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Nabulsi-Abushaban Subdivision Traffic Impact Study (LSC #S224340) November 3, 2023

Please add "PCD File No. MS2211"

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.

Taher Nabulsi	11/6/2023
	Date

Nabulsi-Abushaban Subdivision Traffic Impact Study

Prepared for:

Taher Nabulsi, Co-Trustee Nabulsi-Abushaban Family Trust 14384 Whispering Ridge Road San Diego, CA 92131-4268

NOVEMBER 3, 2023

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

LSC # S224340



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Table 1

Figure 1 - Figure 9

Appendix Figure 1

Traffic Count Reports

Synchro LOS Reports



LSC TRANSPORTATION CONSULTANTS, INC. 2504 East Pikes Peak Avenue, Suite 304 Colorado Springs, CO 80909 (719) 633-2868 FAX (719) 633-5430

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November 3, 2023

Taher Nabulsi, Co-Trustee Nabulsi-Abushaban Family Trust 14384 Whispering Ridge Road San Diego, CA 92131-4268

> RE: Nabulsi-Abushaban Subdivision Transportation Memorandum Monument, CO LSC # S224340

Dear Mr. Nabulsi,

LSC Transportation Consultants, Inc. has prepared this traffic impact study for the proposed four-lot residential subdivision in the Black Forest area of El Paso County, Colorado. The 24.8-acre site is located on the northwest corner of the intersection of Black Forest Road/Old Ranch Road (El Paso County parcel ID 5219000101).

The parcel is proposed to be subdivided into four single-family lots. The existing home on the site will remain on one of the subdivision lots. This report presents the estimated vehicle-trip generation and traffic impacts of the proposed subdivision. This report has been prepared for submittal to El Paso County.

REPORT CONTENTS

The preparation of this report included the following:

- Page 2
- Inventory of the existing adjacent and nearby roadway system. This includes functional classifications, roadway width and surface condition, posted speed limit, intersection/access spacing, intersection sight distance, etc.;
- A review of the proposed site land use and access location;
- Existing traffic volumes on Old Ranch Road adjacent to the site and at the intersection of Black Forest Road and Old Ranch Road;
- Crash history at the intersection of Black Forest Road/Old Ranch Road;
- Estimates of the net new and total daily and peak-hour trip generation for the proposed subdivision;
- The estimated directional distribution of site-generated vehicle trips;
- Projections of additional daily trips on Old Ranch Road in the vicinity of the site;
- Projections of peak-hour site-generated turning-movement traffic volumes at the site-access intersection and at the intersection of Black Forest Road and Old Ranch Road;
- Evaluation of the post-development traffic volumes on Old Ranch Road in the vicinity of the site, and at the site-access intersection, and the intersection of Black Forest Road and Old Ranch Road;
- Findings and recommendations with respect to Old Ranch Road; and
- Estimated Road Impact Fee Program amounts and potential for fee program credit.

RECENT TRAFFIC REPORTS

- Black Forest Road Widening Project Traffic Impact Study (AECOM November 2019) —
 Prepared for the City of Colorado Springs.
- Koinonia Ranch Minor Subdivision Transportation Memorandum (LSC June 1, 2023)

LAND USE AND ACCESS

Figure 1 shows the site location relative to the adjacent and nearby streets. The 24.8-acre site is located on the northwest corner of the intersection of Black Forest Road/Old Ranch Road (El Paso County parcel ID 5219000101).

Proposed Land Use

A four-lot, single-family-residential, minor subdivision is proposed. Figure 2 shows the proposed subdivision. The development would contain three new single-family dwelling units and one existing single-family dwelling unit (Lot 3 will contain the existing single-family dwelling).

Existing and Proposed Subdivision Access

Access to the 24.8-acre property is currently via two driveways on Black Forest Road. These two access points are proposed to be closed, and the subdivision access would be to Old Ranch Road via a new private street that would extend north from Old Ranch Road approximately 660 feet west of Black Forest Road.

Please revise to "Rural Major Collector" and clarify this classification is from the 2040 Major Transportation Corridors Plan.

Page 3

Per ECM Administrator Old Ranch Road is classified as a Rural Local Gravel road presently. Intersection spacing is 330 feet. Please revise statement and analysis to meet intersection spacing for a rural local gravel road.

Per the El Paso county Engineering Criteria Manual (ECM), intersections on a roadway classified as a "Rural Collector" are required to have a minimum spacing of ¼ mile. Intersection spacing for Urban Collectors is 330 or 660 feet, depending on the situation. Old Ranch Road currently functions like a local roadway rather than a collector. In the future, should Old Ranch Road be connected to Milam Road/Union Boulevard to the west, this intersection would meet ECM standards for an Urban Collector. The property does not have sufficient frontage for ¼ mile intersection spacing (Rural Major Collector standard) from Black Forest Road, nor would ¼ mile be necessary.

OTHER AREA PARCELS ADJACENT TO OLD RANCH ROAD

- The Black Forest Saddle Club also accesses Old Ranch Road. This is an existing land use.
- The Wolf Ranch Master Plan (City of Colorado Springs) along the south side of Old Ranch Road will not add a vehicular access to Old Ranch Road.

This report also considers potential future trip generation by other area potential future land uses:

- Koinonia Ranch proposed Subdivision (Minor) 6170 Old Ranch Road (EDARP Nos. <u>SP214</u> and <u>SF2135</u>) has the potential to add five lots which would access Old Ranch Road west of this site.
- The vacant lot west of Koinonia Ranch site.

INTERSECTION SIGHT DISTANCE

Entering Sight Distance

State what the criteria requires for this intersection.

Intersection entering sight distance at the proposed site-access (private street) location on Old Ranch Road shown on the site plan would meet sight-distance requirements in *ECM* Table 2-21. The following are the existing sight-distance measurements. These measurements were conducted in the field by LSC. The line of sight is from a driver's eye height of 3.5 feet to an approaching vehicle height of 3.5 feet.

- Site Access/Old Ranch Road intersection:
- At least 850 feet looking west from the site access location.
- 660 feet east to the intersection of Black Forest Road/Old Ranch Road.

Please refer to Figure 3 which shows the sight-distance analysis. The lines-of-sight for the access point intersection/private road will need to be kept clear of any sight-distance obstructions. This includes landscaping, signage, etc. proposed for the residential development.

Stopping Sight Distance to Downstream Intersection

Stopping sight distance along Old Ranch Road approaching the proposed site access would meet stopping sight-distance requirements in *ECM* Table 2-17 (or 2-18 for grades over 3% - not

Page 4

Please state where in the ECM this criteria is from. Table 2-17 shows a design stopping sight distance of 155 feet for a 25 mph road. Revise calculations if needed.

applicable). The following are the existing sight-distance measurements. The line of sight is from the driver's eye height of an approaching vehicle (3.5 feet) to a height of 3.5 feet at the center of the proposed access.

- Site Access/Old Ranch Road intersection:
- At least 850 feet to the site access on the east bound approach, west of the site.
- 600 feet to the site access on the westbound approach, east of the site. The 600-foot distance is assumed to be from a driver's eye location 45 feet west of the west edge of the traveled way of Black Forest Road.

The intersection will have a required sight distance of 335 feet assuming a posted speed limit of 25 miles per hour (mph). The proposed subdivision road/access intersection with Old Ranch Road is anticipated to meet the required minimum sight distance in both directions. The required intersection line-of-sight "triangles" should be maintained and free of site improvements (that would limit the line of sight needed to maintain the prescribed sight distance).

ROAD AND TRAFFIC CONDITIONS

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

"Rural"

Rural local

Black Forest Road is a two-lane minor arterial. The roadway extends from just south of Woodmen Road north to the county line. The intersection with Old Ranch Road is stop-controlled. The roadway is planned for improvements between Hodgen Road and Stapleton Drive per the 2016 *Major Transportation Corridors Plan (MTCP)*. The posted speed limit is 55 miles per hour (mph) approaching Old Ranch Road in the northbound direction and drops to 40 mph immediately prior to the intersection. In the southbound direction the speed limit is 40 mph.

Old Ranch Road is a two-lane, approximately 28-foot-wide gravel roadway (in the vicinity of the site) which extends approximately 5,700 feet to the west from Black Forest Road where it ends at the intersection with Forest Drive. The El Paso County Road Book (2019) identifies this segment of Old Ranch Road as a County-maintained, 30-foot-wide gravel roadway with 60 feet of right-of-way. The posted speed limit is 25 mph. The functional classification as listed in the Road Book is "Urban Area - Local" and the administration classification is "Secondary Service." The *MTCP* 2040 classification of Old Ranch Road, according to County staff, is *Rural Major Collector* (and shown as a *Collector* on Map 14 of the *MTCP*).

MTCP Map 7 and Map 11 (Gravel Road Analysis – existing and 2040, respectively), show this section of Old Ranch Road as "Adequate." Therefore, the roadway existing/baseline condition should not be considered "deficient" as it does not appear that significant changes have occurred, with respect to trip loading to Old Ranch Road, since the adoption of the *MTCP*.

Approximately one mile west of the end of Old Ranch Road, there is another segment of Old Ranch Road that extends from Milam Road to west of Voyager Parkway. This western segment of Old

Ranch Road is paved. It is anticipated that the two segments of Old Ranch Road may be connected in the future, although it is not shown in any long-term plans.

