtis Rd Southbound | | | | | Judge Orr Rd Westbound | | | | | Curtis Rd Northbound | | | | | Judge Orr Rd Eastbound | | | | | Int. Total |
|--------------------|----------------------|-------------|------------|----------|-------------|------------------------|-------------|------------|----------|-------------|----------------------|-------------|-------------|----------|-------------|------------------------|-------------|------------|----------|-------------|------------|
| | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | |
| 06:30 | 0 | 15 | 0 | 0 | 15 | 1 | 8 | 0 | 0 | 9 | 0 | 3 | 1 | 0 | 4 | 4 | 2 | 0 | 0 | 6 | 34 |
| 06:35 | 0 | 13 | 1 | 0 | 14 | 1 | 10 | 1 | 0 | 12 | 0 | 2 | 2 | 0 | 4 | 6 | 1 | 0 | 0 | 7 | 37 |
| 06:40 | 0 | 14 | 0 | 0 | 14 | 0 | 11 | 1 | 0 | 12 | 0 | 4 | 1 | 0 | 5 | 4 | 2 | 0 | 0 | 6 | 37 |
| 06:45 | 0 | 12 | 1 | 0 | 13 | 2 | 12 | 1 | 0 | 15 | 0 | 5 | 3 | 0 | 8 | 5 | 1 | 0 | 0 | 6 | 42 |
| 06:50 | 0 | 14 | 0 | 0 | 14 | 4 | 6 | 0 | 0 | 10 | 0 | 5 | 1 | 0 | 6 | 4 | 5 | 0 | 0 | 9 | 39 |
| 06:55 | 0 | 14 | 2 | 0 | 16 | 0 | 9 | 4 | 0 | 13 | 0 | 2 | 2 | 0 | 4 | 4 | 3 | 0 | 0 | 7 | 40 |
| Total | 0 | 82 | 4 | 0 | 86 | 8 | 56 | 7 | 0 | 71 | 0 | 21 | 10 | 0 | 31 | 27 | 14 | 0 | 0 | 41 | 229 |
| | | | | | | | | | | | | | | | | | | | | | |
| 07:00 | 0 | 13 | 0 | 0 | 13 | 1 | 9 | 2 | 0 | 12 | 0 | 11 | 2 | 0 | 13 | 4 | 4 | 0 | 0 | 8 | 46 |
| 07:05 | 0 | 13 | 0 | 0 | 13 | 5 | 16 | 2 | 0 | 23 | 0 | 6 | 3 | 0 | 9 | 6 | 3 | 0 | 0 | 9 | 54 |
| 07:10 | 0 | 18 | 0 | 0 | 18 | 2 | 9 | 1 | 0 | 12 | 0 | 9 | 4 | 0 | 13 | 9 | 3 | 0 | 0 | 12 | 55 |
| 07:15 | 0 | 16 | 0 | 0 | 16 | 6 | 11 | 4 | 0 | 21 | 0 | 9 | 2 | 0 | 11 | 7 | 3 | 0 | 0 | 10 | 58 |
| 07:20 | 0 | 15 | 0 | 0 | 15 | 1 | 9 | 1 | 0 | 11 | 0 | 9 | 4 | 0 | 13 | 7 | 3 | 0 | 0 | 10 | 49 |
| 07:25 | 0 | 9 | 1 | 0 | 10 | 5 | 11 | 1 | 0 | 17 | 0 | 7 | 4 | 0 | 11 | 8 | 2 | 0 | 0 | 10 | 48 |
| 07:30 | 0 | 20 | 0 | 0 | 20 | 1 | 8 | 1 | 0 | 10 | 0 | 4 | 2 | 0 | 6 | 7 | 4 | 1 | 0 | 12 | 48 |
| 07:35 | 0 | 9 | 1 | 0 | 10 | 3 | 7 | 2 | 0 | 12 | 0 | 5 | 3 | 0 | 8 | 9 | 1 | 0 | 0 | 10 | 40 |
| 07:40 | 0 | 13 | 3 | 0 | 16 | 3 | 9 | 0 | 0 | 12 | 0 | 5 | 5 | 0 | 10 | 9 | 2 | 0 | 0 | 11 | 49 |
| 07:45 | 0 | 18 | 0 | 0 | 18 | 1 | 7 | 1 | 0 | 9 | 0 | 3 | 2 | 0 | 5 | 5 | 1 | 1 | 0 | 7 | 39 |
| 07:50 | 0 | 13 | 1 | 0 | 14 | 0 | 12 | 0 | 0 | 12 | 0 | 3 | 1 | 0 | 4 | 4 | 2 | 0 | 0 | 6 | 36 |
| 07:55 | 1 | 11 | 1 | 0 | 13 | 2 | 13 | 1 | 0 | 16 | 1 | 5 | 5 | 0 | 11 | 3 | 2 | 0 | 0 | 5 | 45 |
| Total | 1 | 168 | 7 | 0 | 176 | 30 | 121 | 16 | 0 | 167 | 1 | 76 | 37 | 0 | 114 | 78 | 30 | 2 | 0 | 110 | 567 |
| | | | | | | | | | | | | | | | | | | | | | |
| 08:00 | 1 | 8 | 1 | 0 | 10 | 1 | 4 | 1 | 0 | 6 | 0 | 3 | 3 | 0 | 6 | 2 | 2 | 0 | 0 | 4 | 26 |
| 08:05 | 0 | 8 | 3 | 0 | 11 | 2 | 6 | 1 | 0 | 9 | 0 | 2 | 0 | 0 | 2 | 1 | 2 | 0 | 0 | 3 | 25 |
| 08:10 | 0 | 1 | 3 | 0 | 4 | 1 | 8 | 0 | 0 | 9 | 0 | 3 | 0 | 0 | 3 | 2 | 3 | 1 | 0 | 6 | 22 |
| 08:15 | 0 | 7 | 1 | 0 | 8 | 0 | 6 | 1 | 0 | 7 | 0 | 3 | 1 | 0 | 4 | 1 | 4 | 0 | 0 | 5 | 24 |
| 08:20 | 0 | 6 | 2 | 0 | 8 | 3 | 9 | 0 | 0 | 12 | 0 | 7 | 1 | 0 | 8 | 4 | 3 | 0 | 0 | 7 | 35 |
| 08:25 | 1 | 4 | 0 | 0 | 5 | 0 | 6 | 0 | 0 | 6 | 2 | 4 | 0 | 0 | 6 | 2 | 6 | 0 | 0 | 8 | 25 |
| Grand Total | 3 | 284 | 21 | 0 | 308 | 45 | 216 | 26 | 0 | 287 | 3 | 119 | 52 | 0 | 174 | 117 | 64 | 3 | 0 | 184 | 953 |
| Apprch % | 1 | 92.2 | 6.8 | 0 | | 15.7 | 75.3 | 9.1 | 0 | | 1.7 | 68.4 | 29.9 | 0 | | 63.6 | 34.8 | 1.6 | 0 | | |
| Total % | 0.3 | 29.8 | 2.2 | 0 | 32.3 | 4.7 | 22.7 | 2.7 | 0 | 30.1 | 0.3 | 12.5 | 5.5 | 0 | 18.3 | 12.3 | 6.7 | 0.3 | 0 | 19.3 | |

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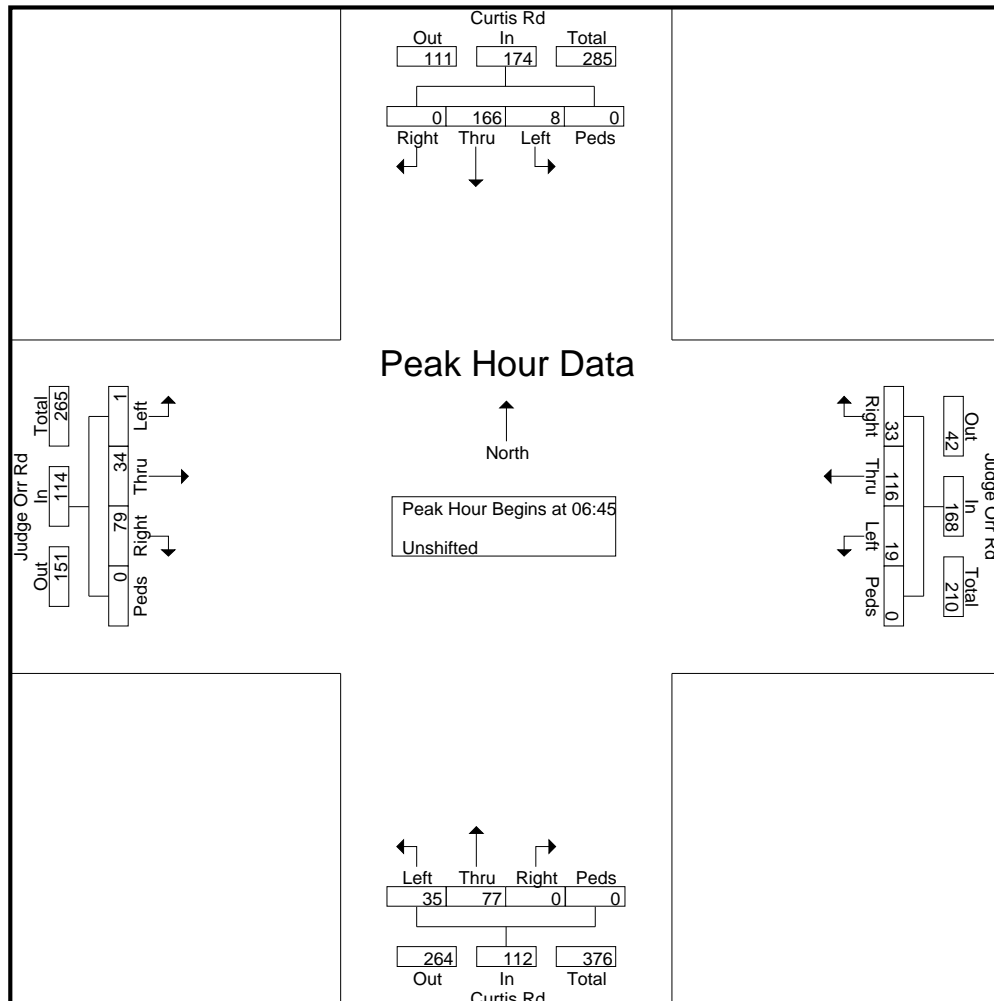
File Name : Curtis Rd - Judge Orr Rd AM

Site Code : S214950

Start Date : 4/21/2022

Page No : 2

| Start Time | Curtis Rd Southbound | | | | | Judge Orr Rd Westbound | | | | | Curtis Rd Northbound | | | | | Judge Orr Rd Eastbound | | | | | Int. Total |
|--|----------------------|------|------|------|------------|------------------------|------|------|------|------------|----------------------|------|------|------|------------|------------------------|------|------|------|------------|------------|
| | 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 for Entire Intersection Begins at 06:45 | | | | | | | | | | | | | | | | | | | | | |
| 06:45 | 0 | 12 | 1 | 0 | 13 | 2 | 12 | 1 | 0 | 15 | 0 | 5 | 3 | 0 | 8 | 5 | 1 | 0 | 0 | 6 | 42 |
| 06:50 | 0 | 14 | 0 | 0 | 14 | 4 | 6 | 0 | 0 | 10 | 0 | 5 | 1 | 0 | 6 | 4 | 5 | 0 | 0 | 9 | 39 |
| 06:55 | 0 | 14 | 2 | 0 | 16 | 0 | 9 | 4 | 0 | 13 | 0 | 2 | 2 | 0 | 4 | 4 | 3 | 0 | 0 | 7 | 40 |
| 07:00 | 0 | 13 | 0 | 0 | 13 | 1 | 9 | 2 | 0 | 12 | 0 | 11 | 2 | 0 | 13 | 4 | 4 | 0 | 0 | 8 | 46 |
| 07:05 | 0 | 13 | 0 | 0 | 13 | 5 | 16 | 2 | 0 | 23 | 0 | 6 | 3 | 0 | 9 | 6 | 3 | 0 | 0 | 9 | 54 |
| 07:10 | 0 | 18 | 0 | 0 | 18 | 2 | 9 | 1 | 0 | 12 | 0 | 9 | 4 | 0 | 13 | 9 | 3 | 0 | 0 | 12 | 55 |
| 07:15 | 0 | 16 | 0 | 0 | 16 | 6 | 11 | 4 | 0 | 21 | 0 | 9 | 2 | 0 | 11 | 7 | 3 | 0 | 0 | 10 | 58 |
| 07:20 | 0 | 15 | 0 | 0 | 15 | 1 | 9 | 1 | 0 | 11 | 0 | 9 | 4 | 0 | 13 | 7 | 3 | 0 | 0 | 10 | 49 |
| 07:25 | 0 | 9 | 1 | 0 | 10 | 5 | 11 | 1 | 0 | 17 | 0 | 7 | 4 | 0 | 11 | 8 | 2 | 0 | 0 | 10 | 48 |
| 07:30 | 0 | 20 | 0 | 0 | 20 | 1 | 8 | 1 | 0 | 10 | 0 | 4 | 2 | 0 | 6 | 7 | 4 | 1 | 0 | 12 | 48 |
| 07:35 | 0 | 9 | 1 | 0 | 10 | 3 | 7 | 2 | 0 | 12 | 0 | 5 | 3 | 0 | 8 | 9 | 1 | 0 | 0 | 10 | 40 |
| 07:40 | 0 | 13 | 3 | 0 | 16 | 3 | 9 | 0 | 0 | 12 | 0 | 5 | 5 | 0 | 10 | 9 | 2 | 0 | 0 | 11 | 49 |
| Total Volume | 0 | 166 | 8 | 0 | 174 | 33 | 116 | 19 | 0 | 168 | 0 | 77 | 35 | 0 | 112 | 79 | 34 | 1 | 0 | 114 | 568 |
| % App. Total | 0 | 95.4 | 4.6 | 0 | | 19.6 | 69 | 11.3 | 0 | | 0 | 68.8 | 31.2 | 0 | | 69.3 | 29.8 | 0.9 | 0 | | |
| PHF | .000 | .692 | .222 | .000 | .725 | .458 | .604 | .396 | .000 | .609 | .000 | .583 | .583 | .000 | .718 | .731 | .567 | .083 | .000 | .792 | .816 |

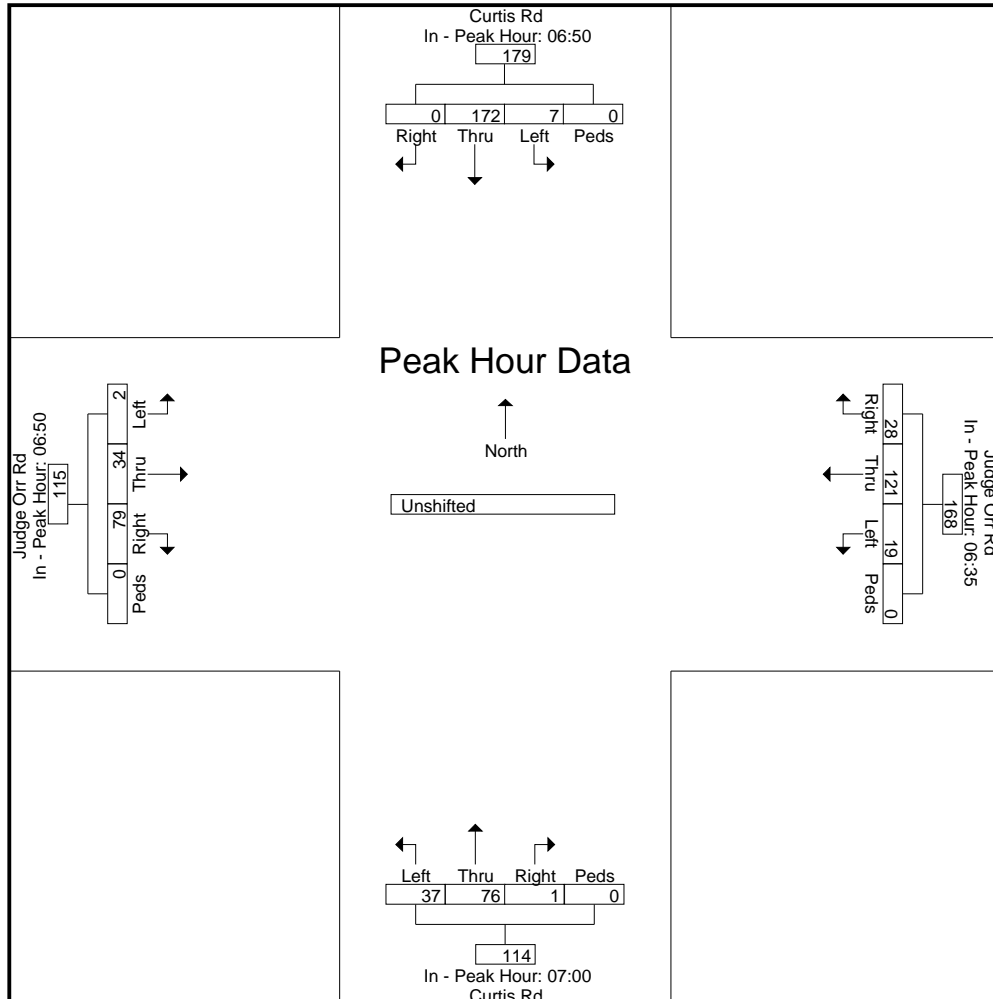


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File Name : Curtis Rd - Judge Orr Rd AM
 Site Code : S214950
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 Page No : 3

| Start Time | Curtis Rd Southbound | | | | | Judge Orr Rd Westbound | | | | | Curtis Rd Northbound | | | | | Judge Orr Rd Eastbound | | | | | Int. Total |
|--|----------------------|------|------|------|------------|------------------------|------|------|------|------------|----------------------|------|------|------|------------|------------------------|------|------|------|------------|------------|
| | 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 for Each Approach Begins at: | | | | | | | | | | | | | | | | | | | | | |
| | 06:50 | | | | | 06:35 | | | | | 07:00 | | | | | 06:50 | | | | | |
| +0 mins. | 0 | 14 | 0 | 0 | 14 | 1 | 10 | 1 | 0 | 12 | 0 | 11 | 2 | 0 | 13 | 4 | 5 | 0 | 0 | 9 | |
| +5 mins. | 0 | 14 | 2 | 0 | 16 | 0 | 11 | 1 | 0 | 12 | 0 | 6 | 3 | 0 | 9 | 4 | 3 | 0 | 0 | 7 | |
| +10 mins. | 0 | 13 | 0 | 0 | 13 | 2 | 12 | 1 | 0 | 15 | 0 | 9 | 4 | 0 | 13 | 4 | 4 | 0 | 0 | 8 | |
| +15 mins. | 0 | 13 | 0 | 0 | 13 | 4 | 6 | 0 | 0 | 10 | 0 | 9 | 2 | 0 | 11 | 6 | 3 | 0 | 0 | 9 | |
| +20 mins. | 0 | 18 | 0 | 0 | 18 | 0 | 9 | 4 | 0 | 13 | 0 | 9 | 4 | 0 | 13 | 9 | 3 | 0 | 0 | 12 | |
| +25 mins. | 0 | 16 | 0 | 0 | 16 | 1 | 9 | 2 | 0 | 12 | 0 | 7 | 4 | 0 | 11 | 7 | 3 | 0 | 0 | 10 | |
| +30 mins. | 0 | 15 | 0 | 0 | 15 | 5 | 16 | 2 | 0 | 23 | 0 | 4 | 2 | 0 | 6 | 7 | 3 | 0 | 0 | 10 | |
| +35 mins. | 0 | 9 | 1 | 0 | 10 | 2 | 9 | 1 | 0 | 12 | 0 | 5 | 3 | 0 | 8 | 8 | 2 | 0 | 0 | 10 | |
| +40 mins. | 0 | 20 | 0 | 0 | 20 | 6 | 11 | 4 | 0 | 21 | 0 | 5 | 5 | 0 | 10 | 7 | 4 | 1 | 0 | 12 | |
| +45 mins. | 0 | 9 | 1 | 0 | 10 | 1 | 9 | 1 | 0 | 11 | 0 | 3 | 2 | 0 | 5 | 9 | 1 | 0 | 0 | 10 | |
| +50 mins. | 0 | 13 | 3 | 0 | 16 | 5 | 11 | 1 | 0 | 17 | 0 | 3 | 1 | 0 | 4 | 9 | 2 | 0 | 0 | 11 | |
| +55 mins. | 0 | 18 | 0 | 0 | 18 | 1 | 8 | 1 | 0 | 10 | 1 | 5 | 5 | 0 | 11 | 5 | 1 | 1 | 0 | 7 | |
| Total Volume | 0 | 172 | 7 | 0 | 179 | 28 | 121 | 19 | 0 | 168 | 1 | 76 | 37 | 0 | 114 | 79 | 34 | 2 | 0 | 115 | |
| % App. Total | 0 | 96.1 | 3.9 | 0 | | 16.7 | 72 | 11.3 | 0 | | 0.9 | 66.7 | 32.5 | 0 | | 68.7 | 29.6 | 1.7 | 0 | | |
| PHF | .000 | .717 | .194 | .000 | .746 | .389 | .630 | .396 | .000 | .609 | .083 | .576 | .617 | .000 | .731 | .731 | .567 | .167 | .000 | .799 | |



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|--------------------|----------------------|------|------|------|------------|------------------------|------|------|------|------------|----------------------|------|------|------|------------|------------------------|------|------|------|------------|------------|
| | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | |
| 06:30 | 0 | 42 | 1 | 0 | 43 | 2 | 29 | 2 | 0 | 33 | 0 | 9 | 4 | 0 | 13 | 14 | 5 | 0 | 0 | 19 | 108 |
| 06:45 | 0 | 40 | 3 | 0 | 43 | 6 | 27 | 5 | 0 | 38 | 0 | 12 | 6 | 0 | 18 | 13 | 9 | 0 | 0 | 22 | 121 |
| Total | 0 | 82 | 4 | 0 | 86 | 8 | 56 | 7 | 0 | 71 | 0 | 21 | 10 | 0 | 31 | 27 | 14 | 0 | 0 | 41 | 229 |
| 07:00 | 0 | 44 | 0 | 0 | 44 | 8 | 34 | 5 | 0 | 47 | 0 | 26 | 9 | 0 | 35 | 19 | 10 | 0 | 0 | 29 | 155 |
| 07:15 | 0 | 40 | 1 | 0 | 41 | 12 | 31 | 6 | 0 | 49 | 0 | 25 | 10 | 0 | 35 | 22 | 8 | 0 | 0 | 30 | 155 |
| 07:30 | 0 | 42 | 4 | 0 | 46 | 7 | 24 | 3 | 0 | 34 | 0 | 14 | 10 | 0 | 24 | 25 | 7 | 1 | 0 | 33 | 137 |
| 07:45 | 1 | 42 | 2 | 0 | 45 | 3 | 32 | 2 | 0 | 37 | 1 | 11 | 8 | 0 | 20 | 12 | 5 | 1 | 0 | 18 | 120 |
| Total | 1 | 168 | 7 | 0 | 176 | 30 | 121 | 16 | 0 | 167 | 1 | 76 | 37 | 0 | 114 | 78 | 30 | 2 | 0 | 110 | 567 |
| 08:00 | 1 | 17 | 7 | 0 | 25 | 4 | 18 | 2 | 0 | 24 | 0 | 8 | 3 | 0 | 11 | 5 | 7 | 1 | 0 | 13 | 73 |
| 08:15 | 1 | 17 | 3 | 0 | 21 | 3 | 21 | 1 | 0 | 25 | 2 | 14 | 2 | 0 | 18 | 7 | 13 | 0 | 0 | 20 | 84 |
| Grand Total | 3 | 284 | 21 | 0 | 308 | 45 | 216 | 26 | 0 | 287 | 3 | 119 | 52 | 0 | 174 | 117 | 64 | 3 | 0 | 184 | 953 |
| Apprch % | 1 | 92.2 | 6.8 | 0 | | 15.7 | 75.3 | 9.1 | 0 | | 1.7 | 68.4 | 29.9 | 0 | | 63.6 | 34.8 | 1.6 | 0 | | |
| Total % | 0.3 | 29.8 | 2.2 | 0 | 32.3 | 4.7 | 22.7 | 2.7 | 0 | 30.1 | 0.3 | 12.5 | 5.5 | 0 | 18.3 | 12.3 | 6.7 | 0.3 | 0 | 19.3 | |

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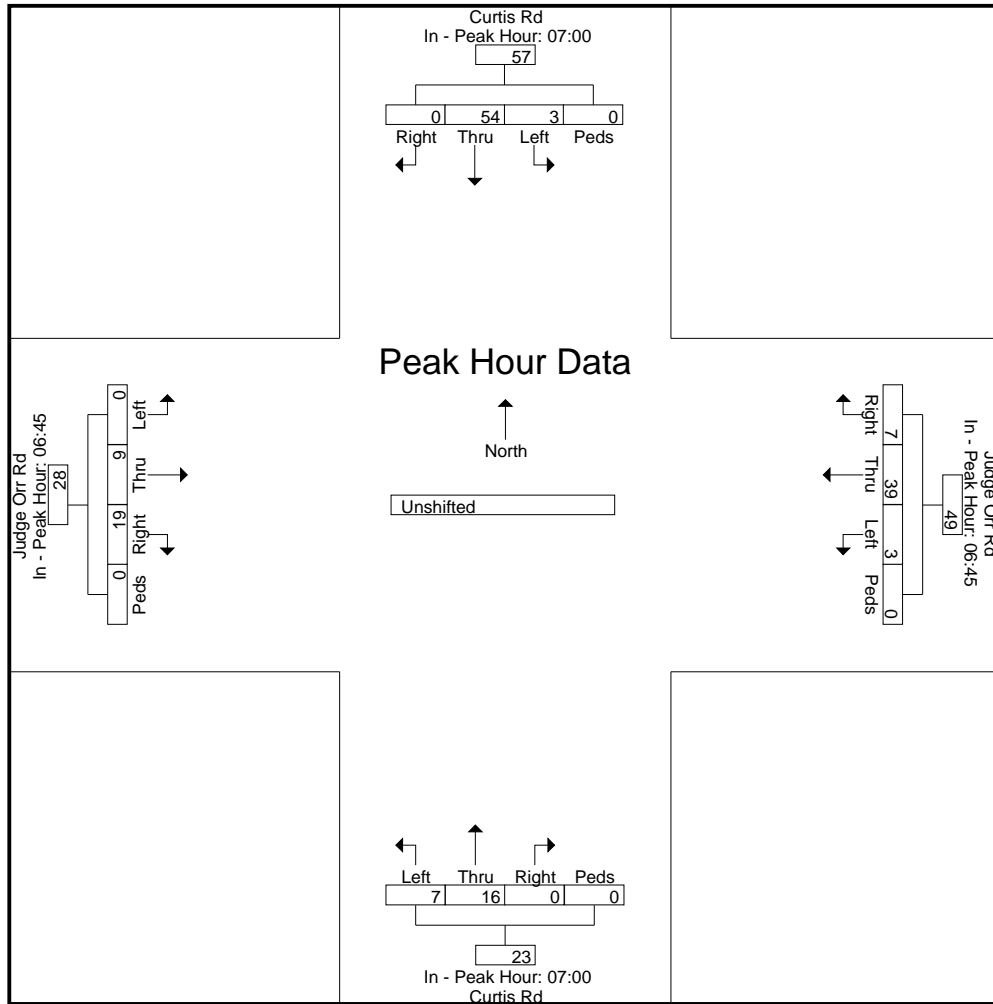
| Start Time | Curtis Rd Southbound | | | | | Judge Orr Rd Westbound | | | | | Curtis Rd Northbound | | | | | Judge Orr Rd Eastbound | | | | | Int. Total |
|--|----------------------|-----------|----------|------|------------|------------------------|-----------|----------|------|------------|----------------------|-----------|-----------|------|------------|------------------------|-----------|----------|------|------------|------------|
| | 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 6:30:00 AM to 8:15:00 AM - Peak 1 of 1 | | | | | | | | | | | | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 6:45:00 AM | | | | | | | | | | | | | | | | | | | | | |
| 6:45:00 AM | 0 | 40 | 3 | 0 | 43 | 6 | 27 | 5 | 0 | 38 | 0 | 12 | 6 | 0 | 18 | 13 | 9 | 0 | 0 | 22 | 121 |
| 7:00:00 AM | 0 | 44 | 0 | 0 | 44 | 8 | 34 | 5 | 0 | 47 | 0 | 26 | 9 | 0 | 35 | 19 | 10 | 0 | 0 | 29 | 155 |
| 7:15:00 AM | 0 | 40 | 1 | 0 | 41 | 12 | 31 | 6 | 0 | 49 | 0 | 25 | 10 | 0 | 35 | 22 | 8 | 0 | 0 | 30 | 155 |
| 7:30:00 AM | 0 | 42 | 4 | 0 | 46 | 7 | 24 | 3 | 0 | 34 | 0 | 14 | 10 | 0 | 24 | 25 | 7 | 1 | 0 | 33 | 137 |
| Total Volume | 0 | 166 | 8 | 0 | 174 | 33 | 116 | 19 | 0 | 168 | 0 | 77 | 35 | 0 | 112 | 79 | 34 | 1 | 0 | 114 | 568 |
| % App. Total | 0 | 95.4 | 4.6 | 0 | | 19.6 | 69 | 11.3 | 0 | | 0 | 68.8 | 31.2 | 0 | | 69.3 | 29.8 | 0.9 | 0 | | |
| PHF | .000 | .943 | .500 | .000 | .946 | .688 | .853 | .792 | .000 | .857 | .000 | .740 | .875 | .000 | .800 | .790 | .850 | .250 | .000 | .864 | .916 |

LSC Transportation Consultants, Inc.

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

File Name : Curtis Rd - Judge Orr Rd AM
 Site Code : S214950
 Start Date : 4/21/2022
 Page No : 3

| Start Time | Curtis Rd Southbound | | | | | Judge Orr Rd Westbound | | | | | Curtis Rd Northbound | | | | | Judge Orr Rd Eastbound | | | | | Int. Total |
|--|----------------------|------|------|------|------------|------------------------|------|------|------|------------|----------------------|------|------|------|------------|------------------------|------|------|------|------------|------------|
| | 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 6:30:00 AM to 8:15:00 AM - Peak 1 of 1 | | | | | | | | | | | | | | | | | | | | | |
| Peak Hour for Each Approach Begins at: | | | | | | | | | | | | | | | | | | | | | |
| | 7:00:00 AM | | | | | 6:45:00 AM | | | | | 7:00:00 AM | | | | | 6:45:00 AM | | | | | |
| +0 mins. | 0 | 44 | 0 | 0 | 44 | 6 | 27 | 5 | 0 | 38 | 0 | 26 | 9 | 0 | 35 | 13 | 9 | 0 | 0 | 22 | |
| +5 mins. | 0 | 40 | 1 | 0 | 41 | 8 | 34 | 5 | 0 | 47 | 0 | 25 | 10 | 0 | 35 | 19 | 10 | 0 | 0 | 29 | |
| +10 mins. | 0 | 42 | 4 | 0 | 46 | 12 | 31 | 6 | 0 | 49 | 0 | 14 | 10 | 0 | 24 | 22 | 8 | 0 | 0 | 30 | |
| +15 mins. | 1 | 42 | 2 | 0 | 45 | 7 | 24 | 3 | 0 | 34 | 1 | 11 | 8 | 0 | 20 | 25 | 7 | 1 | 0 | 33 | |
| Total Volume | 1 | 168 | 7 | 0 | 176 | 33 | 116 | 19 | 0 | 168 | 1 | 76 | 37 | 0 | 114 | 79 | 34 | 1 | 0 | 114 | |
| % App. Total | 0.6 | 95.5 | 4 | 0 | | 19.6 | 69 | 11.3 | 0 | | 0.9 | 66.7 | 32.5 | 0 | | 69.3 | 29.8 | 0.9 | 0 | | |
| PHF | .250 | .955 | .438 | .000 | .957 | .688 | .853 | .792 | .000 | .857 | .250 | .731 | .925 | .000 | .814 | .790 | .850 | .250 | .000 | .864 | |



LSC Transportation Consultants, Inc.

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

File Name : Curtis Rd - Judge Orr Rd PM

Site Code : S214950

Start Date : 4/21/2022

Page No : 1

Groups Printed- Unshifted

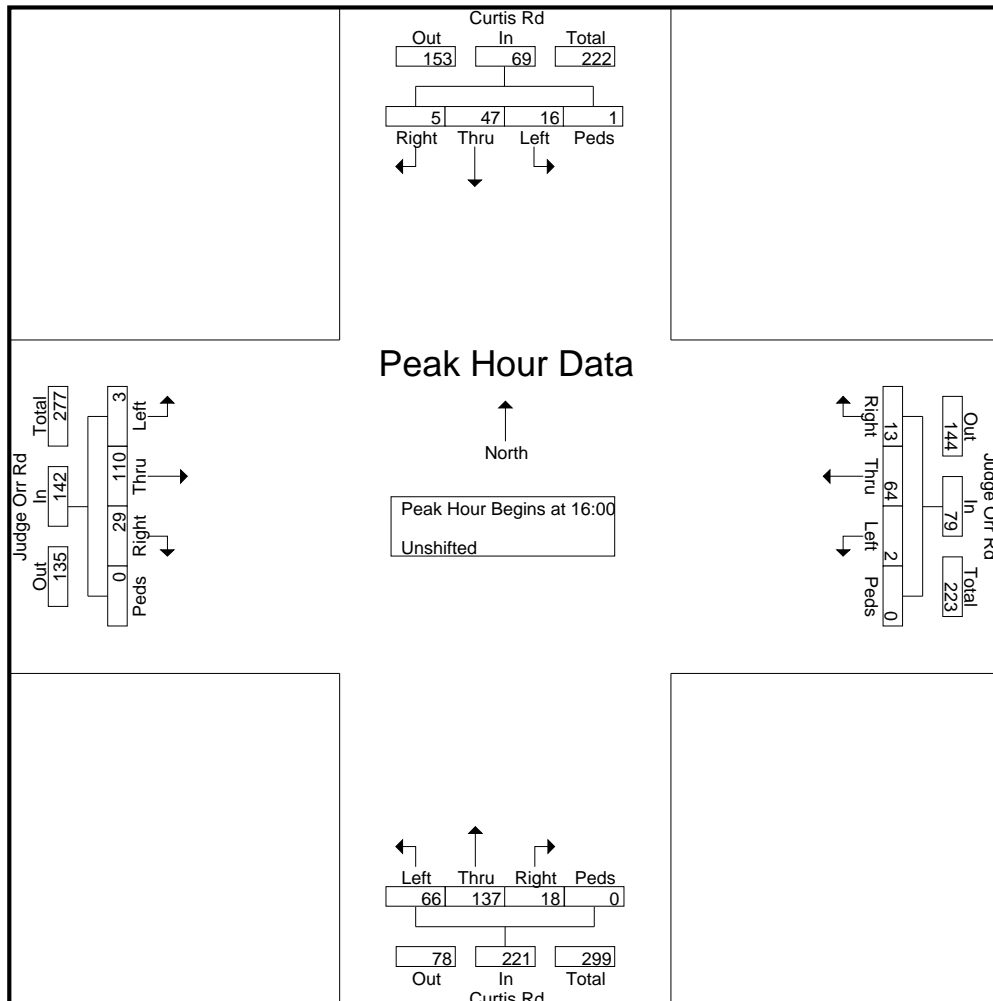
| Start Time | Curtis Rd Southbound | | | | | Judge Orr Rd Westbound | | | | | Curtis Rd Northbound | | | | | Judge Orr Rd Eastbound | | | | | Int. Total |
|--------------------|----------------------|-------------|------------|------------|-------------|------------------------|-------------|------------|----------|-------------|----------------------|-------------|-------------|----------|-------------|------------------------|-------------|------------|----------|------------|------------|
| | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | |
| 16:00 | 1 | 4 | 1 | 0 | 6 | 0 | 7 | 0 | 0 | 7 | 0 | 11 | 4 | 0 | 15 | 3 | 10 | 0 | 0 | 13 | 41 |
| 16:05 | 1 | 5 | 2 | 1 | 9 | 1 | 8 | 0 | 0 | 9 | 0 | 12 | 8 | 0 | 20 | 2 | 9 | 0 | 0 | 11 | 49 |
| 16:10 | 0 | 3 | 1 | 0 | 4 | 0 | 10 | 1 | 0 | 11 | 2 | 10 | 3 | 0 | 15 | 4 | 12 | 0 | 0 | 16 | 46 |
| 16:15 | 0 | 4 | 1 | 0 | 5 | 1 | 3 | 1 | 0 | 5 | 1 | 11 | 3 | 0 | 15 | 3 | 8 | 0 | 0 | 11 | 36 |
| 16:20 | 1 | 5 | 0 | 0 | 6 | 1 | 5 | 0 | 0 | 6 | 3 | 11 | 9 | 0 | 23 | 3 | 10 | 0 | 0 | 13 | 48 |
| 16:25 | 0 | 1 | 1 | 0 | 2 | 2 | 5 | 0 | 0 | 7 | 0 | 16 | 6 | 0 | 22 | 3 | 3 | 0 | 0 | 6 | 37 |
| 16:30 | 0 | 4 | 2 | 0 | 6 | 2 | 6 | 0 | 0 | 8 | 1 | 9 | 5 | 0 | 15 | 1 | 16 | 1 | 0 | 18 | 47 |
| 16:35 | 0 | 1 | 1 | 0 | 2 | 1 | 3 | 0 | 0 | 4 | 1 | 13 | 3 | 0 | 17 | 4 | 9 | 1 | 0 | 14 | 37 |
| 16:40 | 0 | 6 | 2 | 0 | 8 | 2 | 2 | 0 | 0 | 4 | 3 | 8 | 5 | 0 | 16 | 2 | 5 | 0 | 0 | 7 | 35 |
| 16:45 | 0 | 7 | 1 | 0 | 8 | 1 | 3 | 0 | 0 | 4 | 3 | 9 | 5 | 0 | 17 | 1 | 7 | 0 | 0 | 8 | 37 |
| 16:50 | 1 | 4 | 3 | 0 | 8 | 2 | 7 | 0 | 0 | 9 | 1 | 15 | 10 | 0 | 26 | 2 | 14 | 1 | 0 | 17 | 60 |
| 16:55 | 1 | 3 | 1 | 0 | 5 | 0 | 5 | 0 | 0 | 5 | 3 | 12 | 5 | 0 | 20 | 1 | 7 | 0 | 0 | 8 | 38 |
| Total | 5 | 47 | 16 | 1 | 69 | 13 | 64 | 2 | 0 | 79 | 18 | 137 | 66 | 0 | 221 | 29 | 110 | 3 | 0 | 142 | 511 |
| 17:00 | 0 | 3 | 2 | 0 | 5 | 0 | 4 | 0 | 0 | 4 | 2 | 9 | 3 | 0 | 14 | 4 | 11 | 0 | 0 | 15 | 38 |
| 17:05 | 0 | 2 | 1 | 0 | 3 | 4 | 4 | 0 | 0 | 8 | 3 | 21 | 3 | 0 | 27 | 0 | 5 | 0 | 0 | 5 | 43 |
| 17:10 | 0 | 4 | 1 | 0 | 5 | 0 | 2 | 0 | 0 | 2 | 1 | 11 | 5 | 0 | 17 | 1 | 16 | 1 | 0 | 18 | 42 |
| 17:15 | 1 | 7 | 0 | 0 | 8 | 0 | 4 | 0 | 0 | 4 | 1 | 8 | 3 | 0 | 12 | 2 | 8 | 0 | 0 | 10 | 34 |
| 17:20 | 0 | 6 | 2 | 0 | 8 | 2 | 5 | 0 | 0 | 7 | 1 | 9 | 3 | 0 | 13 | 3 | 8 | 1 | 0 | 12 | 40 |
| 17:25 | 0 | 2 | 0 | 0 | 2 | 1 | 6 | 0 | 0 | 7 | 0 | 6 | 5 | 0 | 11 | 3 | 6 | 0 | 0 | 9 | 29 |
| 17:30 | 0 | 1 | 2 | 0 | 3 | 2 | 3 | 0 | 0 | 5 | 0 | 7 | 1 | 0 | 8 | 3 | 15 | 0 | 0 | 18 | 34 |
| 17:35 | 0 | 5 | 4 | 0 | 9 | 1 | 3 | 0 | 0 | 4 | 0 | 7 | 2 | 0 | 9 | 3 | 7 | 0 | 0 | 10 | 32 |
| 17:40 | 1 | 4 | 3 | 0 | 8 | 2 | 5 | 0 | 0 | 7 | 2 | 3 | 3 | 0 | 8 | 0 | 14 | 0 | 0 | 14 | 37 |
| 17:45 | 1 | 4 | 5 | 0 | 10 | 0 | 9 | 0 | 0 | 9 | 0 | 7 | 2 | 0 | 9 | 3 | 12 | 0 | 0 | 15 | 43 |
| 17:50 | 0 | 6 | 2 | 0 | 8 | 0 | 7 | 1 | 0 | 8 | 0 | 3 | 2 | 0 | 5 | 0 | 4 | 1 | 0 | 5 | 26 |
| 17:55 | 0 | 3 | 2 | 0 | 5 | 0 | 3 | 0 | 0 | 3 | 1 | 8 | 0 | 0 | 9 | 0 | 7 | 0 | 0 | 7 | 24 |
| Total | 3 | 47 | 24 | 0 | 74 | 12 | 55 | 1 | 0 | 68 | 11 | 99 | 32 | 0 | 142 | 22 | 113 | 3 | 0 | 138 | 422 |
| Grand Total | 8 | 94 | 40 | 1 | 143 | 25 | 119 | 3 | 0 | 147 | 29 | 236 | 98 | 0 | 363 | 51 | 223 | 6 | 0 | 280 | 933 |
| Apprch % | 5.6 | 65.7 | 28 | 0.7 | | 17 | 81 | 2 | 0 | | 8 | 65 | 27 | 0 | | 18.2 | 79.6 | 2.1 | 0 | | |
| Total % | 0.9 | 10.1 | 4.3 | 0.1 | 15.3 | 2.7 | 12.8 | 0.3 | 0 | 15.8 | 3.1 | 25.3 | 10.5 | 0 | 38.9 | 5.5 | 23.9 | 0.6 | 0 | 30 | |

LSC Transportation Consultants, Inc.

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

File Name : Curtis Rd - Judge Orr Rd PM
 Site Code : S214950
 Start Date : 4/21/2022
 Page No : 2

| Start Time | Curtis Rd Southbound | | | | | Judge Orr Rd Westbound | | | | | Curtis Rd Northbound | | | | | Judge Orr Rd Eastbound | | | | | Int. Total |
|--|----------------------|------|------|------|------------|------------------------|------|------|------|------------|----------------------|------|------|------|------------|------------------------|------|------|------|------------|------------|
| | 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 16:00 to 17:55 - Peak 1 of 1 | | | | | | | | | | | | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 16:00 | | | | | | | | | | | | | | | | | | | | | |
| 16:00 | 1 | 4 | 1 | 0 | 6 | 0 | 7 | 0 | 0 | 7 | 0 | 11 | 4 | 0 | 15 | 3 | 10 | 0 | 0 | 13 | 41 |
| 16:05 | 1 | 5 | 2 | 1 | 9 | 1 | 8 | 0 | 0 | 9 | 0 | 12 | 8 | 0 | 20 | 2 | 9 | 0 | 0 | 11 | 49 |
| 16:10 | 0 | 3 | 1 | 0 | 4 | 0 | 10 | 1 | 0 | 11 | 2 | 10 | 3 | 0 | 15 | 4 | 12 | 0 | 0 | 16 | 46 |
| 16:15 | 0 | 4 | 1 | 0 | 5 | 1 | 3 | 1 | 0 | 5 | 1 | 11 | 3 | 0 | 15 | 3 | 8 | 0 | 0 | 11 | 36 |
| 16:20 | 1 | 5 | 0 | 0 | 6 | 1 | 5 | 0 | 0 | 6 | 3 | 11 | 9 | 0 | 23 | 3 | 10 | 0 | 0 | 13 | 48 |
| 16:25 | 0 | 1 | 1 | 0 | 2 | 2 | 5 | 0 | 0 | 7 | 0 | 16 | 6 | 0 | 22 | 3 | 3 | 0 | 0 | 6 | 37 |
| 16:30 | 0 | 4 | 2 | 0 | 6 | 2 | 6 | 0 | 0 | 8 | 1 | 9 | 5 | 0 | 15 | 1 | 16 | 1 | 0 | 18 | 47 |
| 16:35 | 0 | 1 | 1 | 0 | 2 | 1 | 3 | 0 | 0 | 4 | 1 | 13 | 3 | 0 | 17 | 4 | 9 | 1 | 0 | 14 | 37 |
| 16:40 | 0 | 6 | 2 | 0 | 8 | 2 | 2 | 0 | 0 | 4 | 3 | 8 | 5 | 0 | 16 | 2 | 5 | 0 | 0 | 7 | 35 |
| 16:45 | 0 | 7 | 1 | 0 | 8 | 1 | 3 | 0 | 0 | 4 | 3 | 9 | 5 | 0 | 17 | 1 | 7 | 0 | 0 | 8 | 37 |
| 16:50 | 1 | 4 | 3 | 0 | 8 | 2 | 7 | 0 | 0 | 9 | 1 | 15 | 10 | 0 | 26 | 2 | 14 | 1 | 0 | 17 | 60 |
| 16:55 | 1 | 3 | 1 | 0 | 5 | 0 | 5 | 0 | 0 | 5 | 3 | 12 | 5 | 0 | 20 | 1 | 7 | 0 | 0 | 8 | 38 |
| Total Volume | 5 | 47 | 16 | 1 | 69 | 13 | 64 | 2 | 0 | 79 | 18 | 137 | 66 | 0 | 221 | 29 | 110 | 3 | 0 | 142 | 511 |
| % App. Total | 7.2 | 68.1 | 23.2 | 1.4 | | 16.5 | 81 | 2.5 | 0 | | 8.1 | 62 | 29.9 | 0 | | 20.4 | 77.5 | 2.1 | 0 | | |
| PHF | .417 | .560 | .444 | .083 | .639 | .542 | .533 | .167 | .000 | .598 | .500 | .714 | .550 | .000 | .708 | .604 | .573 | .250 | .000 | .657 | .710 |

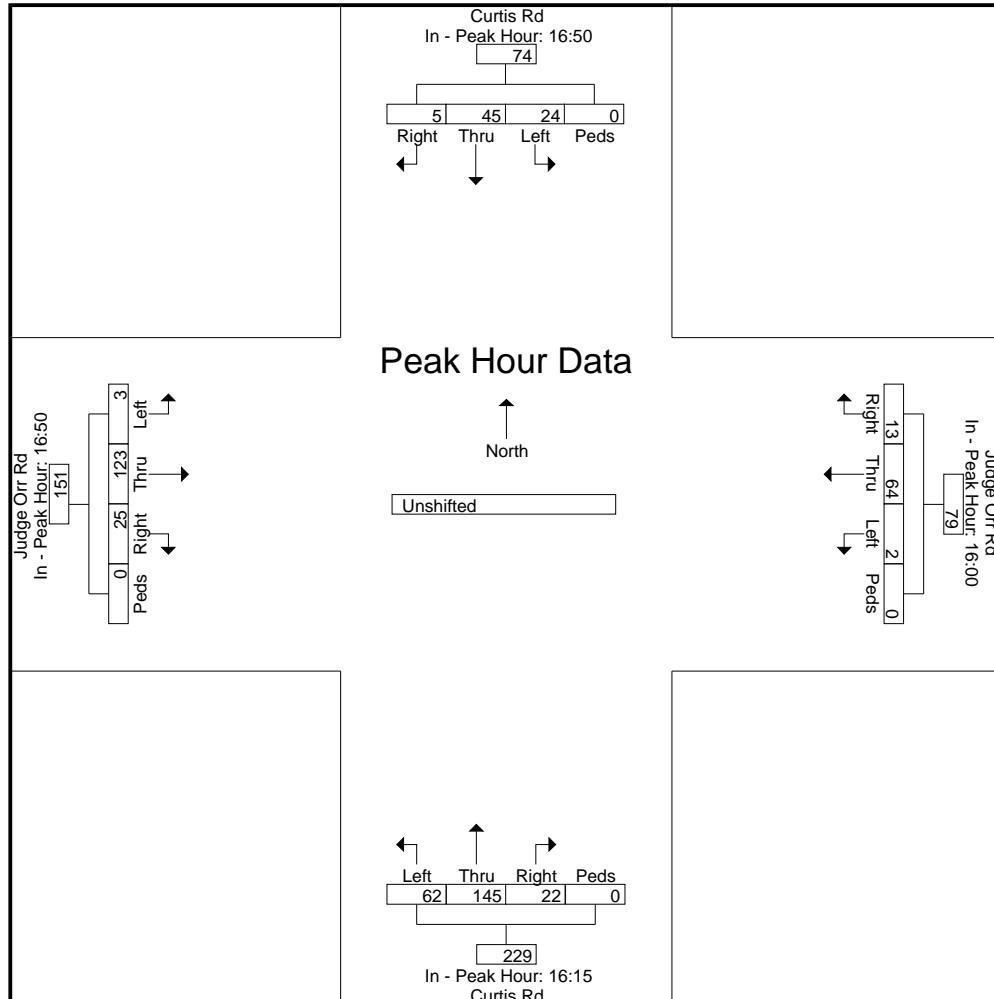


LSC Transportation Consultants, Inc.