Existing Traffic Volumes

Vehicular peak-period turning-movement traffic counts were conducted at the intersection of Black Forest Road/Old Ranch Road.

Figure 4 shows the peak hour-traffic volumes at the Old Ranch Road/Black Forest Road intersection, based on the turning-movement count data. The figure also shows the daily volume on Old Ranch Road just west of the Black Forest Road intersection. This Old Ranch Road daily traffic volume has been based on actual counts for most of a 24-hour period. LSC has estimated existing traffic volumes on Old Ranch Road west of site. Raw count data is attached.

Crash History

Three years of crash history were analyzed at the intersection of Old Ranch Road/Black Forest Road. Only one crash was recorded during the study period, which was a rear-end crash that did not result in any injuries.

Pedestrian Facilities

No existing or planned future pedestrian facilities are shown on Old Ranch Road or Black Forest Road adjacent to the site on "Map 15: Bicycle and Pedestrian Network and Improvements" on El Paso County's *Major Transportation Corridors Plan (MTCP)*.

OLD RANCH ROAD CONNECTION SCENARIO

As mentioned previously, there is a potential for the two segments of Old Ranch Road (described above) to be connected in the future. An analysis was completed to determine the long-term impacts of the proposed development, should such a connection occur in the future. To forecast the volume of traffic traveling on Old Ranch Road, the Pikes Peak Area Council of Government (PPACG) travel demand model was modified (by LSC) with the connection. Based on LSC model projections, it is estimated that Old Ranch Road will carry 4,500 vehicles per day. Historical count data on the west segment of Old Ranch Road was used to estimate the peak-hour directional traffic.

TRIP GENERATION

Estimates of the existing and projected vehicle trips to be generated by the site have been made using the following nationally-published average trip-generation rates for land use code "210 – Single-Family (Detached) Housing" in *Trip Generation*, 11th Edition, 2021 by the Institute of Transportation Engineers (ITE). Table 1 (attached) presents the estimated site trip generation.

Based on the ITE estimate for the proposed residential development, the site could generate about 47 external vehicle trips on the average weekday. During the weekday morning peak hour, approximately 1 vehicle would enter, and 3 vehicles would exit the site. Approximately 3 entering vehicles and 2 exiting vehicles are projected for the weekday afternoon peak hour.

TRIP DIRECTIONAL DISTRIBUTION & SITE-GENERATED TRAFFIC

Figure 5 shows the directional-distribution estimate for the proposed development. This assumes almost all trips are oriented to/from the east.

Site-generated traffic volumes at the access intersection and at the intersection of Black Forest Road/Old Ranch Road have been calculated by applying the directional-distribution percentages estimated by LSC to the trip-generation estimates (from Table 1). Figure 6 shows estimates of the new site-generated traffic to be added to Old Ranch Road by the proposed subdivision and turning movements added to the Old Ranch Road/Black Forest Road intersection. It is important to note that while the development of the subdivision will add trips to Old Ranch Road, the project will provide a benefit with the removal of two existing access points to Black Forest Road.

FUTURE TOTAL TRAFFIC VOLUMES

Short-Term (Existing-Plus-Site-Generated) Traffic Volumes

Figure 7 shows the estimated short-term total traffic (existing traffic plus the projected new development ("build") traffic volumes from Figure 6). These volumes assume Old Ranch Road prior to a possible future extension to Milam Road.

2043 Projected Background Traffic Volumes

Figure 8 shows the estimated long-term background traffic volumes. These volumes assume Old Ranch Road prior to a possible future extension to Milam Road. Future background traffic volumes are based, in part, on projections contained in the *Black Forest Road Widening Project Traffic Impact Study* — November 2019 (AECOM) — Prepared for the City of Colorado Springs. These volumes also include potential additional trips from the Koinonia Ranch Subdivision and one additional vacant lot along Old Ranch Road.

2043 Projected Total Traffic Volumes

Figure 9 shows the estimated long-term total traffic (2043 background traffic (Figure 8) plus the projected new site-generated traffic volumes (from Figure 6). These volumes assume Old Ranch Road **prior to** a possible future extension to Milam Road.

LEVEL OF SERVICE ANALYSIS

The following intersections have been analyzed to determine the projected intersection levels of service for short- and long-term traffic scenarios for the AM and PM peak-hour time periods:

- Black Forest Road/Old Ranch Road
- Old Ranch Road/proposed site access

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 shows the level of service delay ranges for signalized and unsignalized intersections. Figures 4 and 8 show the LOS for existing and 2043 background conditions, respectively, and Figure 7 and Figure 9 provide the levels of service for the projected post-development ("build")/total traffic scenarios.

Table 2: Intersection Levels of Service Delay Ranges

Level of	Signalized Intersections	Unsignalized Intersections
Service	Average Control Delay (seconds per vehicle)	Average Control Delay (seconds per vehicle) 1
Α	10.0 sec or less	10.0 sec or less
В	10.1-20.0 sec	10.1-15.0 sec
С	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.

Old Ranch Road/Site Access

The site access intersection has been analyzed to determine the projected control delay and corresponding levels of service for turning movements. The level of service would be "A" in the short- and long-term scenarios.

Old Ranch Road/Black Forest Road

The Old Ranch Road/Black Forest Road intersection is projected to operate at LOS B or better in the short term and LOS C or better based on the long-term scenario shown in Figure 9.

OLD RANCH ROAD FUTURE PROJECTED VOLUMES AND "LINK LOS"

As mentioned previously, there is not a current County project planned to connect the two segments of Old Ranch Road. Prior to this connection, all site-generated traffic, as well as all traffic generated by parcels accessing Old Ranch Road, will use the Old Ranch Road/Black Forest intersection. Note: These estimated area buildout volumes are included in the volumes shown in Figure 9.

The attached **Appendix Figure 1** shows the combined total projected new traffic on Old Ranch Road (prior to a possible future connection from Milam Road). This estimate includes total traffic for 10 new lots on Old Ranch Road: 5 lots within Koinonia Ranch, 4 lots for Nabulsi-Abushaban Subdivision, and development of an additional currently-undeveloped residential lot.

The projected buildout of the current Old Ranch Road "travel shed" area (total ADT adjacent to and just east of the site is anticipated to result in the design ADT of a Rural Gravel Roadway (200 vpd) being exceeded. Based on estimated ADT (based on ITE trip-generation rates) just west of Black Forest Road, both the background traffic (estimated) and post-development (site "build") ADT would be about 275 vpd (over 200 vpd, but less than 300 vpd). This is based on ITE trip generation for ten single-family homes to the east with access to Old Ranch between the site and Black Forest Road (about 100 background trips generated).

The applicant would prefer Old Ranch Road to remain a gravel roadway. However, as the projected ADT on the east near Black Forest Road is projected to exceed 200 vpd, a deviation request would be required to keep the roadway gravel. A deviation request was recently submitted as part of the nearby Koinonia Ranch Subdivision. Recent indication by County staff on that submittal is that the deviation to keep Old Ranch Road gravel will not be supported by staff and as such, that applicant is being requested to identify the fair share portion of paving that will be required (Full Comment: This deviation will not be supported by staff. Provide construction drawings in the next submittal that show the proportional share of Old Ranch Road from Black Forest Road paved per County standards. [the TIS comment reads] Note that per ECM 2.2.7.B.2, paving is required when the ADT of a road exceeds 200. Per the project scope, paving will be required because of this criteria. Please identify the fair share portion of paving that will be required.)

The **new** development traffic (trips generated by the three new parcels created) is estimated to be generated by this project is estimated to be 28 vpd. For the segment between Black Forest Road and the proposed subdivision access, the total projected ADT is estimated to be 275 vpd. This project's percentage of the total on this segment would be 10 percent. This project would not add trips to existing Old Ranch Road west of the site.

Please identify the fair share portion of paving that will be required for this subdivision. Calculate potential escrow alternative for paving as well. Provide the amount of paving required.

State what the ECM criteria threshold for turn lane requirements is (both left and right turn lanes). State what the total traffic (including this development and other developments) turning on to Old Ranch Road is.

AUXILIARY TURN LANE NEEDS ANALYSIS

No additional auxiliary lanes are necessary with this proposed development.

As shown, all parcels with access to Old Ranch Road, including the proposed development, are projected to generate less than 25 vehicles inbound or outbound during the peak hours. This indicates that with the current configuration of Old Ranch Road, no thresholds for auxiliary lanes would be met at the intersection of Old Ranch Road/Black Forest Road, with or without the proposed development. As indicated above, three years of crash history were analyzed at the intersection of Old Ranch Road/Black Forest Road. Only one crash was recorded during the study period, which was a rear-end crash that did not result in any injuries.

MTCP ROADWAY IMPROVEMENTS

The 2016 El Paso County Major Transportation Corridor Plan (MTCP) shows that Black Forest Road between Hodgen Road and Stapleton Drive is identified for "rural road upgrade" – MTCP project ID U11.

INTERNAL STREET CLASSIFICATIONS

The proposed subdivision road is proposed to be a private, gravel roadway.

MULTI-MODAL AND PEDESTRIAN/BIKE TRANSPORTATION

As shown on *Map 15: Bicycle and Pedestrian Network and Improvements* of the *MTCP*, a proposed bicycle route is shown on Old Ranch Road west of Black Forest Road.

PEDESTRIAN AND BICYCLE ACCOMMODATION

There are currently no sidewalks, bike lanes, or trails in the vicinity of the site. The subdivision road will be a rural gravel road and sidewalks are not required.

COUNTY ROAD IMPROVEMENT FEE PROGRAM

This subdivision will be required to participate in the Countywide Road Impact Fee program. The applicant has selected the "opt-out" option. The fee obligation per residential dwelling unit will be payable at the time of the building permit. This fee amount per dwelling unit is \$3,830.00. Based on three (3) new homes, the total "full fee," payable at platting or building permit would be \$11,490. Note: program fees are subject to change.

REIMBURSABLE MTCP IMPROVEMENTS

Old Ranch Road is shown as a "Collector" on the MTCP and could potentially be added to the MTCP reimbursable project list in the future (potentially, as part of the current update to the

MTCP). There may be opportunity for fee program credit (based on roadway unit costs and pro-rated based on percent of total escrow contributed) if Old Ranch Road, instead of being paving to a 24-foot-wide "unimproved" roadway, were to be upgraded to a County standard Collector roadway. Any eligibility of Old Ranch Road and potential credit would need to be brought before the EPC Roadway Impact Fee Program Advisory Committee for review and approval.

A potentially reimbursable improvement project directly adjacent to the site is the Black Forest Road rural upgrade – *MTCP* project ID U11. Any ROW dedication as part of this subdivision may be eligible for credit. Any eligibility and potential credit would need to be brought before the EPC Roadway Impact Fee Program Advisory Committee for review and approval.

 U11 – Black Forest Road from Hodgen Road to Stapleton Drive (from Map 13 on the MTCP) (upgrade from 2-lane Rural Unimproved County Road to a 2-lane Minor Arterial (\$11,691,000))

DEVIATIONS

No deviation requests are being submitted with this application.

A deviation request for the subdivision's private road is included in the application. Please revise statement and discuss deviation.

FINDINGS AND CONCLUSIONS

Trip Generation

- The development is expected to generate approximately 38 new vehicle trips on the average weekday, with approximately 4 trips occurring during the morning peak hour and 6 trips during the evening peak hour.
- The **net new** daily trip generation by three newly-created lots, with three new single-family homes, would be 28 trips per day.

Auxiliary Turn Lanes

• No additional auxiliary lanes are required for the proposed development.

Intersection Levels of Service

• Please refer to the "Level of Service" section above for detailed LOS analysis results for individual turning movements and approaches at the studied intersections, during both peak hours through the 2043 horizon year.

Access and Internal Street Classification

this report and revise statement

with analysis conclusion.

- The subdivision access is proposed to a new access intersection Old Ranch Road. Note: The
 proposed subdivision would remove two existing access points from Black Forest Road. This
 would be a benefit to the County with respect to access management/ECM access criteria for
 this Minor Arterial roadway.
- The proposed subdivision road is proposed to be a private, gravel roadway.

Old Ranch Road

- Based on estimated ADT (based on ITE trip generation rates) just west of Black Forest Road both the background traffic (estimated) and post-development (site "build") ADT would be about 275 vpd (over 200 vpd, but less than 300 vpd).
- A deviation request was recently submitted as part of the nearby Koinonia Ranch Subdivision. Recent indication by County staff on that submittal is that the deviation to keep Old Ranch Road gravel will not be supported by staff and as such, that applicant is being requested to identify the fair share portion of paving that will be required. We presume that Staff will indicate a similar requirement for this applicant.
- This project's percentage of the total on this segment would be 10 percent. This project would
 not add trips to existing Old Ranch Road west of the site
 Please comment on page 8 of

Roadway Impact Fee Program

Please refer to the report sections above for estimated fee program amounts and potential for fee program credit.

* * * * *

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

Enclosures: Table 1

> Figure 1 - Figure 9 Appendix Figure 1 **Traffic Count Reports** Synchro LOS Reports

Table 1



Table 1: Trip Generation Estimate

				Trip Gen	eration R	ates ⁽¹⁾		T	otal Tri	ps Gener	ated		
Land	Land	Trip	Average	Mori	ning	Afte	noon	Average	Mor	ning	After	rnoon	
Use	Use	Generation	Weekday	Peak	Hour	Peak	Hour	Weekday	Peak	Hour	Peak Hour		
Code	Description	Units (2)	Traffic	In	Out	In	Out	Traffic	In	Out	In	Out	
210	Single Family Detached Housing - Existing	1 DU	9.43	0.18	0.53	0.59	0.35	9	0	1	1	0	
210	Single Family Detached Housing - Proposed (Net New)	3 DU	9.43	0.18	0.53	0.59	0.35	28	1	2	2	1	
							Total	38	1	2	2	1	

Notes:

(1) Source: "Trip Generation, 11th Edition, 2021" by the Institute of Transportation Engineers (ITE)

(2) DU = dwelling unit

Source: LSC Transportation Consultants, Inc.

Nov-23

Figures 1-9

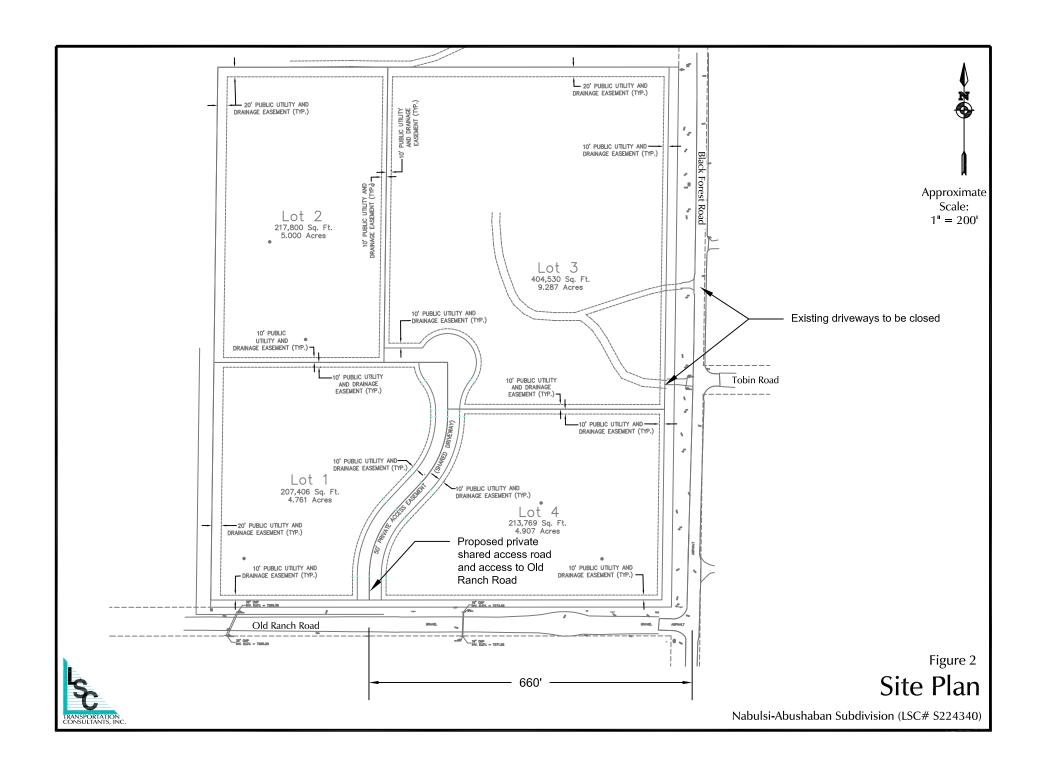


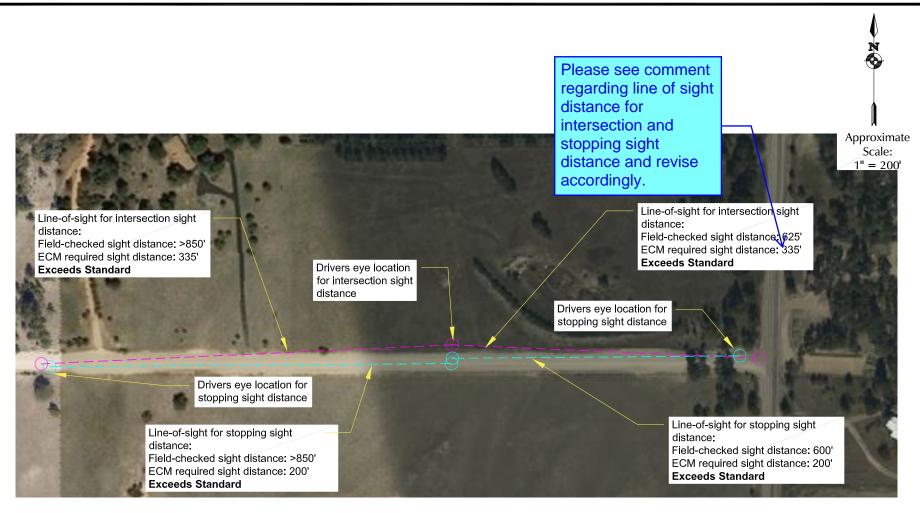




Vicinity Map

Nabulsi-Abushaban Subdivision (LSC# S224340)