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

File Name : Curtis Rd - Judge Orr Rd PM
 Site Code : S214950
 Start Date : 4/21/2022
 Page No : 3

| Start Time | Curtis Rd Southbound | | | | | Judge Orr Rd Westbound | | | | | Curtis Rd Northbound | | | | | Judge Orr Rd Eastbound | | | | | Int. Total |
|--|----------------------|------|------|------|------------|------------------------|------|------|------|------------|----------------------|------|------|------|------------|------------------------|------|------|------|------------|------------|
| | 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 16:00 to 17:55 - Peak 1 of 1 | | | | | | | | | | | | | | | | | | | | | |
| Peak Hour for Each Approach Begins at: | | | | | | | | | | | | | | | | | | | | | |
| | 16:50 | | | | | 16:00 | | | | | 16:15 | | | | | 16:50 | | | | | |
| +0 mins. | 1 | 4 | 3 | 0 | 8 | 0 | 7 | 0 | 0 | 7 | 1 | 11 | 3 | 0 | 15 | 2 | 14 | 1 | 0 | 17 | |
| +5 mins. | 1 | 3 | 1 | 0 | 5 | 1 | 8 | 0 | 0 | 9 | 3 | 11 | 9 | 0 | 23 | 1 | 7 | 0 | 0 | 8 | |
| +10 mins. | 0 | 3 | 2 | 0 | 5 | 0 | 10 | 1 | 0 | 11 | 0 | 16 | 6 | 0 | 22 | 4 | 11 | 0 | 0 | 15 | |
| +15 mins. | 0 | 2 | 1 | 0 | 3 | 1 | 3 | 1 | 0 | 5 | 1 | 9 | 5 | 0 | 15 | 0 | 5 | 0 | 0 | 5 | |
| +20 mins. | 0 | 4 | 1 | 0 | 5 | 1 | 5 | 0 | 0 | 6 | 1 | 13 | 3 | 0 | 17 | 1 | 16 | 1 | 0 | 18 | |
| +25 mins. | 1 | 7 | 0 | 0 | 8 | 2 | 5 | 0 | 0 | 7 | 3 | 8 | 5 | 0 | 16 | 2 | 8 | 0 | 0 | 10 | |
| +30 mins. | 0 | 6 | 2 | 0 | 8 | 2 | 6 | 0 | 0 | 8 | 3 | 9 | 5 | 0 | 17 | 3 | 8 | 1 | 0 | 12 | |
| +35 mins. | 0 | 2 | 0 | 0 | 2 | 1 | 3 | 0 | 0 | 4 | 1 | 15 | 10 | 0 | 26 | 3 | 6 | 0 | 0 | 9 | |
| +40 mins. | 0 | 1 | 2 | 0 | 3 | 2 | 2 | 0 | 0 | 4 | 3 | 12 | 5 | 0 | 20 | 3 | 15 | 0 | 0 | 18 | |
| +45 mins. | 0 | 5 | 4 | 0 | 9 | 1 | 3 | 0 | 0 | 4 | 2 | 9 | 3 | 0 | 14 | 3 | 7 | 0 | 0 | 10 | |
| +50 mins. | 1 | 4 | 3 | 0 | 8 | 2 | 7 | 0 | 0 | 9 | 3 | 21 | 3 | 0 | 27 | 0 | 14 | 0 | 0 | 14 | |
| +55 mins. | 1 | 4 | 5 | 0 | 10 | 0 | 5 | 0 | 0 | 5 | 1 | 11 | 5 | 0 | 17 | 3 | 12 | 0 | 0 | 15 | |
| Total Volume | 5 | 45 | 24 | 0 | 74 | 13 | 64 | 2 | 0 | 79 | 22 | 145 | 62 | 0 | 229 | 25 | 123 | 3 | 0 | 151 | |
| % App. Total | 6.8 | 60.8 | 32.4 | 0 | | 16.5 | 81 | 2.5 | 0 | | 9.6 | 63.3 | 27.1 | 0 | | 16.6 | 81.5 | 2 | 0 | | |
| PHF | .417 | .536 | .400 | .000 | .617 | .542 | .533 | .167 | .000 | .598 | .611 | .575 | .517 | .000 | .707 | .521 | .641 | .250 | .000 | .699 | |



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

File Name : Curtis Rd - Judge Orr Rd PM

Site Code : S214950

Start Date : 4/21/2022

Page No : 1

Groups Printed- Unshifted

| Start Time | Curtis Rd Southbound | | | | | Judge Orr Rd Westbound | | | | | Curtis Rd Northbound | | | | | Judge Orr Rd Eastbound | | | | | Int. Total |
|-------------|----------------------|------|------|------|------------|------------------------|------|------|------|------------|----------------------|------|------|------|------------|------------------------|------|------|------|------------|------------|
| | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | |
| 16:00 | 2 | 12 | 4 | 1 | 19 | 1 | 25 | 1 | 0 | 27 | 2 | 33 | 15 | 0 | 50 | 9 | 31 | 0 | 0 | 40 | 136 |
| 16:15 | 1 | 10 | 2 | 0 | 13 | 4 | 13 | 1 | 0 | 18 | 4 | 38 | 18 | 0 | 60 | 9 | 21 | 0 | 0 | 30 | 121 |
| 16:30 | 0 | 11 | 5 | 0 | 16 | 5 | 11 | 0 | 0 | 16 | 5 | 30 | 13 | 0 | 48 | 7 | 30 | 2 | 0 | 39 | 119 |
| 16:45 | 2 | 14 | 5 | 0 | 21 | 3 | 15 | 0 | 0 | 18 | 7 | 36 | 20 | 0 | 63 | 4 | 28 | 1 | 0 | 33 | 135 |
| Total | 5 | 47 | 16 | 1 | 69 | 13 | 64 | 2 | 0 | 79 | 18 | 137 | 66 | 0 | 221 | 29 | 110 | 3 | 0 | 142 | 511 |
| 17:00 | 0 | 9 | 4 | 0 | 13 | 4 | 10 | 0 | 0 | 14 | 6 | 41 | 11 | 0 | 58 | 5 | 32 | 1 | 0 | 38 | 123 |
| 17:15 | 1 | 15 | 2 | 0 | 18 | 3 | 15 | 0 | 0 | 18 | 2 | 23 | 11 | 0 | 36 | 8 | 22 | 1 | 0 | 31 | 103 |
| 17:30 | 1 | 10 | 9 | 0 | 20 | 5 | 11 | 0 | 0 | 16 | 2 | 17 | 6 | 0 | 25 | 6 | 36 | 0 | 0 | 42 | 103 |
| 17:45 | 1 | 13 | 9 | 0 | 23 | 0 | 19 | 1 | 0 | 20 | 1 | 18 | 4 | 0 | 23 | 3 | 23 | 1 | 0 | 27 | 93 |
| Total | 3 | 47 | 24 | 0 | 74 | 12 | 55 | 1 | 0 | 68 | 11 | 99 | 32 | 0 | 142 | 22 | 113 | 3 | 0 | 138 | 422 |
| Grand Total | 8 | 94 | 40 | 1 | 143 | 25 | 119 | 3 | 0 | 147 | 29 | 236 | 98 | 0 | 363 | 51 | 223 | 6 | 0 | 280 | 933 |
| Apprch % | 5.6 | 65.7 | 28 | 0.7 | | 17 | 81 | 2 | 0 | | 8 | 65 | 27 | 0 | | 18.2 | 79.6 | 2.1 | 0 | | |
| Total % | 0.9 | 10.1 | 4.3 | 0.1 | 15.3 | 2.7 | 12.8 | 0.3 | 0 | 15.8 | 3.1 | 25.3 | 10.5 | 0 | 38.9 | 5.5 | 23.9 | 0.6 | 0 | 30 | |

LSC Transportation Consultants, Inc.

2504 E. Pikes Peak Ave, Suite 304
 Colorado Springs, CO 80909
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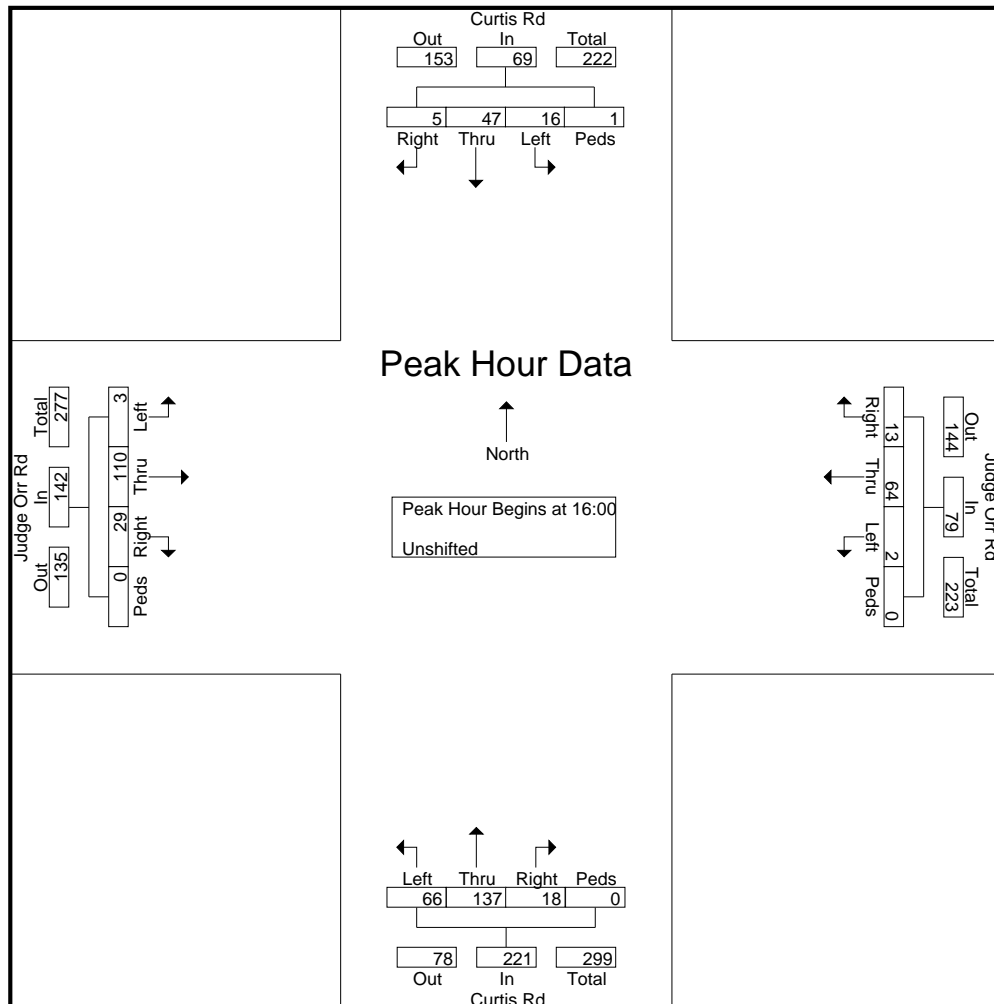
File Name : Curtis Rd - Judge Orr Rd PM

Site Code : S214950

Start Date : 4/21/2022

Page No : 2

| Start Time | Curtis Rd Southbound | | | | | Judge Orr Rd Westbound | | | | | Curtis Rd Northbound | | | | | Judge Orr Rd Eastbound | | | | | Int. Total |
|--|----------------------|------|------|------|------------|------------------------|------|------|------|------------|----------------------|------|------|------|------------|------------------------|------|------|------|------------|------------|
| | 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 4:00:00 PM to 5:45:00 PM - Peak 1 of 1 | | | | | | | | | | | | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 4:00:00 PM | | | | | | | | | | | | | | | | | | | | | |
| 4:00:00 PM | 2 | 12 | 4 | 1 | 19 | 1 | 25 | 1 | 0 | 27 | 2 | 33 | 15 | 0 | 50 | 9 | 31 | 0 | 0 | 40 | 136 |
| 4:15:00 PM | 1 | 10 | 2 | 0 | 13 | 4 | 13 | 1 | 0 | 18 | 4 | 38 | 18 | 0 | 60 | 9 | 21 | 0 | 0 | 30 | 121 |
| 4:30:00 PM | 0 | 11 | 5 | 0 | 16 | 5 | 11 | 0 | 0 | 16 | 5 | 30 | 13 | 0 | 48 | 7 | 30 | 2 | 0 | 39 | 119 |
| 4:45:00 PM | 2 | 14 | 5 | 0 | 21 | 3 | 15 | 0 | 0 | 18 | 7 | 36 | 20 | 0 | 63 | 4 | 28 | 1 | 0 | 33 | 135 |
| Total Volume | 5 | 47 | 16 | 1 | 69 | 13 | 64 | 2 | 0 | 79 | 18 | 137 | 66 | 0 | 221 | 29 | 110 | 3 | 0 | 142 | 511 |
| % App. Total | 7.2 | 68.1 | 23.2 | 1.4 | | 16.5 | 81 | 2.5 | 0 | | 8.1 | 62 | 29.9 | 0 | | 20.4 | 77.5 | 2.1 | 0 | | |
| PHF | .625 | .839 | .800 | .250 | .821 | .650 | .640 | .500 | .000 | .731 | .643 | .901 | .825 | .000 | .877 | .806 | .887 | .375 | .000 | .888 | .939 |



LSC Transportation Consultants, Inc.

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

File Name : Curtis Rd - Judge Orr Rd PM

Site Code : S214950

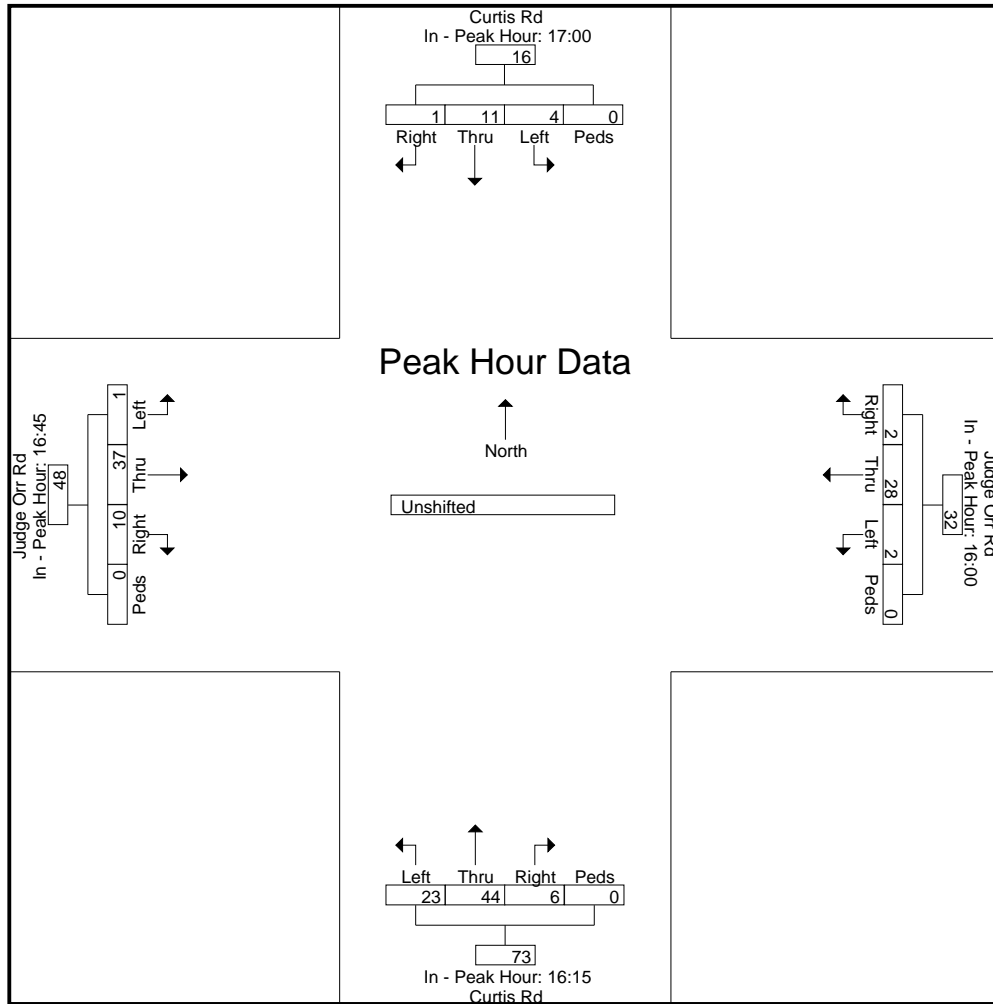
Start Date : 4/21/2022

Page No : 3

| Start Time | Curtis Rd Southbound | | | | | Judge Orr Rd Westbound | | | | | Curtis Rd Northbound | | | | | Judge Orr Rd Eastbound | | | | | Int. Total |
|------------|----------------------|------|------|------|------------|------------------------|------|------|------|------------|----------------------|------|------|------|------------|------------------------|------|------|------|------------|------------|
| | 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 4:00:00 PM to 5:45:00 PM - Peak 1 of 1
 Peak Hour for Each Approach Begins at:

| | 5:00:00 PM | | | | | 4:00:00 PM | | | | | 4:15:00 PM | | | | | 4:45:00 PM | | | | |
|--------------|------------|------|------|------|------|------------|------|------|------|------|------------|------|------|------|------|------------|------|------|------|------|
| +0 mins. | 0 | 9 | 4 | 0 | 13 | 1 | 25 | 1 | 0 | 27 | 4 | 38 | 18 | 0 | 60 | 4 | 28 | 1 | 0 | 33 |
| +5 mins. | 1 | 15 | 2 | 0 | 18 | 4 | 13 | 1 | 0 | 18 | 5 | 30 | 13 | 0 | 48 | 5 | 32 | 1 | 0 | 38 |
| +10 mins. | 1 | 10 | 9 | 0 | 20 | 5 | 11 | 0 | 0 | 16 | 7 | 36 | 20 | 0 | 63 | 8 | 22 | 1 | 0 | 31 |
| +15 mins. | 1 | 13 | 9 | 0 | 23 | 3 | 15 | 0 | 0 | 18 | 6 | 41 | 11 | 0 | 58 | 6 | 36 | 0 | 0 | 42 |
| Total Volume | 3 | 47 | 24 | 0 | 74 | 13 | 64 | 2 | 0 | 79 | 22 | 145 | 62 | 0 | 229 | 23 | 118 | 3 | 0 | 144 |
| % App. Total | 4.1 | 63.5 | 32.4 | 0 | | 16.5 | 81 | 2.5 | 0 | | 9.6 | 63.3 | 27.1 | 0 | | 16 | 81.9 | 2.1 | 0 | |
| PHF | .750 | .783 | .667 | .000 | .804 | .650 | .640 | .500 | .000 | .731 | .786 | .884 | .775 | .000 | .909 | .719 | .819 | .750 | .000 | .857 |



LSC Transportation Consultants, Inc.

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

File Name : Curtis Rd - Judge Orr Rd AM 11-23

Site Code : S234040

Start Date : 11/7/2023

Page No : 1

Groups Printed- Unshifted

| Start Time | Stapleton Rd Southbound | | | | | Judge Orr Rd Westbound | | | | | Curtis Rd Northbound | | | | | Judge Orr Rd Eastbound | | | | | Int. Total |
|--------------------|-------------------------|------|------|------|------------|------------------------|------|------|------|------------|----------------------|------|------|------|------------|------------------------|------|------|------|------------|------------|
| | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | |
| 06:30 | 0 | 11 | 0 | 0 | 11 | 1 | 6 | 1 | 0 | 8 | 0 | 3 | 2 | 0 | 5 | 5 | 1 | 1 | 0 | 7 | 31 |
| 06:35 | 0 | 16 | 1 | 0 | 17 | 1 | 7 | 0 | 0 | 8 | 0 | 1 | 2 | 0 | 3 | 4 | 1 | 0 | 0 | 5 | 33 |
| 06:40 | 0 | 8 | 0 | 0 | 8 | 2 | 8 | 0 | 0 | 10 | 0 | 6 | 2 | 0 | 8 | 9 | 1 | 1 | 0 | 11 | 37 |
| 06:45 | 0 | 12 | 0 | 0 | 12 | 1 | 13 | 2 | 0 | 16 | 1 | 3 | 2 | 0 | 6 | 10 | 2 | 1 | 0 | 13 | 47 |
| 06:50 | 0 | 14 | 0 | 0 | 14 | 0 | 6 | 1 | 0 | 7 | 0 | 9 | 2 | 0 | 11 | 7 | 2 | 1 | 0 | 10 | 42 |
| 06:55 | 0 | 20 | 0 | 0 | 20 | 1 | 11 | 2 | 0 | 14 | 0 | 5 | 1 | 0 | 6 | 7 | 6 | 0 | 0 | 13 | 53 |
| Total | 0 | 81 | 1 | 0 | 82 | 6 | 51 | 6 | 0 | 63 | 1 | 27 | 11 | 0 | 39 | 42 | 13 | 4 | 0 | 59 | 243 |
| | | | | | | | | | | | | | | | | | | | | | |
| 07:00 | 0 | 10 | 0 | 0 | 10 | 1 | 7 | 1 | 0 | 9 | 0 | 7 | 3 | 0 | 10 | 5 | 1 | 1 | 0 | 7 | 36 |
| 07:05 | 0 | 25 | 0 | 0 | 25 | 1 | 18 | 2 | 0 | 21 | 0 | 9 | 4 | 0 | 13 | 7 | 4 | 0 | 0 | 11 | 70 |
| 07:10 | 0 | 19 | 1 | 0 | 20 | 2 | 11 | 4 | 0 | 17 | 0 | 7 | 4 | 0 | 11 | 7 | 3 | 0 | 0 | 10 | 58 |
| 07:15 | 0 | 15 | 2 | 0 | 17 | 2 | 10 | 5 | 0 | 17 | 1 | 8 | 3 | 0 | 12 | 5 | 4 | 0 | 0 | 9 | 55 |
| 07:20 | 0 | 14 | 0 | 0 | 14 | 0 | 18 | 2 | 0 | 20 | 1 | 3 | 8 | 0 | 12 | 3 | 4 | 0 | 0 | 7 | 53 |
| 07:25 | 1 | 15 | 0 | 0 | 16 | 4 | 11 | 1 | 0 | 16 | 0 | 3 | 2 | 0 | 5 | 2 | 3 | 0 | 0 | 5 | 42 |
| 07:30 | 0 | 15 | 1 | 0 | 16 | 0 | 20 | 2 | 0 | 22 | 1 | 3 | 2 | 0 | 6 | 10 | 1 | 0 | 0 | 11 | 55 |
| 07:35 | 0 | 17 | 1 | 0 | 18 | 1 | 5 | 2 | 0 | 8 | 0 | 7 | 5 | 0 | 12 | 5 | 1 | 0 | 0 | 6 | 44 |
| 07:40 | 0 | 13 | 0 | 0 | 13 | 1 | 14 | 0 | 0 | 15 | 0 | 6 | 4 | 0 | 10 | 5 | 3 | 0 | 0 | 8 | 46 |
| 07:45 | 2 | 11 | 0 | 0 | 13 | 1 | 6 | 0 | 0 | 7 | 0 | 4 | 1 | 0 | 5 | 3 | 4 | 0 | 0 | 7 | 32 |
| 07:50 | 0 | 10 | 1 | 0 | 11 | 2 | 10 | 0 | 0 | 12 | 1 | 2 | 2 | 0 | 5 | 4 | 5 | 0 | 0 | 9 | 37 |
| 07:55 | 2 | 5 | 0 | 0 | 7 | 0 | 11 | 0 | 0 | 11 | 1 | 3 | 3 | 0 | 7 | 2 | 1 | 1 | 0 | 4 | 29 |
| Total | 5 | 169 | 6 | 0 | 180 | 15 | 141 | 19 | 0 | 175 | 5 | 62 | 41 | 0 | 108 | 58 | 34 | 2 | 0 | 94 | 557 |
| | | | | | | | | | | | | | | | | | | | | | |
| 08:00 | 1 | 12 | 0 | 0 | 13 | 0 | 6 | 0 | 0 | 6 | 0 | 1 | 2 | 0 | 3 | 0 | 3 | 1 | 0 | 4 | 26 |
| 08:05 | 0 | 11 | 1 | 0 | 12 | 0 | 7 | 1 | 0 | 8 | 0 | 2 | 2 | 0 | 4 | 2 | 4 | 0 | 0 | 6 | 30 |
| 08:10 | 0 | 8 | 0 | 0 | 8 | 1 | 7 | 0 | 0 | 8 | 0 | 3 | 3 | 0 | 6 | 4 | 4 | 0 | 0 | 8 | 30 |
| 08:15 | 1 | 7 | 0 | 0 | 8 | 1 | 7 | 0 | 0 | 8 | 0 | 3 | 1 | 0 | 4 | 4 | 7 | 0 | 0 | 11 | 31 |
| 08:20 | 0 | 7 | 2 | 0 | 9 | 0 | 7 | 0 | 0 | 7 | 0 | 2 | 1 | 0 | 3 | 1 | 4 | 0 | 0 | 5 | 24 |
| 08:25 | 0 | 11 | 1 | 0 | 12 | 1 | 7 | 1 | 0 | 9 | 0 | 3 | 0 | 0 | 3 | 3 | 9 | 0 | 0 | 12 | 36 |
| Grand Total | 7 | 306 | 11 | 0 | 324 | 24 | 233 | 27 | 0 | 284 | 6 | 103 | 61 | 0 | 170 | 114 | 78 | 7 | 0 | 199 | 977 |
| Apprch % | 2.2 | 94.4 | 3.4 | 0 | | 8.5 | 82 | 9.5 | 0 | | 3.5 | 60.6 | 35.9 | 0 | | 57.3 | 39.2 | 3.5 | 0 | | |
| Total % | 0.7 | 31.3 | 1.1 | 0 | 33.2 | 2.5 | 23.8 | 2.8 | 0 | 29.1 | 0.6 | 10.5 | 6.2 | 0 | 17.4 | 11.7 | 8 | 0.7 | 0 | 20.4 | |

LSC Transportation Consultants, Inc.

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

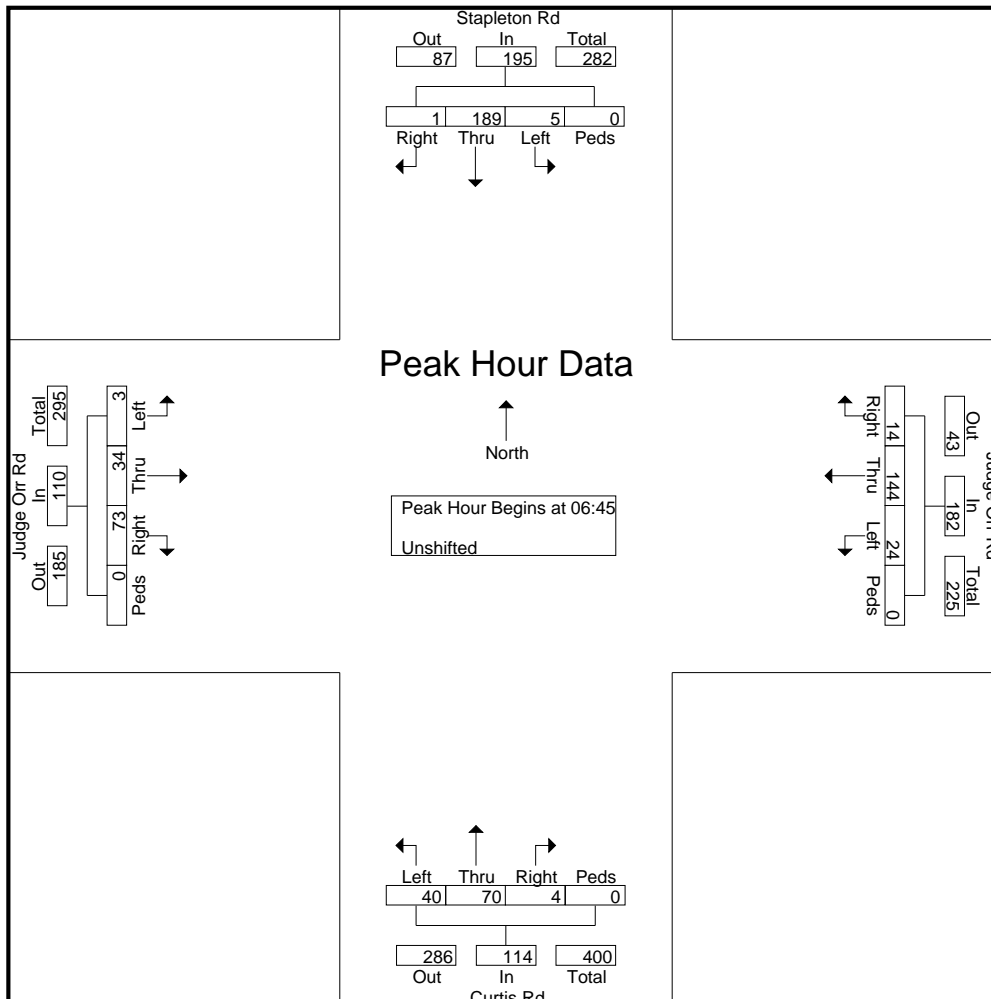
File Name : Curtis Rd - Judge Orr Rd AM 11-23

Site Code : S234040

Start Date : 11/7/2023

Page No : 2

| Start Time | Stapleton Rd Southbound | | | | | Judge Orr Rd Westbound | | | | | Curtis Rd Northbound | | | | | Judge Orr Rd Eastbound | | | | | Int. Total |
|--|-------------------------|------|------|------|------------|------------------------|------|------|------|------------|----------------------|------|------|------|------------|------------------------|------|------|------|------------|------------|
| | 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 for Entire Intersection Begins at 06:45 | | | | | | | | | | | | | | | | | | | | | |
| 06:45 | 0 | 12 | 0 | 0 | 12 | 1 | 13 | 2 | 0 | 16 | 1 | 3 | 2 | 0 | 6 | 10 | 2 | 1 | 0 | 13 | 47 |
| 06:50 | 0 | 14 | 0 | 0 | 14 | 0 | 6 | 1 | 0 | 7 | 0 | 9 | 2 | 0 | 11 | 7 | 2 | 1 | 0 | 10 | 42 |
| 06:55 | 0 | 20 | 0 | 0 | 20 | 1 | 11 | 2 | 0 | 14 | 0 | 5 | 1 | 0 | 6 | 7 | 6 | 0 | 0 | 13 | 53 |
| 07:00 | 0 | 10 | 0 | 0 | 10 | 1 | 7 | 1 | 0 | 9 | 0 | 7 | 3 | 0 | 10 | 5 | 1 | 1 | 0 | 7 | 36 |
| 07:05 | 0 | 25 | 0 | 0 | 25 | 1 | 18 | 2 | 0 | 21 | 0 | 9 | 4 | 0 | 13 | 7 | 4 | 0 | 0 | 11 | 70 |
| 07:10 | 0 | 19 | 1 | 0 | 20 | 2 | 11 | 4 | 0 | 17 | 0 | 7 | 4 | 0 | 11 | 7 | 3 | 0 | 0 | 10 | 58 |
| 07:15 | 0 | 15 | 2 | 0 | 17 | 2 | 10 | 5 | 0 | 17 | 1 | 8 | 3 | 0 | 12 | 5 | 4 | 0 | 0 | 9 | 55 |
| 07:20 | 0 | 14 | 0 | 0 | 14 | 0 | 18 | 2 | 0 | 20 | 1 | 3 | 8 | 0 | 12 | 3 | 4 | 0 | 0 | 7 | 53 |
| 07:25 | 1 | 15 | 0 | 0 | 16 | 4 | 11 | 1 | 0 | 16 | 0 | 3 | 2 | 0 | 5 | 2 | 3 | 0 | 0 | 5 | 42 |
| 07:30 | 0 | 15 | 1 | 0 | 16 | 0 | 20 | 2 | 0 | 22 | 1 | 3 | 2 | 0 | 6 | 10 | 1 | 0 | 0 | 11 | 55 |
| 07:35 | 0 | 17 | 1 | 0 | 18 | 1 | 5 | 2 | 0 | 8 | 0 | 7 | 5 | 0 | 12 | 5 | 1 | 0 | 0 | 6 | 44 |
| 07:40 | 0 | 13 | 0 | 0 | 13 | 1 | 14 | 0 | 0 | 15 | 0 | 6 | 4 | 0 | 10 | 5 | 3 | 0 | 0 | 8 | 46 |
| Total Volume | 1 | 189 | 5 | 0 | 195 | 14 | 144 | 24 | 0 | 182 | 4 | 70 | 40 | 0 | 114 | 73 | 34 | 3 | 0 | 110 | 601 |
| % App. Total | 0.5 | 96.9 | 2.6 | 0 | | 7.7 | 79.1 | 13.2 | 0 | | 3.5 | 61.4 | 35.1 | 0 | | 66.4 | 30.9 | 2.7 | 0 | | |
| PHF | .083 | .630 | .208 | .000 | .650 | .292 | .600 | .400 | .000 | .689 | .333 | .648 | .417 | .000 | .731 | .608 | .472 | .250 | .000 | .705 | .715 |



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 Colorado Springs, CO 80909
 719-633-2868

File Name : Curtis Rd - Judge Orr Rd AM 11-23

Site Code : S234040

Start Date : 11/7/2023

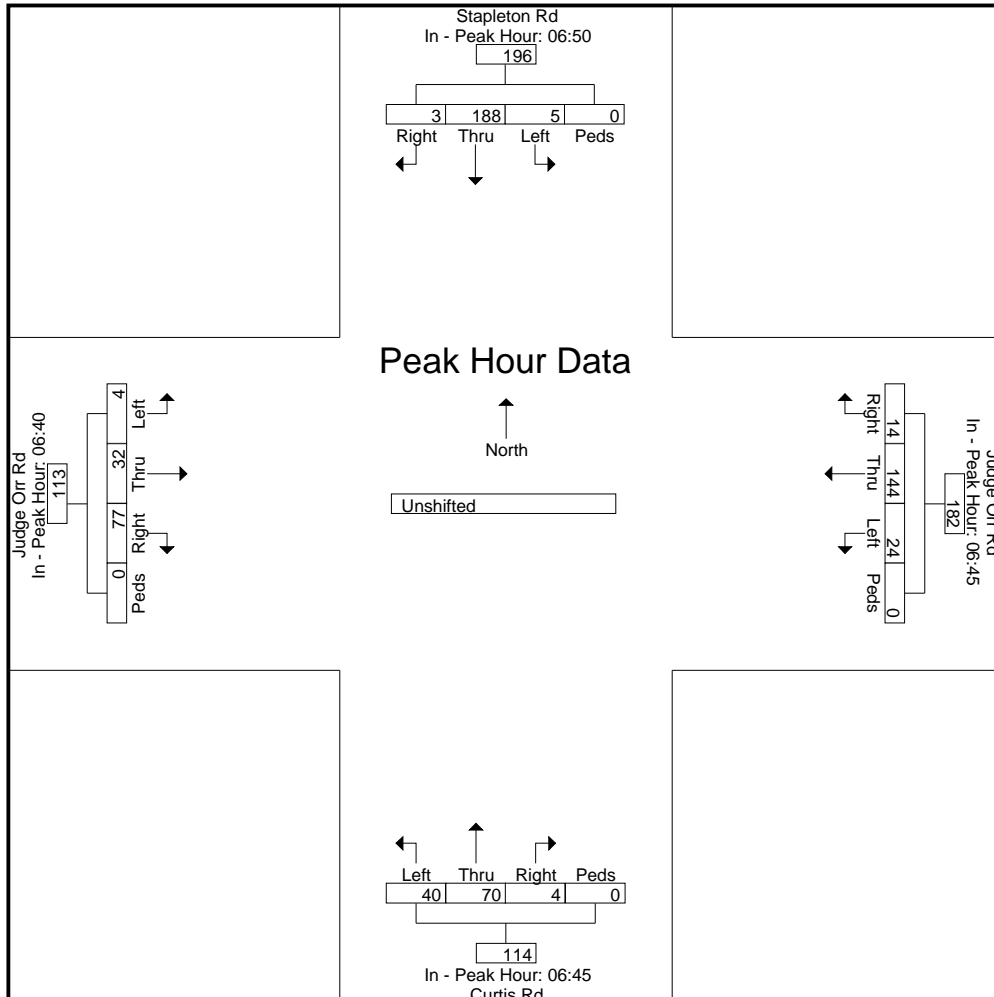
Page No : 3

| Start Time | Stapleton Rd Southbound | | | | | Judge Orr Rd Westbound | | | | | Curtis Rd Northbound | | | | | Judge Orr Rd Eastbound | | | | | Int. Total |
|------------|-------------------------|------|------|------|------------|------------------------|------|------|------|------------|----------------------|------|------|------|------------|------------------------|------|------|------|------------|------------|
| | 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 for Each Approach Begins at:

| | 06:50 | | | | | 06:45 | | | | | 06:45 | | | | | 06:40 | | | | |
|--------------|-------|------|------|------|------|-------|------|------|------|------|-------|------|------|------|------|-------|------|------|------|------|
| +0 mins. | 0 | 14 | 0 | 0 | 14 | 1 | 13 | 2 | 0 | 16 | 1 | 3 | 2 | 0 | 6 | 9 | 1 | 1 | 0 | 11 |
| +5 mins. | 0 | 20 | 0 | 0 | 20 | 0 | 6 | 1 | 0 | 7 | 0 | 9 | 2 | 0 | 11 | 10 | 2 | 1 | 0 | 13 |
| +10 mins. | 0 | 10 | 0 | 0 | 10 | 1 | 11 | 2 | 0 | 14 | 0 | 5 | 1 | 0 | 6 | 7 | 2 | 1 | 0 | 10 |
| +15 mins. | 0 | 25 | 0 | 0 | 25 | 1 | 7 | 1 | 0 | 9 | 0 | 7 | 3 | 0 | 10 | 7 | 6 | 0 | 0 | 13 |
| +20 mins. | 0 | 19 | 1 | 0 | 20 | 1 | 18 | 2 | 0 | 21 | 0 | 9 | 4 | 0 | 13 | 5 | 1 | 1 | 0 | 7 |
| +25 mins. | 0 | 15 | 2 | 0 | 17 | 2 | 11 | 4 | 0 | 17 | 0 | 7 | 4 | 0 | 11 | 7 | 4 | 0 | 0 | 11 |
| +30 mins. | 0 | 14 | 0 | 0 | 14 | 2 | 10 | 5 | 0 | 17 | 1 | 8 | 3 | 0 | 12 | 7 | 3 | 0 | 0 | 10 |
| +35 mins. | 1 | 15 | 0 | 0 | 16 | 0 | 18 | 2 | 0 | 20 | 1 | 3 | 8 | 0 | 12 | 5 | 4 | 0 | 0 | 9 |
| +40 mins. | 0 | 15 | 1 | 0 | 16 | 4 | 11 | 1 | 0 | 16 | 0 | 3 | 2 | 0 | 5 | 3 | 4 | 0 | 0 | 7 |
| +45 mins. | 0 | 17 | 1 | 0 | 18 | 0 | 20 | 2 | 0 | 22 | 1 | 3 | 2 | 0 | 6 | 2 | 3 | 0 | 0 | 5 |
| +50 mins. | 0 | 13 | 0 | 0 | 13 | 1 | 5 | 2 | 0 | 8 | 0 | 7 | 5 | 0 | 12 | 10 | 1 | 0 | 0 | 11 |
| +55 mins. | 2 | 11 | 0 | 0 | 13 | 1 | 14 | 0 | 0 | 15 | 0 | 6 | 4 | 0 | 10 | 5 | 1 | 0 | 0 | 6 |
| Total Volume | 3 | 188 | 5 | 0 | 196 | 14 | 144 | 24 | 0 | 182 | 4 | 70 | 40 | 0 | 114 | 77 | 32 | 4 | 0 | 113 |
| % App. Total | 1.5 | 95.9 | 2.6 | 0 | | 7.7 | 79.1 | 13.2 | 0 | | 3.5 | 61.4 | 35.1 | 0 | | 68.1 | 28.3 | 3.5 | 0 | |
| PHF | .125 | .627 | .208 | .000 | .653 | .292 | .600 | .400 | .000 | .689 | .333 | .648 | .417 | .000 | .731 | .642 | .444 | .333 | .000 | .724 |



LSC Transportation Consultants, Inc.

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

File Name : Curtis Rd - Judge Orr Rd PM 11-23

Site Code : S234040

Start Date : 11/2/2023

Page No : 1

Groups Printed- Unshifted

| Start Time | Stapleton Rd Southbound | | | | | Judge Orr Rd Westbound | | | | | Curtis Rd Northbound | | | | | Judge Orr Rd Eastbound | | | | | Int. Total |
|--------------------|-------------------------|-------------|-------------|----------|-------------|------------------------|-------------|------------|----------|-------------|----------------------|-------------|-------------|----------|-------------|------------------------|-------------|------------|----------|-------------|------------|
| | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | |
| 16:00 | 0 | 4 | 2 | 0 | 6 | 1 | 2 | 1 | 0 | 4 | 0 | 8 | 4 | 0 | 12 | 2 | 8 | 0 | 0 | 10 | 32 |
| 16:05 | 0 | 5 | 3 | 0 | 8 | 0 | 2 | 0 | 0 | 2 | 0 | 9 | 5 | 0 | 14 | 2 | 9 | 0 | 0 | 11 | 35 |
| 16:10 | 0 | 6 | 3 | 0 | 9 | 3 | 5 | 1 | 0 | 9 | 0 | 12 | 6 | 0 | 18 | 1 | 15 | 0 | 0 | 16 | 52 |
| 16:15 | 1 | 3 | 1 | 0 | 5 | 0 | 11 | 0 | 0 | 11 | 0 | 6 | 5 | 0 | 11 | 3 | 9 | 0 | 0 | 12 | 39 |
| 16:20 | 0 | 3 | 0 | 0 | 3 | 0 | 7 | 0 | 0 | 7 | 1 | 9 | 4 | 0 | 14 | 1 | 10 | 0 | 0 | 11 | 35 |
| 16:25 | 1 | 6 | 2 | 0 | 9 | 2 | 11 | 0 | 0 | 13 | 1 | 22 | 11 | 0 | 34 | 0 | 12 | 1 | 0 | 13 | 69 |
| 16:30 | 0 | 8 | 2 | 0 | 10 | 2 | 6 | 0 | 0 | 8 | 0 | 10 | 4 | 0 | 14 | 2 | 6 | 0 | 0 | 8 | 40 |
| 16:35 | 0 | 3 | 0 | 0 | 3 | 3 | 1 | 1 | 0 | 5 | 1 | 11 | 5 | 0 | 17 | 3 | 10 | 0 | 0 | 13 | 38 |
| 16:40 | 0 | 2 | 1 | 0 | 3 | 0 | 10 | 0 | 0 | 10 | 0 | 4 | 3 | 0 | 7 | 1 | 10 | 0 | 0 | 11 | 31 |
| 16:45 | 0 | 3 | 1 | 0 | 4 | 2 | 6 | 0 | 0 | 8 | 1 | 8 | 4 | 0 | 13 | 2 | 9 | 0 | 0 | 11 | 36 |
| 16:50 | 0 | 2 | 2 | 0 | 4 | 0 | 5 | 0 | 0 | 5 | 0 | 7 | 5 | 0 | 12 | 4 | 8 | 0 | 0 | 12 | 33 |
| 16:55 | 0 | 2 | 2 | 0 | 4 | 1 | 5 | 0 | 0 | 6 | 2 | 6 | 2 | 0 | 10 | 2 | 14 | 0 | 0 | 16 | 36 |
| Total | 2 | 47 | 19 | 0 | 68 | 14 | 71 | 3 | 0 | 88 | 6 | 112 | 58 | 0 | 176 | 23 | 120 | 1 | 0 | 144 | 476 |
| 17:00 | 0 | 2 | 1 | 0 | 3 | 0 | 5 | 0 | 0 | 5 | 0 | 10 | 4 | 0 | 14 | 3 | 5 | 1 | 0 | 9 | 31 |
| 17:05 | 0 | 6 | 3 | 0 | 9 | 0 | 5 | 0 | 0 | 5 | 0 | 12 | 1 | 0 | 13 | 2 | 13 | 0 | 0 | 15 | 42 |
| 17:10 | 1 | 2 | 3 | 0 | 6 | 0 | 2 | 0 | 0 | 2 | 0 | 11 | 3 | 0 | 14 | 1 | 9 | 0 | 0 | 10 | 32 |
| 17:15 | 0 | 5 | 4 | 0 | 9 | 0 | 7 | 0 | 0 | 7 | 2 | 6 | 6 | 0 | 14 | 6 | 15 | 0 | 0 | 21 | 51 |
| 17:20 | 0 | 5 | 4 | 0 | 9 | 1 | 5 | 0 | 0 | 6 | 0 | 10 | 2 | 0 | 12 | 1 | 9 | 0 | 0 | 10 | 37 |
| 17:25 | 0 | 1 | 1 | 0 | 2 | 0 | 5 | 0 | 0 | 5 | 0 | 14 | 8 | 0 | 22 | 2 | 13 | 1 | 0 | 16 | 45 |
| 17:30 | 0 | 2 | 2 | 0 | 4 | 1 | 5 | 1 | 0 | 7 | 0 | 7 | 5 | 0 | 12 | 2 | 12 | 0 | 0 | 14 | 37 |
| 17:35 | 0 | 2 | 1 | 0 | 3 | 0 | 3 | 0 | 0 | 3 | 1 | 11 | 3 | 0 | 15 | 1 | 9 | 0 | 0 | 10 | 31 |
| 17:40 | 0 | 4 | 2 | 0 | 6 | 0 | 3 | 0 | 0 | 3 | 0 | 3 | 1 | 0 | 4 | 1 | 10 | 0 | 0 | 11 | 24 |
| 17:45 | 1 | 6 | 4 | 0 | 11 | 0 | 12 | 0 | 0 | 12 | 0 | 9 | 0 | 0 | 9 | 2 | 11 | 0 | 0 | 13 | 45 |
| 17:50 | 0 | 3 | 0 | 0 | 3 | 2 | 5 | 0 | 0 | 7 | 1 | 12 | 2 | 0 | 15 | 1 | 10 | 0 | 0 | 11 | 36 |
| 17:55 | 1 | 4 | 2 | 0 | 7 | 2 | 6 | 0 | 0 | 8 | 0 | 6 | 5 | 0 | 11 | 1 | 7 | 0 | 0 | 8 | 34 |
| Total | 3 | 42 | 27 | 0 | 72 | 6 | 63 | 1 | 0 | 70 | 4 | 111 | 40 | 0 | 155 | 23 | 123 | 2 | 0 | 148 | 445 |
| Grand Total | 5 | 89 | 46 | 0 | 140 | 20 | 134 | 4 | 0 | 158 | 10 | 223 | 98 | 0 | 331 | 46 | 243 | 3 | 0 | 292 | 921 |
| Apprch % | 3.6 | 63.6 | 32.9 | 0 | | 12.7 | 84.8 | 2.5 | 0 | | 3 | 67.4 | 29.6 | 0 | | 15.8 | 83.2 | 1 | 0 | | |
| Total % | 0.5 | 9.7 | 5 | 0 | 15.2 | 2.2 | 14.5 | 0.4 | 0 | 17.2 | 1.1 | 24.2 | 10.6 | 0 | 35.9 | 5 | 26.4 | 0.3 | 0 | 31.7 | |

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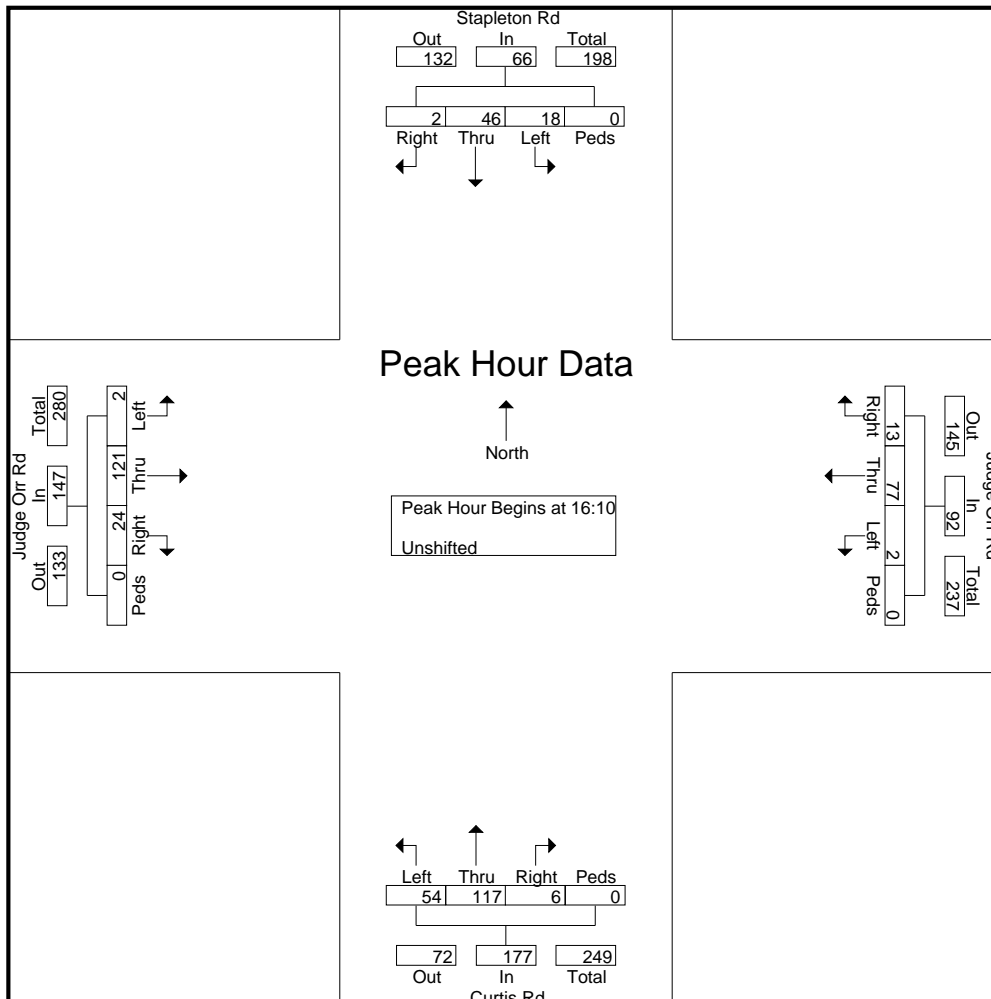
File Name : Curtis Rd - Judge Orr Rd PM 11-23

Site Code : S234040

Start Date : 11/2/2023

Page No : 2

| Start Time | Stapleton Rd Southbound | | | | | Judge Orr Rd Westbound | | | | | Curtis Rd Northbound | | | | | Judge Orr Rd Eastbound | | | | | Int. Total |
|--|-------------------------|------|------|------|------------|------------------------|------|------|------|------------|----------------------|------|------|------|------------|------------------------|------|------|------|------------|------------|
| | 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 16:00 to 17:55 - Peak 1 of 1 | | | | | | | | | | | | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 16:10 | | | | | | | | | | | | | | | | | | | | | |
| 16:10 | 0 | 6 | 3 | 0 | 9 | 3 | 5 | 1 | 0 | 9 | 0 | 12 | 6 | 0 | 18 | 1 | 15 | 0 | 0 | 16 | 52 |
| 16:15 | 1 | 3 | 1 | 0 | 5 | 0 | 11 | 0 | 0 | 11 | 0 | 6 | 5 | 0 | 11 | 3 | 9 | 0 | 0 | 12 | 39 |
| 16:20 | 0 | 3 | 0 | 0 | 3 | 0 | 7 | 0 | 0 | 7 | 1 | 9 | 4 | 0 | 14 | 1 | 10 | 0 | 0 | 11 | 35 |
| 16:25 | 1 | 6 | 2 | 0 | 9 | 2 | 11 | 0 | 0 | 13 | 1 | 22 | 11 | 0 | 34 | 0 | 12 | 1 | 0 | 13 | 69 |
| 16:30 | 0 | 8 | 2 | 0 | 10 | 2 | 6 | 0 | 0 | 8 | 0 | 10 | 4 | 0 | 14 | 2 | 6 | 0 | 0 | 8 | 40 |
| 16:35 | 0 | 3 | 0 | 0 | 3 | 3 | 1 | 1 | 0 | 5 | 1 | 11 | 5 | 0 | 17 | 3 | 10 | 0 | 0 | 13 | 38 |
| 16:40 | 0 | 2 | 1 | 0 | 3 | 0 | 10 | 0 | 0 | 10 | 0 | 4 | 3 | 0 | 7 | 1 | 10 | 0 | 0 | 11 | 31 |
| 16:45 | 0 | 3 | 1 | 0 | 4 | 2 | 6 | 0 | 0 | 8 | 1 | 8 | 4 | 0 | 13 | 2 | 9 | 0 | 0 | 11 | 36 |
| 16:50 | 0 | 2 | 2 | 0 | 4 | 0 | 5 | 0 | 0 | 5 | 0 | 7 | 5 | 0 | 12 | 4 | 8 | 0 | 0 | 12 | 33 |
| 16:55 | 0 | 2 | 2 | 0 | 4 | 1 | 5 | 0 | 0 | 6 | 2 | 6 | 2 | 0 | 10 | 2 | 14 | 0 | 0 | 16 | 36 |
| 17:00 | 0 | 2 | 1 | 0 | 3 | 0 | 5 | 0 | 0 | 5 | 0 | 10 | 4 | 0 | 14 | 3 | 5 | 1 | 0 | 9 | 31 |
| 17:05 | 0 | 6 | 3 | 0 | 9 | 0 | 5 | 0 | 0 | 5 | 0 | 12 | 1 | 0 | 13 | 2 | 13 | 0 | 0 | 15 | 42 |
| Total Volume | 2 | 46 | 18 | 0 | 66 | 13 | 77 | 2 | 0 | 92 | 6 | 117 | 54 | 0 | 177 | 24 | 121 | 2 | 0 | 147 | 482 |
| % App. Total | 3 | 69.7 | 27.3 | 0 | | 14.1 | 83.7 | 2.2 | 0 | | 3.4 | 66.1 | 30.5 | 0 | | 16.3 | 82.3 | 1.4 | 0 | | |
| PHF | .167 | .479 | .500 | .000 | .550 | .361 | .583 | .167 | .000 | .590 | .250 | .443 | .409 | .000 | .434 | .500 | .672 | .167 | .000 | .766 | .582 |



LSC Transportation Consultants, Inc.

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

File Name : Curtis Rd - Judge Orr Rd PM 11-23

Site Code : S234040

Start Date : 11/2/2023

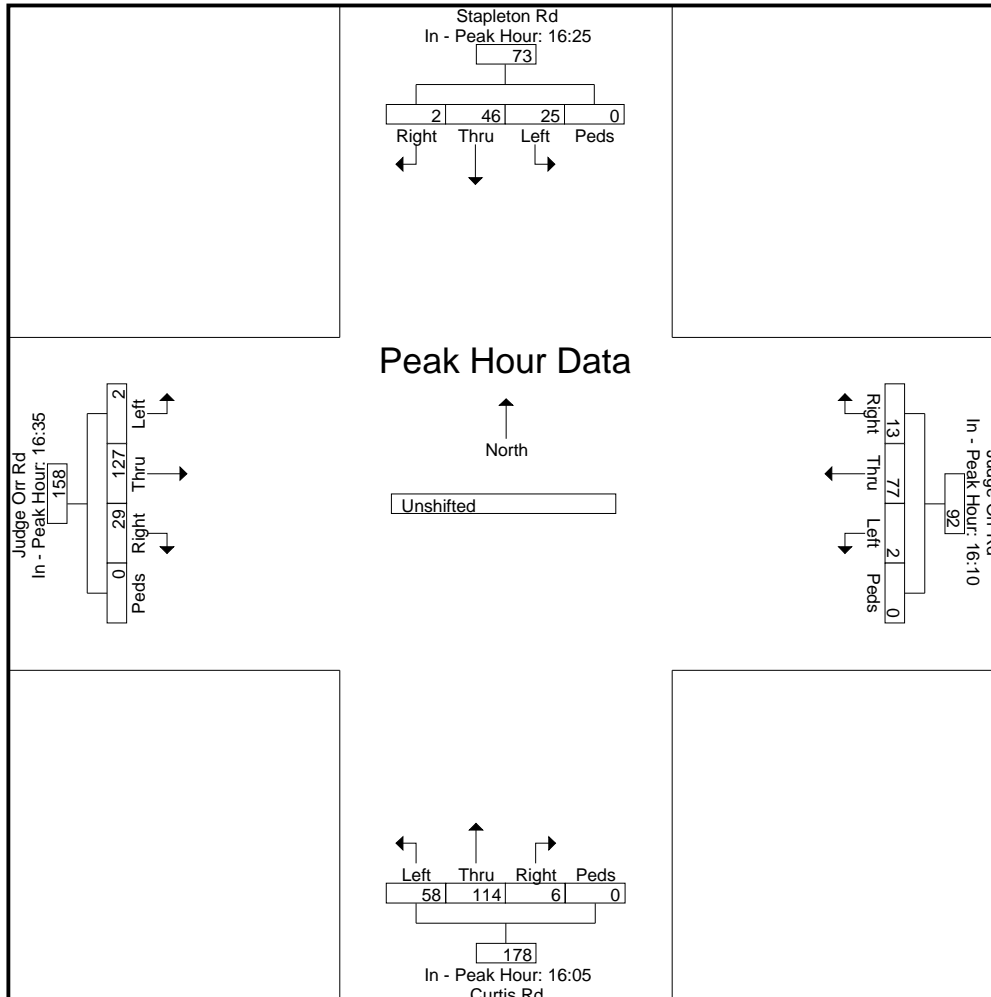
Page No : 3

| Start Time | Stapleton Rd Southbound | | | | | Judge Orr Rd Westbound | | | | | Curtis Rd Northbound | | | | | Judge Orr Rd Eastbound | | | | | Int. Total |
|------------|-------------------------|------|------|------|------------|------------------------|------|------|------|------------|----------------------|------|------|------|------------|------------------------|------|------|------|------------|------------|
| | 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 16:00 to 17:55 - Peak 1 of 1

Peak Hour for Each Approach Begins at:

| | 16:25 | | | | | 16:10 | | | | | 16:05 | | | | | 16:35 | | | | |
|--------------|-------|------|------|------|------|-------|------|------|------|------|-------|------|------|------|------|-------|------|------|------|------|
| +0 mins. | 1 | 6 | 2 | 0 | 9 | 3 | 5 | 1 | 0 | 9 | 0 | 9 | 5 | 0 | 14 | 3 | 10 | 0 | 0 | 13 |
| +5 mins. | 0 | 8 | 2 | 0 | 10 | 0 | 11 | 0 | 0 | 11 | 0 | 12 | 6 | 0 | 18 | 1 | 10 | 0 | 0 | 11 |
| +10 mins. | 0 | 3 | 0 | 0 | 3 | 0 | 7 | 0 | 0 | 7 | 0 | 6 | 5 | 0 | 11 | 2 | 9 | 0 | 0 | 11 |
| +15 mins. | 0 | 2 | 1 | 0 | 3 | 2 | 11 | 0 | 0 | 13 | 1 | 9 | 4 | 0 | 14 | 4 | 8 | 0 | 0 | 12 |
| +20 mins. | 0 | 3 | 1 | 0 | 4 | 2 | 6 | 0 | 0 | 8 | 1 | 22 | 11 | 0 | 34 | 2 | 14 | 0 | 0 | 16 |
| +25 mins. | 0 | 2 | 2 | 0 | 4 | 3 | 1 | 1 | 0 | 5 | 0 | 10 | 4 | 0 | 14 | 3 | 5 | 1 | 0 | 9 |
| +30 mins. | 0 | 2 | 2 | 0 | 4 | 0 | 10 | 0 | 0 | 10 | 1 | 11 | 5 | 0 | 17 | 2 | 13 | 0 | 0 | 15 |
| +35 mins. | 0 | 2 | 1 | 0 | 3 | 2 | 6 | 0 | 0 | 8 | 0 | 4 | 3 | 0 | 7 | 1 | 9 | 0 | 0 | 10 |
| +40 mins. | 0 | 6 | 3 | 0 | 9 | 0 | 5 | 0 | 0 | 5 | 1 | 8 | 4 | 0 | 13 | 6 | 15 | 0 | 0 | 21 |
| +45 mins. | 1 | 2 | 3 | 0 | 6 | 1 | 5 | 0 | 0 | 6 | 0 | 7 | 5 | 0 | 12 | 1 | 9 | 0 | 0 | 10 |
| +50 mins. | 0 | 5 | 4 | 0 | 9 | 0 | 5 | 0 | 0 | 5 | 2 | 6 | 2 | 0 | 10 | 2 | 13 | 1 | 0 | 16 |
| +55 mins. | 0 | 5 | 4 | 0 | 9 | 0 | 5 | 0 | 0 | 5 | 0 | 10 | 4 | 0 | 14 | 2 | 12 | 0 | 0 | 14 |
| Total Volume | 2 | 46 | 25 | 0 | 73 | 13 | 77 | 2 | 0 | 92 | 6 | 114 | 58 | 0 | 178 | 29 | 127 | 2 | 0 | 158 |
| % App. Total | 2.7 | 63 | 34.2 | 0 | | 14.1 | 83.7 | 2.2 | 0 | | 3.4 | 64 | 32.6 | 0 | | 18.4 | 80.4 | 1.3 | 0 | |
| PHF | .167 | .479 | .521 | .000 | .608 | .361 | .583 | .167 | .000 | .590 | .250 | .432 | .439 | .000 | .436 | .403 | .706 | .167 | .000 | .627 |



LSC Transportation Consultants, Inc.

2504 E. Pikes Peak Ave, Suite 304
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 719-633-2868

File Name : hwy 24 - judge orr rd am
 Site Code : S214950
 Start Date : 5/10/2022
 Page No : 1

Groups Printed- Unshifted

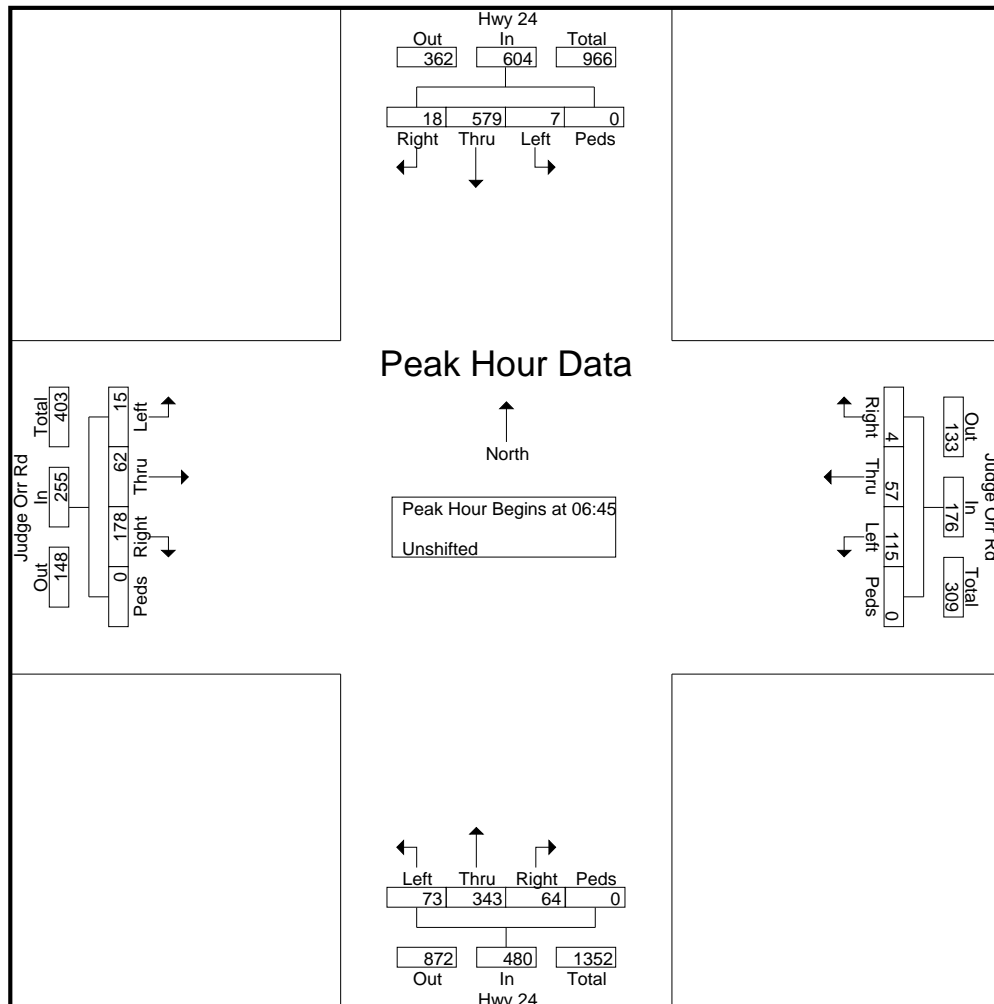
| Start Time | Hwy 24 Southbound | | | | | Judge Orr Rd Westbound | | | | | Hwy 24 Northbound | | | | | Judge Orr Rd Eastbound | | | | | Int. Total |
|--------------------|-------------------|-------------|------------|----------|-------------|------------------------|-------------|-------------|----------|-------------|-------------------|-------------|-------------|------------|-------------|------------------------|-------------|------------|----------|-------------|-------------|
| | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | |
| 06:30 | 1 | 130 | 0 | 0 | 131 | 1 | 7 | 36 | 0 | 44 | 4 | 66 | 8 | 0 | 78 | 43 | 14 | 2 | 0 | 59 | 312 |
| 06:45 | 4 | 173 | 3 | 0 | 180 | 0 | 10 | 20 | 0 | 30 | 18 | 92 | 8 | 0 | 118 | 34 | 10 | 4 | 0 | 48 | 376 |
| Total | 5 | 303 | 3 | 0 | 311 | 1 | 17 | 56 | 0 | 74 | 22 | 158 | 16 | 0 | 196 | 77 | 24 | 6 | 0 | 107 | 688 |
| 07:00 | 2 | 132 | 0 | 0 | 134 | 3 | 7 | 39 | 0 | 49 | 18 | 98 | 23 | 0 | 139 | 50 | 16 | 9 | 0 | 75 | 397 |
| 07:15 | 3 | 137 | 2 | 0 | 142 | 1 | 23 | 26 | 0 | 50 | 19 | 82 | 18 | 0 | 119 | 43 | 16 | 2 | 0 | 61 | 372 |
| 07:30 | 9 | 137 | 2 | 0 | 148 | 0 | 17 | 30 | 0 | 47 | 9 | 71 | 24 | 0 | 104 | 51 | 20 | 0 | 0 | 71 | 370 |
| 07:45 | 1 | 102 | 1 | 0 | 104 | 1 | 15 | 15 | 0 | 31 | 21 | 67 | 17 | 0 | 105 | 21 | 15 | 3 | 0 | 39 | 279 |
| Total | 15 | 508 | 5 | 0 | 528 | 5 | 62 | 110 | 0 | 177 | 67 | 318 | 82 | 0 | 467 | 165 | 67 | 14 | 0 | 246 | 1418 |
| 08:00 | 2 | 108 | 1 | 0 | 111 | 1 | 8 | 22 | 0 | 31 | 23 | 68 | 12 | 1 | 104 | 28 | 20 | 5 | 0 | 53 | 299 |
| 08:15 | 5 | 96 | 1 | 0 | 102 | 2 | 3 | 29 | 0 | 34 | 15 | 70 | 14 | 0 | 99 | 15 | 13 | 4 | 0 | 32 | 267 |
| Grand Total | 27 | 1015 | 10 | 0 | 1052 | 9 | 90 | 217 | 0 | 316 | 127 | 614 | 124 | 1 | 866 | 285 | 124 | 29 | 0 | 438 | 2672 |
| Apprch % | 2.6 | 96.5 | 1 | 0 | | 2.8 | 28.5 | 68.7 | 0 | | 14.7 | 70.9 | 14.3 | 0.1 | | 65.1 | 28.3 | 6.6 | 0 | | |
| Total % | 1 | 38 | 0.4 | 0 | 39.4 | 0.3 | 3.4 | 8.1 | 0 | 11.8 | 4.8 | 23 | 4.6 | 0 | 32.4 | 10.7 | 4.6 | 1.1 | 0 | 16.4 | |

LSC Transportation Consultants, Inc.

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

File Name : hwy 24 - judge orr rd am
 Site Code : S214950
 Start Date : 5/10/2022
 Page No : 2

| Start Time | Hwy 24 Southbound | | | | | Judge Orr Rd Westbound | | | | | Hwy 24 Northbound | | | | | Judge Orr Rd Eastbound | | | | | Int. Total |
|--|-------------------|------|------|------|------------|------------------------|------|------|------|------------|-------------------|------|------|------|------------|------------------------|------|------|------|------------|------------|
| | 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 6:30:00 AM to 8:15:00 AM - Peak 1 of 1 | | | | | | | | | | | | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 6:45:00 AM | | | | | | | | | | | | | | | | | | | | | |
| 6:45:00 AM | 4 | 173 | 3 | 0 | 180 | 0 | 10 | 20 | 0 | 30 | 18 | 92 | 8 | 0 | 118 | 34 | 10 | 4 | 0 | 48 | 376 |
| 7:00:00 AM | 2 | 132 | 0 | 0 | 134 | 3 | 7 | 39 | 0 | 49 | 18 | 98 | 23 | 0 | 139 | 50 | 16 | 9 | 0 | 75 | 397 |
| 7:15:00 AM | 3 | 137 | 2 | 0 | 142 | 1 | 23 | 26 | 0 | 50 | 19 | 82 | 18 | 0 | 119 | 43 | 16 | 2 | 0 | 61 | 372 |
| 7:30:00 AM | 9 | 137 | 2 | 0 | 148 | 0 | 17 | 30 | 0 | 47 | 9 | 71 | 24 | 0 | 104 | 51 | 20 | 0 | 0 | 71 | 370 |
| Total Volume | 18 | 579 | 7 | 0 | 604 | 4 | 57 | 115 | 0 | 176 | 64 | 343 | 73 | 0 | 480 | 178 | 62 | 15 | 0 | 255 | 1515 |
| % App. Total | 3 | 95.9 | 1.2 | 0 | | 2.3 | 32.4 | 65.3 | 0 | | 13.3 | 71.5 | 15.2 | 0 | | 69.8 | 24.3 | 5.9 | 0 | | |
| PHF | .500 | .837 | .583 | .000 | .839 | .333 | .620 | .737 | .000 | .880 | .842 | .875 | .760 | .000 | .863 | .873 | .775 | .417 | .000 | .850 | .954 |

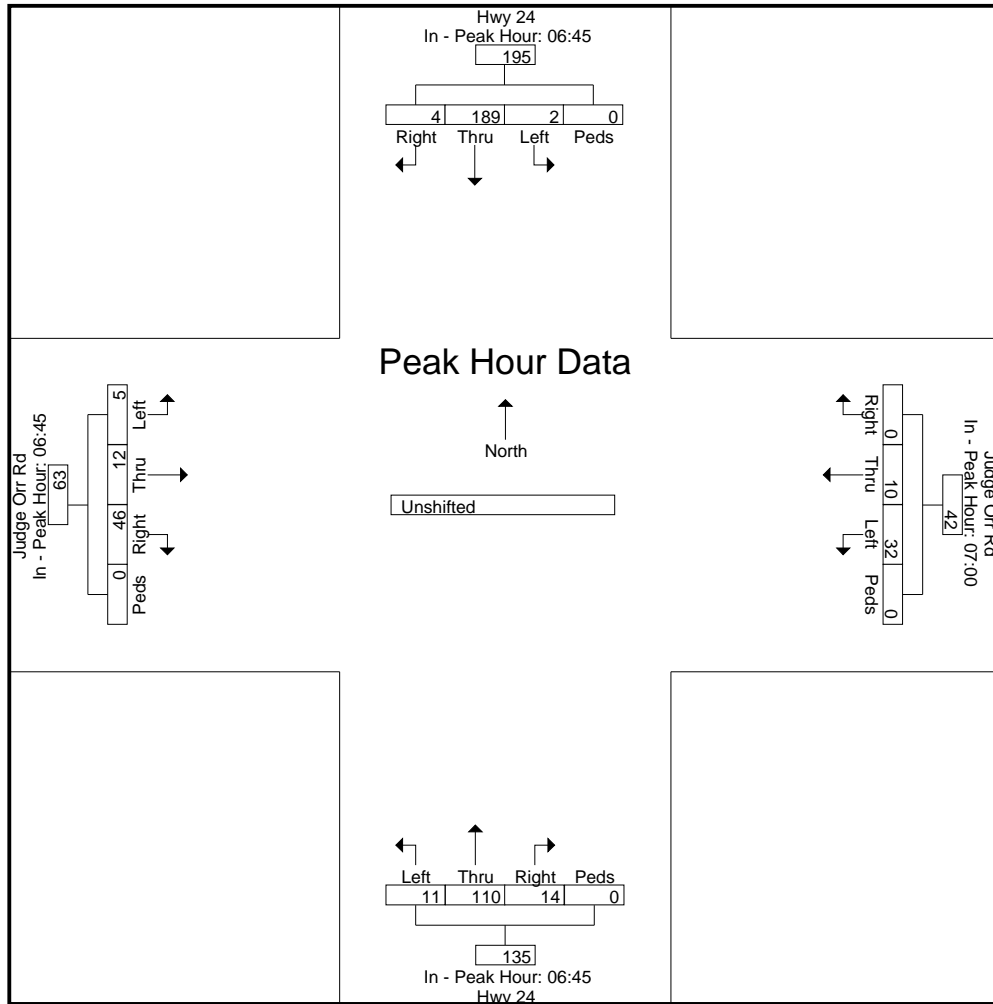


LSC Transportation Consultants, Inc.

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

File Name : hwy 24 - judge orr rd am
 Site Code : S214950
 Start Date : 5/10/2022
 Page No : 3

| Start Time | Hwy 24 Southbound | | | | | Judge Orr Rd Westbound | | | | | Hwy 24 Northbound | | | | | Judge Orr Rd Eastbound | | | | | Int. Total |
|--|-------------------|------|------|------|------------|------------------------|------|------|------|------------|-------------------|------|------|------|------------|------------------------|------|------|------|------------|------------|
| | 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 6:30:00 AM to 8:15:00 AM - Peak 1 of 1 | | | | | | | | | | | | | | | | | | | | | |
| Peak Hour for Each Approach Begins at: | | | | | | | | | | | | | | | | | | | | | |
| | 6:45:00 AM | | | | | 7:00:00 AM | | | | | 6:45:00 AM | | | | | 6:45:00 AM | | | | | |
| +0 mins. | 4 | 173 | 3 | 0 | 180 | 3 | 7 | 39 | 0 | 49 | 18 | 92 | 8 | 0 | 118 | 34 | 10 | 4 | 0 | 48 | |
| +5 mins. | 2 | 132 | 0 | 0 | 134 | 1 | 23 | 26 | 0 | 50 | 18 | 98 | 23 | 0 | 139 | 50 | 16 | 9 | 0 | 75 | |
| +10 mins. | 3 | 137 | 2 | 0 | 142 | 0 | 17 | 30 | 0 | 47 | 19 | 82 | 18 | 0 | 119 | 43 | 16 | 2 | 0 | 61 | |
| +15 mins. | 9 | 137 | 2 | 0 | 148 | 1 | 15 | 15 | 0 | 31 | 9 | 71 | 24 | 0 | 104 | 51 | 20 | 0 | 0 | 71 | |
| Total Volume | 18 | 579 | 7 | 0 | 604 | 5 | 62 | 110 | 0 | 177 | 64 | 343 | 73 | 0 | 480 | 178 | 62 | 15 | 0 | 255 | |
| % App. Total | 3 | 95.9 | 1.2 | 0 | | 2.8 | 35 | 62.1 | 0 | | 13.3 | 71.5 | 15.2 | 0 | | 69.8 | 24.3 | 5.9 | 0 | | |
| PHF | .500 | .837 | .583 | .000 | .839 | .417 | .674 | .705 | .000 | .885 | .842 | .875 | .760 | .000 | .863 | .873 | .775 | .417 | .000 | .850 | |



LSC Transportation Consultants, Inc.

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

File Name : Hwy 24 - Judge Orr Rd PM

Site Code : S214950

Start Date : 5/10/2022

Page No : 1

Groups Printed- Unshifted

| Start Time | Hwy 24 Southbound | | | | | Judge Orr Rd Westbound | | | | | Hwy 24 Northbound | | | | | Judge Orr Rd Eastbound | | | | | Int. Total |
|-------------|-------------------|------|------|------|------------|------------------------|------|------|------|------------|-------------------|------|------|------|------------|------------------------|------|------|------|------------|------------|
| | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | |
| 16:00 | 5 | 77 | 2 | 0 | 84 | 1 | 7 | 22 | 0 | 30 | 33 | 143 | 24 | 0 | 200 | 10 | 7 | 5 | 0 | 22 | 336 |
| 16:15 | 3 | 105 | 1 | 0 | 109 | 5 | 17 | 25 | 0 | 47 | 27 | 152 | 30 | 0 | 209 | 21 | 11 | 11 | 0 | 43 | 408 |
| 16:30 | 7 | 105 | 1 | 0 | 113 | 1 | 14 | 29 | 0 | 44 | 34 | 144 | 34 | 1 | 213 | 18 | 11 | 11 | 0 | 40 | 410 |
| 16:45 | 1 | 101 | 0 | 0 | 102 | 2 | 9 | 24 | 0 | 35 | 31 | 135 | 41 | 0 | 207 | 15 | 13 | 12 | 0 | 40 | 384 |
| Total | 16 | 388 | 4 | 0 | 408 | 9 | 47 | 100 | 0 | 156 | 125 | 574 | 129 | 1 | 829 | 64 | 42 | 39 | 0 | 145 | 1538 |
| 17:00 | 2 | 99 | 0 | 0 | 101 | 4 | 13 | 38 | 0 | 55 | 29 | 147 | 40 | 0 | 216 | 16 | 16 | 10 | 0 | 42 | 414 |
| 17:15 | 7 | 127 | 0 | 0 | 134 | 2 | 16 | 26 | 0 | 44 | 34 | 133 | 24 | 1 | 192 | 13 | 11 | 7 | 0 | 31 | 401 |
| 17:30 | 6 | 91 | 1 | 0 | 98 | 2 | 6 | 16 | 0 | 24 | 39 | 149 | 32 | 0 | 220 | 10 | 15 | 10 | 0 | 35 | 377 |
| 17:45 | 6 | 98 | 0 | 0 | 104 | 0 | 5 | 22 | 0 | 27 | 29 | 158 | 30 | 0 | 217 | 11 | 17 | 8 | 0 | 36 | 384 |
| Total | 21 | 415 | 1 | 0 | 437 | 8 | 40 | 102 | 0 | 150 | 131 | 587 | 126 | 1 | 845 | 50 | 59 | 35 | 0 | 144 | 1576 |
| Grand Total | 37 | 803 | 5 | 0 | 845 | 17 | 87 | 202 | 0 | 306 | 256 | 1161 | 255 | 2 | 1674 | 114 | 101 | 74 | 0 | 289 | 3114 |
| Apprch % | 4.4 | 95 | 0.6 | 0 | | 5.6 | 28.4 | 66 | 0 | | 15.3 | 69.4 | 15.2 | 0.1 | | 39.4 | 34.9 | 25.6 | 0 | | |
| Total % | 1.2 | 25.8 | 0.2 | 0 | 27.1 | 0.5 | 2.8 | 6.5 | 0 | 9.8 | 8.2 | 37.3 | 8.2 | 0.1 | 53.8 | 3.7 | 3.2 | 2.4 | 0 | 9.3 | |

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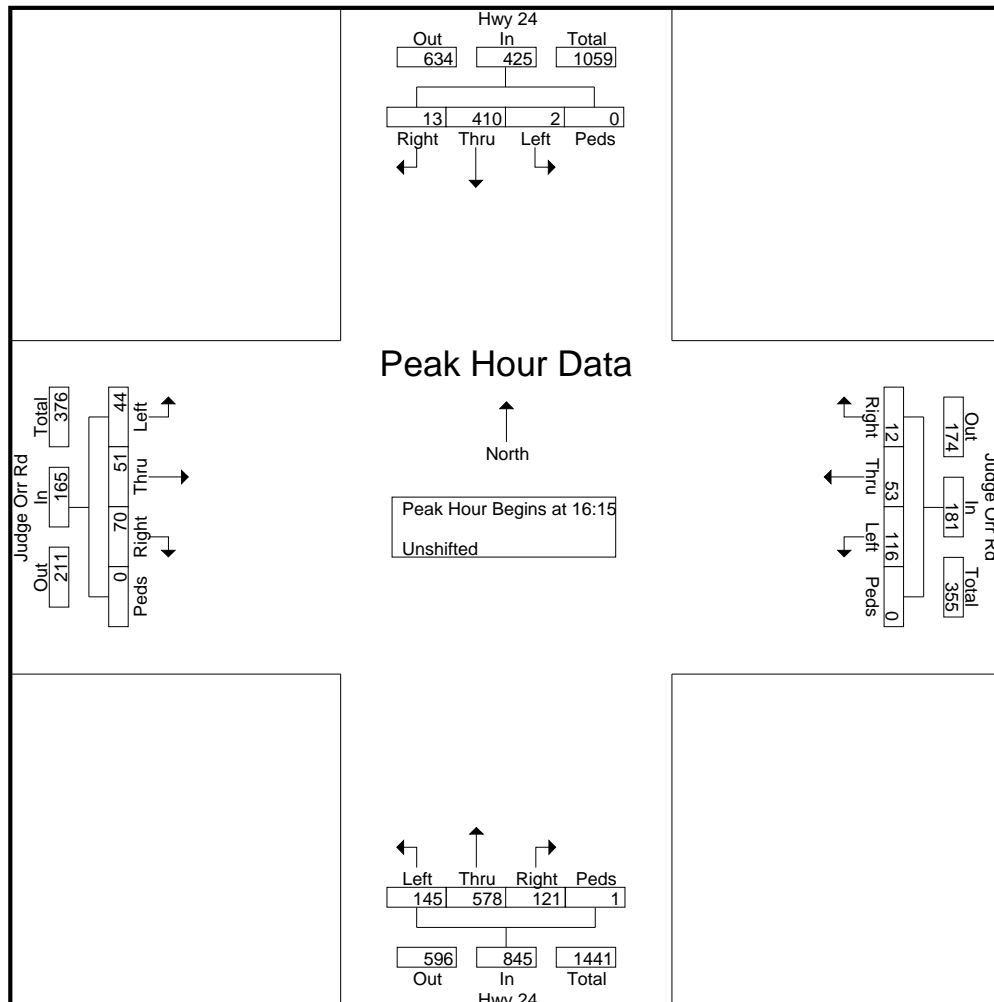
File Name : Hwy 24 - Judge Orr Rd PM

Site Code : S214950

Start Date : 5/10/2022

Page No : 2

| Start Time | Hwy 24 Southbound | | | | | Judge Orr Rd Westbound | | | | | Hwy 24 Northbound | | | | | Judge Orr Rd Eastbound | | | | | Int. Total |
|--|-------------------|------|------|------|------------|------------------------|------|------|------|------------|-------------------|------|------|------|------------|------------------------|------|------|------|------------|------------|
| | 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 4:00:00 PM to 5:45:00 PM - Peak 1 of 1 | | | | | | | | | | | | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 4:15:00 PM | | | | | | | | | | | | | | | | | | | | | |
| 4:15:00 PM | 3 | 105 | 1 | 0 | 109 | 5 | 17 | 25 | 0 | 47 | 27 | 152 | 30 | 0 | 209 | 21 | 11 | 11 | 0 | 43 | 408 |
| 4:30:00 PM | 7 | 105 | 1 | 0 | 113 | 1 | 14 | 29 | 0 | 44 | 34 | 144 | 34 | 1 | 213 | 18 | 11 | 11 | 0 | 40 | 410 |
| 4:45:00 PM | 1 | 101 | 0 | 0 | 102 | 2 | 9 | 24 | 0 | 35 | 31 | 135 | 41 | 0 | 207 | 15 | 13 | 12 | 0 | 40 | 384 |
| 5:00:00 PM | 2 | 99 | 0 | 0 | 101 | 4 | 13 | 38 | 0 | 55 | 29 | 147 | 40 | 0 | 216 | 16 | 16 | 10 | 0 | 42 | 414 |
| Total Volume | 13 | 410 | 2 | 0 | 425 | 12 | 53 | 116 | 0 | 181 | 121 | 578 | 145 | 1 | 845 | 70 | 51 | 44 | 0 | 165 | 1616 |
| % App. Total | 3.1 | 96.5 | 0.5 | 0 | | 6.6 | 29.3 | 64.1 | 0 | | 14.3 | 68.4 | 17.2 | 0.1 | | 42.4 | 30.9 | 26.7 | 0 | | |
| PHF | .464 | .976 | .500 | .000 | .940 | .600 | .779 | .763 | .000 | .823 | .890 | .951 | .884 | .250 | .978 | .833 | .797 | .917 | .000 | .959 | .976 |



LSC Transportation Consultants, Inc.

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

File Name : Hwy 24 - Judge Orr Rd PM

Site Code : S214950

Start Date : 5/10/2022

Page No : 3

| Start Time | Hwy 24 Southbound | | | | | Judge Orr Rd Westbound | | | | | Hwy 24 Northbound | | | | | Judge Orr Rd Eastbound | | | | | Int. Total |
|------------|-------------------|------|------|------|------------|------------------------|------|------|------|------------|-------------------|------|------|------|------------|------------------------|------|------|------|------------|------------|
| | 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 4:00:00 PM to 5:45:00 PM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

| | 4:30:00 PM | | | | | 4:15:00 PM | | | | | 4:15:00 PM | | | | | 4:15:00 PM | | | | |
|--------------|------------|------------|----------|------|------------|------------|-----------|-----------|------|-----------|------------|------------|-----------|----------|------------|------------|-----------|-----------|------|-----------|
| +0 mins. | 7 | 105 | 1 | 0 | 113 | 5 | 17 | 25 | 0 | 47 | 27 | 152 | 30 | 0 | 209 | 21 | 11 | 11 | 0 | 43 |
| +5 mins. | 1 | 101 | 0 | 0 | 102 | 1 | 14 | 29 | 0 | 44 | 34 | 144 | 34 | 1 | 213 | 18 | 11 | 11 | 0 | 40 |
| +10 mins. | 2 | 99 | 0 | 0 | 101 | 2 | 9 | 24 | 0 | 35 | 31 | 135 | 41 | 0 | 207 | 15 | 13 | 12 | 0 | 40 |
| +15 mins. | 7 | 127 | 0 | 0 | 134 | 4 | 13 | 38 | 0 | 55 | 29 | 147 | 40 | 0 | 216 | 16 | 16 | 10 | 0 | 42 |
| Total Volume | 17 | 432 | 1 | 0 | 450 | 12 | 53 | 116 | 0 | 181 | 121 | 578 | 145 | 1 | 845 | 70 | 51 | 44 | 0 | 165 |
| % App. Total | 3.8 | 96 | 0.2 | 0 | | 6.6 | 29.3 | 64.1 | 0 | | 14.3 | 68.4 | 17.2 | 0.1 | | 42.4 | 30.9 | 26.7 | 0 | |
| PHF | .607 | .850 | .250 | .000 | .840 | .600 | .779 | .763 | .000 | .823 | .890 | .951 | .884 | .250 | .978 | .833 | .797 | .917 | .000 | .959 |

LSC Transportation Consultants, Inc.

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

File Name : Hwy 24 - New Meridian Rd AM
 Site Code : S214620
 Start Date : 8/5/2021
 Page No : 1

Groups Printed- Unshifted

| Start Time | Hwy 24 Southbound | | | | | New Meridian Rd Westbound | | | | | Hwy 24 Northbound | | | | | New Meridian Rd Eastbound | | | | | Int. Total |
|-------------|-------------------|------|---|---|------------|---------------------------|------|------|---|------------|-------------------|------|-----|---|------------|---------------------------|-----|------|-----|------------|------------|
| | L | T | R | U | App. Total | L | T | R | U | App. Total | L | T | R | U | App. Total | L | T | R | U | App. Total | |
| 06:30 AM | 9 | 173 | 0 | 0 | 182 | 1 | 36 | 7 | 0 | 44 | 30 | 109 | 2 | 0 | 141 | 1 | 22 | 93 | 0 | 116 | 483 |
| 06:45 AM | 10 | 213 | 0 | 0 | 223 | 0 | 28 | 10 | 0 | 38 | 21 | 109 | 4 | 0 | 134 | 0 | 1 | 120 | 0 | 121 | 516 |
| Total | 19 | 386 | 0 | 0 | 405 | 1 | 64 | 17 | 0 | 82 | 51 | 218 | 6 | 0 | 275 | 1 | 23 | 213 | 0 | 237 | 999 |
| 07:00 AM | 3 | 171 | 0 | 0 | 174 | 0 | 44 | 10 | 0 | 54 | 15 | 92 | 4 | 0 | 111 | 0 | 4 | 126 | 1 | 131 | 470 |
| 07:15 AM | 2 | 201 | 0 | 0 | 203 | 0 | 2 | 1 | 0 | 3 | 44 | 118 | 1 | 0 | 163 | 0 | 0 | 169 | 0 | 169 | 538 |
| Grand Total | 24 | 758 | 0 | 0 | 782 | 1 | 110 | 28 | 0 | 139 | 110 | 428 | 11 | 0 | 549 | 1 | 27 | 508 | 1 | 537 | 2007 |
| Apprch % | 3.1 | 96.9 | 0 | 0 | | 0.7 | 79.1 | 20.1 | 0 | | 20 | 78 | 2 | 0 | | 0.2 | 5 | 94.6 | 0.2 | | |
| Total % | 1.2 | 37.8 | 0 | 0 | 39 | 0 | 5.5 | 1.4 | 0 | 6.9 | 5.5 | 21.3 | 0.5 | 0 | 27.4 | 0 | 1.3 | 25.3 | 0 | 26.8 | |

LSC Transportation Consultants, Inc.