Design Speed used in this evaluation: 30mph on Old Ranch Road

ECM Criteria (Section 2.3.6):

Intersection Sight Distance: ECM Table 2-21 Stopping Sight Distance: ECM Table 2-17

LEGEND:

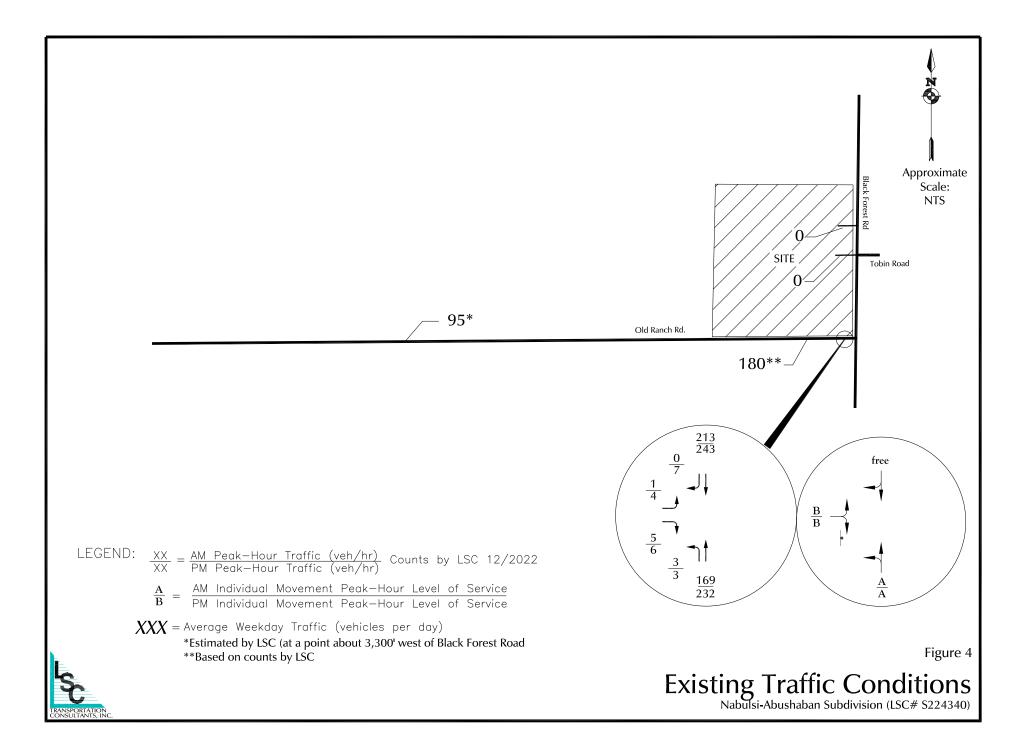
Field-checked lines-of-sight for intersection sight distance

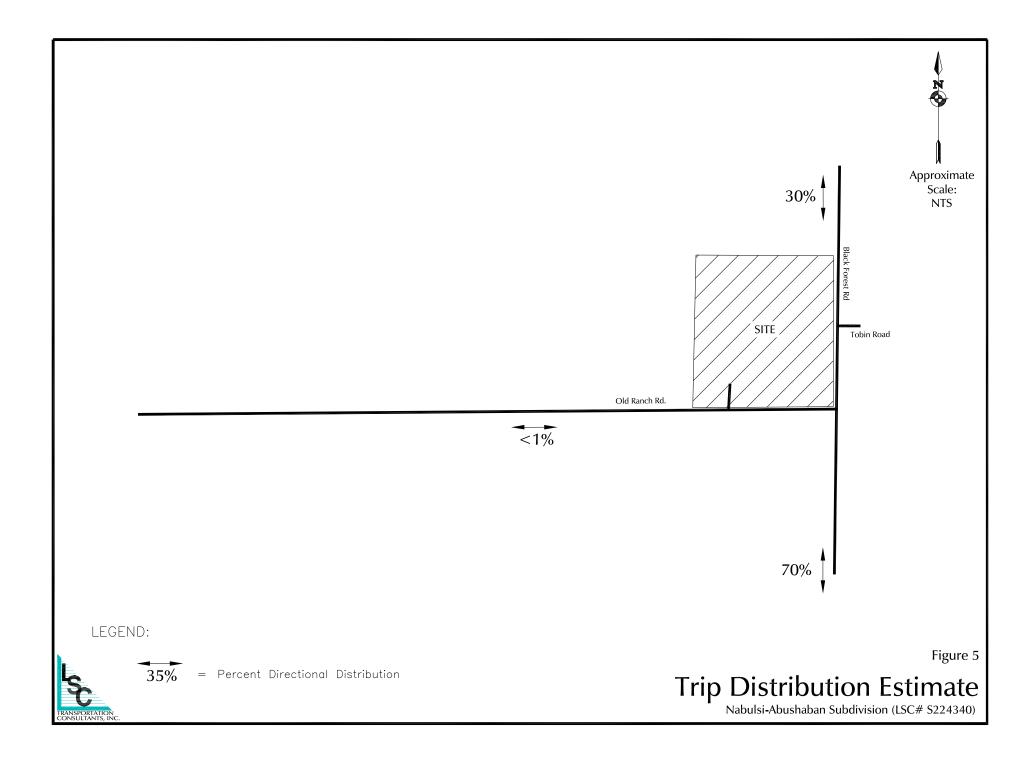
Field-checked lines-of-sight for stopping sight distance

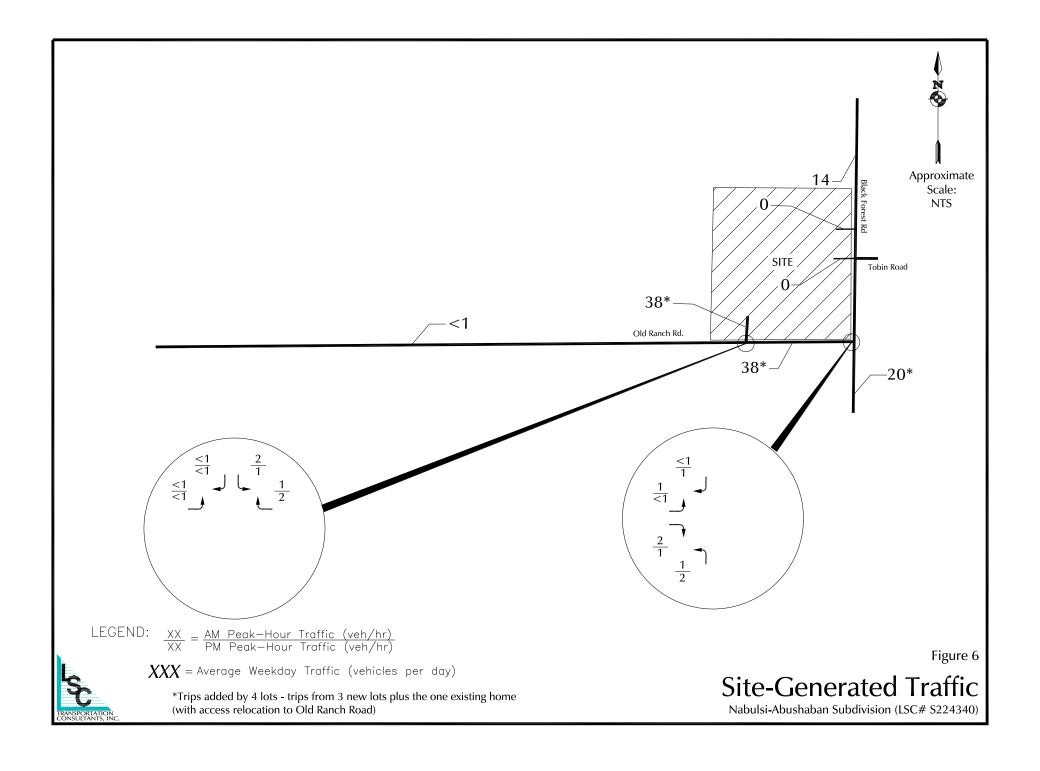
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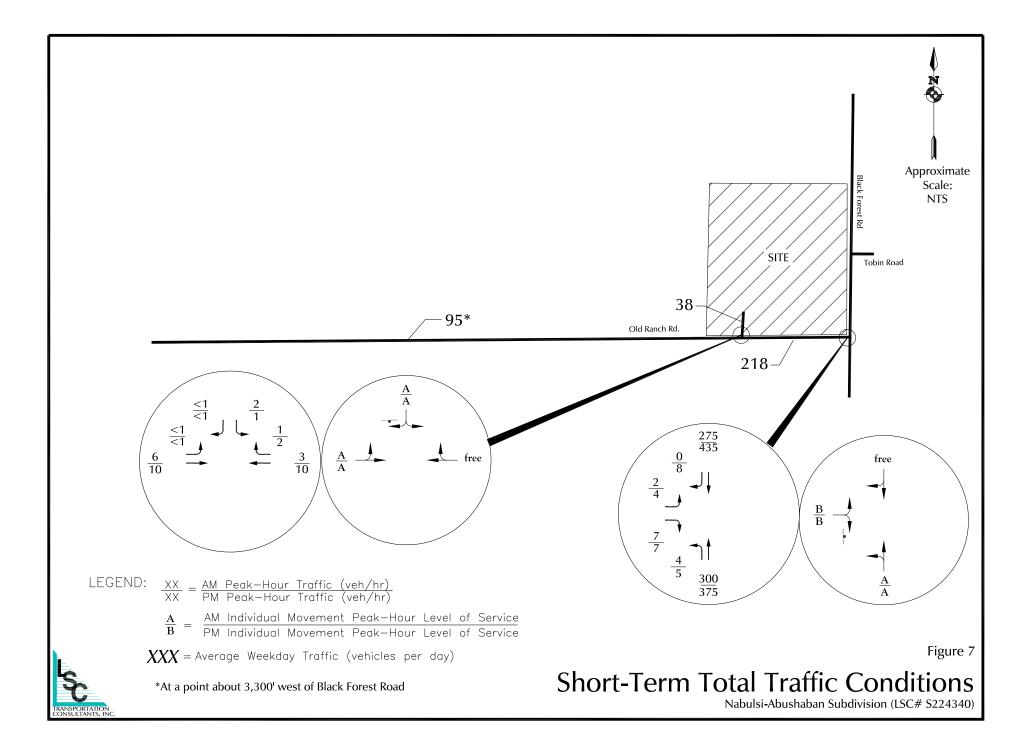
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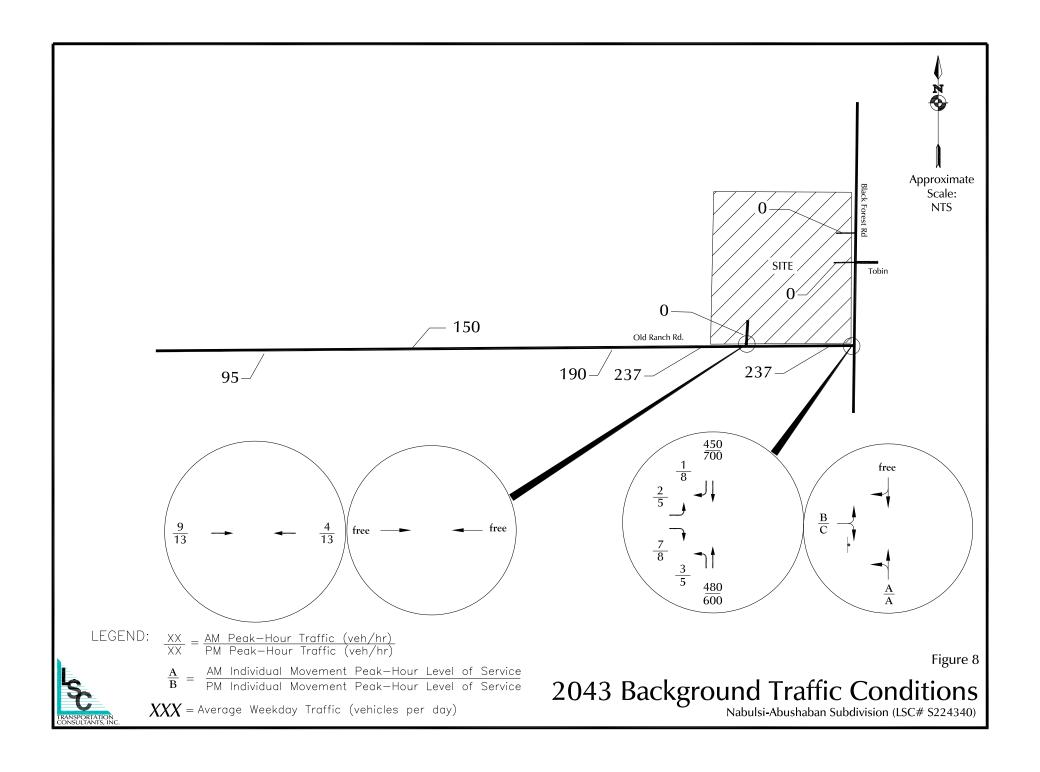
Nabulsi-Abushaban Subdivision (LSC# S224340)