2504 E. Pikes Peak Ave, Suite 304
 Colorado Springs, CO 80909
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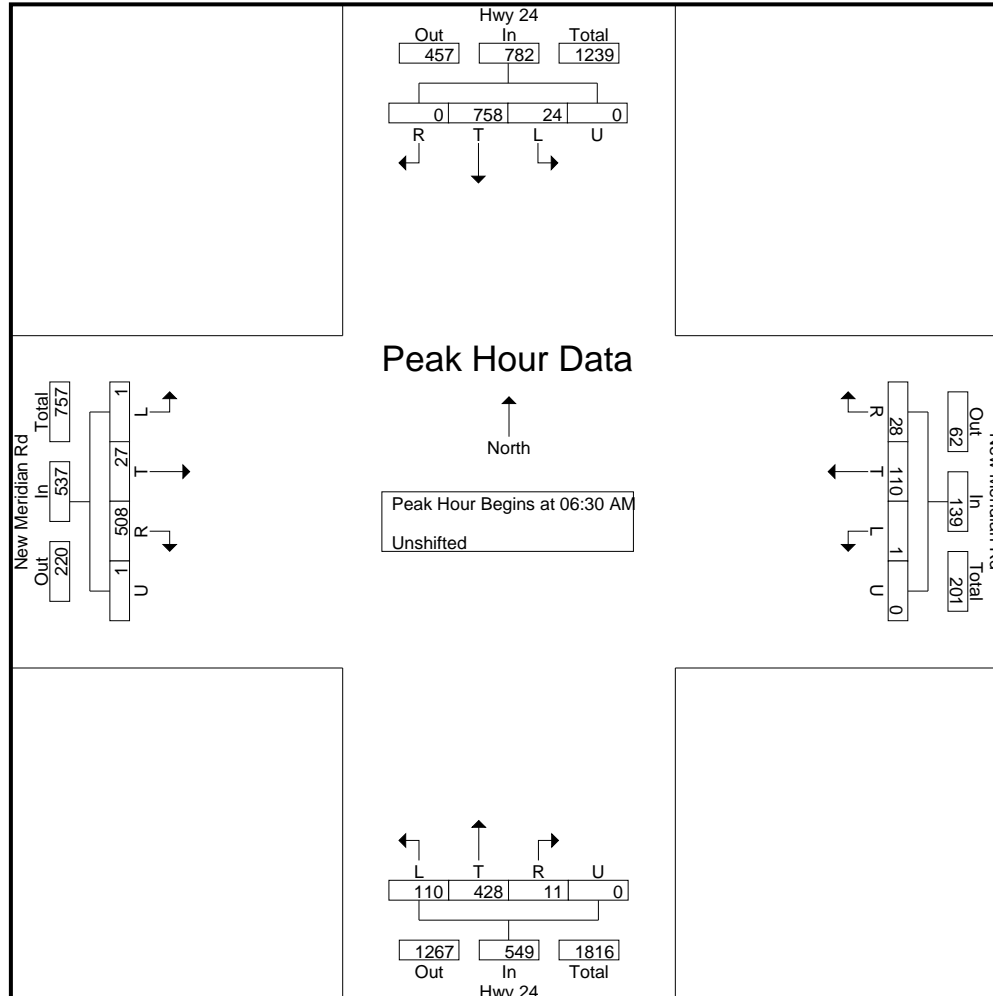
File Name : Hwy 24 - New Meridian Rd AM
 Site Code : S214620
 Start Date : 8/5/2021
 Page No : 2

| Start Time | Hwy 24 Southbound | | | | | New Meridian Rd Westbound | | | | | Hwy 24 Northbound | | | | | New Meridian Rd Eastbound | | | | | Int. Total |
|---|-------------------|------|------|------|------------|---------------------------|------|------|------|------------|-------------------|------|------|------|------------|---------------------------|------|------|------|------------|------------|
| | L | T | R | U | App. Total | L | T | R | U | App. Total | L | T | R | U | App. Total | L | T | R | U | App. Total | |
| Peak Hour Analysis From 6:30:00 AM to 7:15:00 AM - Peak 1 of 1 | | | | | | | | | | | | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 6:30:00 AM | | | | | | | | | | | | | | | | | | | | | |
| 6:30:00 AM | 9 | 173 | 0 | 0 | 182 | 1 | 36 | 7 | 0 | 44 | 30 | 109 | 2 | 0 | 141 | 1 | 22 | 93 | 0 | 116 | 483 |
| 6:45:00 AM | 10 | 213 | 0 | 0 | 223 | 0 | 28 | 10 | 0 | 38 | 21 | 109 | 4 | 0 | 134 | 0 | 1 | 120 | 0 | 121 | 516 |
| 7:00:00 AM | 3 | 171 | 0 | 0 | 174 | 0 | 44 | 10 | 0 | 54 | 15 | 92 | 4 | 0 | 111 | 0 | 4 | 126 | 1 | 131 | 470 |
| 7:15:00 AM | 2 | 201 | 0 | 0 | 203 | 0 | 2 | 1 | 0 | 3 | 44 | 118 | 1 | 0 | 163 | 0 | 0 | 169 | 0 | 169 | 538 |
| Total Volume | 24 | 758 | 0 | 0 | 782 | 1 | 110 | 28 | 0 | 139 | 110 | 428 | 11 | 0 | 549 | 1 | 27 | 508 | 1 | 537 | 2007 |
| % App. Total | 3.1 | 96.9 | 0 | 0 | | 0.7 | 79.1 | 20.1 | 0 | | 20 | 78 | 2 | 0 | | 0.2 | 5 | 94.6 | 0.2 | | |
| PHF | .600 | .890 | .000 | .000 | .877 | .250 | .625 | .700 | .000 | .644 | .625 | .907 | .688 | .000 | .842 | .250 | .307 | .751 | .250 | .794 | .933 |

LSC Transportation Consultants, Inc.

2504 E. Pikes Peak Ave, Suite 304
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File Name : Hwy 24 - New Meridian Rd AM
 Site Code : S214620
 Start Date : 8/5/2021
 Page No : 3



LSC Transportation Consultants, Inc.

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

File Name : Hwy 24 - New Meridian Rd AM
 Site Code : S214620
 Start Date : 8/5/2021
 Page No : 4

| Start Time | Hwy 24 Southbound | | | | | New Meridian Rd Westbound | | | | | Hwy 24 Northbound | | | | | New Meridian Rd Eastbound | | | | | Int. Total |
|------------|-------------------|---|---|---|------------|---------------------------|---|---|---|------------|-------------------|---|---|---|------------|---------------------------|---|---|---|------------|------------|
| | L | T | R | U | App. Total | L | T | R | U | App. Total | L | T | R | U | App. Total | L | T | R | U | App. Total | |

Peak Hour Analysis From 6:30:00 AM to 7:15:00 AM - Peak 1 of 1

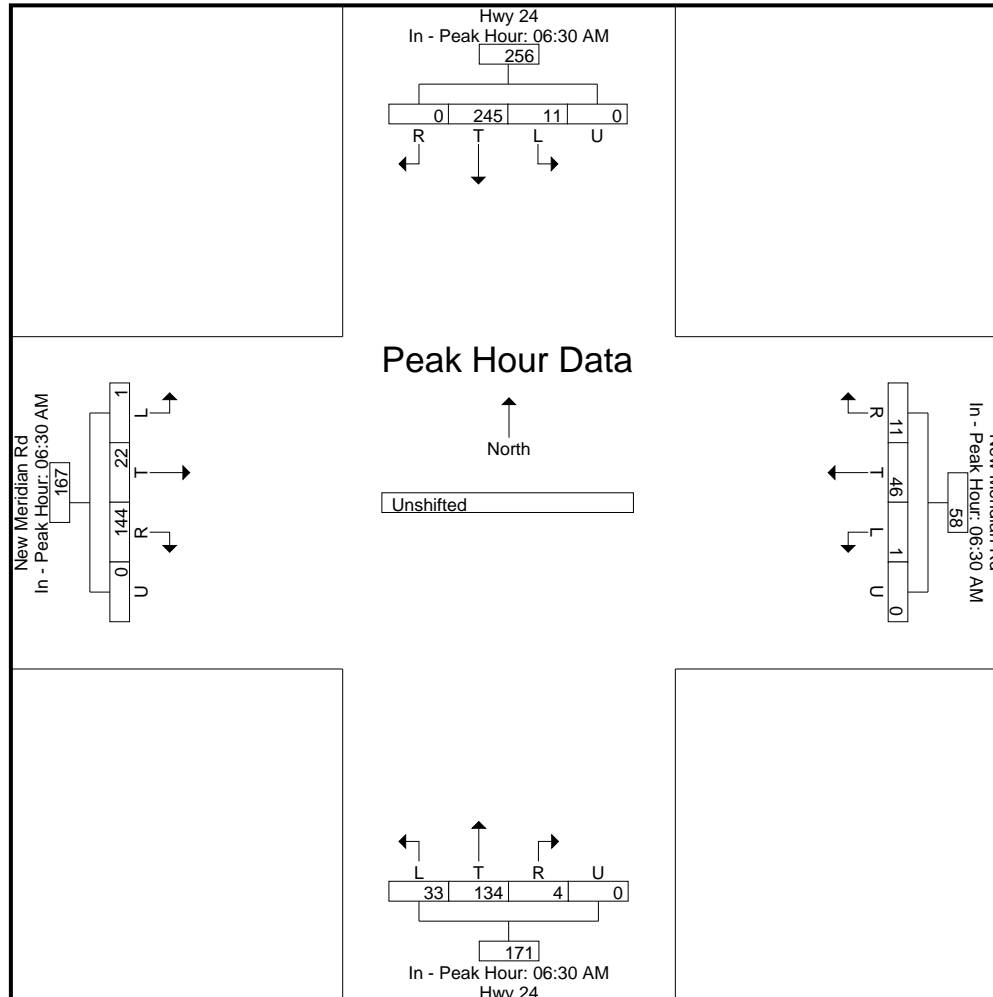
Peak Hour for Each Approach Begins at:

| | 6:30:00 AM | | | | | 6:30:00 AM | | | | | 6:30:00 AM | | | | | 6:30:00 AM | | | | |
|--------------|------------|------------|------|------|------------|------------|-----------|-----------|------|-----------|------------|------------|----------|------|------------|------------|-----------|------------|----------|------------|
| +0 mins. | 9 | 173 | 0 | 0 | 182 | 1 | 36 | 7 | 0 | 44 | 30 | 109 | 2 | 0 | 141 | 1 | 22 | 93 | 0 | 116 |
| +5 mins. | 10 | 213 | 0 | 0 | 223 | 0 | 28 | 10 | 0 | 38 | 21 | 109 | 4 | 0 | 134 | 0 | 1 | 120 | 0 | 121 |
| +10 mins. | 3 | 171 | 0 | 0 | 174 | 0 | 44 | 10 | 0 | 54 | 15 | 92 | 4 | 0 | 111 | 0 | 4 | 126 | 1 | 131 |
| +15 mins. | 2 | 201 | 0 | 0 | 203 | 0 | 2 | 1 | 0 | 3 | 44 | 118 | 1 | 0 | 163 | 0 | 0 | 169 | 0 | 169 |
| Total Volume | 24 | 758 | 0 | 0 | 782 | 1 | 110 | 28 | 0 | 139 | 110 | 428 | 11 | 0 | 549 | 1 | 27 | 508 | 1 | 537 |
| % App. Total | 3.1 | 96.9 | 0 | 0 | | 0.7 | 79.1 | 20.1 | 0 | | 20 | 78 | 2 | 0 | | 0.2 | 5 | 94.6 | 0.2 | |
| PHF | .600 | .890 | .000 | .000 | .877 | .250 | .625 | .700 | .000 | .644 | .625 | .907 | .688 | .000 | .842 | .250 | .307 | .751 | .250 | .794 |

LSC Transportation Consultants, Inc.

2504 E. Pikes Peak Ave, Suite 304
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File Name : Hwy 24 - New Meridian Rd AM
 Site Code : S214620
 Start Date : 8/5/2021
 Page No : 5



LSC Transportation Consultants, Inc.

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

File Name : Hwy 24 - New Meridian Rd PM
 Site Code : S214620
 Start Date : 8/4/2021
 Page No : 1

Groups Printed- Unshifted

| Start Time | Hwy 24 Southbound | | | | | New Meridian Rd Westbound | | | | | Hwy 24 Northbound | | | | | New Meridian Rd Eastbound | | | | | Int. Total |
|-------------|-------------------|------|-----|---|------------|---------------------------|------|------|---|------------|-------------------|------|-----|---|------------|---------------------------|------|------|-----|------------|------------|
| | L | T | R | U | App. Total | L | T | R | U | App. Total | L | T | R | U | App. Total | L | T | R | U | App. Total | |
| 04:00 PM | 18 | 138 | 0 | 0 | 156 | 1 | 61 | 22 | 0 | 84 | 62 | 156 | 0 | 0 | 218 | 4 | 30 | 43 | 0 | 77 | 535 |
| 04:15 PM | 9 | 139 | 2 | 0 | 150 | 0 | 72 | 29 | 0 | 101 | 60 | 149 | 1 | 0 | 210 | 4 | 37 | 37 | 0 | 78 | 539 |
| 04:30 PM | 17 | 105 | 1 | 0 | 123 | 0 | 91 | 17 | 0 | 108 | 88 | 161 | 0 | 0 | 249 | 4 | 40 | 42 | 0 | 86 | 566 |
| 04:45 PM | 11 | 139 | 0 | 0 | 150 | 1 | 82 | 12 | 0 | 95 | 63 | 145 | 0 | 0 | 208 | 4 | 41 | 38 | 3 | 86 | 539 |
| Total | 55 | 521 | 3 | 0 | 579 | 2 | 306 | 80 | 0 | 388 | 273 | 611 | 1 | 0 | 885 | 16 | 148 | 160 | 3 | 327 | 2179 |
| 05:00 PM | 14 | 109 | 0 | 0 | 123 | 0 | 91 | 27 | 0 | 118 | 79 | 150 | 0 | 0 | 229 | 5 | 41 | 48 | 0 | 94 | 564 |
| 05:15 PM | 6 | 114 | 1 | 0 | 121 | 0 | 52 | 26 | 0 | 78 | 78 | 162 | 0 | 0 | 240 | 3 | 32 | 42 | 1 | 78 | 517 |
| 05:30 PM | 11 | 89 | 4 | 0 | 104 | 1 | 81 | 14 | 0 | 96 | 76 | 156 | 0 | 0 | 232 | 1 | 55 | 44 | 0 | 100 | 532 |
| 05:45 PM | 22 | 119 | 1 | 0 | 142 | 1 | 45 | 10 | 0 | 56 | 81 | 174 | 0 | 0 | 255 | 2 | 52 | 33 | 0 | 87 | 540 |
| Total | 53 | 431 | 6 | 0 | 490 | 2 | 269 | 77 | 0 | 348 | 314 | 642 | 0 | 0 | 956 | 11 | 180 | 167 | 1 | 359 | 2153 |
| Grand Total | 108 | 952 | 9 | 0 | 1069 | 4 | 575 | 157 | 0 | 736 | 587 | 1253 | 1 | 0 | 1841 | 27 | 328 | 327 | 4 | 686 | 4332 |
| Apprch % | 10.1 | 89.1 | 0.8 | 0 | | 0.5 | 78.1 | 21.3 | 0 | | 31.9 | 68.1 | 0.1 | 0 | | 3.9 | 47.8 | 47.7 | 0.6 | | |
| Total % | 2.5 | 22 | 0.2 | 0 | 24.7 | 0.1 | 13.3 | 3.6 | 0 | 17 | 13.6 | 28.9 | 0 | 0 | 42.5 | 0.6 | 7.6 | 7.5 | 0.1 | 15.8 | |

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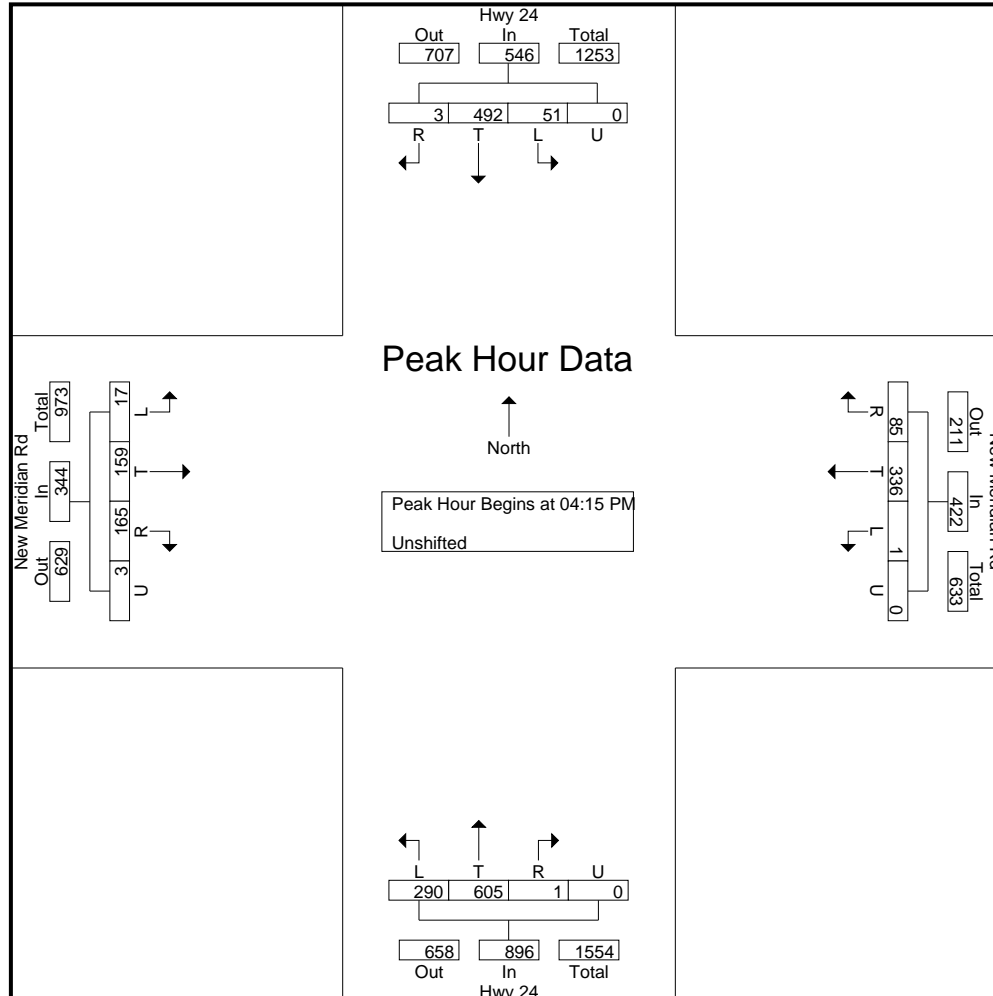
File Name : Hwy 24 - New Meridian Rd PM
 Site Code : S214620
 Start Date : 8/4/2021
 Page No : 2

| Start Time | Hwy 24 Southbound | | | | | New Meridian Rd Westbound | | | | | Hwy 24 Northbound | | | | | New Meridian Rd Eastbound | | | | | Int. Total |
|---|-------------------|------------|----------|------|------------|---------------------------|-----------|-----------|------|------------|-------------------|------------|----------|------|------------|---------------------------|-----------|-----------|----------|------------|------------|
| | L | T | R | U | App. Total | L | T | R | U | App. Total | L | T | R | U | App. Total | L | T | R | U | App. 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 4:15:00 PM | | | | | | | | | | | | | | | | | | | | | |
| 4:15:00 PM | 9 | 139 | 2 | 0 | 150 | 0 | 72 | 29 | 0 | 101 | 60 | 149 | 1 | 0 | 210 | 4 | 37 | 37 | 0 | 78 | 539 |
| 4:30:00 PM | 17 | 105 | 1 | 0 | 123 | 0 | 91 | 17 | 0 | 108 | 88 | 161 | 0 | 0 | 249 | 4 | 40 | 42 | 0 | 86 | 566 |
| 4:45:00 PM | 11 | 139 | 0 | 0 | 150 | 1 | 82 | 12 | 0 | 95 | 63 | 145 | 0 | 0 | 208 | 4 | 41 | 38 | 3 | 86 | 539 |
| 5:00:00 PM | 14 | 109 | 0 | 0 | 123 | 0 | 91 | 27 | 0 | 118 | 79 | 150 | 0 | 0 | 229 | 5 | 41 | 48 | 0 | 94 | 564 |
| Total Volume | 51 | 492 | 3 | 0 | 546 | 1 | 336 | 85 | 0 | 422 | 290 | 605 | 1 | 0 | 896 | 17 | 159 | 165 | 3 | 344 | 2208 |
| % App. Total | 9.3 | 90.1 | 0.5 | 0 | | 0.2 | 79.6 | 20.1 | 0 | | 32.4 | 67.5 | 0.1 | 0 | | 4.9 | 46.2 | 48 | 0.9 | | |
| PHF | .750 | .885 | .375 | .000 | .910 | .250 | .923 | .733 | .000 | .894 | .824 | .939 | .250 | .000 | .900 | .850 | .970 | .859 | .250 | .915 | .975 |

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File Name : Hwy 24 - New Meridian Rd PM
 Site Code : S214620
 Start Date : 8/4/2021
 Page No : 4

| Start Time | Hwy 24 Southbound | | | | | New Meridian Rd Westbound | | | | | Hwy 24 Northbound | | | | | New Meridian Rd Eastbound | | | | | Int. Total |
|------------|-------------------|---|---|---|------------|---------------------------|---|---|---|------------|-------------------|---|---|---|------------|---------------------------|---|---|---|------------|------------|
| | L | T | R | U | App. Total | L | T | R | U | App. Total | L | T | R | U | App. Total | L | T | R | U | App. Total | |

Peak Hour Analysis From 4:00:00 PM to 5:45:00 PM - Peak 1 of 1

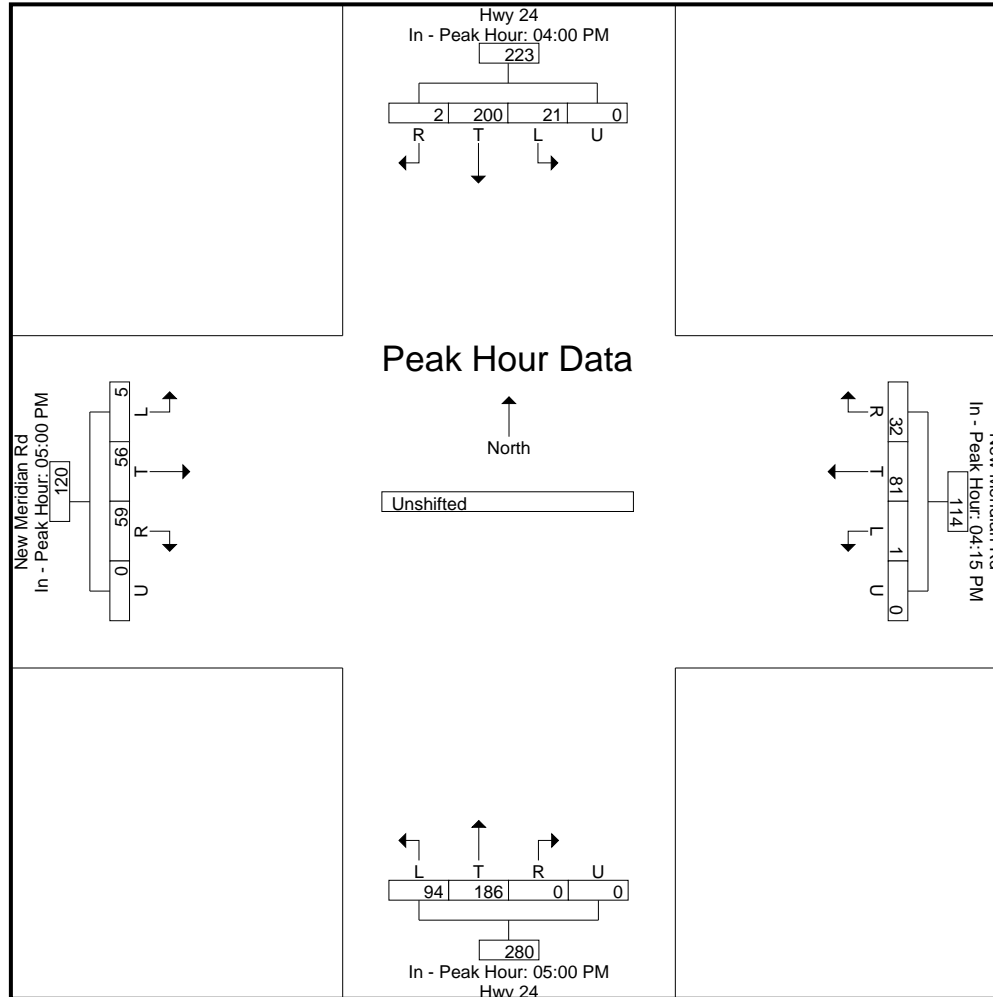
Peak Hour for Each Approach Begins at:

| | 4:00:00 PM | | | | | 4:15:00 PM | | | | | 5:00:00 PM | | | | | 5:00:00 PM | | | | |
|--------------|------------|------------|----------|------|------------|------------|-----------|-----------|------|------------|------------|------------|------|------|------------|------------|-----------|-----------|----------|------------|
| +0 mins. | 18 | 138 | 0 | 0 | 156 | 0 | 72 | 29 | 0 | 101 | 79 | 150 | 0 | 0 | 229 | 5 | 41 | 48 | 0 | 94 |
| +5 mins. | 9 | 139 | 2 | 0 | 150 | 0 | 91 | 17 | 0 | 108 | 78 | 162 | 0 | 0 | 240 | 3 | 32 | 42 | 1 | 78 |
| +10 mins. | 17 | 105 | 1 | 0 | 123 | 1 | 82 | 12 | 0 | 95 | 76 | 156 | 0 | 0 | 232 | 1 | 55 | 44 | 0 | 100 |
| +15 mins. | 11 | 139 | 0 | 0 | 150 | 0 | 91 | 27 | 0 | 118 | 81 | 174 | 0 | 0 | 255 | 2 | 52 | 33 | 0 | 87 |
| Total Volume | 55 | 521 | 3 | 0 | 579 | 1 | 336 | 85 | 0 | 422 | 314 | 642 | 0 | 0 | 956 | 11 | 180 | 167 | 1 | 359 |
| % App. Total | 9.5 | 90 | 0.5 | 0 | | 0.2 | 79.6 | 20.1 | 0 | | 32.8 | 67.2 | 0 | 0 | | 3.1 | 50.1 | 46.5 | 0.3 | |
| PHF | .764 | .937 | .375 | .000 | .928 | .250 | .923 | .733 | .000 | .894 | .969 | .922 | .000 | .000 | .937 | .550 | .818 | .870 | .250 | .898 |

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File Name : Hwy 24 - New Meridian Rd PM
 Site Code : S214620
 Start Date : 8/4/2021
 Page No : 5



Levels of Service



| Intersection | | | | | | | | | | | | |
|--------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Int Delay, s/veh | 10.4 | | | | | | | | | | | |
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations | ↙ | ↑ | ↗ | ↙ | ↑ | ↗ | ↙ | ↑ | ↗ | ↙ | ↑ | ↗ |
| Traffic Vol, veh/h | 8 | 44 | 186 | 14 | 209 | 41 | 56 | 75 | 2 | 9 | 240 | 17 |
| Future Vol, veh/h | 8 | 44 | 186 | 14 | 209 | 41 | 56 | 75 | 2 | 9 | 240 | 17 |
| 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 | 275 | - | 275 | 280 | - | - | 380 | - | - | 325 | - | - |
| Veh in Median Storage, # | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Grade, % | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Peak Hour Factor | 87 | 87 | 87 | 92 | 92 | 92 | 87 | 87 | 87 | 92 | 92 | 92 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 9 | 51 | 214 | 15 | 227 | 45 | 64 | 86 | 2 | 10 | 261 | 18 |

| Major/Minor | Major1 | | | Major2 | | | Minor1 | | | Minor2 | | |
|----------------------|--------|---|---|--------|---|---|--------|-------|-------|--------|-------|-------|
| Conflicting Flow All | 272 | 0 | 0 | 265 | 0 | 0 | 488 | 371 | 51 | 500 | 563 | 250 |
| Stage 1 | - | - | - | - | - | - | 69 | 69 | - | 280 | 280 | - |
| Stage 2 | - | - | - | - | - | - | 419 | 302 | - | 220 | 283 | - |
| Critical Hdwy | 4.12 | - | - | 4.12 | - | - | 7.12 | 6.52 | 6.22 | 7.12 | 6.52 | 6.22 |
| Critical Hdwy Stg 1 | - | - | - | - | - | - | 6.12 | 5.52 | - | 6.12 | 5.52 | - |
| Critical Hdwy Stg 2 | - | - | - | - | - | - | 6.12 | 5.52 | - | 6.12 | 5.52 | - |
| Follow-up Hdwy | 2.218 | - | - | 2.218 | - | - | 3.518 | 4.018 | 3.318 | 3.518 | 4.018 | 3.318 |
| Pot Cap-1 Maneuver | 1291 | - | - | 1299 | - | - | 490 | 559 | 1017 | 481 | 435 | 789 |
| Stage 1 | - | - | - | - | - | - | 941 | 837 | - | 727 | 679 | - |
| Stage 2 | - | - | - | - | - | - | 612 | 664 | - | 782 | 677 | - |
| Platoon blocked, % | - | - | - | - | - | - | - | - | - | - | - | - |
| Mov Cap-1 Maneuver | 1291 | - | - | 1299 | - | - | 242 | 548 | 1017 | 416 | 427 | 789 |
| Mov Cap-2 Maneuver | - | - | - | - | - | - | 242 | 548 | - | 416 | 427 | - |
| Stage 1 | - | - | - | - | - | - | 934 | 831 | - | 722 | 671 | - |
| Stage 2 | - | - | - | - | - | - | 361 | 656 | - | 694 | 672 | - |

| Approach | EB | | | WB | | | NB | | | SB | | |
|----------------------|-----|--|--|-----|--|--|----|--|--|----|--|--|
| HCM Control Delay, s | 0.3 | | | 0.4 | | | 18 | | | 26 | | |
| HCM LOS | | | | | | | C | | | D | | |

| Minor Lane/Major Mvmt | NBLn1 | NBLn2 | EBL | EBT | EBR | WBL | WBT | WBR | SBLn1 | SBLn2 |
|-----------------------|-------|-------|-------|-----|-----|-------|-----|-----|-------|-------|
| Capacity (veh/h) | 242 | 555 | 1291 | - | - | 1299 | - | - | 416 | 440 |
| HCM Lane V/C Ratio | 0.266 | 0.159 | 0.007 | - | - | 0.012 | - | - | 0.024 | 0.635 |
| HCM Control Delay (s) | 25.2 | 12.7 | 7.8 | - | - | 7.8 | - | - | 13.9 | 26.4 |
| HCM Lane LOS | D | B | A | - | - | A | - | - | B | D |
| HCM 95th %tile Q(veh) | 1 | 0.6 | 0 | - | - | 0 | - | - | 0.1 | 4.3 |

| Intersection | | | | | | | | | | | | |
|--------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Int Delay, s/veh | 7 | | | | | | | | | | | |
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations | | ↖ | ↗ | ↖ | ↗ | | ↖ | ↗ | | ↖ | ↗ | |
| Traffic Vol, veh/h | 1 | 34 | 79 | 19 | 116 | 33 | 35 | 77 | 0 | 8 | 166 | 0 |
| Future Vol, veh/h | 1 | 34 | 79 | 19 | 116 | 33 | 35 | 77 | 0 | 8 | 166 | 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 | 245 | - | 0 | 235 | - | - | 265 | - | - | 265 | - | - |
| Veh in Median Storage, # | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Grade, % | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Peak Hour Factor | 83 | 83 | 83 | 87 | 87 | 87 | 83 | 83 | 83 | 87 | 87 | 87 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 1 | 41 | 95 | 22 | 133 | 38 | 42 | 93 | 0 | 9 | 191 | 0 |

| Major/Minor | Major1 | | | Major2 | | | Minor1 | | | Minor2 | | |
|----------------------|--------|---|---|--------|---|---|--------|-------|-------|--------|-------|-------|
| Conflicting Flow All | 171 | 0 | 0 | 136 | 0 | 0 | 335 | 258 | 41 | 333 | 334 | 152 |
| Stage 1 | - | - | - | - | - | - | 43 | 43 | - | 196 | 196 | - |
| Stage 2 | - | - | - | - | - | - | 292 | 215 | - | 137 | 138 | - |
| Critical Hdwy | 4.12 | - | - | 4.12 | - | - | 7.12 | 6.52 | 6.22 | 7.12 | 6.52 | 6.22 |
| Critical Hdwy Stg 1 | - | - | - | - | - | - | 6.12 | 5.52 | - | 6.12 | 5.52 | - |
| Critical Hdwy Stg 2 | - | - | - | - | - | - | 6.12 | 5.52 | - | 6.12 | 5.52 | - |
| Follow-up Hdwy | 2.218 | - | - | 2.218 | - | - | 3.518 | 4.018 | 3.318 | 3.518 | 4.018 | 3.318 |
| Pot Cap-1 Maneuver | 1406 | - | - | 1448 | - | - | 619 | 646 | 1030 | 620 | 586 | 894 |
| Stage 1 | - | - | - | - | - | - | 971 | 859 | - | 806 | 739 | - |
| Stage 2 | - | - | - | - | - | - | 716 | 725 | - | 866 | 782 | - |
| Platoon blocked, % | - | - | - | - | - | - | - | - | - | - | - | - |
| Mov Cap-1 Maneuver | 1406 | - | - | 1448 | - | - | 455 | 636 | 1030 | 544 | 577 | 894 |
| Mov Cap-2 Maneuver | - | - | - | - | - | - | 455 | 636 | - | 544 | 577 | - |
| Stage 1 | - | - | - | - | - | - | 970 | 858 | - | 805 | 728 | - |
| Stage 2 | - | - | - | - | - | - | 520 | 714 | - | 772 | 781 | - |

| Approach | EB | | | WB | | | NB | | | SB | | |
|----------------------|-----|--|--|-----|--|--|------|--|--|------|--|--|
| HCM Control Delay, s | 0.1 | | | 0.9 | | | 12.3 | | | 14.2 | | |
| HCM LOS | | | | | | | B | | | B | | |

| Minor Lane/Major Mvmt | NBLn1 | NBLn2 | EBL | EBT | EBR | WBL | WBT | WBR | SBLn1 | SBLn2 |
|-----------------------|-------|-------|-------|-----|-----|-------|-----|-----|-------|-------|
| Capacity (veh/h) | 455 | 636 | 1406 | - | - | 1448 | - | - | 544 | 577 |
| HCM Lane V/C Ratio | 0.093 | 0.146 | 0.001 | - | - | 0.015 | - | - | 0.017 | 0.331 |
| HCM Control Delay (s) | 13.7 | 11.6 | 7.6 | 0 | - | 7.5 | - | - | 11.7 | 14.3 |
| HCM Lane LOS | B | B | A | A | - | A | - | - | B | B |
| HCM 95th %tile Q(veh) | 0.3 | 0.5 | 0 | - | - | 0 | - | - | 0.1 | 1.4 |

| Intersection | | | | | | | | | | | | |
|--------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Int Delay, s/veh | 10.3 | | | | | | | | | | | |
| Movement | SEL | SET | SER | NWL | NWT | NWR | NEL | NET | NER | SWL | SWT | SWR |
| Lane Configurations | ↖ | ↗ | ↖ | ↖ | ↗ | ↖ | ↖ | ↗ | ↖ | ↖ | ↗ | ↖ |
| Traffic Vol, veh/h | 23 | 135 | 143 | 6 | 87 | 17 | 49 | 267 | 3 | 35 | 438 | 35 |
| Future Vol, veh/h | 23 | 135 | 143 | 6 | 87 | 17 | 49 | 267 | 3 | 35 | 438 | 35 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Stop | Stop | Stop | Stop | Free | Free | Free | Free | Free | Free |
| RT Channelized | - | - | None | - | - | None | - | - | None | - | - | None |
| Storage Length | 190 | - | 325 | 215 | - | - | 890 | - | 1000 | 790 | - | 790 |
| Veh in Median Storage, # | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Grade, % | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 83 | 83 | 83 | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 25 | 147 | 155 | 7 | 105 | 20 | 53 | 290 | 3 | 38 | 476 | 38 |

| Major/Minor | Minor2 | | Minor1 | | Major1 | | | Major2 | | | | |
|----------------------|--------|-------|--------|-------|--------|-------|-------|--------|---|-------|---|---|
| Conflicting Flow All | 1012 | 951 | 476 | 1118 | 986 | 290 | 514 | 0 | 0 | 293 | 0 | 0 |
| Stage 1 | 552 | 552 | - | 396 | 396 | - | - | - | - | - | - | - |
| Stage 2 | 460 | 399 | - | 722 | 590 | - | - | - | - | - | - | - |
| Critical Hdwy | 7.12 | 6.52 | 6.22 | 7.12 | 6.52 | 6.22 | 4.12 | - | - | 4.12 | - | - |
| Critical Hdwy Stg 1 | 6.12 | 5.52 | - | 6.12 | 5.52 | - | - | - | - | - | - | - |
| Critical Hdwy Stg 2 | 6.12 | 5.52 | - | 6.12 | 5.52 | - | - | - | - | - | - | - |
| Follow-up Hdwy | 3.518 | 4.018 | 3.318 | 3.518 | 4.018 | 3.318 | 2.218 | - | - | 2.218 | - | - |
| Pot Cap-1 Maneuver | 218 | 260 | 589 | 184 | 248 | 749 | 1052 | - | - | 1269 | - | - |
| Stage 1 | 518 | 515 | - | 629 | 604 | - | - | - | - | - | - | - |
| Stage 2 | 581 | 602 | - | 418 | 495 | - | - | - | - | - | - | - |
| Platoon blocked, % | - | - | - | - | - | - | - | - | - | - | - | - |
| Mov Cap-1 Maneuver | 128 | 240 | 589 | 66 | 229 | 749 | 1052 | - | - | 1269 | - | - |
| Mov Cap-2 Maneuver | 128 | 240 | - | 66 | 229 | - | - | - | - | - | - | - |
| Stage 1 | 492 | 500 | - | 598 | 574 | - | - | - | - | - | - | - |
| Stage 2 | 439 | 572 | - | 211 | 480 | - | - | - | - | - | - | - |

| Approach | SE | | NW | | NE | | SW | |
|----------------------|------|--|------|--|-----|--|-----|--|
| HCM Control Delay, s | 27.8 | | 31.5 | | 1.3 | | 0.5 | |
| HCM LOS | D | | D | | | | | |

| Minor Lane/Major Mvmt | NEL | NET | NERN | NWLn1 | NWLn2 | NWLn3 | SELn1 | SELn2 | SELn3 | SWL | SWT | SWR |
|-----------------------|-------|-----|------|-------|-------|-------|-------|-------|-------|------|-----|-----|
| Capacity (veh/h) | 1052 | - | - | 66 | 229 | 749 | 128 | 240 | 589 | 1269 | - | - |
| HCM Lane V/C Ratio | 0.051 | - | - | 0.11 | 0.458 | 0.027 | 0.195 | 0.611 | 0.264 | 0.03 | - | - |
| HCM Control Delay (s) | 8.6 | - | - | 66.1 | 33.3 | 9.9 | 39.8 | 41.1 | 13.3 | 7.9 | - | - |
| HCM Lane LOS | A | - | - | F | D | A | E | E | B | A | - | - |
| HCM 95th %tile Q(veh) | 0.2 | - | - | 0.4 | 2.2 | 0.1 | 0.7 | 3.6 | 1.1 | 0.1 | - | - |

| Intersection | | | | | | | | | | | | |
|--------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Int Delay, s/veh | 9 | | | | | | | | | | | |
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations | ↖ | ↑ | ↗ | ↖ | ↑ | ↗ | ↖ | ↑ | ↗ | ↖ | ↑ | ↗ |
| Traffic Vol, veh/h | 13 | 165 | 63 | 9 | 100 | 15 | 183 | 180 | 34 | 21 | 48 | 14 |
| Future Vol, veh/h | 13 | 165 | 63 | 9 | 100 | 15 | 183 | 180 | 34 | 21 | 48 | 14 |
| 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 | 275 | - | 275 | 280 | - | - | 380 | - | - | 325 | - | - |
| Veh in Median Storage, # | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Grade, % | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Peak Hour Factor | 87 | 87 | 87 | 83 | 83 | 83 | 92 | 92 | 92 | 83 | 83 | 83 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 15 | 190 | 72 | 11 | 120 | 18 | 199 | 196 | 37 | 25 | 58 | 17 |

| Major/Minor | Major1 | | | Major2 | | | Minor1 | | | Minor2 | | |
|----------------------|--------|---|---|--------|---|---|--------|-------|-------|--------|-------|-------|
| Conflicting Flow All | 138 | 0 | 0 | 262 | 0 | 0 | 409 | 380 | 190 | 524 | 443 | 129 |
| Stage 1 | - | - | - | - | - | - | 220 | 220 | - | 151 | 151 | - |
| Stage 2 | - | - | - | - | - | - | 189 | 160 | - | 373 | 292 | - |
| Critical Hdwy | 4.12 | - | - | 4.12 | - | - | 7.12 | 6.52 | 6.22 | 7.12 | 6.52 | 6.22 |
| Critical Hdwy Stg 1 | - | - | - | - | - | - | 6.12 | 5.52 | - | 6.12 | 5.52 | - |
| Critical Hdwy Stg 2 | - | - | - | - | - | - | 6.12 | 5.52 | - | 6.12 | 5.52 | - |
| Follow-up Hdwy | 2.218 | - | - | 2.218 | - | - | 3.518 | 4.018 | 3.318 | 3.518 | 4.018 | 3.318 |
| Pot Cap-1 Maneuver | 1446 | - | - | 1302 | - | - | 553 | 552 | 852 | 464 | 509 | 921 |
| Stage 1 | - | - | - | - | - | - | 782 | 721 | - | 851 | 772 | - |
| Stage 2 | - | - | - | - | - | - | 813 | 766 | - | 648 | 671 | - |
| Platoon blocked, % | - | - | - | - | - | - | - | - | - | - | - | - |
| Mov Cap-1 Maneuver | 1446 | - | - | 1302 | - | - | 488 | 542 | 852 | 315 | 500 | 921 |
| Mov Cap-2 Maneuver | - | - | - | - | - | - | 488 | 542 | - | 315 | 500 | - |
| Stage 1 | - | - | - | - | - | - | 774 | 714 | - | 842 | 766 | - |
| Stage 2 | - | - | - | - | - | - | 732 | 760 | - | 445 | 664 | - |

| Approach | EB | | | WB | | | NB | | | SB | | |
|----------------------|-----|--|--|-----|--|--|------|--|--|------|--|--|
| HCM Control Delay, s | 0.4 | | | 0.6 | | | 16.3 | | | 13.7 | | |
| HCM LOS | | | | | | | C | | | B | | |

| Minor Lane/Major Mvmt | NBLn1 | NBLn2 | EBL | EBT | EBR | WBL | WBT | WBR | SBLn1 | SBLn2 |
|-----------------------|-------|-------|------|-----|-----|-------|-----|-----|-------|-------|
| Capacity (veh/h) | 488 | 575 | 1446 | - | - | 1302 | - | - | 315 | 558 |
| HCM Lane V/C Ratio | 0.408 | 0.405 | 0.01 | - | - | 0.008 | - | - | 0.08 | 0.134 |
| HCM Control Delay (s) | 17.4 | 15.4 | 7.5 | - | - | 7.8 | - | - | 17.4 | 12.4 |
| HCM Lane LOS | C | C | A | - | - | A | - | - | C | B |
| HCM 95th %tile Q(veh) | 2 | 1.9 | 0 | - | - | 0 | - | - | 0.3 | 0.5 |

| Intersection | | | | | | | | | | | | |
|--------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Int Delay, s/veh | 6.8 | | | | | | | | | | | |
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations | | ↔ | ↔ | ↔ | ↔ | | ↔ | ↔ | | ↔ | ↔ | |
| Traffic Vol, veh/h | 3 | 110 | 29 | 2 | 64 | 13 | 78 | 137 | 18 | 16 | 47 | 5 |
| Future Vol, veh/h | 3 | 110 | 29 | 2 | 64 | 13 | 78 | 137 | 18 | 16 | 47 | 5 |
| 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 | 245 | - | 0 | 235 | - | - | 265 | - | - | 265 | - | - |
| Veh in Median Storage, # | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Grade, % | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Peak Hour Factor | 83 | 83 | 83 | 83 | 83 | 83 | 87 | 87 | 87 | 83 | 83 | 83 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 4 | 133 | 35 | 2 | 77 | 16 | 90 | 157 | 21 | 19 | 57 | 6 |

| Major/Minor | Major1 | | | Major2 | | | Minor1 | | | Minor2 | | |
|----------------------|--------|---|---|--------|---|---|--------|-------|-------|--------|-------|-------|
| Conflicting Flow All | 93 | 0 | 0 | 168 | 0 | 0 | 262 | 238 | 133 | 337 | 265 | 85 |
| Stage 1 | - | - | - | - | - | - | 141 | 141 | - | 89 | 89 | - |
| Stage 2 | - | - | - | - | - | - | 121 | 97 | - | 248 | 176 | - |
| Critical Hdwy | 4.12 | - | - | 4.12 | - | - | 7.12 | 6.52 | 6.22 | 7.12 | 6.52 | 6.22 |
| Critical Hdwy Stg 1 | - | - | - | - | - | - | 6.12 | 5.52 | - | 6.12 | 5.52 | - |
| Critical Hdwy Stg 2 | - | - | - | - | - | - | 6.12 | 5.52 | - | 6.12 | 5.52 | - |
| Follow-up Hdwy | 2.218 | - | - | 2.218 | - | - | 3.518 | 4.018 | 3.318 | 3.518 | 4.018 | 3.318 |
| Pot Cap-1 Maneuver | 1501 | - | - | 1410 | - | - | 691 | 663 | 916 | 617 | 640 | 974 |
| Stage 1 | - | - | - | - | - | - | 862 | 780 | - | 918 | 821 | - |
| Stage 2 | - | - | - | - | - | - | 883 | 815 | - | 756 | 753 | - |
| Platoon blocked, % | - | - | - | - | - | - | - | - | - | - | - | - |
| Mov Cap-1 Maneuver | 1501 | - | - | 1410 | - | - | 638 | 660 | 916 | 491 | 637 | 974 |
| Mov Cap-2 Maneuver | - | - | - | - | - | - | 638 | 660 | - | 491 | 637 | - |
| Stage 1 | - | - | - | - | - | - | 859 | 778 | - | 915 | 820 | - |
| Stage 2 | - | - | - | - | - | - | 816 | 814 | - | 588 | 751 | - |

| Approach | EB | | | WB | | | NB | | | SB | | |
|----------------------|-----|--|--|-----|--|--|------|--|--|------|--|--|
| HCM Control Delay, s | 0.2 | | | 0.2 | | | 11.9 | | | 11.4 | | |
| HCM LOS | | | | | | | B | | | B | | |

| Minor Lane/Major Mvmt | NBLn1 | NBLn2 | EBL | EBT | EBR | WBL | WBT | WBR | SBLn1 | SBLn2 |
|-----------------------|-------|-------|-------|-----|-----|-------|-----|-----|-------|-------|
| Capacity (veh/h) | 638 | 682 | 1501 | - | - | 1410 | - | - | 491 | 659 |
| HCM Lane V/C Ratio | 0.141 | 0.261 | 0.002 | - | - | 0.002 | - | - | 0.039 | 0.095 |
| HCM Control Delay (s) | 11.6 | 12.1 | 7.4 | 0 | - | 7.6 | - | - | 12.6 | 11 |
| HCM Lane LOS | B | B | A | A | - | A | - | - | B | B |
| HCM 95th %tile Q(veh) | 0.5 | 1 | 0 | - | - | 0 | - | - | 0.1 | 0.3 |

| Intersection | | | | | | | | | | | | |
|--------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Int Delay, s/veh | 25.2 | | | | | | | | | | | |
| Movement | SEL | SET | SER | NWL | NWT | NWR | NEL | NET | NER | SWL | SWT | SWR |
| Lane Configurations | ↖ | ↗ | ↖ | ↖ | ↗ | ↖ | ↖ | ↗ | ↖ | ↖ | ↗ | ↖ |
| Traffic Vol, veh/h | 14 | 42 | 49 | 26 | 136 | 26 | 119 | 459 | 33 | 12 | 364 | 29 |
| Future Vol, veh/h | 14 | 42 | 49 | 26 | 136 | 26 | 119 | 459 | 33 | 12 | 364 | 29 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Stop | Stop | Stop | Stop | Free | Free | Free | Free | Free | Free |
| RT Channelized | - | - | None | - | - | None | - | - | None | - | - | None |
| Storage Length | 190 | - | 325 | 215 | - | - | 890 | - | 1000 | 790 | - | 790 |
| Veh in Median Storage, # | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Grade, % | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Peak Hour Factor | 83 | 83 | 83 | 87 | 87 | 87 | 93 | 93 | 93 | 92 | 92 | 92 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 17 | 51 | 59 | 30 | 156 | 30 | 128 | 494 | 35 | 13 | 396 | 32 |

| Major/Minor | Minor2 | | Minor1 | | Major1 | | | Major2 | | | | |
|----------------------|--------|-------|--------|-------|--------|-------|-------|--------|---|-------|---|---|
| Conflicting Flow All | 1283 | 1207 | 396 | 1243 | 1204 | 494 | 428 | 0 | 0 | 529 | 0 | 0 |
| Stage 1 | 422 | 422 | - | 750 | 750 | - | - | - | - | - | - | - |
| Stage 2 | 861 | 785 | - | 493 | 454 | - | - | - | - | - | - | - |
| Critical Hdwy | 7.12 | 6.52 | 6.22 | 7.12 | 6.52 | 6.22 | 4.12 | - | - | 4.12 | - | - |
| Critical Hdwy Stg 1 | 6.12 | 5.52 | - | 6.12 | 5.52 | - | - | - | - | - | - | - |
| Critical Hdwy Stg 2 | 6.12 | 5.52 | - | 6.12 | 5.52 | - | - | - | - | - | - | - |
| Follow-up Hdwy | 3.518 | 4.018 | 3.318 | 3.518 | 4.018 | 3.318 | 2.218 | - | - | 2.218 | - | - |
| Pot Cap-1 Maneuver | 142 | 183 | 653 | 151 | 184 | 575 | 1131 | - | - | 1038 | - | - |
| Stage 1 | 609 | 588 | - | 403 | 419 | - | - | - | - | - | - | - |
| Stage 2 | 350 | 404 | - | 558 | 569 | - | - | - | - | - | - | - |
| Platoon blocked, % | | | | | | | | - | - | - | - | - |
| Mov Cap-1 Maneuver | ~ 14 | 160 | 653 | 94 | 161 | 575 | 1131 | - | - | 1038 | - | - |
| Mov Cap-2 Maneuver | ~ 14 | 160 | - | 94 | 161 | - | - | - | - | - | - | - |
| Stage 1 | 540 | 580 | - | 357 | 372 | - | - | - | - | - | - | - |
| Stage 2 | 171 | 358 | - | 457 | 562 | - | - | - | - | - | - | - |

| Approach | SE | | NW | | NE | | | SW | | | |
|----------------------|-------|--|------|--|-----|--|--|-----|--|--|--|
| HCM Control Delay, s | 111.5 | | 96.7 | | 1.7 | | | 0.3 | | | |
| HCM LOS | F | | F | | | | | | | | |

| Minor Lane/Major Mvmt | NEL | NET | NERN | NWLn1 | NWLn2 | NWLn3 | SELn1 | SELn2 | SELn3 | SWL | SWT | SWR |
|-----------------------|-------|-----|------|-------|-------|-------|-------|-------|-------|-------|-----|-----|
| Capacity (veh/h) | 1131 | - | - | 94 | 161 | 575 | 14 | 160 | 653 | 1038 | - | - |
| HCM Lane V/C Ratio | 0.113 | - | - | 0.318 | 0.971 | 0.052 | 1.205 | 0.316 | 0.09 | 0.013 | - | - |
| HCM Control Delay (s) | 8.6 | - | - | 60.2 | 119.9 | 11.6 | 684.4 | 37.6 | 11.1 | 8.5 | - | - |
| HCM Lane LOS | A | - | - | F | F | B | F | E | B | A | - | - |
| HCM 95th %tile Q(veh) | 0.4 | - | - | 1.2 | 7.4 | 0.2 | 2.7 | 1.3 | 0.3 | 0 | - | - |