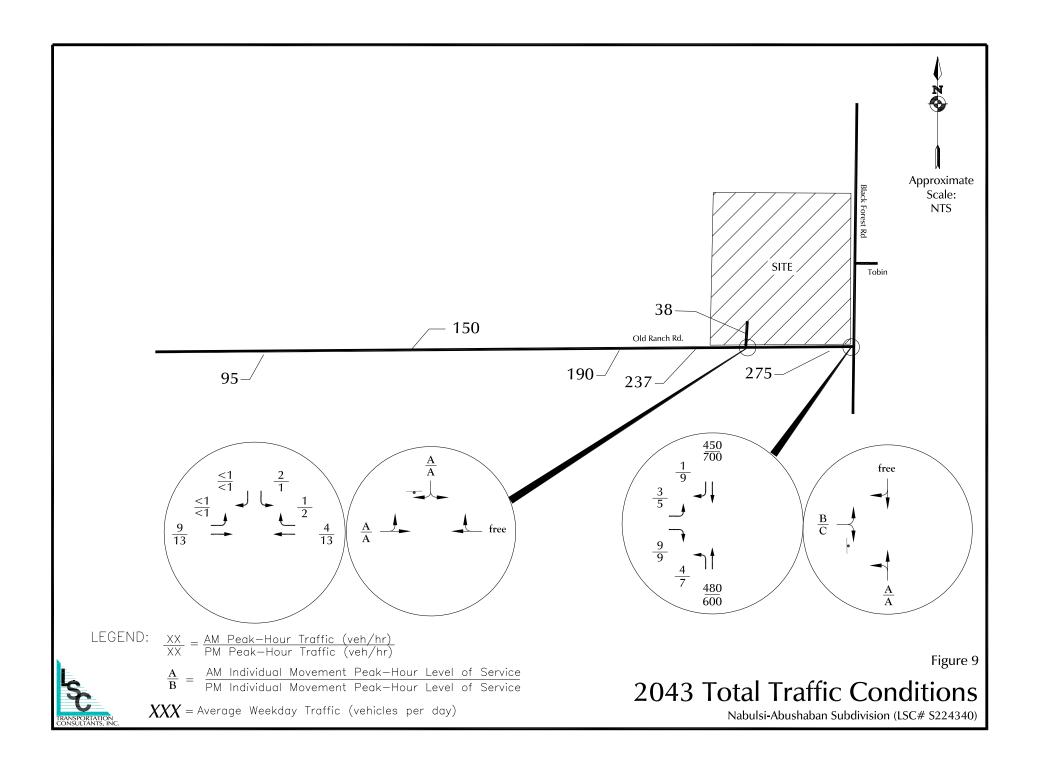






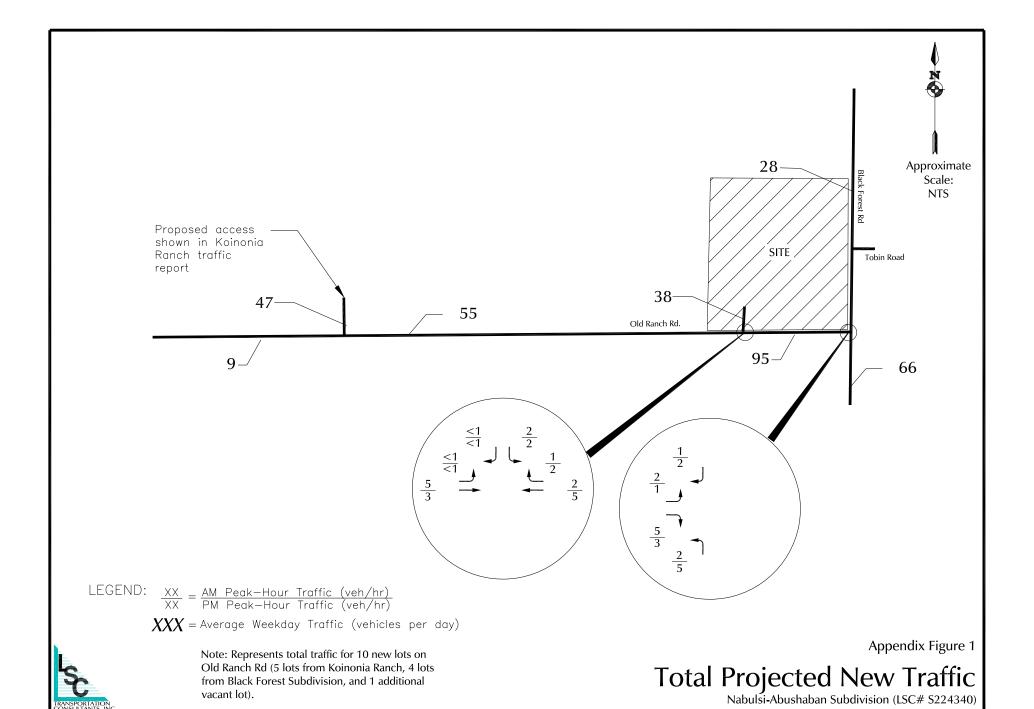






Appendix Figure 1





Traffic Counts



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

File Name: black forest rd - old ranch rd am

Site Code : 0S24340 Start Date : 6/22/2022

Page No : 1

ne Printad- Unchifted

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		Black	k Fore	st Rd								Blac	k Fore	est Rd			Old	Ranc	h Rd		
		Soi	uthbo	und			W	estbo	und			No	rthbo	und			Ea	astbou	und		
Start Time	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Int. Total
06:30 AM	0	15	0	0	15	0	0	0	0	0	0	8	0	0	8	0	0	0	0	0	23
06:35 AM	0	11	0	0	11	0	0	0	0	0	0	8	0	0	8	2	0	0	0	2	21
06:40 AM	0	11	0	0	11	0	0	0	0	0	0	8	0	0	8	0	0	0	0	0	19
06:45 AM	0	9	0	0	9	0	0	0	0	0	0	6	0	0	6	0	0	0	0	0	15
06:50 AM	0	16	0	0	16	0	0	0	0	0	0	6	0	0	6	0	0	0	0	0	22
06:55 AM	0	16	0	0	16	0	0	0	0	0	0	8	0	0	8	0	0	0	0	0	24
Total	0	78	0	0	78	0	0	0	0	0	0	44	0	0	44	2	0	0	0	2	124
07:00 AM	0	11	0	0	11	0	0	0	0	0	0	14	0	0	14	0	0	0	0	0	25
07:05 AM	0	10	0	0	10	0	0	0	0	0	0	4	0	0	4	0	0	0	0	0	14
07:10 AM	0	9	0	0	9	0	0	0	0	0	0	14	0	0	14	0	0	0	0	0	23
07:15 AM	0	16	0	0	16	0	0	0	0	0	0	10	1	0	11	1	0	0	0	1	28
07:20 AM	0	18	0	0	18	0	0	0	0	0	0	11	0	0	11	1	0	0	0	1	30
07:25 AM	0	8	0	0	8	0	0	0	0	0	0	12	0	0	12	2	0	0	0	2	22
07:30 AM	0	17	0	0	17	0	0	0	0	0	0	9	0	0	9	0	0	0	0	0	26
07:35 AM	0	19	0	0	19	0	0	0	0	0	0	11	0	0	11	0	0	0	0	0	30
07:40 AM	0	15	0	0	15	0	0	0	0	0	0	9	0	0	9	1	0	0	0	1	25
07:45 AM	0	22	0	0	22	0	0	0	0	0	0	16	0	0	16	1	0	0	0	1	39
07:50 AM	0	19	0	0	19	0	0	0	0	0	0	19	0	0	19	0	0	1	0	1	39
07:55 AM	0	16_	0	0	16	0	0	0	0	0	0	13_	0	0	13	0	0	0	0	0	29_
Total	0	180	0	0	180	0	0	0	0	0	0	142	1	0	143	6	0	1	0	7	330
08:00 AM	0	12	0	0	12	0	0	0	0	0	0	18	1	0	19	0	0	0	0	0	31
08:05 AM	0	16	0	0	16	0	0	0	0	0	0	6	2	0	8	0	0	0	0	0	24
08:10 AM	0	14	0	0	14	0	0	0	0	0	0	23	0	0	23	0	0	0	0	0	37
08:15 AM	0	30	0	0	30	0	0	0	0	0	0	14	0	0	14	1	0	0	0	1	45
08:20 AM	0	18	0	0	18	0	0	0	0	0	0	14	0	0	14	2	0	0	0	2	34
08:25 AM	0	15	0	0	15	0	0	0	0	0	0	17	0	0	17	0	0	0	0	0	32
Grand Total	0	363	0	0	363	0	0	0	0	0	0	278	4	0	282	11	0	1	0	12	657
Apprch %	0	100	0	0		0	0	0	0		0	98.6	1.4	0		91.7	0	8.3	0		
Total %	0	55.3	0	0	55.3	0	0	0	0	0	0	42.3	0.6	0	42.9	1.7	0	0.2	0	1.8	

LSC Transportation Consultants, Inc.

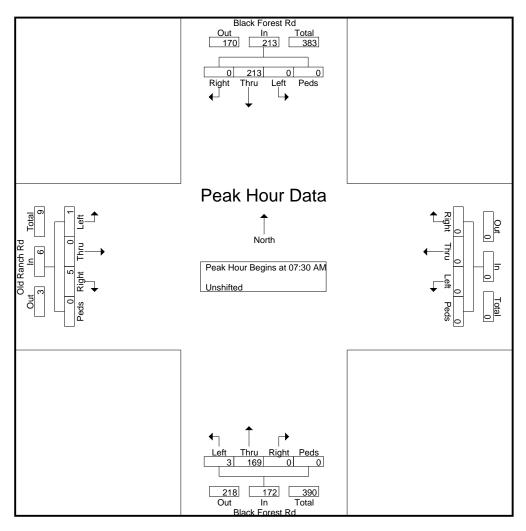
2504 E. Pikes Peak Ave, Suite 304 Colorado Springs, CO 80909 719-633-2868

File Name: black forest rd - old ranch rd am

Site Code : 0S24340 Start Date : 6/22/2022

Page No : 2

		Blac	k Fore	st Rd								Blac	k Fore	st Rd			Old	Ranc	h Rd		
		So	uthbo	und			W	estbo	und			No	rthbo	und			E	astbou	ınd		
Start Time	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Int. Total
Peak Hour A								f 1													
Peak Hour fo	r Entire	e Inters	section	n Begir	ns at 07:	30 AM															
07:30 AM	0	17	0	0	17	0	0	0	0	0	0	9	0	0	9	0	0	0	0	0	26
07:35 AM	0	19	0	0	19	0	0	0	0	0	0	11	0	0	11	0	0	0	0	0	30
07:40 AM	0	15	0	0	15	0	0	0	0	0	0	9	0	0	9	1	0	0	0	1	25
07:45 AM	0	22	0	0	22	0	0	0	0	0	0	16	0	0	16	1	0	0	0	1	39
07:50 AM	0	19	0	0	19	0	0	0	0	0	0	19	0	0	19	0	0	1	0	1	39
07:55 AM	0	16	0	0	16	0	0	0	0	0	0	13	0	0	13	0	0	0	0	0	29
08:00 AM	0	12	0	0	12	0	0	0	0	0	0	18	1	0	19	0	0	0	0	0	31
08:05 AM	0	16	0	0	16	0	0	0	0	0	0	6	2	0	8	0	0	0	0	0	24
08:10 AM	0	14	0	0	14	0	0	0	0	0	0	23	0	0	23	0	0	0	0	0	37
08:15 AM	0	30	0	0	30	0	0	0	0	0	0	14	0	0	14	1	0	0	0	1	45
08:20 AM	0	18	0	0	18	0	0	0	0	0	0	14	0	0	14	2	0	0	0	2	34
08:25 AM	0	15	0	0	15	0	0	0	0	0	0	17	0	0	17	0	0	0	0	0	32
Total Volume	0	213	0	0	213	0	0	0	0	0	0	169	3	0	172	5	0	1	0	6	391
% App. Total	0	100	0	0		0	0	0	0		0	98.3	1.7	0		83.3	0	16.7	0		
PHF	.000	.592	.000	.000	.592	.000	.000	.000	.000	.000	.000	.612	.125	.000	.623	.208	.000	.083	.000	.250	.724