Notes
 ~: Volume exceeds capacity \$: Delay exceeds 300s +: Computation Not Defined *: All major volume in platoon

HCM 6th TWSC
1: Curtis Rd & Falcon Hwy

Existing + Site
AM (Filings 1-5)

| Intersection | | | | | | | | | | | | |
|--------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Int Delay, s/veh | 12.1 | | | | | | | | | | | |
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations | ↙ | ↑ | ↗ | ↙ | ↑ | ↗ | ↙ | ↑ | ↗ | ↙ | ↑ | ↗ |
| Traffic Vol, veh/h | 16 | 44 | 186 | 14 | 209 | 41 | 56 | 75 | 2 | 9 | 243 | 39 |
| Future Vol, veh/h | 16 | 44 | 186 | 14 | 209 | 41 | 56 | 75 | 2 | 9 | 243 | 39 |
| 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 | 275 | - | 275 | 280 | - | - | 380 | - | - | 325 | - | - |
| Veh in Median Storage, # | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Grade, % | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Peak Hour Factor | 87 | 87 | 87 | 92 | 92 | 92 | 83 | 83 | 83 | 92 | 92 | 92 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 18 | 51 | 214 | 15 | 227 | 45 | 67 | 90 | 2 | 10 | 264 | 42 |

| Major/Minor | Major1 | | | Major2 | | | Minor1 | | | Minor2 | | |
|----------------------|--------|---|---|--------|---|---|--------|-------|-------|--------|-------|-------|
| Conflicting Flow All | 272 | 0 | 0 | 265 | 0 | 0 | 520 | 389 | 51 | 520 | 581 | 250 |
| Stage 1 | - | - | - | - | - | - | 87 | 87 | - | 280 | 280 | - |
| Stage 2 | - | - | - | - | - | - | 433 | 302 | - | 240 | 301 | - |
| Critical Hdwy | 4.12 | - | - | 4.12 | - | - | 7.12 | 6.52 | 6.22 | 7.12 | 6.52 | 6.22 |
| Critical Hdwy Stg 1 | - | - | - | - | - | - | 6.12 | 5.52 | - | 6.12 | 5.52 | - |
| Critical Hdwy Stg 2 | - | - | - | - | - | - | 6.12 | 5.52 | - | 6.12 | 5.52 | - |
| Follow-up Hdwy | 2.218 | - | - | 2.218 | - | - | 3.518 | 4.018 | 3.318 | 3.518 | 4.018 | 3.318 |
| Pot Cap-1 Maneuver | 1291 | - | - | 1299 | - | - | 467 | 546 | 1017 | 467 | 425 | 789 |
| Stage 1 | - | - | - | - | - | - | 921 | 823 | - | 727 | 679 | - |
| Stage 2 | - | - | - | - | - | - | 601 | 664 | - | 763 | 665 | - |
| Platoon blocked, % | - | - | - | - | - | - | - | - | - | - | - | - |
| Mov Cap-1 Maneuver | 1291 | - | - | 1299 | - | - | 212 | 532 | 1017 | 397 | 414 | 789 |
| Mov Cap-2 Maneuver | - | - | - | - | - | - | 212 | 532 | - | 397 | 414 | - |
| Stage 1 | - | - | - | - | - | - | 908 | 811 | - | 717 | 671 | - |
| Stage 2 | - | - | - | - | - | - | 341 | 656 | - | 667 | 656 | - |

| Approach | EB | | | WB | | | NB | | | SB | | |
|----------------------|-----|--|--|-----|--|--|------|--|--|----|--|--|
| HCM Control Delay, s | 0.5 | | | 0.4 | | | 20.1 | | | 29 | | |
| HCM LOS | | | | | | | C | | | D | | |

| Minor Lane/Major Mvmt | NBLn1 | NBLn2 | EBL | EBT | EBR | WBL | WBT | WBR | SBLn1 | SBLn2 |
|-----------------------|-------|-------|-------|-----|-----|-------|-----|-----|-------|-------|
| Capacity (veh/h) | 212 | 539 | 1291 | - | - | 1299 | - | - | 397 | 443 |
| HCM Lane V/C Ratio | 0.318 | 0.172 | 0.014 | - | - | 0.012 | - | - | 0.025 | 0.692 |
| HCM Control Delay (s) | 29.7 | 13.1 | 7.8 | - | - | 7.8 | - | - | 14.3 | 29.5 |
| HCM Lane LOS | D | B | A | - | - | A | - | - | B | D |
| HCM 95th %tile Q(veh) | 1.3 | 0.6 | 0 | - | - | 0 | - | - | 0.1 | 5.2 |

HCM 6th TWSC
4: Curtis Rd & Judge Orr Rd

Existing + Site
AM (Filings 1-5)

| Intersection | | | | | | | | | | | | |
|--------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Int Delay, s/veh | 7.5 | | | | | | | | | | | |
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations | | ↖ | ↗ | ↖ | ↗ | | ↖ | ↗ | | ↖ | ↗ | |
| Traffic Vol, veh/h | 1 | 38 | 84 | 20 | 129 | 37 | 54 | 90 | 0 | 9 | 171 | 0 |
| Future Vol, veh/h | 1 | 38 | 84 | 20 | 129 | 37 | 54 | 90 | 0 | 9 | 171 | 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 | 245 | - | 0 | 235 | - | - | 265 | - | - | 265 | - | - |
| Veh in Median Storage, # | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Grade, % | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Peak Hour Factor | 83 | 83 | 83 | 87 | 87 | 87 | 83 | 83 | 83 | 87 | 87 | 87 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 1 | 46 | 101 | 23 | 148 | 43 | 65 | 108 | 0 | 10 | 197 | 0 |

| Major/Minor | Major1 | | | Major2 | | | Minor1 | | | Minor2 | | |
|----------------------|--------|---|---|--------|---|---|--------|-------|-------|--------|-------|-------|
| Conflicting Flow All | 191 | 0 | 0 | 147 | 0 | 0 | 362 | 285 | 46 | 369 | 365 | 170 |
| Stage 1 | - | - | - | - | - | - | 48 | 48 | - | 216 | 216 | - |
| Stage 2 | - | - | - | - | - | - | 314 | 237 | - | 153 | 149 | - |
| Critical Hdwy | 4.12 | - | - | 4.12 | - | - | 7.12 | 6.52 | 6.22 | 7.12 | 6.52 | 6.22 |
| Critical Hdwy Stg 1 | - | - | - | - | - | - | 6.12 | 5.52 | - | 6.12 | 5.52 | - |
| Critical Hdwy Stg 2 | - | - | - | - | - | - | 6.12 | 5.52 | - | 6.12 | 5.52 | - |
| Follow-up Hdwy | 2.218 | - | - | 2.218 | - | - | 3.518 | 4.018 | 3.318 | 3.518 | 4.018 | 3.318 |
| Pot Cap-1 Maneuver | 1383 | - | - | 1435 | - | - | 594 | 624 | 1023 | 588 | 563 | 874 |
| Stage 1 | - | - | - | - | - | - | 965 | 855 | - | 786 | 724 | - |
| Stage 2 | - | - | - | - | - | - | 697 | 709 | - | 849 | 774 | - |
| Platoon blocked, % | - | - | - | - | - | - | - | - | - | - | - | - |
| Mov Cap-1 Maneuver | 1383 | - | - | 1435 | - | - | 425 | 613 | 1023 | 502 | 553 | 874 |
| Mov Cap-2 Maneuver | - | - | - | - | - | - | 425 | 613 | - | 502 | 553 | - |
| Stage 1 | - | - | - | - | - | - | 964 | 854 | - | 785 | 712 | - |
| Stage 2 | - | - | - | - | - | - | 497 | 698 | - | 740 | 773 | - |

| Approach | EB | | | WB | | | NB | | | SB | | |
|----------------------|-----|--|--|-----|--|--|------|--|--|----|--|--|
| HCM Control Delay, s | 0.1 | | | 0.8 | | | 13.2 | | | 15 | | |
| HCM LOS | | | | | | | B | | | C | | |

| Minor Lane/Major Mvmt | NBLn1 | NBLn2 | EBL | EBT | EBR | WBL | WBT | WBR | SBLn1 | SBLn2 |
|-----------------------|-------|-------|-------|-----|-----|-------|-----|-----|-------|-------|
| Capacity (veh/h) | 425 | 613 | 1383 | - | - | 1435 | - | - | 502 | 553 |
| HCM Lane V/C Ratio | 0.153 | 0.177 | 0.001 | - | - | 0.016 | - | - | 0.021 | 0.355 |
| HCM Control Delay (s) | 15 | 12.1 | 7.6 | 0 | - | 7.5 | - | - | 12.3 | 15.1 |
| HCM Lane LOS | C | B | A | A | - | A | - | - | B | C |
| HCM 95th %tile Q(veh) | 0.5 | 0.6 | 0 | - | - | 0 | - | - | 0.1 | 1.6 |

| Intersection | | | | | | | | | | | | |
|--------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Int Delay, s/veh | 11.4 | | | | | | | | | | | |
| Movement | SEL | SET | SER | NWL | NWT | NWR | NEL | NET | NER | SWL | SWT | SWR |
| Lane Configurations | ↘ | ↗ | ↗ | ↘ | ↗ | ↗ | ↘ | ↗ | ↗ | ↘ | ↗ | ↗ |
| Traffic Vol, veh/h | 23 | 141 | 143 | 6 | 101 | 20 | 49 | 267 | 3 | 35 | 438 | 35 |
| Future Vol, veh/h | 23 | 141 | 143 | 6 | 101 | 20 | 49 | 267 | 3 | 35 | 438 | 35 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Stop | Stop | Stop | Stop | Free | Free | Free | Free | Free | Free |
| RT Channelized | - | - | None | - | - | None | - | - | None | - | - | None |
| Storage Length | 190 | - | 325 | 215 | - | - | 890 | - | 1000 | 790 | - | 790 |
| Veh in Median Storage, # | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Grade, % | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 83 | 83 | 83 | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 25 | 153 | 155 | 7 | 122 | 24 | 53 | 290 | 3 | 38 | 476 | 38 |

| Major/Minor | Minor2 | | Minor1 | | Major1 | | | Major2 | | | | |
|----------------------|--------|-------|--------|-------|--------|-------|-------|--------|---|-------|---|---|
| Conflicting Flow All | 1023 | 951 | 476 | 1121 | 986 | 290 | 514 | 0 | 0 | 293 | 0 | 0 |
| Stage 1 | 552 | 552 | - | 396 | 396 | - | - | - | - | - | - | - |
| Stage 2 | 471 | 399 | - | 725 | 590 | - | - | - | - | - | - | - |
| Critical Hdwy | 7.12 | 6.52 | 6.22 | 7.12 | 6.52 | 6.22 | 4.12 | - | - | 4.12 | - | - |
| Critical Hdwy Stg 1 | 6.12 | 5.52 | - | 6.12 | 5.52 | - | - | - | - | - | - | - |
| Critical Hdwy Stg 2 | 6.12 | 5.52 | - | 6.12 | 5.52 | - | - | - | - | - | - | - |
| Follow-up Hdwy | 3.518 | 4.018 | 3.318 | 3.518 | 4.018 | 3.318 | 2.218 | - | - | 2.218 | - | - |
| Pot Cap-1 Maneuver | 214 | 260 | 589 | 183 | 248 | 749 | 1052 | - | - | 1269 | - | - |
| Stage 1 | 518 | 515 | - | 629 | 604 | - | - | - | - | - | - | - |
| Stage 2 | 573 | 602 | - | 416 | 495 | - | - | - | - | - | - | - |
| Platoon blocked, % | - | - | - | - | - | - | - | - | - | - | - | - |
| Mov Cap-1 Maneuver | 114 | 240 | 589 | 62 | 229 | 749 | 1052 | - | - | 1269 | - | - |
| Mov Cap-2 Maneuver | 114 | 240 | - | 62 | 229 | - | - | - | - | - | - | - |
| Stage 1 | 492 | 500 | - | 598 | 574 | - | - | - | - | - | - | - |
| Stage 2 | 415 | 572 | - | 206 | 480 | - | - | - | - | - | - | - |

| Approach | SE | | NW | | NE | | SW | |
|----------------------|------|--|------|--|-----|--|-----|--|
| HCM Control Delay, s | 29.4 | | 34.6 | | 1.3 | | 0.5 | |
| HCM LOS | D | | D | | | | | |

| Minor Lane/Major Mvmt | NEL | NET | NERN | NWLn1 | NWLn2 | NWLn3 | SELn1 | SELn2 | SELn3 | SWL | SWT | SWR |
|-----------------------|-------|-----|------|-------|-------|-------|-------|-------|-------|------|-----|-----|
| Capacity (veh/h) | 1052 | - | - | 62 | 229 | 749 | 114 | 240 | 589 | 1269 | - | - |
| HCM Lane V/C Ratio | 0.051 | - | - | 0.117 | 0.531 | 0.032 | 0.219 | 0.639 | 0.264 | 0.03 | - | - |
| HCM Control Delay (s) | 8.6 | - | - | 70.6 | 37.3 | 10 | 45.2 | 43.2 | 13.3 | 7.9 | - | - |
| HCM Lane LOS | A | - | - | F | E | B | E | E | B | A | - | - |
| HCM 95th %tile Q(veh) | 0.2 | - | - | 0.4 | 2.8 | 0.1 | 0.8 | 3.9 | 1.1 | 0.1 | - | - |

| Intersection | | | | | | |
|--------------------------|------|------|------|------|------|------|
| Int Delay, s/veh | 0.8 | | | | | |
| Movement | WBL | WBR | NBT | NBR | SBL | SBT |
| Lane Configurations | ↘↗ | | ↑ | ↗↘ | ↘↗ | ↑ |
| Traffic Vol, veh/h | 6 | 20 | 124 | 2 | 7 | 268 |
| Future Vol, veh/h | 6 | 20 | 124 | 2 | 7 | 268 |
| 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 | - | - | 235 | 285 | - |
| Veh in Median Storage, # | 0 | - | 0 | - | - | 0 |
| Grade, % | 0 | - | 0 | - | - | 0 |
| Peak Hour Factor | 78 | 78 | 83 | 83 | 92 | 92 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 8 | 26 | 149 | 2 | 8 | 291 |

| Major/Minor | Minor1 | Major1 | Major2 | | |
|----------------------|--------|--------|--------|---|-------|
| Conflicting Flow All | 456 | 149 | 0 | 0 | 151 |
| Stage 1 | 149 | - | - | - | - |
| Stage 2 | 307 | - | - | - | - |
| 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 | 562 | 898 | - | - | 1430 |
| Stage 1 | 879 | - | - | - | - |
| Stage 2 | 746 | - | - | - | - |
| Platoon blocked, % | | | - | - | - |
| Mov Cap-1 Maneuver | 559 | 898 | - | - | 1430 |
| Mov Cap-2 Maneuver | 559 | - | - | - | - |
| Stage 1 | 879 | - | - | - | - |
| Stage 2 | 742 | - | - | - | - |

| Approach | WB | NB | SB |
|----------------------|-----|----|-----|
| HCM Control Delay, s | 9.8 | 0 | 0.2 |
| HCM LOS | A | | |

| Minor Lane/Major Mvmt | NBT | NBRWBLn1 | SBL | SBT |
|-----------------------|-----|----------|-------|-------|
| Capacity (veh/h) | - | - | 788 | 1430 |
| HCM Lane V/C Ratio | - | - | 0.042 | 0.005 |
| HCM Control Delay (s) | - | - | 9.8 | 7.5 |
| HCM Lane LOS | - | - | A | A |
| HCM 95th %tile Q(veh) | - | - | 0.1 | 0 |

| Intersection | | | | | | |
|--------------------------|------|------|------|------|------|------|
| Int Delay, s/veh | 0.7 | | | | | |
| Movement | EBT | EBR | WBL | WBT | NBL | NBR |
| Lane Configurations | ↑↑ | ↑ | | ↑ | ↑ | |
| Traffic Vol, veh/h | 43 | 5 | 0 | 170 | 16 | 0 |
| Future Vol, veh/h | 43 | 5 | 0 | 170 | 16 | 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 | - | 200 | - | - | 0 | - |
| Veh in Median Storage, # | 0 | - | - | 0 | 0 | - |
| Grade, % | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 78 | 78 | 87 | 87 | 78 | 78 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 55 | 6 | 0 | 195 | 21 | 0 |

| Major/Minor | Major1 | Major2 | Minor1 | | |
|----------------------|--------|--------|--------|---|-------------|
| Conflicting Flow All | 0 | 0 | 61 | 0 | 250 28 |
| Stage 1 | - | - | - | - | 55 - |
| Stage 2 | - | - | - | - | 195 - |
| Critical Hdwy | - | - | 4.13 | - | 6.63 6.93 |
| Critical Hdwy Stg 1 | - | - | - | - | 5.83 - |
| Critical Hdwy Stg 2 | - | - | - | - | 5.43 - |
| Follow-up Hdwy | - | - | 2.219 | - | 3.519 3.319 |
| Pot Cap-1 Maneuver | - | - | 1541 | - | 728 1041 |
| Stage 1 | - | - | - | - | 961 - |
| Stage 2 | - | - | - | - | 837 - |
| Platoon blocked, % | - | - | - | - | - |
| Mov Cap-1 Maneuver | - | - | 1541 | - | 728 1041 |
| Mov Cap-2 Maneuver | - | - | - | - | 728 - |
| Stage 1 | - | - | - | - | 961 - |
| Stage 2 | - | - | - | - | 837 - |

| Approach | EB | WB | NB |
|----------------------|----|----|------|
| HCM Control Delay, s | 0 | 0 | 10.1 |
| HCM LOS | | | B |

| Minor Lane/Major Mvmt | NBLn1 | EBT | EBR | WBL | WBT |
|-----------------------|-------|-----|-----|------|-----|
| Capacity (veh/h) | 728 | - | - | 1541 | - |
| HCM Lane V/C Ratio | 0.028 | - | - | - | - |
| HCM Control Delay (s) | 10.1 | - | - | 0 | - |
| HCM Lane LOS | B | - | - | A | - |
| HCM 95th %tile Q(veh) | 0.1 | - | - | 0 | - |

| Intersection | | | | | | |
|--------------------------|------|------|------|------|------|------|
| Int Delay, s/veh | 0.1 | | | | | |
| Movement | EBT | EBR | WBL | WBT | NBL | NBR |
| Lane Configurations | ↑↑ | ↑ | | ↑ | ↑ | |
| Traffic Vol, veh/h | 42 | 1 | 0 | 168 | 2 | 0 |
| Future Vol, veh/h | 42 | 1 | 0 | 168 | 2 | 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 | - | 200 | - | - | 0 | - |
| Veh in Median Storage, # | 0 | - | - | 0 | 0 | - |
| Grade, % | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 78 | 78 | 87 | 87 | 78 | 78 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 54 | 1 | 0 | 193 | 3 | 0 |

| Major/Minor | Major1 | Major2 | Minor1 | | |
|----------------------|--------|--------|--------|---|-------------|
| Conflicting Flow All | 0 | 0 | 55 | 0 | 247 27 |
| Stage 1 | - | - | - | - | 54 - |
| Stage 2 | - | - | - | - | 193 - |
| Critical Hdwy | - | - | 4.13 | - | 6.63 6.93 |
| Critical Hdwy Stg 1 | - | - | - | - | 5.83 - |
| Critical Hdwy Stg 2 | - | - | - | - | 5.43 - |
| Follow-up Hdwy | - | - | 2.219 | - | 3.519 3.319 |
| Pot Cap-1 Maneuver | - | - | 1549 | - | 731 1043 |
| Stage 1 | - | - | - | - | 962 - |
| Stage 2 | - | - | - | - | 839 - |
| Platoon blocked, % | - | - | - | - | - |
| Mov Cap-1 Maneuver | - | - | 1549 | - | 731 1043 |
| Mov Cap-2 Maneuver | - | - | - | - | 731 - |
| Stage 1 | - | - | - | - | 962 - |
| Stage 2 | - | - | - | - | 839 - |

| Approach | EB | WB | NB |
|----------------------|----|----|-----|
| HCM Control Delay, s | 0 | 0 | 9.9 |
| HCM LOS | | | A |

| Minor Lane/Major Mvmt | NBLn1 | EBT | EBR | WBL | WBT |
|-----------------------|-------|-----|-----|------|-----|
| Capacity (veh/h) | 731 | - | - | 1549 | - |
| HCM Lane V/C Ratio | 0.004 | - | - | - | - |
| HCM Control Delay (s) | 9.9 | - | - | 0 | - |
| HCM Lane LOS | A | - | - | A | - |
| HCM 95th %tile Q(veh) | 0 | - | - | 0 | - |

HCM 6th TWSC
1: Curtis Rd & Falcon Hwy

Existing + Site
PM (Filings 1-5)

| Intersection | | | | | | | | | | | | |
|--------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Int Delay, s/veh | 10.1 | | | | | | | | | | | |
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations | ↙ | ↑ | ↗ | ↙ | ↑ | ↗ | ↙ | ↑ | ↗ | ↙ | ↑ | ↗ |
| Traffic Vol, veh/h | 39 | 165 | 63 | 9 | 100 | 15 | 183 | 183 | 34 | 21 | 50 | 27 |
| Future Vol, veh/h | 39 | 165 | 63 | 9 | 100 | 15 | 183 | 183 | 34 | 21 | 50 | 27 |
| 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 | 275 | - | 275 | 280 | - | - | 380 | - | - | 325 | - | - |
| Veh in Median Storage, # | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Grade, % | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 83 | 83 | 83 | 92 | 92 | 92 | 83 | 83 | 83 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 42 | 179 | 68 | 11 | 120 | 18 | 199 | 199 | 37 | 25 | 60 | 33 |

| Major/Minor | Major1 | | | Major2 | | | Minor1 | | | Minor2 | | |
|----------------------|--------|---|---|--------|---|---|--------|-------|-------|--------|-------|-------|
| Conflicting Flow All | 138 | 0 | 0 | 247 | 0 | 0 | 461 | 423 | 179 | 566 | 482 | 129 |
| Stage 1 | - | - | - | - | - | - | 263 | 263 | - | 151 | 151 | - |
| Stage 2 | - | - | - | - | - | - | 198 | 160 | - | 415 | 331 | - |
| Critical Hdwy | 4.12 | - | - | 4.12 | - | - | 7.12 | 6.52 | 6.22 | 7.12 | 6.52 | 6.22 |
| Critical Hdwy Stg 1 | - | - | - | - | - | - | 6.12 | 5.52 | - | 6.12 | 5.52 | - |
| Critical Hdwy Stg 2 | - | - | - | - | - | - | 6.12 | 5.52 | - | 6.12 | 5.52 | - |
| Follow-up Hdwy | 2.218 | - | - | 2.218 | - | - | 3.518 | 4.018 | 3.318 | 3.518 | 4.018 | 3.318 |
| Pot Cap-1 Maneuver | 1446 | - | - | 1319 | - | - | 511 | 522 | 864 | 435 | 484 | 921 |
| Stage 1 | - | - | - | - | - | - | 742 | 691 | - | 851 | 772 | - |
| Stage 2 | - | - | - | - | - | - | 804 | 766 | - | 615 | 645 | - |
| Platoon blocked, % | - | - | - | - | - | - | - | - | - | - | - | - |
| Mov Cap-1 Maneuver | 1446 | - | - | 1319 | - | - | 432 | 503 | 864 | 281 | 466 | 921 |
| Mov Cap-2 Maneuver | - | - | - | - | - | - | 432 | 503 | - | 281 | 466 | - |
| Stage 1 | - | - | - | - | - | - | 720 | 671 | - | 826 | 766 | - |
| Stage 2 | - | - | - | - | - | - | 709 | 760 | - | 402 | 626 | - |

| Approach | EB | | | WB | | | NB | | | SB | | |
|----------------------|-----|--|--|-----|--|--|------|--|--|----|--|--|
| HCM Control Delay, s | 1.1 | | | 0.6 | | | 18.4 | | | 14 | | |
| HCM LOS | | | | | | | C | | | B | | |

| Minor Lane/Major Mvmt | NBLn1 | NBLn2 | EBL | EBT | EBR | WBL | WBT | WBR | SBLn1 | SBLn2 |
|-----------------------|-------|-------|-------|-----|-----|-------|-----|-----|-------|-------|
| Capacity (veh/h) | 432 | 538 | 1446 | - | - | 1319 | - | - | 281 | 564 |
| HCM Lane V/C Ratio | 0.46 | 0.438 | 0.029 | - | - | 0.008 | - | - | 0.09 | 0.164 |
| HCM Control Delay (s) | 20.2 | 16.8 | 7.6 | - | - | 7.8 | - | - | 19.1 | 12.6 |
| HCM Lane LOS | C | C | A | - | - | A | - | - | C | B |
| HCM 95th %tile Q(veh) | 2.4 | 2.2 | 0.1 | - | - | 0 | - | - | 0.3 | 0.6 |

| Intersection | | | | | | | | | | | | |
|--------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Int Delay, s/veh | 6.9 | | | | | | | | | | | |
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations | | ↖ | ↗ | ↖ | ↗ | | ↖ | ↗ | | ↖ | ↗ | |
| Traffic Vol, veh/h | 3 | 124 | 48 | 2 | 74 | 15 | 90 | 147 | 20 | 21 | 62 | 5 |
| Future Vol, veh/h | 3 | 124 | 48 | 2 | 74 | 15 | 90 | 147 | 20 | 21 | 62 | 5 |
| 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 | 245 | - | 0 | 235 | - | - | 265 | - | - | 265 | - | - |
| Veh in Median Storage, # | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Grade, % | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Peak Hour Factor | 87 | 87 | 87 | 83 | 83 | 83 | 92 | 92 | 92 | 83 | 83 | 83 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 3 | 143 | 55 | 2 | 89 | 18 | 98 | 160 | 22 | 25 | 75 | 6 |

| Major/Minor | Major1 | | | Major2 | | | Minor1 | | | Minor2 | | |
|----------------------|--------|---|---|--------|---|---|--------|-------|-------|--------|-------|-------|
| Conflicting Flow All | 107 | 0 | 0 | 198 | 0 | 0 | 292 | 260 | 143 | 370 | 306 | 98 |
| Stage 1 | - | - | - | - | - | - | 149 | 149 | - | 102 | 102 | - |
| Stage 2 | - | - | - | - | - | - | 143 | 111 | - | 268 | 204 | - |
| Critical Hdwy | 4.12 | - | - | 4.12 | - | - | 7.12 | 6.52 | 6.22 | 7.12 | 6.52 | 6.22 |
| Critical Hdwy Stg 1 | - | - | - | - | - | - | 6.12 | 5.52 | - | 6.12 | 5.52 | - |
| Critical Hdwy Stg 2 | - | - | - | - | - | - | 6.12 | 5.52 | - | 6.12 | 5.52 | - |
| Follow-up Hdwy | 2.218 | - | - | 2.218 | - | - | 3.518 | 4.018 | 3.318 | 3.518 | 4.018 | 3.318 |
| Pot Cap-1 Maneuver | 1484 | - | - | 1375 | - | - | 660 | 645 | 905 | 587 | 608 | 958 |
| Stage 1 | - | - | - | - | - | - | 854 | 774 | - | 904 | 811 | - |
| Stage 2 | - | - | - | - | - | - | 860 | 804 | - | 738 | 733 | - |
| Platoon blocked, % | - | - | - | - | - | - | - | - | - | - | - | - |
| Mov Cap-1 Maneuver | 1484 | - | - | 1375 | - | - | 593 | 643 | 905 | 462 | 606 | 958 |
| Mov Cap-2 Maneuver | - | - | - | - | - | - | 593 | 643 | - | 462 | 606 | - |
| Stage 1 | - | - | - | - | - | - | 852 | 772 | - | 902 | 810 | - |
| Stage 2 | - | - | - | - | - | - | 775 | 803 | - | 570 | 732 | - |

| Approach | EB | | | WB | | | NB | | | SB | | |
|----------------------|-----|--|--|-----|--|--|------|--|--|----|--|--|
| HCM Control Delay, s | 0.1 | | | 0.2 | | | 12.4 | | | 12 | | |
| HCM LOS | | | | | | | B | | | B | | |

| Minor Lane/Major Mvmt | NBLn1 | NBLn2 | EBL | EBT | EBR | WBL | WBT | WBR | SBLn1 | SBLn2 |
|-----------------------|-------|-------|-------|-----|-----|-------|-----|-----|-------|-------|
| Capacity (veh/h) | 593 | 666 | 1484 | - | - | 1375 | - | - | 462 | 623 |
| HCM Lane V/C Ratio | 0.165 | 0.273 | 0.002 | - | - | 0.002 | - | - | 0.055 | 0.13 |
| HCM Control Delay (s) | 12.3 | 12.4 | 7.4 | 0 | - | 7.6 | - | - | 13.2 | 11.6 |
| HCM Lane LOS | B | B | A | A | - | A | - | - | B | B |
| HCM 95th %tile Q(veh) | 0.6 | 1.1 | 0 | - | - | 0 | - | - | 0.2 | 0.4 |

| Intersection | | | | | | | | | | | | |
|--------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Int Delay, s/veh | 18.8 | | | | | | | | | | | |
| Movement | SEL | SET | SER | NWL | NWT | NWR | NEL | NET | NER | SWL | SWT | SWR |
| Lane Configurations | ↖ | ↗ | ↖ | ↖ | ↗ | ↖ | ↖ | ↗ | ↖ | ↖ | ↗ | ↖ |
| Traffic Vol, veh/h | 14 | 59 | 49 | 26 | 146 | 28 | 119 | 459 | 33 | 15 | 364 | 29 |
| Future Vol, veh/h | 14 | 59 | 49 | 26 | 146 | 28 | 119 | 459 | 33 | 15 | 364 | 29 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Stop | Stop | Stop | Stop | Free | Free | Free | Free | Free | Free |
| RT Channelized | - | - | None | - | - | None | - | - | None | - | - | None |
| Storage Length | 190 | - | 325 | 215 | - | - | 890 | - | 1000 | 790 | - | 790 |
| Veh in Median Storage, # | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Grade, % | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Peak Hour Factor | 83 | 83 | 83 | 87 | 87 | 87 | 93 | 93 | 93 | 92 | 92 | 92 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 17 | 71 | 59 | 30 | 168 | 32 | 128 | 494 | 35 | 16 | 396 | 32 |

| Major/Minor | Minor2 | | Minor1 | | Major1 | | Major2 | | | | | |
|----------------------|--------|-------|--------|----------|--------|-------|--------|---|------|-------|---|---|
| Conflicting Flow All | 1296 | 1213 | 396 | 1259 | 1210 | 494 | 428 | 0 | 0 | 529 | 0 | 0 |
| Stage 1 | 428 | 428 | - | 750 | 750 | - | - | - | - | - | - | - |
| Stage 2 | 868 | 785 | - | 509 | 460 | - | - | - | - | - | - | - |
| Critical Hdwy | 7.12 | 6.52 | 6.22 | 7.12 | 6.52 | 6.22 | 4.12 | - | - | 4.12 | - | - |
| Critical Hdwy Stg 1 | 6.12 | 5.52 | - | 6.12 | 5.52 | - | - | - | - | - | - | - |
| Critical Hdwy Stg 2 | 6.12 | 5.52 | - | 6.12 | 5.52 | - | - | - | - | - | - | - |
| Follow-up Hdwy | 3.518 | 4.018 | 3.318 | 3.518 | 4.018 | 3.318 | 2.218 | - | - | 2.218 | - | - |
| Pot Cap-1 Maneuver | 139 | 182 | 653 | 147 | 183 | 575 | 1131 | - | - | 1038 | - | - |
| Stage 1 | 605 | 585 | - | 403 | 419 | - | - | - | - | - | - | - |
| Stage 2 | 347 | 404 | - | 547 | 566 | - | - | - | - | - | - | - |
| Platoon blocked, % | - | - | - | - | - | - | - | - | - | - | - | - |
| Mov Cap-1 Maneuver | - | 159 | 653 | 79 ~ 160 | 575 | 1131 | - | - | 1038 | - | - | - |
| Mov Cap-2 Maneuver | - | 159 | - | 79 ~ 160 | - | - | - | - | - | - | - | - |
| Stage 1 | 537 | 576 | - | 357 | 372 | - | - | - | - | - | - | - |
| Stage 2 | 159 | 358 | - | 429 | 558 | - | - | - | - | - | - | - |

| Approach | SE | NW | NE | SW |
|----------------------|----|-------|-----|-----|
| HCM Control Delay, s | | 115.2 | 1.7 | 0.3 |
| HCM LOS | - | F | | |

| Minor Lane/Major Mvmt | NEL | NET | NERNWLn1 | NWLn2 | NWLn3 | SELn1 | SELn2 | SELn3 | SWL | SWT | SWR | |
|-----------------------|-------|-----|----------|-------|-------|-------|-------|-------|------|-------|-----|---|
| Capacity (veh/h) | 1131 | - | - | 79 | 160 | 575 | - | 159 | 653 | 1038 | - | - |
| HCM Lane V/C Ratio | 0.113 | - | - | 0.378 | 1.049 | 0.056 | - | 0.447 | 0.09 | 0.016 | - | - |
| HCM Control Delay (s) | 8.6 | - | - | 76 | 142.1 | 11.6 | - | 44.8 | 11.1 | 8.5 | - | - |
| HCM Lane LOS | A | - | - | F | F | B | - | E | B | A | - | - |
| HCM 95th %tile Q(veh) | 0.4 | - | - | 1.5 | 8.4 | 0.2 | - | 2 | 0.3 | 0 | - | - |

Notes
 ~: Volume exceeds capacity \$: Delay exceeds 300s +: Computation Not Defined *: All major volume in platoon

HCM 6th TWSC
3: Curtis & Benito Wells

Existing + Site
PM (Filings 1-5)

| Intersection | | | | | | |
|--------------------------|------|------|------|------|------|------|
| Int Delay, s/veh | 1 | | | | | |
| Movement | WBL | WBR | NBT | NBR | SBL | SBT |
| Lane Configurations | ↘ | | ↑ | ↗ | ↘ | ↑ |
| Traffic Vol, veh/h | 3 | 13 | 244 | 6 | 21 | 91 |
| Future Vol, veh/h | 3 | 13 | 244 | 6 | 21 | 91 |
| 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 | - | - | 235 | 285 | - |
| Veh in Median Storage, # | 0 | - | 0 | - | - | 0 |
| Grade, % | 0 | - | 0 | - | - | 0 |
| Peak Hour Factor | 78 | 78 | 92 | 92 | 83 | 83 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 4 | 17 | 265 | 7 | 25 | 110 |

| Major/Minor | Minor1 | Major1 | Major2 | | |
|----------------------|--------|--------|--------|---|-------|
| Conflicting Flow All | 425 | 265 | 0 | 0 | 272 |
| Stage 1 | 265 | - | - | - | - |
| Stage 2 | 160 | - | - | - | - |
| 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 | 586 | 774 | - | - | 1291 |
| Stage 1 | 779 | - | - | - | - |
| Stage 2 | 869 | - | - | - | - |
| Platoon blocked, % | | | - | - | - |
| Mov Cap-1 Maneuver | 575 | 774 | - | - | 1291 |
| Mov Cap-2 Maneuver | 575 | - | - | - | - |
| Stage 1 | 779 | - | - | - | - |
| Stage 2 | 852 | - | - | - | - |

| Approach | WB | NB | SB |
|----------------------|------|----|-----|
| HCM Control Delay, s | 10.1 | 0 | 1.5 |
| HCM LOS | B | | |

| Minor Lane/Major Mvmt | NBT | NBRWBLn1 | SBL | SBT |
|-----------------------|-----|----------|-------|------|
| Capacity (veh/h) | - | - | 727 | 1291 |
| HCM Lane V/C Ratio | - | - | 0.028 | 0.02 |
| HCM Control Delay (s) | - | - | 10.1 | 7.8 |
| HCM Lane LOS | - | - | B | A |
| HCM 95th %tile Q(veh) | - | - | 0.1 | 0.1 |

| Intersection | | | | | | |
|--------------------------|------|------|------|------|------|------|
| Int Delay, s/veh | 0.4 | | | | | |
| Movement | EBT | EBR | WBL | WBT | NBL | NBR |
| Lane Configurations | ↑↑ | ↑ | | ↑ | ↑ | |
| Traffic Vol, veh/h | 147 | 18 | 0 | 80 | 10 | 0 |
| Future Vol, veh/h | 147 | 18 | 0 | 80 | 10 | 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 | - | 200 | - | - | 0 | - |
| Veh in Median Storage, # | 0 | - | - | 0 | 0 | - |
| Grade, % | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 87 | 87 | 83 | 83 | 78 | 78 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 169 | 21 | 0 | 96 | 13 | 0 |

| Major/Minor | Major1 | Major2 | Minor1 | | |
|----------------------|--------|--------|--------|---|-------|
| Conflicting Flow All | 0 | 0 | 190 | 0 | 265 |
| Stage 1 | - | - | - | - | 169 |
| Stage 2 | - | - | - | - | 96 |
| Critical Hdwy | - | - | 4.13 | - | 6.63 |
| Critical Hdwy Stg 1 | - | - | - | - | 5.83 |
| Critical Hdwy Stg 2 | - | - | - | - | 5.43 |
| Follow-up Hdwy | - | - | 2.219 | - | 3.519 |
| Pot Cap-1 Maneuver | - | - | 1382 | - | 713 |
| Stage 1 | - | - | - | - | 844 |
| Stage 2 | - | - | - | - | 927 |
| Platoon blocked, % | - | - | - | - | - |
| Mov Cap-1 Maneuver | - | - | 1382 | - | 713 |
| Mov Cap-2 Maneuver | - | - | - | - | 713 |
| Stage 1 | - | - | - | - | 844 |
| Stage 2 | - | - | - | - | 927 |

| Approach | EB | WB | NB |
|----------------------|----|----|------|
| HCM Control Delay, s | 0 | 0 | 10.1 |
| HCM LOS | | | B |

| Minor Lane/Major Mvmt | NBLn1 | EBT | EBR | WBL | WBT |
|-----------------------|-------|-----|-----|------|-----|
| Capacity (veh/h) | 713 | - | - | 1382 | - |
| HCM Lane V/C Ratio | 0.018 | - | - | - | - |
| HCM Control Delay (s) | 10.1 | - | - | 0 | - |
| HCM Lane LOS | B | - | - | A | - |
| HCM 95th %tile Q(veh) | 0.1 | - | - | 0 | - |

| Intersection | | | | | | |
|--------------------------|------|------|------|------|------|------|
| Int Delay, s/veh | 0 | | | | | |
| Movement | EBT | EBR | WBL | WBT | NBL | NBR |
| Lane Configurations | ↑↑ | ↑ | | ↑ | ↑ | |
| Traffic Vol, veh/h | 144 | 3 | 0 | 79 | 1 | 0 |
| Future Vol, veh/h | 144 | 3 | 0 | 79 | 1 | 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 | - | 200 | - | - | 0 | - |
| Veh in Median Storage, # | 0 | - | - | 0 | 0 | - |
| Grade, % | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 83 | 83 | 83 | 83 | 78 | 78 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 173 | 4 | 0 | 95 | 1 | 0 |

| Major/Minor | Major1 | Major2 | Minor1 | | |
|----------------------|--------|--------|--------|---|-------|
| Conflicting Flow All | 0 | 0 | 177 | 0 | 268 |
| Stage 1 | - | - | - | - | 173 |
| Stage 2 | - | - | - | - | 95 |
| Critical Hdwy | - | - | 4.13 | - | 6.63 |
| Critical Hdwy Stg 1 | - | - | - | - | 5.83 |
| Critical Hdwy Stg 2 | - | - | - | - | 5.43 |
| Follow-up Hdwy | - | - | 2.219 | - | 3.519 |
| Pot Cap-1 Maneuver | - | - | 1398 | - | 710 |
| Stage 1 | - | - | - | - | 840 |
| Stage 2 | - | - | - | - | 928 |
| Platoon blocked, % | - | - | - | - | - |
| Mov Cap-1 Maneuver | - | - | 1398 | - | 710 |
| Mov Cap-2 Maneuver | - | - | - | - | 710 |
| Stage 1 | - | - | - | - | 840 |
| Stage 2 | - | - | - | - | 928 |

| Approach | EB | WB | NB |
|----------------------|----|----|------|
| HCM Control Delay, s | 0 | 0 | 10.1 |
| HCM LOS | | | B |

| Minor Lane/Major Mvmt | NBLn1 | EBT | EBR | WBL | WBT |
|-----------------------|-------|-----|-----|------|-----|
| Capacity (veh/h) | 710 | - | - | 1398 | - |
| HCM Lane V/C Ratio | 0.002 | - | - | - | - |
| HCM Control Delay (s) | 10.1 | - | - | 0 | - |
| HCM Lane LOS | B | - | - | A | - |
| HCM 95th %tile Q(veh) | 0 | - | - | 0 | - |

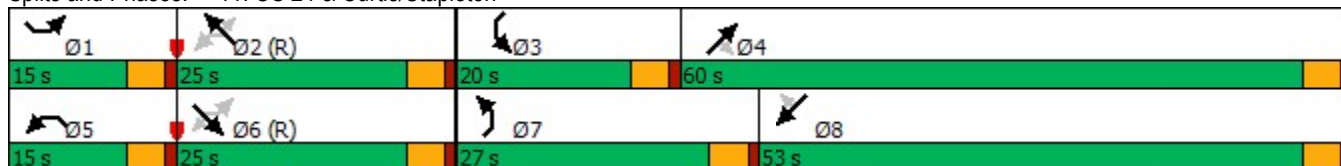
Lanes, Volumes, Timings
11: US 24 & Curtis/Stapleton

2042 Background
AM

| Lane Group | SEL | SET | SER | NWL | NWT | NWR | NEL | NET | NER | SWL | SWT | SWR |
|----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (vph) | 175 | 390 | 600 | 75 | 375 | 50 | 300 | 450 | 50 | 123 | 800 | 350 |
| Future Volume (vph) | 175 | 390 | 600 | 75 | 375 | 50 | 300 | 450 | 50 | 123 | 800 | 350 |
| Ideal Flow (vphpl) | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 |
| Storage Length (ft) | 190 | | 325 | 215 | | 215 | 890 | | 1000 | 790 | | 790 |
| Storage Lanes | 1 | | 1 | 1 | | 0 | 2 | | 1 | 1 | | 1 |
| Taper Length (ft) | 240 | | | 200 | | | 190 | | | 190 | | |
| Lane Util. Factor | 1.00 | 0.95 | 1.00 | 1.00 | 0.95 | 1.00 | 0.97 | 0.95 | 1.00 | 1.00 | 0.95 | 1.00 |
| Frt | | | 0.850 | | | 0.850 | | | 0.850 | | | 0.850 |
| Flt Protected | 0.950 | | | 0.950 | | | 0.950 | | | 0.950 | | |
| Satd. Flow (prot) | 1770 | 3539 | 1583 | 1770 | 3539 | 1583 | 3433 | 3539 | 1583 | 1770 | 3539 | 1583 |
| Flt Permitted | 0.362 | | | 0.496 | | | 0.950 | | | 0.950 | | |
| Satd. Flow (perm) | 674 | 3539 | 1583 | 924 | 3539 | 1583 | 3433 | 3539 | 1583 | 1770 | 3539 | 1583 |
| Right Turn on Red | | | Yes | | | Yes | | | Yes | | | Yes |
| Satd. Flow (RTOR) | | | 380 | | | 136 | | | 95 | | | 293 |
| Link Speed (mph) | | 45 | | 45 | | | 55 | | | 55 | | |
| Link Distance (ft) | | 1349 | | 1317 | | | 1382 | | | 1435 | | |
| Travel Time (s) | | 20.4 | | 20.0 | | | 17.1 | | | 17.8 | | |
| Peak Hour Factor | 0.95 | 0.95 | 0.95 | 0.92 | 0.92 | 0.92 | 0.93 | 0.93 | 0.93 | 0.95 | 0.95 | 0.95 |
| Adj. Flow (vph) | 184 | 411 | 632 | 82 | 408 | 54 | 323 | 484 | 54 | 129 | 842 | 368 |
| Shared Lane Traffic (%) | | | | | | | | | | | | |
| Lane Group Flow (vph) | 184 | 411 | 632 | 82 | 408 | 54 | 323 | 484 | 54 | 129 | 842 | 368 |
| Enter Blocked Intersection | No | No | No | No | No | No | No | No | No | No | No | No |
| Lane Alignment | Left | Left | Right | Left | Left | Right | Left | Left | Right | Left | Left | Right |
| Median Width(ft) | | 12 | | 12 | | | 24 | | | 24 | | |
| Link Offset(ft) | | 0 | | 0 | | | 0 | | | 0 | | |
| Crosswalk Width(ft) | | 16 | | 16 | | | 16 | | | 16 | | |
| Two way Left Turn Lane | | | | | | | | | | | | |
| Headway Factor | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Turning Speed (mph) | 15 | | 9 | 15 | | 9 | 15 | | 9 | 15 | | 9 |
| Number of Detectors | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 2 | 1 |
| Detector Template | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right |
| Leading Detector (ft) | 20 | 100 | 20 | 20 | 100 | 20 | 20 | 100 | 20 | 20 | 100 | 20 |
| Trailing Detector (ft) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Detector 1 Position(ft) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Detector 1 Size(ft) | 20 | 6 | 20 | 20 | 6 | 20 | 20 | 6 | 20 | 20 | 6 | 20 |
| Detector 1 Type | Cl+Ex | Cl+Ex | Cl+Ex | Cl+Ex | Cl+Ex | Cl+Ex | Cl+Ex | Cl+Ex | Cl+Ex | Cl+Ex | Cl+Ex | Cl+Ex |
| Detector 1 Channel | | | | | | | | | | | | |
| Detector 1 Extend (s) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Detector 1 Queue (s) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Detector 1 Delay (s) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Detector 2 Position(ft) | | 94 | | 94 | | | 94 | | | 94 | | |
| Detector 2 Size(ft) | | 6 | | 6 | | | 6 | | | 6 | | |
| Detector 2 Type | | Cl+Ex | | Cl+Ex | | | Cl+Ex | | | Cl+Ex | | |
| Detector 2 Channel | | | | | | | | | | | | |
| Detector 2 Extend (s) | | 0.0 | | 0.0 | | | 0.0 | | | 0.0 | | |
| Turn Type | pm+pt | NA | Perm | pm+pt | NA | Perm | Prot | NA | Perm | Prot | NA | Perm |
| Protected Phases | 1 | 6 | | 5 | 2 | | 7 | 4 | | 3 | 8 | |
| Permitted Phases | 6 | | 6 | 2 | | 2 | | | 4 | | | 8 |

Queue shown is maximum after two cycles.

Splits and Phases: 11: US 24 & Curtis/Stapleton



























| Intersection | | | | | | | | | |
|-----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|--|
| Intersection Delay, s/veh | 8.4 | | | | | | | | |
| Intersection LOS | A | | | | | | | | |
| Approach | EB | | WB | | NB | | SB | | |
| Entry Lanes | 2 | | 2 | | 2 | | 2 | | |
| Conflicting Circle Lanes | 1 | | 1 | | 1 | | 1 | | |
| Adj Approach Flow, veh/h | 392 | | 619 | | 462 | | 576 | | |
| Demand Flow Rate, veh/h | 400 | | 631 | | 472 | | 588 | | |
| Vehicles Circulating, veh/h | 554 | | 483 | | 178 | | 578 | | |
| Vehicles Exiting, veh/h | 612 | | 167 | | 776 | | 536 | | |
| Ped Vol Crossing Leg, #/h | 0 | | 0 | | 0 | | 0 | | |
| Ped Cap Adj | 1.000 | | 1.000 | | 1.000 | | 1.000 | | |
| Approach Delay, s/veh | 7.2 | | 8.1 | | 4.8 | | 12.3 | | |
| Approach LOS | A | | A | | A | | B | | |
| Lane | Left | Right | Left | Right | Left | Right | Left | Right | |
| Designated Moves | LT | R | LT | R | L | TR | LT | R | |
| Assumed Moves | LT | R | LT | R | L | TR | LT | R | |
| RT Channelized | | | | | | | | | |
| Lane Util | 0.308 | 0.692 | 0.609 | 0.391 | 0.411 | 0.589 | 0.849 | 0.151 | |
| Follow-Up Headway, s | 2.535 | 2.535 | 2.535 | 2.535 | 2.535 | 2.535 | 2.535 | 2.535 | |
| Critical Headway, s | 4.544 | 4.544 | 4.544 | 4.544 | 4.544 | 4.544 | 4.544 | 4.544 | |
| Entry Flow, veh/h | 123 | 277 | 384 | 247 | 194 | 278 | 499 | 89 | |
| Cap Entry Lane, veh/h | 858 | 858 | 915 | 915 | 1208 | 1208 | 839 | 839 | |
| Entry HV Adj Factor | 0.978 | 0.982 | 0.981 | 0.980 | 0.979 | 0.979 | 0.981 | 0.978 | |
| Flow Entry, veh/h | 120 | 272 | 377 | 242 | 190 | 272 | 489 | 87 | |
| Cap Entry, veh/h | 839 | 842 | 897 | 896 | 1183 | 1182 | 823 | 820 | |
| V/C Ratio | 0.143 | 0.323 | 0.420 | 0.270 | 0.161 | 0.230 | 0.595 | 0.106 | |
| Control Delay, s/veh | 5.7 | 7.9 | 9.0 | 6.8 | 4.4 | 5.1 | 13.6 | 5.4 | |
| LOS | A | A | A | A | A | A | B | A | |
| 95th %tile Queue, veh | 0 | 1 | 2 | 1 | 1 | 1 | 4 | 0 | |

| Intersection | | | | | | | | | |
|-----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|--|
| Intersection Delay, s/veh | 7.3 | | | | | | | | |
| Intersection LOS | A | | | | | | | | |
| Approach | EB | | WB | | NB | | SB | | |
| Entry Lanes | 2 | | 2 | | 2 | | 2 | | |
| Conflicting Circle Lanes | 1 | | 1 | | 1 | | 1 | | |
| Adj Approach Flow, veh/h | 309 | | 391 | | 516 | | 538 | | |
| Demand Flow Rate, veh/h | 315 | | 398 | | 527 | | 549 | | |
| Vehicles Circulating, veh/h | 576 | | 515 | | 144 | | 442 | | |
| Vehicles Exiting, veh/h | 415 | | 156 | | 747 | | 471 | | |
| Ped Vol Crossing Leg, #/h | 0 | | 0 | | 0 | | 0 | | |
| Ped Cap Adj | 1.000 | | 1.000 | | 1.000 | | 1.000 | | |
| Approach Delay, s/veh | 6.7 | | 6.9 | | 5.1 | | 10.1 | | |
| Approach LOS | A | | A | | A | | B | | |
| Lane | Left | Right | Left | Right | Left | Right | Left | Right | |
| Designated Moves | LT | R | LT | R | L | TR | L | TR | |
| Assumed Moves | LT | R | LT | R | L | TR | L | TR | |
| RT Channelized | | | | | | | | | |
| Lane Util | 0.298 | 0.702 | 0.693 | 0.307 | 0.315 | 0.685 | 0.091 | 0.909 | |
| Follow-Up Headway, s | 2.535 | 2.535 | 2.535 | 2.535 | 2.535 | 2.535 | 2.535 | 2.535 | |
| Critical Headway, s | 4.544 | 4.544 | 4.544 | 4.544 | 4.544 | 4.544 | 4.544 | 4.544 | |
| Entry Flow, veh/h | 94 | 221 | 276 | 122 | 166 | 361 | 50 | 499 | |
| Cap Entry Lane, veh/h | 841 | 841 | 889 | 889 | 1246 | 1246 | 950 | 950 | |
| Entry HV Adj Factor | 0.984 | 0.982 | 0.981 | 0.984 | 0.982 | 0.979 | 0.980 | 0.979 | |
| Flow Entry, veh/h | 92 | 217 | 271 | 120 | 163 | 353 | 49 | 489 | |
| Cap Entry, veh/h | 827 | 826 | 872 | 874 | 1223 | 1220 | 931 | 930 | |
| V/C Ratio | 0.112 | 0.263 | 0.311 | 0.137 | 0.133 | 0.290 | 0.053 | 0.525 | |
| Control Delay, s/veh | 5.5 | 7.2 | 7.5 | 5.5 | 4.1 | 5.6 | 4.3 | 10.7 | |
| LOS | A | A | A | A | A | A | A | B | |
| 95th %tile Queue, veh | 0 | 1 | 1 | 0 | 0 | 1 | 0 | 3 | |

Lanes, Volumes, Timings
11: US 24 & Curtis/Stapleton

2042 Background
PM

| |  |  |  |  |  |  |  |  |  |  |  |  |
|----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Group | SEL | SET | SER | NWL | NWT | NWR | NEL | NET | NER | SWL | SWT | SWR |
| Lane Configurations |  |  |  |  |  |  |  |  |  |  |  |  |
| Traffic Volume (vph) | 350 | 270 | 400 | 125 | 385 | 175 | 650 | 850 | 125 | 140 | 600 | 350 |
| Future Volume (vph) | 350 | 270 | 400 | 125 | 385 | 175 | 650 | 850 | 125 | 140 | 600 | 350 |
| Ideal Flow (vphpl) | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 |
| Storage Length (ft) | 190 | | 325 | 215 | | 215 | 890 | | 1000 | 790 | | 790 |
| Storage Lanes | 1 | | 1 | 1 | | 0 | 2 | | 1 | 1 | | 1 |
| Taper Length (ft) | 240 | | | 200 | | | 190 | | | 190 | | |
| Lane Util. Factor | 1.00 | 0.95 | 1.00 | 1.00 | 0.95 | 1.00 | 0.97 | 0.95 | 1.00 | 1.00 | 0.95 | 1.00 |
| Frt | | | 0.850 | | | 0.850 | | | 0.850 | | | 0.850 |
| Flt Protected | 0.950 | | | 0.950 | | | 0.950 | | | 0.950 | | |
| Satd. Flow (prot) | 1770 | 3539 | 1583 | 1770 | 3539 | 1583 | 3433 | 3539 | 1583 | 1770 | 3539 | 1583 |
| Flt Permitted | 0.201 | | | 0.574 | | | 0.950 | | | 0.950 | | |
| Satd. Flow (perm) | 374 | 3539 | 1583 | 1069 | 3539 | 1583 | 3433 | 3539 | 1583 | 1770 | 3539 | 1583 |
| Right Turn on Red | | | Yes | | | Yes | | | Yes | | | Yes |
| Satd. Flow (RTOR) | | | 430 | | | 188 | | | 132 | | | 227 |
| Link Speed (mph) | | 45 | | | 45 | | | 55 | | | 55 | |
| Link Distance (ft) | | 1349 | | | 1317 | | | 1382 | | | 1435 | |
| Travel Time (s) | | 20.4 | | | 20.0 | | | 17.1 | | | 17.8 | |
| Peak Hour Factor | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 |
| Adj. Flow (vph) | 376 | 290 | 430 | 134 | 414 | 188 | 684 | 895 | 132 | 147 | 632 | 368 |
| Shared Lane Traffic (%) | | | | | | | | | | | | |
| Lane Group Flow (vph) | 376 | 290 | 430 | 134 | 414 | 188 | 684 | 895 | 132 | 147 | 632 | 368 |
| Enter Blocked Intersection | No | No | No | No | No | No | No | No | No | No | No | No |
| Lane Alignment | Left | Left | Right | Left | Left | Right | Left | Left | Right | Left | Left | Right |
| Median Width(ft) | | 12 | | | 12 | | | 24 | | | 24 | |
| Link Offset(ft) | | 0 | | | 0 | | | 0 | | | 0 | |
| Crosswalk Width(ft) | | 16 | | | 16 | | | 16 | | | 16 | |
| Two way Left Turn Lane | | | | | | | | | | | | |
| Headway Factor | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Turning Speed (mph) | 15 | | 9 | 15 | | 9 | 15 | | 9 | 15 | | 9 |
| Number of Detectors | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 2 | 1 |
| Detector Template | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right |
| Leading Detector (ft) | 20 | 100 | 20 | 20 | 100 | 20 | 20 | 100 | 20 | 20 | 100 | 20 |
| Trailing Detector (ft) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Detector 1 Position(ft) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Detector 1 Size(ft) | 20 | 6 | 20 | 20 | 6 | 20 | 20 | 6 | 20 | 20 | 6 | 20 |
| Detector 1 Type | Cl+Ex | Cl+Ex | Cl+Ex | Cl+Ex | Cl+Ex | Cl+Ex | Cl+Ex | Cl+Ex | Cl+Ex | Cl+Ex | Cl+Ex | Cl+Ex |
| Detector 1 Channel | | | | | | | | | | | | |
| Detector 1 Extend (s) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Detector 1 Queue (s) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Detector 1 Delay (s) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Detector 2 Position(ft) | | 94 | | | 94 | | | 94 | | | 94 | |
| Detector 2 Size(ft) | | 6 | | | 6 | | | 6 | | | 6 | |
| Detector 2 Type | | Cl+Ex | | | Cl+Ex | | | Cl+Ex | | | Cl+Ex | |
| Detector 2 Channel | | | | | | | | | | | | |
| Detector 2 Extend (s) | | 0.0 | | | 0.0 | | | 0.0 | | | 0.0 | |
| Turn Type | pm+pt | NA | Perm | pm+pt | NA | Perm | Prot | NA | Perm | Prot | NA | Perm |
| Protected Phases | 1 | 6 | | 5 | 2 | | 7 | 4 | | 3 | 8 | |
| Permitted Phases | 6 | | 6 | 2 | | 2 | | | 4 | | | 8 |

Lanes, Volumes, Timings
 11: US 24 & Curtis/Stapleton

2042 Background
 PM



| Lane Group | SEL | SET | SER | NWL | NWT | NWR | NEL | NET | NER | SWL | SWT | SWR |
|-------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Detector Phase | 1 | 6 | 6 | 5 | 2 | 2 | 7 | 4 | 4 | 3 | 8 | 8 |
| Switch Phase | | | | | | | | | | | | |
| Minimum Initial (s) | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 |
| Minimum Split (s) | 9.5 | 22.5 | 22.5 | 9.5 | 22.5 | 22.5 | 9.5 | 22.5 | 22.5 | 9.5 | 22.5 | 22.5 |
| Total Split (s) | 15.0 | 25.0 | 25.0 | 15.0 | 25.0 | 25.0 | 36.0 | 60.0 | 60.0 | 20.0 | 44.0 | 44.0 |
| Total Split (%) | 12.5% | 20.8% | 20.8% | 12.5% | 20.8% | 20.8% | 30.0% | 50.0% | 50.0% | 16.7% | 36.7% | 36.7% |
| Maximum Green (s) | 10.5 | 20.5 | 20.5 | 10.5 | 20.5 | 20.5 | 31.5 | 55.5 | 55.5 | 15.5 | 39.5 | 39.5 |
| Yellow Time (s) | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 |
| All-Red Time (s) | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| Lost Time Adjust (s) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Lost Time (s) | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 |
| Lead/Lag | Lead | Lag | Lag | Lead | Lag | Lag | Lead | Lag | Lag | Lead | Lag | Lag |
| Lead-Lag Optimize? | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Vehicle Extension (s) | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 |
| Recall Mode | None | C-Min | C-Min | None | C-Min | C-Min | None | None | None | None | None | None |
| Walk Time (s) | | 7.0 | 7.0 | | 7.0 | 7.0 | | 7.0 | 7.0 | | 7.0 | 7.0 |
| Flash Dont Walk (s) | | 11.0 | 11.0 | | 11.0 | 11.0 | | 11.0 | 11.0 | | 11.0 | 11.0 |
| Pedestrian Calls (#/hr) | | 0 | 0 | | 0 | 0 | | 0 | 0 | | 0 | 0 |
| Act Effct Green (s) | 48.4 | 33.8 | 33.8 | 29.5 | 18.5 | 18.5 | 28.2 | 43.5 | 43.5 | 13.7 | 29.0 | 29.0 |
| Actuated g/C Ratio | 0.40 | 0.28 | 0.28 | 0.25 | 0.15 | 0.15 | 0.24 | 0.36 | 0.36 | 0.11 | 0.24 | 0.24 |
| v/c Ratio | 0.83 | 0.29 | 0.57 | 0.41 | 0.76 | 0.47 | 0.85 | 0.70 | 0.20 | 0.73 | 0.74 | 0.66 |
| Control Delay | 47.8 | 37.7 | 7.4 | 30.7 | 57.9 | 10.1 | 54.4 | 35.3 | 4.3 | 71.6 | 47.1 | 20.6 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 47.8 | 37.7 | 7.4 | 30.7 | 57.9 | 10.1 | 54.4 | 35.3 | 4.3 | 71.6 | 47.1 | 20.6 |
| LOS | D | D | A | C | E | B | D | D | A | E | D | C |
| Approach Delay | | 29.3 | | | 40.8 | | | 40.5 | | | 41.7 | |
| Approach LOS | | C | | | D | | | D | | | D | |
| Queue Length 50th (ft) | 218 | 94 | 0 | 66 | 161 | 0 | 260 | 311 | 0 | 110 | 238 | 96 |
| Queue Length 95th (ft) | #539 | 153 | 97 | 127 | 216 | 64 | 322 | 335 | 36 | #182 | 280 | 189 |
| Internal Link Dist (ft) | | 1269 | | | 1237 | | | 1302 | | | 1355 | |
| Turn Bay Length (ft) | 190 | | 325 | 215 | | 215 | 890 | | 1000 | 790 | | 790 |
| Base Capacity (vph) | 455 | 995 | 754 | 340 | 604 | 426 | 901 | 1636 | 803 | 228 | 1164 | 673 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.83 | 0.29 | 0.57 | 0.39 | 0.69 | 0.44 | 0.76 | 0.55 | 0.16 | 0.64 | 0.54 | 0.55 |

Intersection Summary

Area Type: Other
 Cycle Length: 120
 Actuated Cycle Length: 120
 Offset: 0 (0%), Referenced to phase 2:NWTL and 6:SETL, Start of Green
 Natural Cycle: 90
 Control Type: Actuated-Coordinated
 Maximum v/c Ratio: 0.85
 Intersection Signal Delay: 38.2 Intersection LOS: D
 Intersection Capacity Utilization 80.2% ICU Level of Service D
 Analysis Period (min) 15

95th percentile volume exceeds capacity, queue may be longer.

Queue shown is maximum after two cycles.

Splits and Phases: 11: US 24 & Curtis/Stapleton



























| Intersection | | | | | | | | | |
|-----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|--|
| Intersection Delay, s/veh | 11.0 | | | | | | | | |
| Intersection LOS | B | | | | | | | | |
| Approach | EB | | WB | | NB | | SB | | |
| Entry Lanes | 2 | | 2 | | 2 | | 2 | | |
| Conflicting Circle Lanes | 1 | | 1 | | 1 | | 1 | | |
| Adj Approach Flow, veh/h | 490 | | 230 | | 935 | | 618 | | |
| Demand Flow Rate, veh/h | 500 | | 235 | | 954 | | 630 | | |
| Vehicles Circulating, veh/h | 496 | | 955 | | 526 | | 533 | | |
| Vehicles Exiting, veh/h | 667 | | 525 | | 470 | | 657 | | |
| Ped Vol Crossing Leg, #/h | 0 | | 0 | | 0 | | 0 | | |
| Ped Cap Adj | 1.000 | | 1.000 | | 1.000 | | 1.000 | | |
| Approach Delay, s/veh | 8.4 | | 9.5 | | 13.4 | | 10.1 | | |
| Approach LOS | A | | A | | B | | B | | |
| Lane | Left | Right | Left | Right | Left | Right | Left | Right | |
| Designated Moves | LT | R | LT | R | L | TR | LT | R | |
| Assumed Moves | LT | R | LT | R | L | TR | LT | R | |
| RT Channelized | | | | | | | | | |
| Lane Util | 0.778 | 0.222 | 0.753 | 0.247 | 0.373 | 0.627 | 0.740 | 0.260 | |
| Follow-Up Headway, s | 2.535 | 2.535 | 2.535 | 2.535 | 2.535 | 2.535 | 2.535 | 2.535 | |
| Critical Headway, s | 4.544 | 4.544 | 4.544 | 4.544 | 4.544 | 4.544 | 4.544 | 4.544 | |
| Entry Flow, veh/h | 389 | 111 | 177 | 58 | 356 | 598 | 466 | 164 | |
| Cap Entry Lane, veh/h | 904 | 904 | 595 | 595 | 880 | 880 | 874 | 874 | |
| Entry HV Adj Factor | 0.979 | 0.982 | 0.978 | 0.983 | 0.980 | 0.980 | 0.980 | 0.982 | |
| Flow Entry, veh/h | 381 | 109 | 173 | 57 | 349 | 586 | 457 | 161 | |
| Cap Entry, veh/h | 886 | 888 | 582 | 585 | 863 | 862 | 857 | 858 | |
| V/C Ratio | 0.430 | 0.123 | 0.297 | 0.097 | 0.405 | 0.680 | 0.533 | 0.188 | |
| Control Delay, s/veh | 9.2 | 5.2 | 10.3 | 7.3 | 9.0 | 15.9 | 11.6 | 6.1 | |
| LOS | A | A | B | A | A | C | B | A | |
| 95th %tile Queue, veh | 2 | 0 | 1 | 0 | 2 | 5 | 3 | 1 | |

| Intersection | | | | | | | | | |
|-----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|--|
| Intersection Delay, s/veh | 8.8 | | | | | | | | |
| Intersection LOS | A | | | | | | | | |
| Approach | EB | | WB | | NB | | SB | | |
| Entry Lanes | 2 | | 2 | | 2 | | 2 | | |
| Conflicting Circle Lanes | 1 | | 1 | | 1 | | 1 | | |
| Adj Approach Flow, veh/h | 380 | | 269 | | 861 | | 516 | | |
| Demand Flow Rate, veh/h | 388 | | 275 | | 878 | | 527 | | |
| Vehicles Circulating, veh/h | 534 | | 851 | | 388 | | 444 | | |
| Vehicles Exiting, veh/h | 437 | | 415 | | 534 | | 682 | | |
| Ped Vol Crossing Leg, #/h | 0 | | 0 | | 0 | | 0 | | |
| Ped Cap Adj | 1.000 | | 1.000 | | 1.000 | | 1.000 | | |
| Approach Delay, s/veh | 6.8 | | 8.3 | | 10.4 | | 7.7 | | |
| Approach LOS | A | | A | | B | | A | | |
| Lane | Left | Right | Left | Right | Left | Right | Left | Right | |
| Designated Moves | LT | R | LT | R | L | TR | L | TR | |
| Assumed Moves | LT | R | LT | R | L | TR | L | TR | |
| RT Channelized | | | | | | | | | |
| Lane Util | 0.642 | 0.358 | 0.618 | 0.382 | 0.312 | 0.688 | 0.264 | 0.736 | |
| Follow-Up Headway, s | 2.535 | 2.535 | 2.535 | 2.535 | 2.535 | 2.535 | 2.535 | 2.535 | |
| Critical Headway, s | 4.544 | 4.544 | 4.544 | 4.544 | 4.544 | 4.544 | 4.544 | 4.544 | |
| Entry Flow, veh/h | 249 | 139 | 170 | 105 | 274 | 604 | 139 | 388 | |
| Cap Entry Lane, veh/h | 873 | 873 | 655 | 655 | 998 | 998 | 948 | 948 | |
| Entry HV Adj Factor | 0.979 | 0.978 | 0.979 | 0.981 | 0.982 | 0.981 | 0.978 | 0.979 | |
| Flow Entry, veh/h | 244 | 136 | 166 | 103 | 269 | 592 | 136 | 380 | |
| Cap Entry, veh/h | 855 | 855 | 641 | 642 | 979 | 978 | 928 | 928 | |
| V/C Ratio | 0.285 | 0.159 | 0.260 | 0.160 | 0.275 | 0.605 | 0.147 | 0.409 | |
| Control Delay, s/veh | 7.3 | 5.8 | 8.9 | 7.5 | 6.4 | 12.2 | 5.3 | 8.6 | |
| LOS | A | A | A | A | A | B | A | A | |
| 95th %tile Queue, veh | 1 | 1 | 1 | 1 | 1 | 4 | 1 | 2 | |

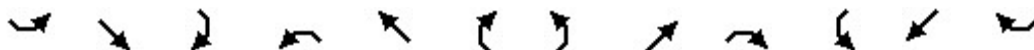
Lanes, Volumes, Timings
11: US 24 & Curtis/Stapleton

2042 Background + Site
AM (Filings 1-5)

| |  |  |  |  |  |  |  |  |  |  |  |  |
|----------------------------|---|---|---|---|---|---|--|---|---|---|---|---|
| Lane Group | SEL | SET | SER | NWL | NWT | NWR | NEL | NET | NER | SWL | SWT | SWR |
| Lane Configurations |  |  |  |  |  |  |  |  |  |  |  |  |
| Traffic Volume (vph) | 175 | 400 | 600 | 75 | 405 | 55 | 300 | 540 | 50 | 123 | 800 | 350 |
| Future Volume (vph) | 175 | 400 | 600 | 75 | 405 | 55 | 300 | 540 | 50 | 123 | 800 | 350 |
| Ideal Flow (vphpl) | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 |
| Storage Length (ft) | 190 | | 325 | 215 | | 215 | 890 | | 1000 | 790 | | 790 |
| Storage Lanes | 1 | | 1 | 1 | | 0 | 2 | | 1 | 1 | | 1 |
| Taper Length (ft) | 240 | | | 200 | | | 190 | | | 190 | | |
| Lane Util. Factor | 1.00 | 0.95 | 1.00 | 1.00 | 0.95 | 1.00 | 0.97 | 0.95 | 1.00 | 1.00 | 0.95 | 1.00 |
| Frt | | | 0.850 | | | 0.850 | | | 0.850 | | | 0.850 |
| Flt Protected | 0.950 | | | 0.950 | | | 0.950 | | | 0.950 | | |
| Satd. Flow (prot) | 1770 | 3539 | 1583 | 1770 | 3539 | 1583 | 3433 | 3539 | 1583 | 1770 | 3539 | 1583 |
| Flt Permitted | 0.337 | | | 0.490 | | | 0.950 | | | 0.950 | | |
| Satd. Flow (perm) | 628 | 3539 | 1583 | 913 | 3539 | 1583 | 3433 | 3539 | 1583 | 1770 | 3539 | 1583 |
| Right Turn on Red | | | Yes | | | Yes | | | Yes | | | Yes |
| Satd. Flow (RTOR) | | | 379 | | | 136 | | | 95 | | | 289 |
| Link Speed (mph) | | 45 | | | 45 | | | 55 | | | 55 | |
| Link Distance (ft) | | 1349 | | | 1317 | | | 1382 | | | 1435 | |
| Travel Time (s) | | 20.4 | | | 20.0 | | | 17.1 | | | 17.8 | |
| Peak Hour Factor | 0.95 | 0.95 | 0.95 | 0.92 | 0.92 | 0.92 | 0.93 | 0.93 | 0.93 | 0.95 | 0.95 | 0.95 |
| Adj. Flow (vph) | 184 | 421 | 632 | 82 | 440 | 60 | 323 | 581 | 54 | 129 | 842 | 368 |
| Shared Lane Traffic (%) | | | | | | | | | | | | |
| Lane Group Flow (vph) | 184 | 421 | 632 | 82 | 440 | 60 | 323 | 581 | 54 | 129 | 842 | 368 |
| Enter Blocked Intersection | No | No | No | No | No | No | No | No | No | No | No | No |
| Lane Alignment | Left | Left | Right | Left | Left | Right | Left | Left | Right | Left | Left | Right |
| Median Width(ft) | | 12 | | | 12 | | | 24 | | | 24 | |
| Link Offset(ft) | | 0 | | | 0 | | | 0 | | | 0 | |
| Crosswalk Width(ft) | | 16 | | | 16 | | | 16 | | | 16 | |
| Two way Left Turn Lane | | | | | | | | | | | | |
| Headway Factor | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Turning Speed (mph) | 15 | | 9 | 15 | | 9 | 15 | | 9 | 15 | | 9 |
| Number of Detectors | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 2 | 1 |
| Detector Template | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right |
| Leading Detector (ft) | 20 | 100 | 20 | 20 | 100 | 20 | 20 | 100 | 20 | 20 | 100 | 20 |
| Trailing Detector (ft) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Detector 1 Position(ft) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Detector 1 Size(ft) | 20 | 6 | 20 | 20 | 6 | 20 | 20 | 6 | 20 | 20 | 6 | 20 |
| Detector 1 Type | Cl+Ex | Cl+Ex | Cl+Ex | Cl+Ex | Cl+Ex | Cl+Ex | Cl+Ex | Cl+Ex | Cl+Ex | Cl+Ex | Cl+Ex | Cl+Ex |
| Detector 1 Channel | | | | | | | | | | | | |
| Detector 1 Extend (s) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Detector 1 Queue (s) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Detector 1 Delay (s) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Detector 2 Position(ft) | | 94 | | | 94 | | | 94 | | | 94 | |
| Detector 2 Size(ft) | | 6 | | | 6 | | | 6 | | | 6 | |
| Detector 2 Type | | Cl+Ex | | | Cl+Ex | | | Cl+Ex | | | Cl+Ex | |
| Detector 2 Channel | | | | | | | | | | | | |
| Detector 2 Extend (s) | | 0.0 | | | 0.0 | | | 0.0 | | | 0.0 | |
| Turn Type | pm+pt | NA | Perm | pm+pt | NA | Perm | Prot | NA | Perm | Prot | NA | Perm |
| Protected Phases | 1 | 6 | | 5 | 2 | | 7 | 4 | | 3 | 8 | |
| Permitted Phases | 6 | | 6 | 2 | | 2 | | | 4 | | | 8 |

Lanes, Volumes, Timings
11: US 24 & Curtis/Stapleton

2042 Background + Site
AM (Filings 1-5)



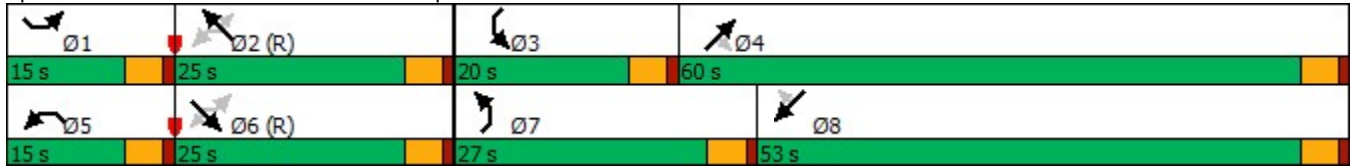
| Lane Group | SEL | SET | SER | NWL | NWT | NWR | NEL | NET | NER | SWL | SWT | SWR |
|-------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Detector Phase | 1 | 6 | 6 | 5 | 2 | 2 | 7 | 4 | 4 | 3 | 8 | 8 |
| Switch Phase | | | | | | | | | | | | |
| Minimum Initial (s) | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 |
| Minimum Split (s) | 9.5 | 22.5 | 22.5 | 9.5 | 22.5 | 22.5 | 9.5 | 22.5 | 22.5 | 9.5 | 22.5 | 22.5 |
| Total Split (s) | 15.0 | 25.0 | 25.0 | 15.0 | 25.0 | 25.0 | 27.0 | 60.0 | 60.0 | 20.0 | 53.0 | 53.0 |
| Total Split (%) | 12.5% | 20.8% | 20.8% | 12.5% | 20.8% | 20.8% | 22.5% | 50.0% | 50.0% | 16.7% | 44.2% | 44.2% |
| Maximum Green (s) | 10.5 | 20.5 | 20.5 | 10.5 | 20.5 | 20.5 | 22.5 | 55.5 | 55.5 | 15.5 | 48.5 | 48.5 |
| Yellow Time (s) | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 |
| All-Red Time (s) | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| Lost Time Adjust (s) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Lost Time (s) | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 |
| Lead/Lag | Lead | Lag | Lag | Lead | Lag | Lag | Lead | Lag | Lag | Lead | Lag | Lag |
| Lead-Lag Optimize? | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Vehicle Extension (s) | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 |
| Recall Mode | None | C-Min | C-Min | None | C-Min | C-Min | None | None | None | None | None | None |
| Walk Time (s) | | 7.0 | 7.0 | | 7.0 | 7.0 | | 7.0 | 7.0 | | 7.0 | 7.0 |
| Flash Dont Walk (s) | | 11.0 | 11.0 | | 11.0 | 11.0 | | 11.0 | 11.0 | | 11.0 | 11.0 |
| Pedestrian Calls (#/hr) | | 0 | 0 | | 0 | 0 | | 0 | 0 | | 0 | 0 |
| Act Effct Green (s) | 52.1 | 41.2 | 41.2 | 43.7 | 34.7 | 34.7 | 16.5 | 40.8 | 40.8 | 13.1 | 37.4 | 37.4 |
| Actuated g/C Ratio | 0.43 | 0.34 | 0.34 | 0.36 | 0.29 | 0.29 | 0.14 | 0.34 | 0.34 | 0.11 | 0.31 | 0.31 |
| v/c Ratio | 0.46 | 0.35 | 0.80 | 0.21 | 0.43 | 0.11 | 0.68 | 0.48 | 0.09 | 0.67 | 0.76 | 0.53 |
| Control Delay | 27.7 | 34.0 | 24.7 | 24.9 | 39.1 | 0.4 | 56.7 | 31.9 | 1.1 | 68.0 | 41.8 | 10.0 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 27.7 | 34.0 | 24.7 | 24.9 | 39.1 | 0.4 | 56.7 | 31.9 | 1.1 | 68.0 | 41.8 | 10.0 |
| LOS | C | C | C | C | D | A | E | C | A | E | D | A |
| Approach Delay | | 28.3 | | | 33.1 | | | 38.6 | | | 35.5 | |
| Approach LOS | | C | | | C | | | D | | | D | |
| Queue Length 50th (ft) | 88 | 130 | 193 | 37 | 147 | 0 | 124 | 187 | 0 | 97 | 308 | 44 |
| Queue Length 95th (ft) | 167 | 214 | #504 | 83 | 230 | 0 | 167 | 207 | 6 | 161 | 345 | 119 |
| Internal Link Dist (ft) | | 1269 | | | 1237 | | | 1302 | | | 1355 | |
| Turn Bay Length (ft) | 190 | | 325 | 215 | | 215 | 890 | | 1000 | 790 | | 790 |
| Base Capacity (vph) | 402 | 1213 | 792 | 424 | 1021 | 553 | 643 | 1636 | 783 | 228 | 1430 | 811 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.46 | 0.35 | 0.80 | 0.19 | 0.43 | 0.11 | 0.50 | 0.36 | 0.07 | 0.57 | 0.59 | 0.45 |

Intersection Summary

| | |
|---|---|
| Area Type: | Other |
| Cycle Length: | 120 |
| Actuated Cycle Length: | 120 |
| Offset: | 0 (0%), Referenced to phase 2:NWTL and 6:SETL, Start of Green |
| Natural Cycle: | 70 |
| Control Type: | Actuated-Coordinated |
| Maximum v/c Ratio: | 0.80 |
| Intersection Signal Delay: | 33.7 |
| Intersection LOS: | C |
| Intersection Capacity Utilization: | 74.7% |
| ICU Level of Service: | D |
| Analysis Period (min): | 15 |
| # 95th percentile volume exceeds capacity, queue may be longer. | |

Queue shown is maximum after two cycles.

Splits and Phases: 11: US 24 & Curtis/Stapleton



| Intersection | | | | | | | | | |
|-----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|--|
| Intersection Delay, s/veh | 8.4 | | | | | | | | |
| Intersection LOS | A | | | | | | | | |
| Approach | EB | | WB | | NB | | SB | | |
| Entry Lanes | 2 | | 2 | | 2 | | 2 | | |
| Conflicting Circle Lanes | 1 | | 1 | | 1 | | 1 | | |
| Adj Approach Flow, veh/h | 403 | | 619 | | 462 | | 605 | | |
| Demand Flow Rate, veh/h | 411 | | 631 | | 472 | | 617 | | |
| Vehicles Circulating, veh/h | 555 | | 494 | | 190 | | 578 | | |
| Vehicles Exiting, veh/h | 640 | | 168 | | 776 | | 547 | | |
| Ped Vol Crossing Leg, #/h | 0 | | 0 | | 0 | | 0 | | |
| Ped Cap Adj | 1.000 | | 1.000 | | 1.000 | | 1.000 | | |
| Approach Delay, s/veh | 7.3 | | 8.3 | | 4.9 | | 12.1 | | |
| Approach LOS | A | | A | | A | | B | | |
| Lane | Left | Right | Left | Right | Left | Right | Left | Right | |
| Designated Moves | LT | R | LT | R | L | TR | LT | R | |
| Assumed Moves | LT | R | LT | R | L | TR | LT | R | |
| RT Channelized | | | | | | | | | |
| Lane Util | 0.326 | 0.674 | 0.609 | 0.391 | 0.411 | 0.589 | 0.810 | 0.190 | |
| Follow-Up Headway, s | 2.535 | 2.535 | 2.535 | 2.535 | 2.535 | 2.535 | 2.535 | 2.535 | |
| Critical Headway, s | 4.544 | 4.544 | 4.544 | 4.544 | 4.544 | 4.544 | 4.544 | 4.544 | |
| Entry Flow, veh/h | 134 | 277 | 384 | 247 | 194 | 278 | 500 | 117 | |
| Cap Entry Lane, veh/h | 857 | 857 | 906 | 906 | 1195 | 1195 | 839 | 839 | |
| Entry HV Adj Factor | 0.980 | 0.982 | 0.981 | 0.980 | 0.979 | 0.979 | 0.981 | 0.983 | |
| Flow Entry, veh/h | 131 | 272 | 377 | 242 | 190 | 272 | 490 | 115 | |
| Cap Entry, veh/h | 840 | 841 | 888 | 888 | 1170 | 1169 | 823 | 825 | |
| V/C Ratio | 0.156 | 0.323 | 0.424 | 0.273 | 0.162 | 0.233 | 0.596 | 0.139 | |
| Control Delay, s/veh | 5.9 | 7.9 | 9.1 | 6.9 | 4.5 | 5.2 | 13.6 | 5.8 | |
| LOS | A | A | A | A | A | A | B | A | |
| 95th %tile Queue, veh | 1 | 1 | 2 | 1 | 1 | 1 | 4 | 0 | |

| Intersection | | | | | | | | | |
|-----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|--|
| Intersection Delay, s/veh | 7.9 | | | | | | | | |
| Intersection LOS | A | | | | | | | | |
| Approach | EB | | WB | | NB | | SB | | |
| Entry Lanes | 2 | | 2 | | 2 | | 2 | | |
| Conflicting Circle Lanes | 1 | | 1 | | 1 | | 1 | | |
| Adj Approach Flow, veh/h | 326 | | 450 | | 549 | | 548 | | |
| Demand Flow Rate, veh/h | 332 | | 459 | | 561 | | 559 | | |
| Vehicles Circulating, veh/h | 587 | | 549 | | 160 | | 499 | | |
| Vehicles Exiting, veh/h | 471 | | 172 | | 759 | | 509 | | |
| Ped Vol Crossing Leg, #/h | 0 | | 0 | | 0 | | 0 | | |
| Ped Cap Adj | 1.000 | | 1.000 | | 1.000 | | 1.000 | | |
| Approach Delay, s/veh | 6.9 | | 7.7 | | 5.3 | | 11.2 | | |
| Approach LOS | A | | A | | A | | B | | |
| Lane | Left | Right | Left | Right | Left | Right | Left | Right | |
| Designated Moves | LT | R | LT | R | L | TR | L | TR | |
| Assumed Moves | LT | R | LT | R | L | TR | L | TR | |
| RT Channelized | | | | | | | | | |
| Lane Util | 0.316 | 0.684 | 0.688 | 0.312 | 0.326 | 0.674 | 0.098 | 0.902 | |
| Follow-Up Headway, s | 2.535 | 2.535 | 2.535 | 2.535 | 2.535 | 2.535 | 2.535 | 2.535 | |
| Critical Headway, s | 4.544 | 4.544 | 4.544 | 4.544 | 4.544 | 4.544 | 4.544 | 4.544 | |
| Entry Flow, veh/h | 105 | 227 | 316 | 143 | 183 | 378 | 55 | 504 | |
| Cap Entry Lane, veh/h | 832 | 832 | 862 | 862 | 1228 | 1228 | 902 | 902 | |
| Entry HV Adj Factor | 0.983 | 0.982 | 0.981 | 0.979 | 0.978 | 0.979 | 0.982 | 0.979 | |
| Flow Entry, veh/h | 103 | 223 | 310 | 140 | 179 | 370 | 54 | 494 | |
| Cap Entry, veh/h | 819 | 818 | 845 | 844 | 1201 | 1202 | 885 | 883 | |
| V/C Ratio | 0.126 | 0.273 | 0.367 | 0.166 | 0.149 | 0.308 | 0.061 | 0.559 | |
| Control Delay, s/veh | 5.7 | 7.4 | 8.5 | 5.9 | 4.3 | 5.9 | 4.6 | 11.9 | |
| LOS | A | A | A | A | A | A | A | B | |
| 95th %tile Queue, veh | 0 | 1 | 2 | 1 | 1 | 1 | 0 | 4 | |

| Intersection | | | | | | |
|--------------------------|------|------|------|------|------|------|
| Int Delay, s/veh | 0.6 | | | | | |
| Movement | WBL | WBR | NBT | NBR | SBL | SBT |
| Lane Configurations | ↘↙ | | ↑ | ↗↘ | ↘↙ | ↑ |
| Traffic Vol, veh/h | 13 | 19 | 487 | 3 | 6 | 680 |
| Future Vol, veh/h | 13 | 19 | 487 | 3 | 6 | 680 |
| 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 | - | - | 235 | 285 | - |
| Veh in Median Storage, # | 0 | - | 0 | - | - | 0 |
| Grade, % | 0 | - | 0 | - | - | 0 |
| Peak Hour Factor | 78 | 78 | 92 | 92 | 93 | 93 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 17 | 24 | 529 | 3 | 6 | 731 |

| Major/Minor | Minor1 | Major1 | Major2 | | | |
|----------------------|--------|--------|--------|---|-------|---|
| Conflicting Flow All | 1272 | 529 | 0 | 0 | 532 | 0 |
| Stage 1 | 529 | - | - | - | - | - |
| Stage 2 | 743 | - | - | - | - | - |
| 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 | 185 | 550 | - | - | 1036 | - |
| Stage 1 | 591 | - | - | - | - | - |
| Stage 2 | 470 | - | - | - | - | - |
| Platoon blocked, % | | | - | - | | - |
| Mov Cap-1 Maneuver | 184 | 550 | - | - | 1036 | - |
| Mov Cap-2 Maneuver | 184 | - | - | - | - | - |
| Stage 1 | 591 | - | - | - | - | - |
| Stage 2 | 467 | - | - | - | - | - |

| Approach | WB | NB | SB |
|----------------------|------|----|-----|
| HCM Control Delay, s | 18.7 | 0 | 0.1 |
| HCM LOS | C | | |

| Minor Lane/Major Mvmt | NBT | NBRWBLn1 | SBL | SBT |
|-----------------------|-----|----------|-------|-------|
| Capacity (veh/h) | - | - | 304 | 1036 |
| HCM Lane V/C Ratio | - | - | 0.135 | 0.006 |
| HCM Control Delay (s) | - | - | 18.7 | 8.5 |
| HCM Lane LOS | - | - | C | A |
| HCM 95th %tile Q(veh) | - | - | 0.5 | 0 |

| Intersection | | | | | | |
|--------------------------|------|------|------|------|------|------|
| Int Delay, s/veh | 7.1 | | | | | |
| Movement | EBT | EBR | WBL | WBT | NBL | NBR |
| Lane Configurations | ↑↑ | ↑ | | ↑↑ | ↑ | |
| Traffic Vol, veh/h | 151 | 5 | 400 | 0 | 16 | 0 |
| Future Vol, veh/h | 151 | 5 | 400 | 0 | 16 | 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 | - | 200 | - | - | 0 | - |
| Veh in Median Storage, # | 0 | - | - | 0 | 0 | - |
| Grade, % | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 87 | 87 | 92 | 92 | 78 | 78 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 174 | 6 | 435 | 0 | 21 | 0 |

| Major/Minor | Major1 | Major2 | Minor1 | | |
|----------------------|--------|--------|--------|---|-----------|
| Conflicting Flow All | 0 | 0 | 180 | 0 | 1044 87 |
| Stage 1 | - | - | - | - | 174 - |
| Stage 2 | - | - | - | - | 870 - |
| Critical Hdwy | - | - | 4.14 | - | 6.84 6.94 |
| Critical Hdwy Stg 1 | - | - | - | - | 5.84 - |
| Critical Hdwy Stg 2 | - | - | - | - | 5.84 - |
| Follow-up Hdwy | - | - | 2.22 | - | 3.52 3.32 |
| Pot Cap-1 Maneuver | - | - | 1393 | - | 225 954 |
| Stage 1 | - | - | - | - | 839 - |
| Stage 2 | - | - | - | - | 370 - |
| Platoon blocked, % | - | - | - | - | - |
| Mov Cap-1 Maneuver | - | - | 1393 | - | 155 954 |
| Mov Cap-2 Maneuver | - | - | - | - | 155 - |
| Stage 1 | - | - | - | - | 839 - |
| Stage 2 | - | - | - | - | 255 - |

| Approach | EB | WB | NB |
|----------------------|----|-----|------|
| HCM Control Delay, s | 0 | 8.8 | 31.7 |
| HCM LOS | | | D |

| Minor Lane/Major Mvmt | NBLn1 | EBT | EBR | WBL | WBT |
|-----------------------|-------|-----|-----|-------|-----|
| Capacity (veh/h) | 155 | - | - | 1393 | - |
| HCM Lane V/C Ratio | 0.132 | - | - | 0.312 | - |
| HCM Control Delay (s) | 31.7 | - | - | 8.8 | 0 |
| HCM Lane LOS | D | - | - | A | A |
| HCM 95th %tile Q(veh) | 0.4 | - | - | 1.3 | - |

| Intersection | | | | | | |
|--------------------------|------|------|------|------|------|------|
| Int Delay, s/veh | 1 | | | | | |
| Movement | EBT | EBR | WBL | WBT | NBL | NBR |
| Lane Configurations | ↑↑ | ↑ | | ↑↑ | ↑ | |
| Traffic Vol, veh/h | 140 | 11 | 0 | 360 | 40 | 1 |
| Future Vol, veh/h | 140 | 11 | 0 | 360 | 40 | 1 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | - | 200 | - | - | 0 | - |
| Veh in Median Storage, # | 0 | - | - | 0 | 0 | - |
| Grade, % | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 78 | 78 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 152 | 12 | 0 | 391 | 51 | 1 |

| Major/Minor | Major1 | Major2 | Minor1 | | | |
|----------------------|--------|--------|--------|---|------|------|
| Conflicting Flow All | 0 | 0 | 164 | 0 | 348 | 76 |
| Stage 1 | - | - | - | - | 152 | - |
| Stage 2 | - | - | - | - | 196 | - |
| Critical Hdwy | - | - | 4.14 | - | 6.84 | 6.94 |
| Critical Hdwy Stg 1 | - | - | - | - | 5.84 | - |
| Critical Hdwy Stg 2 | - | - | - | - | 5.84 | - |
| Follow-up Hdwy | - | - | 2.22 | - | 3.52 | 3.32 |
| Pot Cap-1 Maneuver | - | - | 1412 | - | 623 | 970 |
| Stage 1 | - | - | - | - | 860 | - |
| Stage 2 | - | - | - | - | 818 | - |
| Platoon blocked, % | - | - | - | - | - | - |
| Mov Cap-1 Maneuver | - | - | 1412 | - | 623 | 970 |
| Mov Cap-2 Maneuver | - | - | - | - | 623 | - |
| Stage 1 | - | - | - | - | 860 | - |
| Stage 2 | - | - | - | - | 818 | - |

| Approach | EB | WB | NB |
|----------------------|----|----|------|
| HCM Control Delay, s | 0 | 0 | 11.3 |
| HCM LOS | | | B |

| Minor Lane/Major Mvmt | NBLn1 | EBT | EBR | WBL | WBT |
|-----------------------|-------|-----|-----|------|-----|
| Capacity (veh/h) | 628 | - | - | 1412 | - |
| HCM Lane V/C Ratio | 0.084 | - | - | - | - |
| HCM Control Delay (s) | 11.3 | - | - | 0 | - |
| HCM Lane LOS | B | - | - | A | - |
| HCM 95th %tile Q(veh) | 0.3 | - | - | 0 | - |