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

File Name: Black Forest Rd - Old Ranch Rd PM

Site Code : S224340 Start Date : 6/16/2022

Page No : 1

Groups Printed- Unshifted

								G	roups	Printe	d- Uns	hifted									
		Blac	k Fore	st Rd								Blac	k Fore	st Rd			Old	Ranc	h Rd		
		So	uthbo	und			W	estbo	und			No	rthbo	und				astbou	ınd		
Start Time	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Int. Total
04:00 PM	0	12	0	0	12	0	0	0	0	0	0	18	0	0	18	0	0	0	0	0	30
04:05 PM	2	12	0	0	14	0	0	0	0	0	0	24	0	0	24	0	0	0	0	0	38
04:10 PM	0	25	0	0	25	0	0	0	0	0	0	14	0	0	14	0	0	0	0	0	39
04:15 PM	1	26	0	0	27	0	0	0	0	0	0	17	1	0	18	0	0	0	0	0	45
04:20 PM	1	14	0	0	15	0	0	0	0	0	0	17	0	0	17	0	0	0	0	0	32
04:25 PM	0	16	0	0	16	0	0	0	0	0	0	17	0	0	17	1	0	0	0	1	34
04:30 PM	0	24	0	0	24	0	0	0	0	0	0	16	0	0	16	1	0	0	0	1	41
04:35 PM	2	25	0	0	27	0	0	0	0	0	0	18	0	0	18	0	0	0	0	0	45
04:40 PM	1	23	0	0	24	0	0	0	0	0	0	20	0	0	20	0	0	0	0	0	44
04:45 PM	1	26	0	0	27	0	0	0	0	0	0	18	0	0	18	0	0	0	0	0	45
04:50 PM	0	12	0	0	12	0	0	0	0	0	0	18	1	0	19	1	0	0	0	1	32
04:55 PM	0	23	0	0	23	0	0	0	0	0	0	22	0	0	22	0	0	0	0	0	45_
Total	8	238	0	0	246	0	0	0	0	0	0	219	2	0	221	3	0	0	0	3	470
05:00 PM	0	15	0	0	15	0	0	0	0	0	0	17	0	0	17	1	0	1	0	2	34
05:05 PM	1	20	0	0	21	0	0	0	0	0	0	26	1	0	27	2	0	3	0	5	53
05:10 PM	0	19	0	0	19	0	0	0	0	0	0	26	0	0	26	0	0	0	0	0	45
05:15 PM	0	13	0	0	13	0	0	0	0	0	0	15	0	0	15	0	0	0	0	0	28
05:20 PM	1	18	0	0	19	0	0	0	0	0	0	19	0	0	19	0	0	1	0	1	39
05:25 PM	0	17	0	0	17	0	0	0	0	0	0	13	0	0	13	1	0	0	0	1	31
05:30 PM	0	20	0	0	20	0	0	0	0	0	0	13	2	0	15	2	0	0	0	2	37
05:35 PM	0	22	0	0	22	0	0	0	0	0	0	27	1	0	28	0	0	1	0	1	51
05:40 PM	0	21	0	0	21	0	0	0	0	0	0	27	1	0	28	0	0	0	0	0	49
05:45 PM	0	9	0	0	9	0	0	0	0	0	0	17	0	0	17	0	0	0	0	0	26
05:50 PM	0	24	0	0	24	0	0	0	0	0	0	14	1	0	15	0	0	0	0	0	39
05:55 PM	0	11_	0	0	11	0	0	0	0	0	0	18	0	0	18	0	0	0	0	0	29_
Total	2	209	0	0	211	0	0	0	0	0	0	232	6	0	238	6	0	6	0	12	461
Grand Total	10	447	0	0	457	0	0	0	0	0	0	451	8	0	459	9	0	6	0	15	931
Apprch %	2.2	97.8	0	0		0	0	0	0		0	98.3	1.7	0		60	0	40	0		
Total %	1.1	48	0	0	49.1	0	0	0	0	0	0	48.4	0.9	0	49.3	1	0	0.6	0	1.6	

LSC Transportation Consultants, Inc.

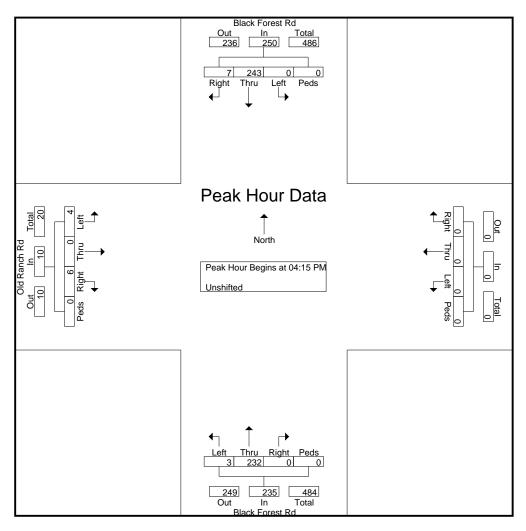
2504 E. Pikes Peak Ave, Suite 304 Colorado Springs, CO 80909 719-633-2868

File Name: Black Forest Rd - Old Ranch Rd PM

Site Code : S224340 Start Date : 6/16/2022

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		Blac	k Fore	st Rd								Blac	k Fore	st Rd			Old	Ranc	h Rd		
		So	uthbo	und			W	estbo	und			No	rthbo	und			E	astbou	ınd		
Start Time	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Int. Total
Peak Hour A								f 1													
Peak Hour fo	r Entir	e Inters	section	n Begir	ns at 04:	15 PM															
04:15 PM	1	26	0	0	27	0	0	0	0	0	0	17	1	0	18	0	0	0	0	0	45
04:20 PM	1	14	0	0	15	0	0	0	0	0	0	17	0	0	17	0	0	0	0	0	32
04:25 PM	0	16	0	0	16	0	0	0	0	0	0	17	0	0	17	1	0	0	0	1	34
04:30 PM	0	24	0	0	24	0	0	0	0	0	0	16	0	0	16	1	0	0	0	1	41
04:35 PM	2	25	0	0	27	0	0	0	0	0	0	18	0	0	18	0	0	0	0	0	45
04:40 PM	1	23	0	0	24	0	0	0	0	0	0	20	0	0	20	0	0	0	0	0	44
04:45 PM	1	26	0	0	27	0	0	0	0	0	0	18	0	0	18	0	0	0	0	0	45
04:50 PM	0	12	0	0	12	0	0	0	0	0	0	18	1	0	19	1	0	0	0	1	32
04:55 PM	0	23	0	0	23	0	0	0	0	0	0	22	0	0	22	0	0	0	0	0	45
05:00 PM	0	15	0	0	15	0	0	0	0	0	0	17	0	0	17	1	0	1	0	2	34
05:05 PM	1	20	0	0	21	0	0	0	0	0	0	26	1	0	27	2	0	3	0	5	53
05:10 PM	0	19	0	0	19	0	0	0	0	0	0	26	0	0	26	0	0	0	0	0	45
Total Volume	7	243	0	0	250	0	0	0	0	0	0	232	3	0	235	6	0	4	0	10	495
% App. Total	2.8	97.2	0	0		0	0	0	0		0	98.7	1.3	0		60	0	40	0		
PHF	.292	.779	.000	.000	.772	.000	.000	.000	.000	.000	.000	.744	.250	.000	.725	.250	.000	.111	.000	.167	.778



LSC Transportation Consultants, Inc. 2504 E. Pikes Peak Ave, Suite 304 Colorado Springs, CO 80909

719-633-2868

File Name: Old Ranch Rd AM V 10-19-22

Site Code : 224340_ Start Date : 10/19/2022

Page No : 1

Groups	Printe	ed- Class	1
Old Ranch Rd			

										s Printe	ed- Cla	ass 1									
		_						Ranc										Ranc			
			uthbo					estbo					orthbo					<u>astboı</u>			
Start Time	Right				App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru			App. Total	Right	Thru	Left	Peds	App. Total	Int. Total
06:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2	2
<u>06:45</u>	0	0	0	0	0	0	0	0	0	0	0	0	0	0_	0	0	2	0	0_	2	2
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	4	4
o= 00		_		_		۱ ۵	_	_	_		۱ ۵	_	_	_			_	_	_		
07:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2	2
07:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	1
DKEAN		0	^	_	0	١ ٥		_	_		١ ٥	_	^	0	0		•	^	0	0	
<u>07:45</u>	0	0	0	0	0	0	1_	0	0	1	0	0	0	0	0	0	3	0	0	3 6	7
Total	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	6	0	0	6	/
00.00		0	^	_	^		_	_	_	0	١ ٥	^	_	0	0	_	0	_	0	0	•
08:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0 0	2	2
08:15	0	0	0	0	0	0	3	0	0	3	0	0	0	-	0	_	3	0	-	3	6
08:30 08:45	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	0	1	0	0	1	3
Total	0	0	<u>0</u>	0	<u>0</u> 0	0	<u></u>	<u>0</u>	0	1 6	0	0 0	0 0	0	0	0	<u>1</u> 7	0	<u>0</u> 0	7	13
Total	0	U	U	U	U	0	О	U	U	0	0	U	U	U	U	U	,	U	U	/	13
09:00	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	2	0	0	2	3
09:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	1
09.13	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	0	1	0	0	1	3
09:30	0	0	0	0	0	0	3	0	0	3	0	0	0	0	0	0	1	0	0	1	4
Total	0	0	0	0	0	0	<u></u>	0	0	6	0	0	0	0	0	0	5	0	0	5	11
Total	0	U	U	U	U	0	U	U	U	U	0	U	U	U	U	U	J	U	U	J	
10:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2	2
10:15	Ö	0	0	0	0	o o	2	0	0	2	Ö	0	0	0	0	0	6	0	0	6	8
10:30	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	2
	***	Ü	Ŭ	Ŭ	Ū	, 0	_	Ŭ	Ŭ	_	, ,	Ū	·	Ū	· ·	·	Ū	·	Ū	0 1	_
Total	0	0	0	0	0	0	4	0	0	4	0	0	0	0	0	0	8	0	0	8	12
		·	·	Ū	ŭ	, ,		Ū	Ū	•		·	·	ŭ			Ū	·	Ū	0	
*** BREAK	***																				
11:15	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	2
11:30	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	2
11:45	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	2	0	0	2	3
Total	0	0	0	0	0	0	5	0	0	5	0	0	0	0	0	0	2	0	0	2	7
		_			_									_							
12:00	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	1	0	0	1	2
12:15	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	2	0	0	2	3
12:30	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	0	2	0	0	2	4
12:45	0	Ō	Ō	0	0	0	0	0	0	0	0	0	0	0	0	0	3	Ō	0	3	3
Total	0	0	0	0	0	0	4	0	0	4	0	0	0	0	0	0	8	0	0	8	12
13:00	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	0	4	0	0	4	6
13:15	0	0	0	0	0	0	4	0	0	4	0	0	0	0	0	0	1	0	0	1	5
Grand Total	0	0	0	0	0	0	32	0	0	32	0	0	0	0	0	0	45	0	0	45	77
Apprch %	0	0	0	0		0	100	0	0		0	0	0	0		0	100	0	0		
Total %	0	0	0	0	0	0	41.6	0	0	41.6	0	0	0	0	0	0	58.4	0	0	58.4	

LSC Transportation Consultants, Inc.