Lanes, Volumes, Timings
11: US 24 & Curtis/Stapleton

2042 Background + Site
PM (Filings 1-5)

| Lane Group | SEL | SET | SER | NWL | NWT | NWR | NEL | NET | NER | SWL | SWT | SWR |
|----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (vph) | 350 | 302 | 400 | 125 | 405 | 179 | 650 | 850 | 125 | 145 | 600 | 350 |
| Future Volume (vph) | 350 | 302 | 400 | 125 | 405 | 179 | 650 | 850 | 125 | 145 | 600 | 350 |
| Ideal Flow (vphpl) | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 |
| Storage Length (ft) | 190 | | 325 | 215 | | 215 | 890 | | 1000 | 790 | | 790 |
| Storage Lanes | 1 | | 1 | 1 | | 0 | 2 | | 1 | 1 | | 1 |
| Taper Length (ft) | 240 | | | 200 | | | 190 | | | 190 | | |
| Lane Util. Factor | 1.00 | 0.95 | 1.00 | 1.00 | 0.95 | 1.00 | 0.97 | 0.95 | 1.00 | 1.00 | 0.95 | 1.00 |
| Frt | | | 0.850 | | | 0.850 | | | 0.850 | | | 0.850 |
| Flt Protected | 0.950 | | | 0.950 | | | 0.950 | | | 0.950 | | |
| Satd. Flow (prot) | 1770 | 3539 | 1583 | 1770 | 3539 | 1583 | 3433 | 3539 | 1583 | 1770 | 3539 | 1583 |
| Flt Permitted | 0.183 | | | 0.555 | | | 0.950 | | | 0.950 | | |
| Satd. Flow (perm) | 341 | 3539 | 1583 | 1034 | 3539 | 1583 | 3433 | 3539 | 1583 | 1770 | 3539 | 1583 |
| Right Turn on Red | | | Yes | | | Yes | | | Yes | | | Yes |
| Satd. Flow (RTOR) | | | 430 | | | 192 | | | 132 | | | 225 |
| Link Speed (mph) | | 45 | | | 45 | | | 55 | | | 55 | |
| Link Distance (ft) | | 1349 | | | 1317 | | | 1382 | | | 1435 | |
| Travel Time (s) | | 20.4 | | | 20.0 | | | 17.1 | | | 17.8 | |
| Peak Hour Factor | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 |
| Adj. Flow (vph) | 376 | 325 | 430 | 134 | 435 | 192 | 684 | 895 | 132 | 153 | 632 | 368 |
| Shared Lane Traffic (%) | | | | | | | | | | | | |
| Lane Group Flow (vph) | 376 | 325 | 430 | 134 | 435 | 192 | 684 | 895 | 132 | 153 | 632 | 368 |
| Enter Blocked Intersection | No | No | No | No | No | No | No | No | No | No | No | No |
| Lane Alignment | Left | Left | Right | Left | Left | Right | Left | Left | Right | Left | Left | Right |
| Median Width(ft) | | 12 | | | 12 | | | 24 | | | 24 | |
| Link Offset(ft) | | 0 | | | 0 | | | 0 | | | 0 | |
| Crosswalk Width(ft) | | 16 | | | 16 | | | 16 | | | 16 | |
| Two way Left Turn Lane | | | | | | | | | | | | |
| Headway Factor | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Turning Speed (mph) | 15 | | 9 | 15 | | 9 | 15 | | 9 | 15 | | 9 |
| Number of Detectors | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 2 | 1 |
| Detector Template | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right |
| Leading Detector (ft) | 20 | 100 | 20 | 20 | 100 | 20 | 20 | 100 | 20 | 20 | 100 | 20 |
| Trailing Detector (ft) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Detector 1 Position(ft) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Detector 1 Size(ft) | 20 | 6 | 20 | 20 | 6 | 20 | 20 | 6 | 20 | 20 | 6 | 20 |
| Detector 1 Type | Cl+Ex | Cl+Ex | Cl+Ex | Cl+Ex | Cl+Ex | Cl+Ex | Cl+Ex | Cl+Ex | Cl+Ex | Cl+Ex | Cl+Ex | Cl+Ex |
| Detector 1 Channel | | | | | | | | | | | | |
| Detector 1 Extend (s) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Detector 1 Queue (s) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Detector 1 Delay (s) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Detector 2 Position(ft) | | 94 | | | 94 | | | 94 | | | 94 | |
| Detector 2 Size(ft) | | 6 | | | 6 | | | 6 | | | 6 | |
| Detector 2 Type | | Cl+Ex | | | Cl+Ex | | | Cl+Ex | | | Cl+Ex | |
| Detector 2 Channel | | | | | | | | | | | | |
| Detector 2 Extend (s) | | 0.0 | | | 0.0 | | | 0.0 | | | 0.0 | |
| Turn Type | pm+pt | NA | Perm | pm+pt | NA | Perm | Prot | NA | Perm | Prot | NA | Perm |
| Protected Phases | 1 | 6 | | 5 | 2 | | 7 | 4 | | 3 | 8 | |
| Permitted Phases | 6 | | 6 | 2 | | 2 | | | 4 | | | 8 |

Queue shown is maximum after two cycles.

Splits and Phases: 11: US 24 & Curtis/Stapleton



| Intersection | | | | | | | | | |
|-----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|--|
| Intersection Delay, s/veh | 11.6 | | | | | | | | |
| Intersection LOS | B | | | | | | | | |
| Approach | EB | | WB | | NB | | SB | | |
| Entry Lanes | 2 | | 2 | | 2 | | 2 | | |
| Conflicting Circle Lanes | 1 | | 1 | | 1 | | 1 | | |
| Adj Approach Flow, veh/h | 517 | | 233 | | 942 | | 642 | | |
| Demand Flow Rate, veh/h | 527 | | 238 | | 961 | | 656 | | |
| Vehicles Circulating, veh/h | 502 | | 993 | | 554 | | 533 | | |
| Vehicles Exiting, veh/h | 687 | | 522 | | 475 | | 698 | | |
| Ped Vol Crossing Leg, #/h | 0 | | 0 | | 0 | | 0 | | |
| Ped Cap Adj | 1.000 | | 1.000 | | 1.000 | | 1.000 | | |
| Approach Delay, s/veh | 8.9 | | 10.0 | | 14.4 | | 10.2 | | |
| Approach LOS | A | | A | | B | | B | | |
| Lane | Left | Right | Left | Right | Left | Right | Left | Right | |
| Designated Moves | LT | R | LT | R | L | TR | LT | R | |
| Assumed Moves | LT | R | LT | R | L | TR | LT | R | |
| RT Channelized | | | | | | | | | |
| Lane Util | 0.791 | 0.209 | 0.744 | 0.256 | 0.370 | 0.630 | 0.720 | 0.280 | |
| Follow-Up Headway, s | 2.535 | 2.535 | 2.535 | 2.535 | 2.535 | 2.535 | 2.535 | 2.535 | |
| Critical Headway, s | 4.544 | 4.544 | 4.544 | 4.544 | 4.544 | 4.544 | 4.544 | 4.544 | |
| Entry Flow, veh/h | 417 | 110 | 177 | 61 | 356 | 605 | 472 | 184 | |
| Cap Entry Lane, veh/h | 899 | 899 | 575 | 575 | 858 | 858 | 874 | 874 | |
| Entry HV Adj Factor | 0.981 | 0.982 | 0.978 | 0.984 | 0.980 | 0.980 | 0.980 | 0.978 | |
| Flow Entry, veh/h | 409 | 108 | 173 | 60 | 349 | 593 | 462 | 180 | |
| Cap Entry, veh/h | 882 | 883 | 563 | 566 | 841 | 840 | 857 | 855 | |
| V/C Ratio | 0.464 | 0.122 | 0.308 | 0.106 | 0.415 | 0.705 | 0.540 | 0.210 | |
| Control Delay, s/veh | 9.9 | 5.3 | 10.8 | 7.6 | 9.4 | 17.4 | 11.7 | 6.4 | |
| LOS | A | A | B | A | A | C | B | A | |
| 95th %tile Queue, veh | 2 | 0 | 1 | 0 | 2 | 6 | 3 | 1 | |

| Intersection | | | | | | | | | |
|-----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|--|
| Intersection Delay, s/veh | 9.8 | | | | | | | | |
| Intersection LOS | A | | | | | | | | |
| Approach | EB | | WB | | NB | | SB | | |
| Entry Lanes | 2 | | 2 | | 2 | | 2 | | |
| Conflicting Circle Lanes | 1 | | 1 | | 1 | | 1 | | |
| Adj Approach Flow, veh/h | 446 | | 296 | | 883 | | 557 | | |
| Demand Flow Rate, veh/h | 455 | | 302 | | 901 | | 568 | | |
| Vehicles Circulating, veh/h | 575 | | 872 | | 459 | | 472 | | |
| Vehicles Exiting, veh/h | 465 | | 488 | | 571 | | 702 | | |
| Ped Vol Crossing Leg, #/h | 0 | | 0 | | 0 | | 0 | | |
| Ped Cap Adj | 1.000 | | 1.000 | | 1.000 | | 1.000 | | |
| Approach Delay, s/veh | 7.7 | | 8.9 | | 12.2 | | 8.3 | | |
| Approach LOS | A | | A | | B | | A | | |
| Lane | Left | Right | Left | Right | Left | Right | Left | Right | |
| Designated Moves | LT | R | LT | R | L | TR | L | TR | |
| Assumed Moves | LT | R | LT | R | L | TR | L | TR | |
| RT Channelized | | | | | | | | | |
| Lane Util | 0.655 | 0.345 | 0.623 | 0.377 | 0.315 | 0.685 | 0.283 | 0.717 | |
| Follow-Up Headway, s | 2.535 | 2.535 | 2.535 | 2.535 | 2.535 | 2.535 | 2.535 | 2.535 | |
| Critical Headway, s | 4.544 | 4.544 | 4.544 | 4.544 | 4.544 | 4.544 | 4.544 | 4.544 | |
| Entry Flow, veh/h | 298 | 157 | 188 | 114 | 284 | 617 | 161 | 407 | |
| Cap Entry Lane, veh/h | 841 | 841 | 642 | 642 | 935 | 935 | 924 | 924 | |
| Entry HV Adj Factor | 0.979 | 0.981 | 0.979 | 0.982 | 0.979 | 0.981 | 0.981 | 0.979 | |
| Flow Entry, veh/h | 292 | 154 | 184 | 112 | 278 | 605 | 158 | 399 | |
| Cap Entry, veh/h | 824 | 825 | 629 | 631 | 915 | 917 | 907 | 905 | |
| V/C Ratio | 0.354 | 0.187 | 0.293 | 0.178 | 0.304 | 0.660 | 0.174 | 0.440 | |
| Control Delay, s/veh | 8.5 | 6.3 | 9.5 | 7.8 | 7.2 | 14.5 | 5.7 | 9.3 | |
| LOS | A | A | A | A | A | B | A | A | |
| 95th %tile Queue, veh | 2 | 1 | 1 | 1 | 1 | 5 | 1 | 2 | |

| Intersection | | | | | | |
|--------------------------|------|------|------|------|------|------|
| Int Delay, s/veh | 0.6 | | | | | |
| Movement | WBL | WBR | NBT | NBR | SBL | SBT |
| Lane Configurations | ↘ | | ↑ | ↑ | ↘ | ↑ |
| Traffic Vol, veh/h | 9 | 12 | 805 | 13 | 21 | 489 |
| Future Vol, veh/h | 9 | 12 | 805 | 13 | 21 | 489 |
| 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 | - | - | 235 | 285 | - |
| Veh in Median Storage, # | 0 | - | 0 | - | - | 0 |
| Grade, % | 0 | - | 0 | - | - | 0 |
| Peak Hour Factor | 78 | 78 | 93 | 93 | 92 | 92 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 12 | 15 | 866 | 14 | 23 | 532 |

| Major/Minor | Minor1 | Major1 | Major2 | | | |
|----------------------|--------|--------|--------|---|-------|---|
| Conflicting Flow All | 1444 | 866 | 0 | 0 | 880 | 0 |
| Stage 1 | 866 | - | - | - | - | - |
| Stage 2 | 578 | - | - | - | - | - |
| 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 | 145 | 353 | - | - | 768 | - |
| Stage 1 | 412 | - | - | - | - | - |
| Stage 2 | 561 | - | - | - | - | - |
| Platoon blocked, % | | | - | - | | - |
| Mov Cap-1 Maneuver | 141 | 353 | - | - | 768 | - |
| Mov Cap-2 Maneuver | 141 | - | - | - | - | - |
| Stage 1 | 412 | - | - | - | - | - |
| Stage 2 | 544 | - | - | - | - | - |

| Approach | WB | NB | SB |
|----------------------|------|----|-----|
| HCM Control Delay, s | 24.1 | 0 | 0.4 |
| HCM LOS | C | | |

| Minor Lane/Major Mvmt | NBT | NBRWBLn1 | SBL | SBT |
|-----------------------|-----|----------|-------|------|
| Capacity (veh/h) | - | - | 215 | 768 |
| HCM Lane V/C Ratio | - | - | 0.125 | 0.03 |
| HCM Control Delay (s) | - | - | 24.1 | 9.8 |
| HCM Lane LOS | - | - | C | A |
| HCM 95th %tile Q(veh) | - | - | 0.4 | 0.1 |

| Intersection | | | | | | |
|--------------------------|------|------|------|------|------|------|
| Int Delay, s/veh | 0.2 | | | | | |
| Movement | EBT | EBR | WBL | WBT | NBL | NBR |
| Lane Configurations | ↑↑ | ↑ | | ↑↑ | ↑ | |
| Traffic Vol, veh/h | 423 | 18 | 0 | 262 | 10 | 0 |
| Future Vol, veh/h | 423 | 18 | 0 | 262 | 10 | 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 | - | 200 | - | - | 0 | - |
| Veh in Median Storage, # | 0 | - | - | 0 | 0 | - |
| Grade, % | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 78 | 78 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 460 | 20 | 0 | 285 | 13 | 0 |

| Major/Minor | Major1 | Major2 | Minor1 | | |
|----------------------|--------|--------|--------|---|------|
| Conflicting Flow All | 0 | 0 | 480 | 0 | 603 |
| Stage 1 | - | - | - | - | 460 |
| Stage 2 | - | - | - | - | 143 |
| Critical Hdwy | - | - | 4.14 | - | 6.84 |
| Critical Hdwy Stg 1 | - | - | - | - | 5.84 |
| Critical Hdwy Stg 2 | - | - | - | - | 5.84 |
| Follow-up Hdwy | - | - | 2.22 | - | 3.52 |
| Pot Cap-1 Maneuver | - | - | 1079 | - | 430 |
| Stage 1 | - | - | - | - | 602 |
| Stage 2 | - | - | - | - | 869 |
| Platoon blocked, % | - | - | - | - | - |
| Mov Cap-1 Maneuver | - | - | 1079 | - | 430 |
| Mov Cap-2 Maneuver | - | - | - | - | 430 |
| Stage 1 | - | - | - | - | 602 |
| Stage 2 | - | - | - | - | 869 |

| Approach | EB | WB | NB |
|----------------------|----|----|------|
| HCM Control Delay, s | 0 | 0 | 13.6 |
| HCM LOS | | | B |

| Minor Lane/Major Mvmt | NBLn1 | EBT | EBR | WBL | WBT |
|-----------------------|-------|-----|-----|------|-----|
| Capacity (veh/h) | 430 | - | - | 1079 | - |
| HCM Lane V/C Ratio | 0.03 | - | - | - | - |
| HCM Control Delay (s) | 13.6 | - | - | 0 | - |
| HCM Lane LOS | B | - | - | A | - |
| HCM 95th %tile Q(veh) | 0.1 | - | - | 0 | - |

| Intersection | | | | | | |
|--------------------------|------|------|------|------|------|------|
| Int Delay, s/veh | 0.7 | | | | | |
| Movement | EBT | EBR | WBL | WBT | NBL | NBR |
| Lane Configurations | ↑↑ | ↑ | | ↑↑ | ↑ | |
| Traffic Vol, veh/h | 375 | 48 | 3 | 235 | 27 | 1 |
| Future Vol, veh/h | 375 | 48 | 3 | 235 | 27 | 1 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | - | 200 | - | - | 0 | - |
| Veh in Median Storage, # | 0 | - | - | 0 | 0 | - |
| Grade, % | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 92 | 92 | 87 | 87 | 78 | 78 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 408 | 52 | 3 | 270 | 35 | 1 |

| Major/Minor | Major1 | Major2 | Minor1 | | |
|----------------------|--------|--------|--------|---|------|
| Conflicting Flow All | 0 | 0 | 460 | 0 | 549 |
| Stage 1 | - | - | - | - | 408 |
| Stage 2 | - | - | - | - | 141 |
| Critical Hdwy | - | - | 4.14 | - | 6.84 |
| Critical Hdwy Stg 1 | - | - | - | - | 5.84 |
| Critical Hdwy Stg 2 | - | - | - | - | 5.84 |
| Follow-up Hdwy | - | - | 2.22 | - | 3.52 |
| Pot Cap-1 Maneuver | - | - | 1097 | - | 466 |
| Stage 1 | - | - | - | - | 640 |
| Stage 2 | - | - | - | - | 871 |
| Platoon blocked, % | - | - | - | - | - |
| Mov Cap-1 Maneuver | - | - | 1097 | - | 465 |
| Mov Cap-2 Maneuver | - | - | - | - | 465 |
| Stage 1 | - | - | - | - | 640 |
| Stage 2 | - | - | - | - | 868 |

| Approach | EB | WB | NB |
|----------------------|----|-----|------|
| HCM Control Delay, s | 0 | 0.1 | 13.3 |
| HCM LOS | | | B |

| Minor Lane/Major Mvmt | NBLn1 | EBT | EBR | WBL | WBT |
|-----------------------|-------|-----|-----|-------|-----|
| Capacity (veh/h) | 472 | - | - | 1097 | - |
| HCM Lane V/C Ratio | 0.076 | - | - | 0.003 | - |
| HCM Control Delay (s) | 13.3 | - | - | 8.3 | 0 |
| HCM Lane LOS | B | - | - | A | A |
| HCM 95th %tile Q(veh) | 0.2 | - | - | 0 | - |

Deviation Request - Currently Proposed

Eastbound Left-Turn Lane at Falcon Highway/Curtis Road





**Planning and Community
Development Department**
2880 International Circle
Colorado Springs, Colorado 80910
Phone: 719.520.6300
Fax: 719.520.6695
Website www.elpasoco.com

DEVIATION REQUEST AND DECISION FORM

Updated: 6/26/2019

PROJECT INFORMATION

| | |
|---------------------|--|
| Project Name : | Saddlehorn Filing No. 3 |
| Schedule No.(s) : | 4300000599 |
| Legal Description : | N2 SEC 3-13-64 EX THAT PT CONVEYED BY REC NO 215008985, 215008986, 219146505 & 219146506 |

APPLICANT INFORMATION

| | |
|-------------------|---|
| Company : | Vertex Consulting Services |
| Name : | Mr. Craig Dossey |
| | <input type="checkbox"/> Owner <input checked="" type="checkbox"/> Consultant <input type="checkbox"/> Contractor |
| Mailing Address : | 455 E Pikes Peak Ave, Ste 101, Colorado Springs, CO 80903 |
| Phone Number : | 719-733-8606 ext. 6606 |
| FAX Number : | |
| Email Address : | Craig.Dossey@vertexcoss.com |

ENGINEER INFORMATION

| | | | |
|-------------------|---|------------------------|-------|
| Company : | LSC Transportation Consultants, Inc | Colorado P.E. Number : | 31684 |
| Name : | Jeffrey C. Hodsdon | | |
| Mailing Address : | 2504 E. Pikes Peak Ave, Suite 304 Colorado Springs, CO 80909 | | |
| Phone Number : | 719-633-2868 | | |
| FAX Number : | 719-633-5430 | | |
| Email Address : | jeff@LSCtrans.com | | |

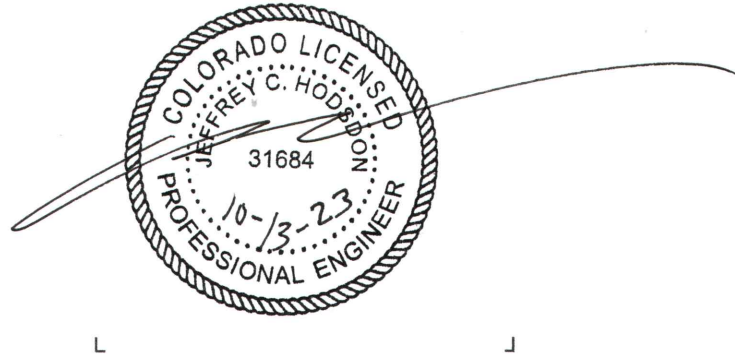
OWNER, APPLICANT, AND ENGINEER DECLARATION

To the best of my knowledge, the information on this application and all additional or supplemental documentation is true, factual and complete. I am fully aware that any misrepresentation of any information on this application may be grounds for denial. I have familiarized myself with the rules, regulations and procedures with respect to preparing and filing this application. I also understand that an incorrect submittal will be cause to have the project removed from the agenda of the Planning Commission, Board of County Commissioners and/or Board of Adjustment or delay review until corrections are made, and that any approval of this application is based on the representations made in the application and may be revoked on any breach of representation or condition(s) of approval.

Signature of owner (or authorized representative)

Date

Engineer's Seal, Signature
And Date of Signature



DEVIATION REQUEST (Attach diagrams, figures, and other documentation to clarify request)

A deviation from the standards of or in Section **2.3.7.E.1** of the Engineering Criteria Manual (ECM) is requested. The requested deviation is to allow the existing eastbound left turn deceleration lane at the intersection of Falcon Highway and Curtis Road to remain unchanged until proposed thresholds are met. The current full-width left turn lane length is 290' and the current taper is 110'; This deviation would allow deferment of actual construction to lengthen the existing turn lane to add vehicle storage/stacking length, and lengthen the taper to 240' with two conditions: 1) Saddlehorn development would escrow a fair share amount toward future construction to lengthen this lane and 2) The recommended "trigger" for proceeding with the construction to lengthen the lane would be once projected eastbound left turn queue (95th percentile) exceeds 50'. Although this is existing deficiency for travel in the opposite direction of the subject turn lane, the lengthening of the redirect taper to a 55:1 ratio in the westbound direction should be rolled into the future improvement to lengthen the taper and add stacking length.

Please refer to the TIS for details regarding turning movement volumes and projected queue lengths.

Identify the specific ECM standard which a deviation is requested:

ECM Section 2.3.7.E.1: The design elements for a left turn lane - taper, full-width-lane length, and storage length, which in combination makes up the left turn lane; redirect taper length (Table 2-29).

State the reason for the requested deviation:

The deviation is needed to defer actual construction until "reasonably necessary." There is a drainage structure just to the west that would likely require widening. Deferring construction will likely "buy time" to determine the future traffic control solution at Falcon Highway/Curtis Road (IE signal or roundabout). This would minimize the potential for constructing a "throw away," potentially costly improvement in case a modern roundabout is selected as the future traffic control, or if AWSC followed by a roundabout is becomes the phased approach to the traffic control. The escrow would cover the development's fair share cost of this potential improvement.

Explain the proposed alternative and compare to the ECM standards (May provide applicable regional or national standards used as basis):

The ECM requires turn lanes to include deceleration distance plus stacking distance plus taper length. Based on a design speed of 60 mph and the turning volumes, the ECM criteria for turn lanes requires a full-width-left-turn lane length of 290' plus a 240'-foot taper plus 50 feet (100' based on long-term projections) for left turn stacking/queuing for a total turn lane length of 580 feet. The existing lane meets the standard for full-width lane length but provides no storage length. The lane taper is short of the 240' standard.

The standard redirect taper ratio is 55:1. The existing ratio appears to be approximately 30:1. Although the redirect taper is short of the standard, the lane shift left is likely obvious to drivers. Continuation on a straight trajectory would direct a vehicle into the north-side roadside ditch.

LIMITS OF CONSIDERATION

(At least one of the conditions listed below must be met for this deviation request to be considered.)

- The ECM standard is inapplicable to the particular situation.
- Topography, right-of-way, or other geographical conditions or impediments impose an undue hardship and an equivalent alternative that can accomplish the same design objective is available and does not compromise public safety or accessibility.
- A change to a standard is required to address a specific design or construction problem, and if not modified, the standard will impose an undue hardship on the applicant with little or no material benefit to the public.

Provide justification:

There is a drainage structure just to the west that would likely require widening.

CRITERIA FOR APPROVAL

Per ECM section 5.8.7 the request for a deviation may be considered if the request is **not based exclusively on financial considerations**. The deviation must not be detrimental to public safety or surrounding property. The applicant must include supporting information demonstrating compliance with **all of the following criteria**:

The deviation will achieve the intended result with a comparable or superior design and quality of improvement.

The proposed escrow and triggers will provide assurances of applicant participation (or completion of the improvement) and a mechanism for timing of the improvement when necessary. The escrow would be a fair share amount of the complete improvement to ECM.

The deviation will not adversely affect safety or operations.

- The proposed 95th percentile queue length trigger is reasonable as that queue length would translate to about two passenger vehicles/pickup trucks or one larger commercial vehicle. A 50' queue comprises only 17 percent of the existing full-width lane length.
- The existing lane taper is a reasonable length at 110', despite being less than the 240' standard length.
- For the existing deficiency of the WB redirect taper, consideration for posting a warning sign MUTCD W5-1.

The deviation will not adversely affect maintenance and its associated cost.

As the proposed lanes are shorter than those required by the ECM the associated maintenance costs would be lower.

The deviation will not adversely affect aesthetic appearance.

The deviation proposes deferring an improvement, so no change to current aesthetics.

The deviation meets the design intent and purpose of the ECM standards.

The deviation is a request to defer bringing turn lane elements up to ECM standards when reasonably necessary to do so. "Reasonably necessary" has been defined through proposed "triggers." There is a drainage structure just to the west that would likely require widening. The deferment would minimize the potential for constructing a "throw away," potentially costly improvement. The lane lengthening would not be necessary if a modern roundabout is selected as the future traffic control, or if AWSC followed by a roundabout is becomes the phased approach to the traffic control. The escrow would cover the development's fair share cost of this **potentially** needed improvement.

The deviation meets the control measure requirements of Part I.E.3 and Part I.E.4 of the County's MS4 permit, as applicable.

Water quality will be provided.

REVIEW AND RECOMMENDATION:

Approved by the ECM Administrator

This request has been determined to have met the criteria for approval. A deviation from Section _____ of the ECM is hereby granted based on the justification provided.

Γ _____ 7

L _____ 7

Denied by the ECM Administrator

This request has been determined not to have met criteria for approval. A deviation from Section _____ of the ECM is hereby denied.

Γ _____ 7

L _____ 7

ECM ADMINISTRATOR COMMENTS/CONDITIONS:

1.1. PURPOSE

The purpose of this resource is to provide a form for documenting the findings and decision by the ECM Administrator concerning a deviation request. The form is used to document the review and decision concerning a requested deviation. The request and decision concerning each deviation from a specific section of the ECM shall be recorded on a separate form.

1.2. BACKGROUND

A deviation is a critical aspect of the review process and needs to be documented to ensure that the deviations granted are applied to a specific development application in conformance with the criteria for approval and that the action is documented as such requests can point to potential needed revisions to the ECM.

1.3. APPLICABLE STATUTES AND REGULATIONS

Section 5.8 of the ECM establishes a mechanism whereby an engineering design standard can be modified when if strictly adhered to, would cause unnecessary hardship or unsafe design because of topographical or other conditions particular to the site, and that a departure may be made without destroying the intent of such provision.

1.4. APPLICABILITY

All provisions of the ECM are subject to deviation by the ECM Administrator provided that one of the following conditions is met:

- The ECM standard is inapplicable to a particular situation.
- Topography, right-of-way, or other geographical conditions or impediments impose an undue hardship on the applicant, and an equivalent alternative that can accomplish the same design objective is available and does not compromise public safety or accessibility.
- A change to a standard is required to address a specific design or construction problem, and if not modified, the standard will impose an undue hardship on the applicant with little or no material benefit to the public.

1.5. TECHNICAL GUIDANCE

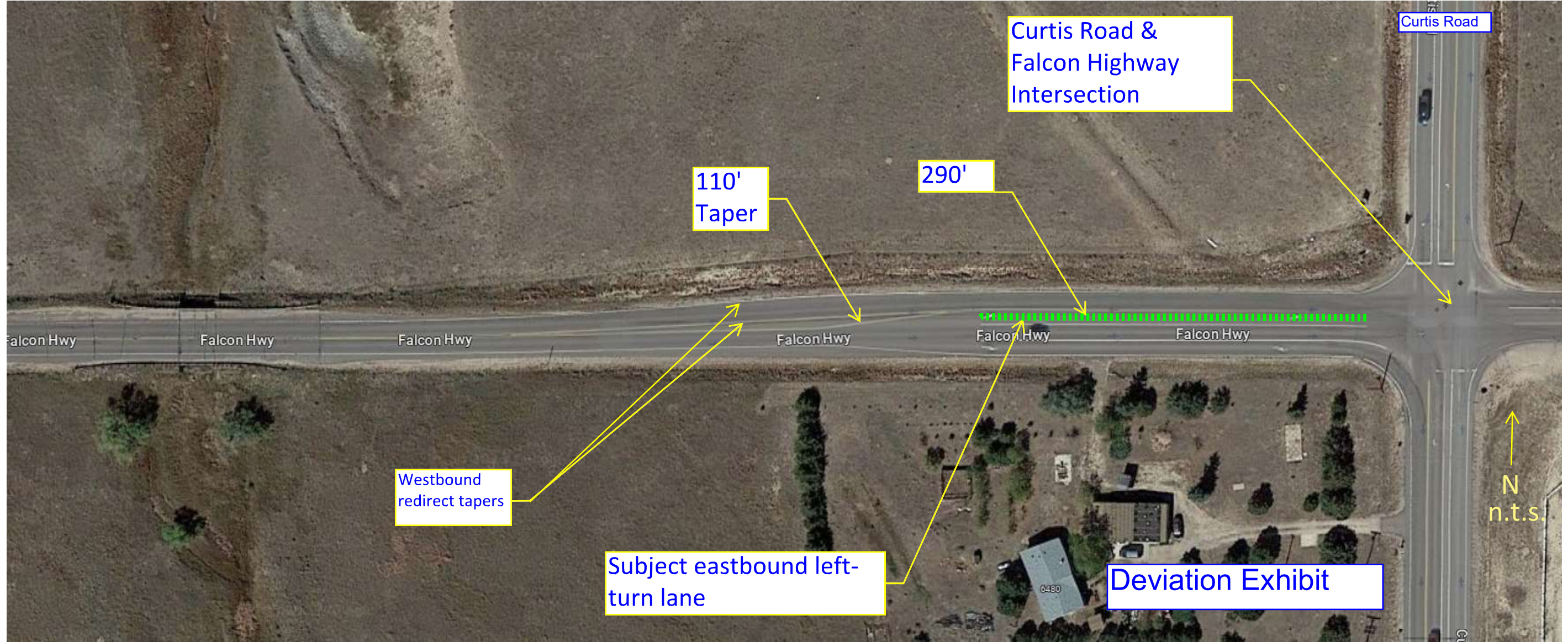
The review shall ensure all criteria for approval are adequately considered and that justification for the deviation is properly documented.

1.6. LIMITS OF APPROVAL

Whether a request for deviation is approved as proposed or with conditions, the approval is for project-specific use and shall not constitute a precedent or general deviation from these Standards.

1.7. REVIEW FEES

A Deviation Review Fee shall be paid in full at the time of submission of a request for deviation. The fee for Deviation Review shall be as determined by resolution of the BoCC.



Curtis Road & Falcon Highway Intersection

Curtis Road

110' Taper

290'

Falcon Hwy

Falcon Hwy

Falcon Hwy

Falcon Hwy

Falcon Hwy

Falcon Hwy

Westbound redirect tapers

Subject eastbound left-turn lane

Deviation Exhibit

N
n.t.s.

Approved Deviation - Curtis Road





Planning and Community
Development Department
2880 International Circle
Colorado Springs, Colorado 80910
Phone: 719.520.6300
Fax: 719.520.6695
Website www.elpasoco.com

DEVIATION REQUEST AND DECISION FORM

Updated: 6/26/2019

PROJECT INFORMATION

Project Name : Saddlehorn Ranch – Filing 1
 Schedule No.(s) : 4300000561, 4400000562, 4300000556
 Legal Description : SEE ATTACHED – Exhibit C

APPLICANT INFORMATION

Company : WILLIAM GUMAN & ASSOCIATES
 Name : BILL GUMAN
 Owner Consultant Contractor
 Mailing Address : 731 NORTH WEBER STREET, SUITE 10, COLORADO SPRINGS, COLORADO, 80903

 Phone Number : (719) 633-9700
 FAX Number : N/A
 Email Address : BILL@GUMAN.NET

ENGINEER INFORMATION

Company : JR ENGINEERING
 Name : MIKE BRAMLETT Colorado P.E. Number : 32314
 Mailing Address : 5475 TECH CENTER DRIVE, SUITE 235, COLORADO SPRINGS, COLORADO 80919

 Phone Number : 719-593-2593
 FAX Number : N/A
 Email Address : MBRAMLETT@JRENGINEERING.COM

OWNER, APPLICANT, AND ENGINEER DECLARATION

To the best of my knowledge, the information on this application and all additional or supplemental documentation is true, factual and complete. I am fully aware that any misrepresentation of any information on this application may be grounds for denial. I have familiarized myself with the rules, regulations and procedures with respect to preparing and filing this application. I also understand that an incorrect submittal will be cause to have the project removed from the agenda of the Planning Commission, Board of County Commissioners and/or Board of Adjustment or delay review until corrections are made, and that any approval of this application is based on the representations made in the application and may be revoked on any breach of representation or condition(s) of approval.

Bill Guman FOR RO1 PROPERTY GROUP _____ 09/28/2026
 Signature of owner (or authorized representative) Date

Engineer's Seal, Signature
And Date of Signature

Mike Bramlett



DEVIATION REQUEST (Attach diagrams, figures, and other documentation to clarify request)

A deviation from the standards of or in Section **ECM section 2.2.4 Figure 2-4 Rural Minor Arterial** of the Engineering Criteria Manual (ECM) is requested for the Curtis Road cross-section.

Identify the specific ECM standard which a deviation is requested:

ECM criteria for a rural minor arterial cross sections requires a 12' travel lane and an 8' paved shoulder. The 2040 MTCP identifies Curtis Road as a two-lane rural Principal Arterial. Since there is no standard 2-lane principal arterial cross-section this deviation will document the proposed 2040 cross-section (rural minor arterial) and reasoning for the proposed ROW dedication width

State the reason for the requested deviation:

To build the full cross-section, ROW would need to be obtained from adjacent property owners to accommodate the full 8' paved shoulder on the west side of the road. To place the burden of ROW acquisition from the adjacent property owners on the Saddlehorn development would not be fair or equitable.

While the minor arterial half-cross section could be built on the east (Saddlehorn) side of the road, it is not the appropriate time to build out the full section until traffic warrants the arterial cross-section and both sides of the road can be constructed.

Explain the proposed alternative and compare to the ECM standards (May provide applicable regional or national standards used as basis):

The proposed alternative for the west side is for the 8' paved shoulder to be reduced to a 2' paved and 2 ft gravel shoulder. This is the maximum that can fit inside the existing western ROW. Exhibit A provides the proposed cross section.

The applicant will provided a 72 foot half right of way along with an additional 18 foot ROW preservation on all plats adjacent to Curtis Road consistent with the anticipated ROW needs identified in the MTCP and the Preserved Corridor Network Plan.

The applicant is also subject to the El Paso County Road Impact Fee per resolution No. 19-471 and is therefore paying its fair and equitable share of necessary improvements identified in the MTCP.

For Curtis Road adjacent to Filing 1 east half-section, the applicant proposes to provide a 12 ft. travel lane, 2ft. asphalt shoulder and 2 ft. gravel shoulder for Filing 1 development. The proposed alternative is consistent with the ECM Table 2.5 design criteria for a rural local roadway and intersections are projected to operate at a level of service C or better with the buildout of Filing 1.

For Curtis Road adjacent to future filings, the applicant proposes to provide a 12 ft. travel lane, 8ft. asphalt shoulder and 2 ft. gravel shoulder and will retrofit the Filing 1 improvements to provide an 8 ft asphalt shoulder and 2 foot gravel shoulder on the east side. The proposed alternative is consistent with the ECM Table 2.4 design criteria for a minor arterial roadway

Per the rezoning approval, a condition was placed on Curtis Rd. requiring improvements to arterial road standards with potential reimbursement from the fee program. The condition wording is "*The adjacent portions of Curtis Road shall be improved to meet the minimum standards of an arterial roadway per the Engineering Criteria Manual. Improvements will be made as part of the Curtis Road access permitting. The necessary improvements and phasing will be clarified with the future applications for Preliminary Plan and Final Plat. The work may be subject to any reimbursement as outlined in the El Paso County Road Impact Fee Program*". The applicant is providing adequate ROW to meet this condition for Filing 1 and is proposing a reduced cross section to local road criteria for Filing 1. Future filings adjacent to Curtis Road will provide dedicate adequate ROW and will build a rural minor arterial half cross section on the east half of Curtis Rd and a rural local half cross section on the west half. Curtis can be expanded to meet the full minor arterial cross section criteria once the county has obtained the additional ROW from western parcels.

Exhibit A provides the proposed cross sections.

LIMITS OF CONSIDERATION

(At least one of the conditions listed below must be met for this deviation request to be considered.)

- The ECM standard is inapplicable to the particular situation.
- Topography, right-of-way, or other geographical conditions or impediments impose an undue hardship and an equivalent alternative that can accomplish the same design objective is available and does not compromise public safety or accessibility.
- A change to a standard is required to address a specific design or construction problem, and if not modified, the standard will impose an undue hardship on the applicant with little or no material benefit to the public.

Provide justification:

ROW must be obtained on the west side of the road for the full 8' paved shoulder to be constructed on Curtis Road. The maximum shoulder width that can be constructed inside the existing ROW is a 2' paved shoulder.

CRITERIA FOR APPROVAL

Per ECM section 5.8.7 the request for a deviation may be considered if the request is **not based exclusively on financial considerations**. The deviation must not be detrimental to public safety or surrounding property. The applicant must include supporting information demonstrating compliance with **all of the following criteria**:

The deviation will achieve the intended result with a comparable or superior design and quality of improvement.

This deviation will improve the roadway by adding a shoulder and maintain a consistent cross section until such time as the additional western ROW is acquired as part of the overall improvement of Curtis Road to minor arterial standards. This request is not based on financial considerations but the practicality of obtaining ROW from private properties.

The deviation will not adversely affect safety or operations.

This deviation will improve the safety when compared to the existing condition that has no asphalt shoulder and 11 foot travel lanes. Operations will not be impacted by the proposed cross section.

As final plats take access to Curtis Road the each intersection will be designed to accommodate the requirements listed in Table 10 Roadway Improvements of the Traffic Impact Study.

Filing 1 intersection improvements will provide a 12 foot through lane, 12 ft decell/turn lane, 2 ft paved shoulder and a 2 ft gravel shoulder.

The deviation will not adversely affect maintenance and its associated cost.

Maintenance of the roadways will not be impacted.

The deviation will not adversely affect aesthetic appearance.

The deviation has no bearing on the aesthetic appearance.

The deviation meets the design intent and purpose of the ECM standards.

Yes, the deviation meets the design intent and purpose of the ECM standards. Once ROW can be obtained, the road can be built out to the full two lane rural principal arterial section as indicated in the 2040 MTCP.

The 2040 Total ADT of 10,000 ADT is within the proposed cross section criteria. See Exhibit B for existing, Filing 1, buildout and 2040 ADT estimates from the TIS.

The deviation meets the control measure requirements of Part I.E.3 and Part I.E.4 of the County's MS4 permit, as applicable.

Yes, the deviation meets the control measure requirements of Part I.E.3 and Part I.E.4 of the County's MS4 permit, this project is proposing Water Quality facilities as required by the criteria.

REVIEW AND RECOMMENDATION:

Approved by the ECM Administrator

This request has been determined to have met the criteria for approval. A deviation from Section 2.2.4 of the ECM is hereby granted based on the justification provided.

Γ

APPROVED
Engineering Department

01/05/2021 6:09:12 PM

dsdnijkamp

**EPC Planning & Community
Development Department**

L

Denied by the ECM Administrator

This request has been determined not to have met criteria for approval. A deviation from Section _____ of the ECM is hereby denied.

Γ

Γ

L

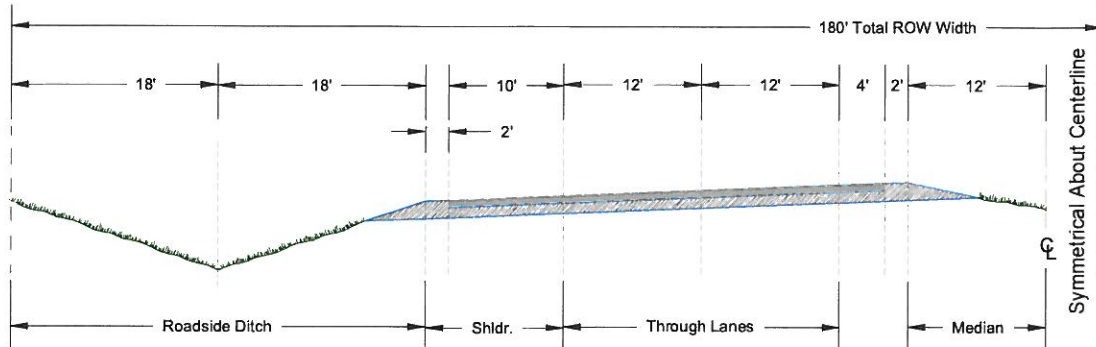
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ECM ADMINISTRATOR COMMENTS/CONDITIONS:

Construction of the cross-section as proposed is not reimbursable under the County Road Fee program.

This deviation shall be re-evaluated with the next Saddlehorn Ranch subdivision filing.

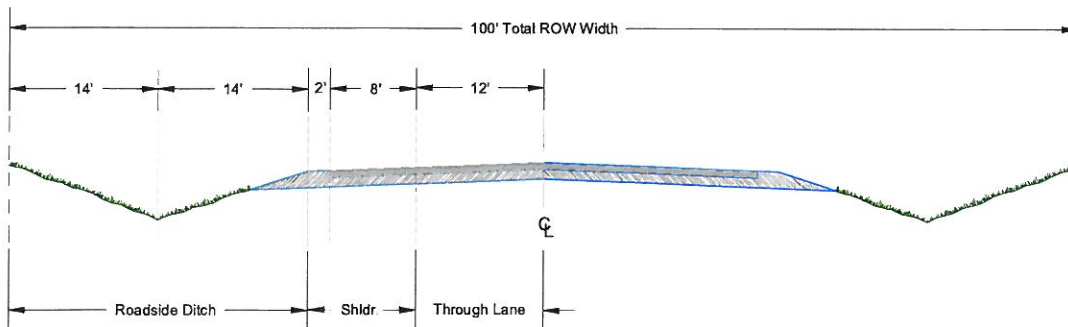
Figure 2-4. Typical Rural Principal Arterial Partial Cross-Section (4 Lane)



3. Minor Arterial

Minor arterials serve high-speed and high-volume traffic over medium distances, or are anticipated to serve this kind of traffic within a twenty-year period. Access is restricted through prescribed distances between intersections, use of medians, and no full movement parcel access (See Figure 2-5). Minor arterial status is assigned to rural roadways where the probability of significant travel demand in the future is high. Rights-of-way, easements, setbacks, and access limitations shall be pursued through the land development process on properties adjacent to minor arterials.

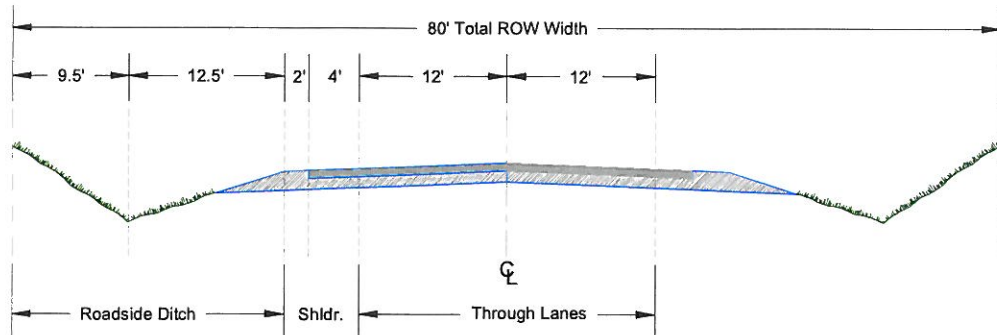
Figure 2-5. Typical Rural Minor Arterial Partial Cross Section



4. Major Collector

Major collectors serve as links between local access and arterial facilities over medium-to-long distances. Major collectors are managed to

Figure 2-7. Typical Rural Minor Collector Cross Section



6. Local

Local roadways provide direct lot access and deliver lot-generated trips to collector roadways. Although access needs are high, accesses shall not be allowed to compromise the safety, health or welfare of roadway users (See Figure 2-8).

Figure 2-8. Typical Rural Local Cross Section

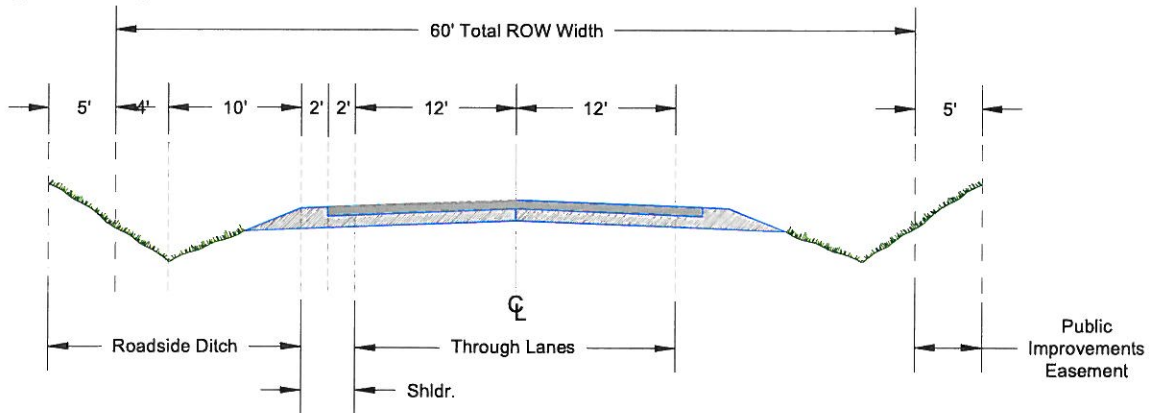


Exhibit A - cont

Table 2-3. Roadway Design Criteria Continued

| Criteria | Concern | Guideline |
|--|---|--|
| Minimize Space Devoted to Road Use | It is desirable to minimize local road mileage, thereby reducing construction and maintenance costs, as well as permitting the most efficient use of land. Roads should also have an appearance commensurate with their function. | Roads should be designed to complement local character. |
| Relate Road to Topography | Local roads are more attractive and economical if constructed to closely adhere to topography (minimize cut and fill). | The important role that roads play in the overall storm drainage system can be enhanced by closely following existing topography. |
| Layout Road to Achieve Optimum Subdivision of Land | The arrangement of roads should allow for economical and practical patterns, shapes, and sizes of adjacent lots. Roads as a function of land use must not unduly hinder the development of land. | Distances between roads, number of roads, and related elements all have a bearing on efficient subdivision of an area. Access to adjoining properties should also be encouraged. |

2.3.2 Design Standards by Functional Classification

Section 2.2.4 of these standards identifies the Roadway Functional Classifications recognized and used by the County. Table 2-4 through Table 2-7 summarize many of the minimum roadway design standards by category and functional classification. Detailed road Standard Drawings are provided in Appendix F.

Table 2-4. Roadway Design Standards for Rural Expressways and Arterials

| Criteria | Expressways | | Arterials | | Minor |
|---------------------------------------|--|--|--|--|---------------------------------------|
| | 6 Lane | 4 Lane | 6 Lane Principal | 4 Lane Principal | |
| Design Speed / Posted Speed (MPH) | 70 / 65 | 70 / 65 | 70 / 65 | 70 / 65 | 60 / 55 |
| Clear Zone | 34' | 34' | 34' | 34' | 30' |
| Minimum Centerline Curve Radius | 2,050 ¹ | 2,050 ¹ | 2,050 ¹ | 2,050 ¹ | 1,505 ¹ |
| Number of Through Lanes | 6 | 4 | 6 | 4 | 2 |
| Lane Width | 12' | 12' | 12' | 12' | 12' |
| Right-of-Way | 210' | 180' | 210' | 180' | 100' |
| Paved Width | 56' ² | 38' ² | 56' ² | 38' ² | 40' |
| Median Width | 24' | 24' | 24' | 24' | n/a |
| Outside Shoulder Width (paved/gravel) | 12'(10' ¹ / ₂)' | 12'(10' ¹ / ₂)' | 12'(10' ¹ / ₂)' | 12'(10' ¹ / ₂)' | 10'(8' ¹ / ₂)' |
| Inside Shoulder Width (paved/gravel) | 12'(10' ¹ / ₂)' | 6'(4' ¹ / ₂)' | 12'(10' ¹ / ₂)' | 6'(4' ¹ / ₂)' | n/a |
| Design ADT | | 48,000 | | 40,000 | 10,000 |
| Design Vehicle | WB-67 | WB-67 | WB-67 | WB-67 | WB-67 |
| Access Permitted | No | No | No | No | No |
| Access Spacing | n/a | n/a | n/a | n/a | n/a |
| Intersection Spacing | 1 mile | 1 mile | ½ mile | ½ mile | ¼ mile |
| Parking Permitted | No | No | No | No | No |
| Minimum Flowline Grade | 1% | 1% | 1% | 1% | 1% |

Exhibit A - Cont

Chapter 2 Transportation Facilities
 Adopted: 12/23/2004
 Revised: 12/13/2016
 REVISION 6
 Section 2.3.2-2.3.2

| | | | | | |
|---|------|------|------|------|------|
| Centerline Grade (Min.-Max.) | 1-5% | 1-5% | 1-5% | 1-5% | 1-6% |
| Intersection Grades (Min.-Max.) | 1-2% | 1-2% | 1-3% | 1-3% | 1-4% |
| ¹ Assumes 4% superelevation, 6% for 70 MPH design speeds | | | | | |
| ² Pavement width in each direction for divided roadways | | | | | |

Table 2-5. Roadway Design Standards for Rural Collectors and Locals

| Criteria | Collectors | | Local | |
|---|-------------------|-------------------|-------------------|------------------|
| | Major | Minor | Local | Gravel |
| Design Speed / Posted Speed (MPH) | 50 / 45 | 40 / 35 | 30 / 30 | 50/45 |
| Clear Zone | 20' | 14' | 7' | 12' |
| Minimum Centerline Curve Radius | 930' ² | 565' | 300' | As Approved |
| Number of Through Lanes | 2 | 2 | 2 | 2 |
| Lane Width | 12' | 12' | 12' | 12' |
| Right of Way | 90' | 80' | 70' ³ | 70' ³ |
| Paved Width | 32' | 32' | 28' | n/a |
| Median Width | n/a | n/a | n/a | n/a |
| Outside Shoulder Width (paved/gravel) | 8'(4'/4') | 6'(4'/2') | 4'(2'/2') | 4'(0'/4') |
| Inside Shoulder Width (paved/gravel) | n/a | n/a | n/a | n/a |
| Design ADT | 3,000 | 1,500 | 750 | 200 |
| Design Vehicle | WB-67 | WB-67 | WB-50 | WB-50 |
| Access Permitted | No | Yes | Yes | Yes |
| Access Spacing | n/a | Frontage | Frontage | Frontage |
| Intersection Spacing | ¼ mile | 660' | 330' | 330' |
| Parking Permitted | No | Yes | Yes | No |
| Minimum Flowline Grade | 1% | 1% | 1% | 1% |
| Centerline Grade (Min.-Max.) | 1-8% ¹ | 1-8% ¹ | 1-8% ¹ | 1-8% |
| Intersection Grades (Min.-Max.) | 1-4% | 1-4% | 1-4% | 1-4% |
| ¹ 10% maximum grade permitted at the discretion of the ECM Administrator | | | | |
| ² Assumes 4% superelevation, 6% for 70 MPH design speeds | | | | |
| ³ 60-foot right-of-way plus two 5-foot Public Improvements Easements granted to El Paso County | | | | |



PROPERTY DESCRIPTION:

PARCEL A:

A PARCEL OF LAND LOCATED IN SECTION 3, TOWNSHIP 13 SOUTH, RANGE 64 WEST OF THE 6TH P.M., EL PASO COUNTY, COLORADO MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGINNING AT THE NORTHWEST CORNER OF SAID SECTION 3; THENCE S 89 DEGREES 21 MINUTES 33 SECONDS E, ALONG THE NORTH LINE OF SAID SECTION 3, 5275.27 FEET TO THE NORTHEAST CORNER THEREOF; THENCE S 00 DEGREES 04 MINUTES 45 SECONDS E, ALONG THE EAST LINE OF SAID SECTION 3, 1841.19 FEET; THENCE N 89 DEGREES 49 MINUTES 04 SECONDS W, 5280.38 FEET TO A POINT ON THE WEST LINE OF SAID SECTION 3; THENCE N 00 DEGREES 05 MINUTES 14 SECONDS E, ALONG SAID WEST LINE, 1883.39 FEET TO THE POINT OF BEGINNING.

EXCEPT THOSE PORTIONS CONVEYED TO EL PASO COUNTY BY AND THROUGH THE BOARD OF COUNTY COMMISSIONERS OF EL PASO COUNTY, COLORADO, IN SPECIAL WARRANTY DEEDS RECORDED JANUARY 29, 2015 AT RECEPTION NO. 215008985 AND RECEPTION NO. 215008986.

PARCEL B:

A PARCEL OF LAND LOCATED IN SECTION 3, TOWNSHIP 13 SOUTH, RANGE 64 WEST OF THE 6TH P.M., EL PASO COUNTY, COLORADO MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCING AT THE SOUTHWEST CORNER OF SAID SECTION 3; THENCE N 00 DEGREES 05 MINUTES 14 SECONDS E, ALONG THE WEST LINE OF SAID SECTION 3, 1974.75 FEET TO THE POINT OF BEGINNING; THENCE CONTINUING ALONG SAID WEST LINE, N 00 DEGREES 05 MINUTES 14 SECONDS E, 1649.14 FEET; THENCE S 89 DEGREES 49 MINUTES 04 SECONDS E, 5280.38 FEET TO A POINT ON THE EAST LINE OF SAID SECTION 3; THENCE S 00 DEGREES 04 MINUTES 45 SECONDS E, ALONG SAID EAST LINE, 1649.15 FEET; THENCE N 89 DEGREES 49 MINUTES 04 SECONDS W, 5285.17 FEET TO THE POINT OF BEGINNING.

PARCEL C:

A PARCEL OF LAND LOCATED IN SECTION 3 AND SECTION 10, TOWNSHIP 13 SOUTH, RANGE 64 WEST, OF THE 6TH P.M., EL PASO COUNTY, COLORADO, MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGINNING AT THE SOUTHWEST CORNER OF SAID SECTION 3; THENCE N 00 DEGREES 05 MINUTES 14 SECONDS E, ALONG THE WEST LINE OF SAID SECTION 3, 327.11 FEET; THENCE S 89 DEGREES 49 MINUTES 04 SECONDS E, 5289.95 FEET TO A POINT ON THE EAST LINE OF SAID SECTION 3; THENCE S 00 DEGREES 04 MINUTES 45 SECONDS E, ALONG SAID EAST LINE, 327.11 FEET TO THE SOUTHEAST CORNER OF SAID SECTION 3; THENCE S 00 DEGREES 57 MINUTES 38 SECONDS W, ALONG THE EAST LINE OF SAID SECTION 10, 1320.52 FEET TO THE SOUTHEAST CORNER OF THE

NORTH HALF OF THE NORTH HALF OF SAID SECTION 10; THENCE N 89 DEGREES 48 MINUTES 49 SECONDS W, ALONG THE SOUTH LINE OF SAID NORTH HALF OF THE NORTH HALF OF SAID SECTION 10, 5285.51 FEET TO THE SOUTHWEST CORNER THEREOF; THENCE N 00 DEGREES 43 MINUTES 38" SECONDS E, ALONG THE WEST LINE OF SAID SECTION 10, 1320.06 FEET TO THE POINT OF BEGINNING.

Per the Commitment for Title Insurance, issued by Westcor Land Title Insurance Company, Commitment No. 56676ECS, dated August 2, 2018.

PARCEL 21:

A PORTION OF THE SOUTH HALF OF SECTION 3, TOWNSHIP 13 SOUTH, RANGE 64 WEST OF THE 6TH PRINCIPAL MERIDIAN, COUNTY OF EL PASO, STATE OF COLORADO, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCING AT THE NORTHEAST CORNER OF SAID SECTION 3; THENCE ALONG THE EAST LINE OF SAID SECTION 3, S00°42'25"E (BEARINGS ARE RELATIVE TO THE NORTH LINE OF SECTION 3, BEING MONUMENTED AT THE WESTERLY END BY A FOUND NO.6 REBAR WITH A 3-1/4" ALUMINUM CAP IN A VAULT, STAMPED "PLS 17496", AND AT THE EASTERLY END BY A FOUND NO. 6 REBAR WITH 3-1/2" ALUMINUM CAP IN A VAULT, STAMPED "LS 17496", AND MEASURED TO BEAR S89°59'26"E, A DISTANCE OF 5275.03 FEET), A DISTANCE OF 3490.37 FEET, TO THE SOUTHEAST CORNER OF THAT PARCEL DESCRIBED IN THE QUIT CLAIM DEED RECORDED AT RECEPTION NO. 213021177, IN THE OFFICIAL RECORDS OF EL PASO COUNTY; SAID CORNER ALSO BEING THE POINT OF BEGINNING; THENCE S00°42'25"E, CONTINUING ALONG THE WEST LINE OF THAT PARCEL DESCRIBED IN THE QUIT CLAIM DEED RECORDED AT RECEPTION NO.213113100, IN SAID OFFICIAL RECORDS, A DISTANCE OF 1647.65 FEET, TO THE NORTHEAST CORNER OF THAT PARCEL DESCRIBED IN THE QUIT CLAIM DEED RECORDED AT RECEPTION NO. 213043391, IN SAID OFFICIAL RECORDS; THENCE S89°33'10"W, ALONG THE NORTH LINE OF SAID PARCEL, A DISTANCE OF 5289.71 FEET, TO A POINT LYING ON THE WEST LINE OF SAID SECTION 3; THENCE ALONG SAID WEST LINE, N00°32'28"W, A DISTANCE OF 1645.40 FEET, TO THE SOUTHWEST CORNER OF SAID PARCEL, RECORDED AT RECEPTION NO. 213021177, IN SAID OFFICIAL RECORDS; THENCE N89°31'43"E, ALONG THE SOUTH LINE OF SAID PARCEL, A DISTANCE OF 5284.95 FEET, TO THE POINT OF BEGINNING.

Per the Commitment for Title Insurance, issued by Land Title Guarantee Company, Order No. SC55073032, dated October 1, 2018.

Being more particularly described by metes and bounds as follows:

COMMENCING at the Northeast Corner of Section 3, Township 13 South, Range 64 West of the 6th Principal Meridian; thence along the east line of said Section 3, S00°42'27"E (Basis of bearings is the North line of Section 3, Township 13 South, Range 64 West of the 6th Principal Meridian, monumented at the West end by a No. 6 Rebar with a 3-1/4" aluminum cap, properly marked, in a monument box, "PLS 17496" and at the East end by a No. 6 rebar with a 3-1/2" aluminum cap, properly marked, in a monument box, "PLS 17496", having a measured bearing and distance of S89°59'23"E, 5275.26'. Bearings are relative to Colorado State Plane Central Zone (0502)), a distance of 30.00 feet, to the **POINT OF BEGINNING**; thence continuing along

said east line, S00°42'27"E, a distance of 5,435.28 feet, to the Southeast Corner of said Section 3, said point also being the Northeast Corner of Section 10, Township 13 South, Range 64 West of the 6th Principal Meridian; thence along the east line of the North 1/2 of the North 1/2 of said Section 10, S00°19'54"W, a distance of 1,320.51 feet, to the North 1/16th Corner of said Section 10; thence leaving said east line and along the south line of the North 1/2 of the North 1/2 of said Section 10, S89°34'02"W, a distance of 2,642.78 feet, to the North-Center-Center 1/16th Corner of said Section 10; thence continuing along said south line, S89°34'07"W, a distance of 2,612.73 feet, to a point that is 30.00 feet distant from the North 1/16th Corner of said Section 10, said point also being a point on the east right-of-way line of Curtis Road; thence along said east right-of-way line and 30.00 feet parallel to the west line of said North 1/2 of the North 1/2 of said Section 10, N00°05'54"E, a distance of 1,319.14 feet, to a point that is 30.00 distant to the Northwest Corner of said Section 10, also being the Southwest corner of said Section 3; thence continuing along said east right-of-way line, along the following four (4) courses:

1. N00°32'28"W, a distance of 4,608.42 feet;
2. N89°27'32"E, a distance of 19.98 feet;
3. N00°32'28"W, a distance of 820.00 feet;
4. N44°46'13"E, a distance of 40.00 feet,

to a point on the south right-of-way line of Judge Orr Road, thence along said south right-of-way line, along the following three (3) courses:

1. S89°59'23"E, a distance of 822.24 feet;
2. N00°00'37"E, a distance of 20.00 feet;
3. S89°59'23"E, a distance of 4,374.49 feet,

to the **POINT OF BEGINNING**.

Containing 35,565,654 S.F. or 816.475 acres, more or less.

Approved Deviation - Judge Orr Road





Planning and Community
Development Department
2880 International Circle
Colorado Springs, Colorado 80910
Phone: 719.520.6300
Fax: 719.520.6695
Website www.elpasoco.com

DEVIATION REQUEST AND DECISION FORM

Updated: 6/26/2019

PROJECT INFORMATION

Project Name : Saddlehorn Ranch
 Schedule No.(s) : 4300000561, 4400000562, 4300000556
 Legal Description : SEE ATTACHED – Exhibit D

APPLICANT INFORMATION

Company : WILLIAM GUMAN & ASSOCIATES
 Name : BILL GUMAN
 Owner Consultant Contractor
 Mailing Address : 731 NORTH WEBER STREET, SUITE 10, COLORADO SPRINGS, COLORADO, 80903

 Phone Number : (719) 633-9700
 FAX Number : N/A
 Email Address : BILL@GUMAN.NET

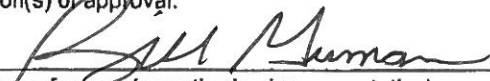
ENGINEER INFORMATION

Company : JR ENGINEERING
 Name : MIKE BRAMLETT Colorado P.E. Number : 32314
 Mailing Address : 5475 TECH CENTER DRIVE, SUITE 235, COLORADO SPRINGS, COLORADO 80919

 Phone Number : 719-593-2593
 FAX Number : N/A
 Email Address : MBRAMLETT@JRENGINEERING.COM

OWNER, APPLICANT, AND ENGINEER DECLARATION

To the best of my knowledge, the information on this application and all additional or supplemental documentation is true, factual and complete. I am fully aware that any misrepresentation of any information on this application may be grounds for denial. I have familiarized myself with the rules, regulations and procedures with respect to preparing and filing this application. I also understand that an incorrect submittal will be cause to have the project removed from the agenda of the Planning Commission, Board of County Commissioners and/or Board of Adjustment or delay review until corrections are made, and that any approval of this application is based on the representations made in the application and may be revoked on any breach of representation or condition(s) of approval.


 Signature of owner (or authorized representative)

04-SEP-2020
 Date

Engineer's Seal, Signature
 And Date of Signature





DEVIATION REQUEST (Attach diagrams, figures, and other documentation to clarify request)

A deviation from the standards of or in Section **ECM section 2.2.4 Roadway Functional Classifications** of the Engineering Criteria Manual (ECM) is requested for the Judge Orr Road cross section.

Identify the specific ECM standard which a deviation is requested:

The 824 acre Curtis Road Development Traffic Impact Analysis indicates Judge Orr Road is classified as a "4 Lane Minor Arterial" in the El Paso County 2040 Major Transportation Corridors Plan. The ECM currently has no standard cross section for a 4 lane minor arterial. It is assumed that a 4 lane minor arterial (rural) cross section would add a 12 ft travel lane in each direction to Figure 2-5 Typical Rural Minor Arterial Cross Section (two lane). See Exhibit A

State the reason for the requested deviation:

The purpose of this deviation is to document the cross-section and ROW dedication necessary to be shown on the preliminary plan.

Explain the proposed alternative and compare to the ECM standards (May provide applicable regional or national standards used as basis):

See Exhibit A for available ECM cross sections and See Exhibit B for the existing Judge Orr Road cross section.

The applicant will provide a 90 foot half right of way on all plats adjacent to Judge Orr Road consistent with the anticipated ROW needs identified in the MTCP.

The applicant is also subject to the El Paso County Road Impact Fee per resolution No. 19-471 and is therefore paying its fair and equitable share of necessary improvements identified in the MTCP.

LIMITS OF CONSIDERATION

(At least one of the conditions listed below must be met for this deviation request to be considered.)

- The ECM standard is inapplicable to the particular situation.
- Topography, right-of-way, or other geographical conditions or impediments impose an undue hardship and an equivalent alternative that can accomplish the same design objective is available and does not compromise public safety or accessibility.
- A change to a standard is required to address a specific design or construction problem, and if not modified, the standard will impose an undue hardship on the applicant with little or no material benefit to the public.

Provide justification:

The MTCP minor 4-lane arterial cross-section is not provided in the Engineering Criteria Manual.

CRITERIA FOR APPROVAL

Per ECM section 5.8.7 the request for a deviation may be considered if the request is **not based exclusively on financial considerations**. The deviation must not be detrimental to public safety or surrounding property. The applicant must include supporting information demonstrating compliance with **all of the following criteria**:

The deviation will achieve the intended result with a comparable or superior design and quality of improvement.

This request is not based on financial considerations. There is not enough ROW to accommodate a 4-lane minor arterial street section. Per Table 10 of the Traffic Impact Study, Judge Orr is MTCP Project No. C15 and applicant will pay into the Fee program traffic impact fees to participate in funding the project. See Exhibit C

The deviation will not adversely affect safety or operations.

The deviation will not adversely affect safety or operations as Judge Orr Road is an existing, operable roadway

As final plats take access to Judge Orr Road the each intersection will be designed to accommodate the requirements listed in Table 10 Roadway Improvements of the Traffic Impact Study.

The deviation will not adversely affect maintenance and its associated cost.

Maintenance of the roadways will not be impacted as the existing roadway will be left in its existing condition at this time.

The deviation will not adversely affect aesthetic appearance.

The deviation has no bearing on the aesthetic appearance.

The deviation meets the design intent and purpose of the ECM standards.

Yes, the deviation meets the design intent and purpose of the ECM standards. Once ROW can be obtained, the road can be built out to the full 4-lane minor arterial street section.

The deviation meets the control measure requirements of Part I.E.3 and Part I.E.4 of the County's MS4 permit, as applicable.

Yes, the deviation meets the control measure requirements of Part I.E.3 and Part I.E.4 of the County's MS4 permit, this project is proposing Water Quality facilities as required by the criteria.

REVIEW AND RECOMMENDATION:

Approved by the ECM Administrator

This request has been determined to have met the criteria for approval. A deviation from Section 2.2.4 of the ECM is hereby granted based on the justification provided.

| | | |
|---|--|---|
| ┌ | APPROVED | ┐ |
| | Engineering Department | |
| | <i>01/05/2021 6:55:29 PM</i> | |
| | <i>dsdnijkamp</i> | |
| L | EPC Planning & Community Development Department | J |

Denied by the ECM Administrator

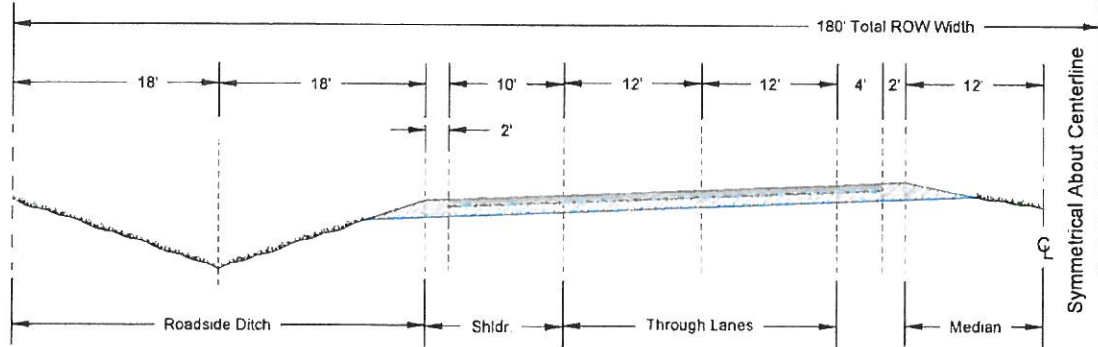
This request has been determined not to have met criteria for approval. A deviation from Section _____ of the ECM is hereby denied.

| | | |
|---|--|---|
| ┌ | | ┐ |
| L | | J |

ECM ADMINISTRATOR COMMENTS/CONDITIONS:

Exhibit A

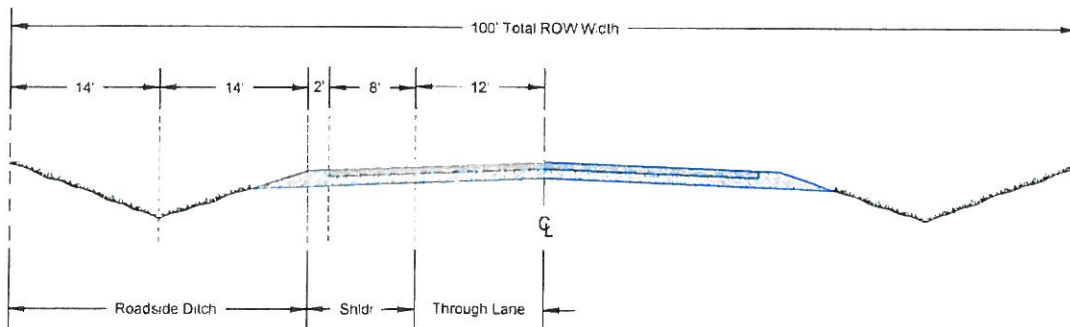
Figure 2-4. Typical Rural Principal Arterial Partial Cross-Section (4 Lane)



3. Minor Arterial

Minor arterials serve high-speed and high-volume traffic over medium distances, or are anticipated to serve this kind of traffic within a twenty-year period. Access is restricted through prescribed distances between intersections, use of medians, and no full movement parcel access (See Figure 2-5). Minor arterial status is assigned to rural roadways where the probability of significant travel demand in the future is high. Rights-of-way, easements, setbacks, and access limitations shall be pursued through the land development process on properties adjacent to minor arterials.

Figure 2-5. Typical Rural Minor Arterial Partial Cross Section



4. Major Collector

Major collectors serve as links between local access and arterial facilities over medium-to-long distances. Major collectors are managed to

Exhibit A - cont

Table 2-3. Roadway Design Criteria Continued

| Criteria | Concern | Guideline |
|--|---|--|
| Minimize Space Devoted to Road Use | It is desirable to minimize local road mileage, thereby reducing construction and maintenance costs, as well as permitting the most efficient use of land. Roads should also have an appearance commensurate with their function. | Roads should be designed to complement local character. |
| Relate Road to Topography | Local roads are more attractive and economical if constructed to closely adhere to topography (minimize cut and fill). | The important role that roads play in the overall storm drainage system can be enhanced by closely following existing topography. |
| Layout Road to Achieve Optimum Subdivision of Land | The arrangement of roads should allow for economical and practical patterns, shapes, and sizes of adjacent lots. Roads as a function of land use must not unduly hinder the development of land. | Distances between roads, number of roads, and related elements all have a bearing on efficient subdivision of an area. Access to adjoining properties should also be encouraged. |

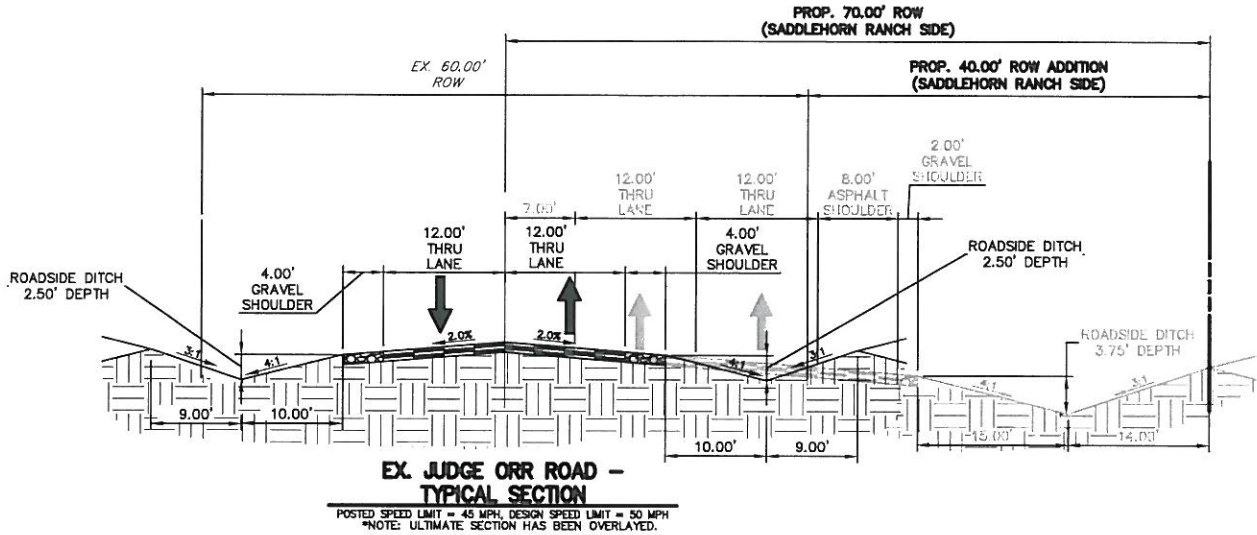
2.3.2 Design Standards by Functional Classification

Section 2.2.4 of these standards identifies the Roadway Functional Classifications recognized and used by the County. Table 2-4 through Table 2-7 summarize many of the minimum roadway design standards by category and functional classification. Detailed road Standard Drawings are provided in Appendix F.

Table 2-4. Roadway Design Standards for Rural Expressways and Arterials

| Criteria | Expressways | | Arterials | | Minor |
|---------------------------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| | 6 Lane | 4 Lane | 6 Lane Principal | 4 Lane Principal | |
| Design Speed / Posted Speed (MPH) | 70 / 65 | 70 / 65 | 70 / 65 | 70 / 65 | 60 / 55 |
| Clear Zone | 34' | 34' | 34' | 34' | 30' |
| Minimum Centerline Curve Radius | 2,050 ¹ | 2,050 ¹ | 2,050 ¹ | 2,050 ¹ | 1,505 ¹ |
| Number of Through Lanes | 6 | 4 | 6 | 4 | 2 |
| Lane Width | 12' | 12' | 12' | 12' | 12' |
| Right-of-Way | 210' | 180' | 210' | 180' | 100' |
| Paved Width | 56 ² | 38 ² | 56 ² | 38 ² | 40' |
| Median Width | 24' | 24' | 24' | 24' | n/a |
| Outside Shoulder Width (paved/gravel) | 12'(10'/2') | 12'(10'/2') | 12'(10'/2') | 12'(10'/2') | 10'(8'/2') |
| Inside Shoulder Width (paved/gravel) | 12'(10'/2') | 6'(4'/2') | 12'(10'/2') | 6'(4'/2') | n/a |
| Design ADT | | 48,000 | | 40,000 | 10,000 |
| Design Vehicle | WB-67 | WB-67 | WB-67 | WB-67 | WB-67 |
| Access Permitted | No | No | No | No | No |
| Access Spacing | n/a | n/a | n/a | n/a | n/a |
| Intersection Spacing | 1 mile | 1 mile | ½ mile | ½ mile | ¼ mile |
| Parking Permitted | No | No | No | No | No |
| Minimum Flowline Grade | 1% | 1% | 1% | 1% | 1% |

Exhibit B



SADDLEHORN RANCH
 DEVIATION REQUEST
 EX. JUDGE ORR ROAD
 2514200
 5/4/20
 SHEET 1 OF 1

 **J-R ENGINEERING**
 A Westrian Company

Centennial 303-740-9393 • Colorado Springs 719-593-2593
 Fort Collins 970-491-9888 • www.jrengineering.com

Exhibit C

| Table 10: Roadway Improvements for Saddlehorn Ranch | | | |
|--|---|---|--|
| Offsite Intersections | | | |
| Item # | Improvement | Timing | Responsibility |
| US Highway 24/Judge Orr Intersection | | | |
| 1.1 | Realignment of Judge Orr Road at US Highway 24 per CDOT Hwy 24 PEL Study | Future (the PEL study identified this as high priority project with a time frame of less than 5 years) | CDOT |
| 1.2 | Southwest-bound right-turn deceleration lane on US 24 approaching Judge Orr Road | As required by other development(s) or with realignment of US 24/ Judge Orr | CDOT or by others |
| 1.3 | Construct southwest-bound right-turn acceleration lane on US 24 at Judge Orr Road | As required by other development(s) or with realignment of US 24/ Judge Orr | CDOT or by others |
| 1.4 | Eastbound left-turn lane on Judge Orr Road approaching US 24 | With realignment of US 24/ Judge Orr | CDOT |
| 1.5 | Westbound dual left-turn lanes on Judge Orr Road approaching US 24 | With realignment of US 24/ Judge Orr | CDOT |
| 1.6 | Northeast-bound right-turn deceleration lane on US 24 approaching Judge Orr Road | With realignment of US 24/ Judge Orr | CDOT |
| 1.7 | Eastbound right-turn deceleration lane on Judge Orr Road approaching US 24 | As required by other development(s) or with realignment of US 24/ Judge Orr | CDOT or by others |
| US Highway 24/Stapleton Intersection | | | |
| 2.1 | Signalize the intersection | Once warrants are met | CDOT is collecting escrow from area developments impacting this intersection with each subdivision filing |
| Curtis Road/Falcon Highway | | | |
| 3.1 | Lengthen eastbound left-turn lane to ECM standards on Falcon Highway approaching Curtis Road | Currently warranted by ECM | Escrow for pro-rata share of improvement or construction at the time of Phase 2 development (fee program credit per fee program provisions) |
| 3.2 | Long Term: In the case of a future signalized intersection - Construct southbound right-turn deceleration lane on Curtis Road approaching Falcon Highway | Upon Signalization | Escrow for pro-rata share of improvement or construction if warranted at the time of development (fee program credit per fee program provisions) |
| 3.2 | Long Term: Reconstruct intersection as a modern roundabout (or signalize the intersection) | Once LOS of AWSC drops below acceptable levels (roundabout); or once signal warrants are met (for conversion to a signal or roundabout) | El Paso County -- This intersection will be fee-program eligible for a signal/roundabout and applicant will pay fee program traffic impact fees |
| Adjacent County Arterial Roadway ROW Requirements | | | |
| 4.1 | Judge Orr Right-of-Way Dedication - 4 Lane Minor Arterial, Rural 130' to 150' estimated right-of-way dedication' (Note: 4-lane Rural Principal is 180') | Shown in 2040 MTCP | Applicant |
| 4.2 | Judge Orr - 4 Lane Minor Arterial - Beyond above dedication, no additional right-of-way preservation needed | Shown in 2060 Corridor Pres Plan | Applicant |
| 4.3 | Curtis Road - 2 Lane Rural Principal Arterial 130' to 150' estimated right-of-way dedication (Note: 4-lane Rural Principal is 180') | Shown in 2040 MTCP | Applicant |
| 4.4 | Curtis Road - 4 Lane Rural Principal Arterial 180' right-of-way preservation | Shown in 2060 Corridor Pres Plan | Applicant |
| Roadway Segment Improvements | | | |
| 5.1 | Falcon Highway - Upgrade to Two-Lane Rural Minor Arterial | Shown in 2040 MTCP | MTCP Project No. U5; Details TBD; applicant will pay fee program traffic impact fees |
| 5.2 | Judge Orr Road - Widen to Four Lane Rural Minor Arterial | Shown in 2040 MTCP | MTCP Project No. C15; Details TBD; - applicant will pay fee program traffic impact fees. |
| 5.3 | Curtis Road - Upgrade to Two-Lane Rural Principal Arterial | Shown in 2040 MTCP | MTCP Project No. U1; Applicant per rezone condition of approval, potentially subject to fee program credit. |
| Internal Subdivision Roadways | | | |
| 6.1 | Construct internal streets to County Rural Local Standards | As development occurs and as needed for access | Applicant |
| Adjacent Intersection and Access Intersections | | | |
| Item # | Improvement | Timing | Responsibility |
| Judge Orr/Curtis Road Intersection | | | |
| 7.1 | Westbound right-turn deceleration lane | Once peak hour westbound right turn volume exceeds 50 vehicles per hour. | Escrow for improvement or construction if warranted at the time of development (fee program credit per fee program provisions) |
| 7.2 | Eastbound right-turn deceleration lane | Currently warranted by ECM | Escrow for improvement or construction at the time of Phase 2 development (fee program credit per fee program provisions) |
| 7.3 | Potentially sign for all way stop sign control (AWSC) | Once warrants for AWSC are met | El Paso County |
| 7.4 | Long Term: Reconstruct intersection as a modern roundabout (or signalize the intersection) | Once LOS of AWSC drops below acceptable levels (roundabout); or once signal warrants are met (for conversion to a signal or roundabout) | El Paso County, This intersection will be fee-program eligible for a signal/roundabout and applicant will pay fee program traffic impact fees. |
| 7.5 | Long Term: In the case of a future signalized intersection - lengthening of northbound and southbound left-turn deceleration lanes. | As needed based on future speed limit and turning volume/stacking length criteria. | Escrow for improvement or construction if warranted at the time of development (fee program credit per fee program provisions) |
| Judge Orr/Barrosito Trail | | | |
| 8.1 | No Auxiliary Turn Lanes Required | - | - |
| Judge Orr/Del Cambre Trail | | | |
| 9.1 | No Auxiliary Turn Lanes Required | - | - |
| Curtis Road/Oscuro Trail | | | |
| 10.1 | Short Term No Auxiliary Turn Lanes Required | - | - |
| 10.2 | Long Term Construct northbound right-turn deceleration lane on Curtis Rd approaching the site access | With Phase 2/3 site development | Applicant |
| Curtis Road/North Site Access | | | |
| 11.1 | Short Term No Auxiliary Turn Lanes Required | - | - |
| 11.2 | Long Term Construct southbound left-turn deceleration lane on Curtis Rd approaching the site access | With Phase 2/3 site development | Applicant |
| 11.3 | Long Term Construct northbound right-turn deceleration lane on Curtis Rd approaching the site access | With Phase 2/3 site development | Applicant |

Source: LSC Transportation Consultants, Inc.

PROPERTY DESCRIPTION: **Exhibit D**

PARCEL A:

A PARCEL OF LAND LOCATED IN SECTION 3, TOWNSHIP 13 SOUTH, RANGE 64 WEST OF THE 6TH P.M., EL PASO COUNTY, COLORADO MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGINNING AT THE NORTHWEST CORNER OF SAID SECTION 3; THENCE S 89 DEGREES 21 MINUTES 33 SECONDS E, ALONG THE NORTH LINE OF SAID SECTION 3, 5275.27 FEET TO THE NORTHEAST CORNER THEREOF; THENCE S 00 DEGREES 04 MINUTES 45 SECONDS E, ALONG THE EAST LINE OF SAID SECTION 3, 1841.19 FEET; THENCE N 89 DEGREES 49 MINUTES 04 SECONDS W, 5280.38 FEET TO A POINT ON THE WEST LINE OF SAID SECTION 3; THENCE N 00 DEGREES 05 MINUTES 14 SECONDS E, ALONG SAID WEST LINE, 1883.39 FEET TO THE POINT OF BEGINNING.

EXCEPT THOSE PORTIONS CONVEYED TO EL PASO COUNTY BY AND THROUGH THE BOARD OF COUNTY COMMISSIONERS OF EL PASO COUNTY, COLORADO, IN SPECIAL WARRANTY DEEDS RECORDED JANUARY 29, 2015 AT RECEPTION NO. 215008985 AND RECEPTION NO. 215008986.

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A PARCEL OF LAND LOCATED IN SECTION 3, TOWNSHIP 13 SOUTH, RANGE 64 WEST OF THE 6TH P.M., EL PASO COUNTY, COLORADO MORE PARTICULARLY DESCRIBED AS FOLLOWS:

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PARCEL C:

A PARCEL OF LAND LOCATED IN SECTION 3 AND SECTION 10, TOWNSHIP 13 SOUTH, RANGE 64 WEST, OF THE 6TH P.M., EL PASO COUNTY, COLORADO, MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGINNING AT THE SOUTHWEST CORNER OF SAID SECTION 3; THENCE N 00 DEGREES 05 MINUTES 14 SECONDS E, ALONG THE WEST LINE OF SAID SECTION 3, 327.11 FEET; THENCE S 89 DEGREES 49 MINUTES 04 SECONDS E, 5289.95 FEET TO A POINT ON THE EAST LINE OF SAID SECTION 3; THENCE S 00 DEGREES 04 MINUTES 45 SECONDS E, ALONG SAID EAST LINE, 327.11 FEET TO THE SOUTHEAST CORNER OF SAID SECTION 3; THENCE S 00 DEGREES 57 MINUTES 38 SECONDS W, ALONG THE EAST LINE OF SAID SECTION 10, 1320.52 FEET TO THE SOUTHEAST CORNER OF THE

NORTH HALF OF THE NORTH HALF OF SAID SECTION 10; THENCE N 89 DEGREES 48 MINUTES 49 SECONDS W, ALONG THE SOUTH LINE OF SAID NORTH HALF OF THE NORTH HALF OF SAID SECTION 10, 5285.51 FEET TO THE SOUTHWEST CORNER THEREOF; THENCE N 00 DEGREES 43 MINUTES 38" SECONDS E, ALONG THE WEST LINE OF SAID SECTION 10, 1320.06 FEET TO THE POINT OF BEGINNING.

Per the Commitment for Title Insurance, issued by Westcor Land Title Insurance Company, Commitment No. 56676ECS, dated August 2, 2018.

PARCEL 21:

A PORTION OF THE SOUTH HALF OF SECTION 3, TOWNSHIP 13 SOUTH, RANGE 64 WEST OF THE 6TH PRINCIPAL MERIDIAN, COUNTY OF EL PASO, STATE OF COLORADO, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCING AT THE NORTHEAST CORNER OF SAID SECTION 3; THENCE ALONG THE EAST LINE OF SAID SECTION 3, S00°42'25"E (BEARINGS ARE RELATIVE TO THE NORTH LINE OF SECTION 3, BEING MONUMENTED AT THE WESTERLY END BY A FOUND NO.6 REBAR WITH A 3-1/4" ALUMINUM CAP IN A VAULT, STAMPED "PLS 17496", AND AT THE EASTERLY END BY A FOUND NO. 6 REBAR WITH 3-1/2" ALUMINUM CAP IN A VAULT, STAMPED "LS 17496", AND MEASURED TO BEAR S89°59'26"E, A DISTANCE OF 5275.03 FEET), A DISTANCE OF 3490.37 FEET, TO THE SOUTHEAST CORNER OF THAT PARCEL DESCRIBED IN THE QUIT CLAIM DEED RECORDED AT RECEPTION NO. 213021177, IN THE OFFICIAL RECORDS OF EL PASO COUNTY; SAID CORNER ALSO BEING THE POINT OF BEGINNING; THENCE S00°42'25"E, CONTINUING ALONG THE WEST LINE OF THAT PARCEL DESCRIBED IN THE QUIT CLAIM DEED RECORDED AT RECEPTION NO.213113100, IN SAID OFFICIAL RECORDS, A DISTANCE OF 1647.65 FEET, TO THE NORTHEAST CORNER OF THAT PARCEL DESCRIBED IN THE QUIT CLAIM DEED RECORDED AT RECEPTION NO. 213043391, IN SAID OFFICIAL RECORDS; THENCE S89°33'10"W, ALONG THE NORTH LINE OF SAID PARCEL, A DISTANCE OF 5289.71 FEET, TO A POINT LYING ON THE WEST LINE OF SAID SECTION 3; THENCE ALONG SAID WEST LINE, N00°32'28"W, A DISTANCE OF 1645.40 FEET, TO THE SOUTHWEST CORNER OF SAID PARCEL, RECORDED AT RECEPTION NO. 213021177, IN SAID OFFICIAL RECORDS; THENCE N89°31'43"E, ALONG THE SOUTH LINE OF SAID PARCEL, A DISTANCE OF 5284.95 FEET, TO THE POINT OF BEGINNING.

Per the Commitment for Title Insurance, issued by Land Title Guarantee Company, Order No. SC55073032, dated October 1, 2018.

Being more particularly described by metes and bounds as follows:

COMMENCING at the Northeast Corner of Section 3, Township 13 South, Range 64 West of the 6th Principal Meridian; thence along the east line of said Section 3, S00°42'27"E (Basis of bearings is the North line of Section 3, Township 13 South, Range 64 West of the 6th Principal Meridian, monumented at the West end by a No. 6 Rebar with a 3-1/4" aluminum cap, properly marked, in a monument box, "PLS 17496" and at the East end by a No. 6 rebar with a 3-1/2" aluminum cap, properly marked, in a monument box, "PLS 17496", having a measured bearing and distance of S89°59'23"E, 5275.26'. Bearings are relative to Colorado State Plane Central Zone (0502)), a distance of 30.00 feet, to the **POINT OF BEGINNING**; thence continuing along

said east line, S00°42'27"E, a distance of 5,435.28 feet, to the Southeast Corner of said Section 3, said point also being the Northeast Corner of Section 10, Township 13 South, Range 64 West of the 6th Principal Meridian; thence along the east line of the North 1/2 of the North 1/2 of said Section 10, S00°19'54"W, a distance of 1,320.51 feet, to the North 1/16th Corner of said Section 10; thence leaving said east line and along the south line of the North 1/2 of the North 1/2 of said Section 10, S89°34'02"W, a distance of 2,642.78 feet, to the North-Center-Center 1/16th Corner of said Section 10; thence continuing along said south line, S89°34'07"W, a distance of 2,612.73 feet, to a point that is 30.00 feet distant from the North 1/16th Corner of said Section 10, said point also being a point on the east right-of-way line of Curtis Road; thence along said east right-of-way line and 30.00 feet parallel to the west line of said North 1/2 of the North 1/2 of said Section 10, N00°05'54"E, a distance of 1,319.14 feet, to a point that is 30.00 distant to the Northwest Corner of said Section 10, also being the Southwest corner of said Section 3; thence continuing along said east right-of-way line, along the following four (4) courses:

1. N00°32'28"W, a distance of 4,608.42 feet;
2. N89°27'32"E, a distance of 19.98 feet;
3. N00°32'28"W, a distance of 820.00 feet;
4. N44°46'13"E, a distance of 40.00 feet,

to a point on the south right-of-way line of Judge Orr Road, thence along said south right-of-way line, along the following three (3) courses:

1. S89°59'23"E, a distance of 822.24 feet;
2. N00°00'37"E, a distance of 20.00 feet;
3. S89°59'23"E, a distance of 4,374.49 feet,

to the **POINT OF BEGINNING**.

Containing 35,565,654 S.F. or 816.475 acres, more or less.