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

Groups Printed- Class 1

Old Ranch Rd

File Name: Old Ranch Rd PM combo

Old Ranch Rd

Site Code : 224340__ Start Date : 11/12/2022

Page No : 1

Southbound Westbound Northbound Eastbound App. Total Right Thru Left Peds App. Total Start Time Right | Thru | Left | Peds | Right Thru Left Peds App. Total Right Thru Left Peds App. Total Int. Total 13:30 *** BREAK *** Total 14:00 14:15 14:30 14:45 Total 15:00 15:15 15:30 15:45 Total 16:00 16:15 16:30 16:45 Total 17:00 17:15 17:30 17:45 Total 18:00 *** BREAK 18:30 18:45 Total 19:00 19:15 19:30 19:45 Total 20:00 20:15

1 0

1 0

20:30

20:45

Total

21:15

Total

*** BREAK ***

*** BREAK ***

0 0

^{***} BREAK ***

LSC Transportation Consultants, Inc. 2504 E. Pikes Peak Ave, Suite 304 Colorado Springs, CO 80909

719-633-2868

File Name: Old Ranch Rd PM combo

Site Code : 224340_ Start Date : 11/12/2022

Page No : 2

Groups Printed- Class 1

									Oroup	5 FIIIILE	u Oil	100 1									
							Old	Ranc	h Rd								Old	Ranc	h Rd		
		So	uthbo	und			W	estbo	und			No	orthbo	und			E	astbou	ınd		
Start Time	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Int. Total
23:15	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	1
*** BREAK *	**																				
Total	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	1
*** BREAK *	**																				
DIVEAR																					
Grand Total	0	0	0	0	0	0	64	0	0	64	0	0	0	0	0	0	34	0	0	34	98
Apprch %		Ö	0	Ö	ŭ	Ö	100	0	Ö	•	0	Õ	Õ	Ö	١	Õ	100	Õ	0		50
Total %	0	0	0	0	0	0	65.3	0	0	65.3	0	0	0	Ö	0	0	34.7	0	0	34.7	
	-	-	-	-	-			-	-	1	-	-	-	-	- 1	-		-	-	1	

Old Ranc	h Road Hoเ	ırly Traffic [Data and Ca	culated ADT
Hourly	Interval	Link V	olume -	Total
Start	End	WB	EB	Total
00:00	01:00	0	0	0
01:00	02:00	0	0	0
02:00	03:00	0	0	0
03:00	04:00	0	0	0
04:00	05:00	0	0	0
05:00	06:00	0	0	0
06:00	07:00	0	4	4
07:00	08:00	1	6	7
08:00	09:00	6	7	13
09:00	10:00	6	5	11
10:00	11:00	4	8	12
11:00	12:00	5	2	7
12:00	13:00	4	8	12
13:00	14:00	6	5	11
14:00	15:00	8	6	14
15:00	16:00	8	4	12
16:00	17:00	10	6	16
17:00	18:00	10	8	17
18:00	19:00	7	3	10
19:00	20:00	8	3	11
20:00	21:00	6	3	9
21:00	22:00	2	0	2
22:00	23:00	0	0	0
23:00	00:00	2	0	2
			Sum	171
		ADT w/Adj	j. (veh/day)	180

Level of Service Reports



Intersection						
Int Delay, s/veh	0.2					
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	¥	LDI	NDL	4	- 1 <u>00</u> 1	אופט
Traffic Vol, veh/h	T	5	3	169	213	0
	-					
Future Vol, veh/h	1	5	3	169	213	0
Conflicting Peds, #/hr	0	0	0	_ 0	0	_ 0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage	e, # 0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	78	78	87	87	87	87
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	1	6	3	194	245	0
	_		_			
	Minor2		Major1		//ajor2	
Conflicting Flow All	445	245	245	0	-	0
Stage 1	245	-	-	-	-	-
Stage 2	200	-	-	-	-	-
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	571	794	1321	_	_	_
Stage 1	796	-	-	_	_	_
Stage 2	834	_	_	_	_	_
Platoon blocked, %	004	_	_	-	_	_
	EGO	704	1221	-		-
Mov Cap-1 Maneuver	569	794	1321	-	-	-
Mov Cap-2 Maneuver	569	-	-	-	-	-
Stage 1	794	-	-	-	-	-
Stage 2	834	-	-	-	-	-
Annroach	EB		NB		SB	
Approach						
HCM Control Delay, s	9.9		0.1		0	
HCM LOS	Α					
Minor Lane/Major Mvn	nt	NBL	NRT	EBLn1	SBT	SBR
Capacity (veh/h)		1321	-		- 100	אופט
HCM Lane V/C Ratio						-
		0.003	-	0.01	-	-
HCM Control Delay (s)		7.7	0	9.9	-	-
HCM Lane LOS	,	A	Α	A	-	-
HCM 95th %tile Q(veh)	0	-	0	-	-

Intersection						
Int Delay, s/veh	0.3					
Movement	EBL	EBR	NBL	NBT	SBT	SBR
	₩.	LDI	NDL			אפט
Lane Configurations			2	4	242	7
Traffic Vol, veh/h	4	6	3	232	243	7
Future Vol, veh/h	4	6	3	232	243	7
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage	e, # 0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	78	78	87	87	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	5	8	3	267	264	8
WIVIII(I IOW	U	U	U	201	207	U
Major/Minor	Minor2	ا	Major1	N	//ajor2	
Conflicting Flow All	541	268	272	0	-	0
Stage 1	268	-	-	-	-	-
Stage 2	273	-	-	-	-	-
Critical Hdwy	6.42	6.22	4.12	-	_	-
Critical Hdwy Stg 1	5.42	-	-	_	_	_
Critical Hdwy Stg 2	5.42	_	_	_	_	_
Follow-up Hdwy		3.318	2 218	_	_	_
Pot Cap-1 Maneuver	502	771	1291		_	
•	777			-		
Stage 1		_	-	-	-	<u>-</u>
Stage 2	773	-	-	-	-	-
Platoon blocked, %	=00		1001	-	-	-
Mov Cap-1 Maneuver	500	771	1291	-	-	-
Mov Cap-2 Maneuver	500	-	-	-	-	-
Stage 1	775	-	-	-	-	-
Stage 2	773	-	-	-	-	-
A mana a ab	ED		ND		O.D.	
Approach	EB		NB		SB	
HCM Control Delay, s	10.8		0.1		0	
HCM LOS	В					
Minor Lane/Major Mvn	nt	NBL	NRT	EBLn1	SBT	SBR
	IL					
Capacity (veh/h)		1291	-	634	-	-
HCM Lane V/C Ratio		0.003	-	0.02	-	-
HCM Control Delay (s)		7.8	0	10.8	-	-
HCM Lane LOS		Α	Α	В	-	-
HCM 95th %tile Q(veh)	0	-	0.1	-	-

Intersection						
Int Delay, s/veh	0.2					
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	Y	LDIX	INDL	4	\$	ODIN
Traffic Vol, veh/h	2	7	4	300	275	0
Future Vol, veh/h	2	7	4	300	275	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	Stop -	None	-	None	-	None
Storage Length	0	-	_	-	_	NOHE -
Veh in Median Storage			-	0	0	-
Grade, %	, # 0 0	-	_	0	0	_
Peak Hour Factor	78	78	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	3	9	4	326	299	0
Major/Minor	Minor2	ı	Major1	N	/lajor2	
Conflicting Flow All	633	299	299	0		0
Stage 1	299	-	-	-	_	-
Stage 2	334	_	_	_	_	_
Critical Hdwy	6.42	6.22	4.12	_	_	_
Critical Hdwy Stg 1	5.42	0.22	7.12	_	_	_
Critical Hdwy Stg 2	5.42	-			_	_
Follow-up Hdwy		3.318	2 210	-	_	-
	444	741	1262	-		-
Pot Cap-1 Maneuver	752	741	1202	-	-	-
Stage 1		-	-	-	-	-
Stage 2	725	-	-	-	-	-
Platoon blocked, %	4.40	-44	1000	-	-	-
Mov Cap-1 Maneuver	442	741	1262	-	-	-
Mov Cap-2 Maneuver	442	-	-	-	-	-
Stage 1	749	-	-	-	-	-
Stage 2	725	-	-	-	-	-
Approach	EB		NB		SB	
	10.7		0.1		0	
HCM Control Delay, s			0.1		U	
HCM LOS	В					
Minor Lane/Major Mvm	nt	NBL	NBT I	EBLn1	SBT	SBR
Capacity (veh/h)		1262	-		_	-
HCM Lane V/C Ratio		0.003		0.018	_	_
HCM Control Delay (s)		7.9	0	10.7	_	_
HCM Lane LOS		A	A	В	_	_
HCM 95th %tile Q(veh)	\	0	-	0.1	_	_
				J .,		

Intersection						
Int Delay, s/veh	1.4					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations	LDL			WDIX	SBL ₩	ומט
Traffic Vol, veh/h	0	र्स 6	1	1	"	0
Future Vol, veh/h	0	6	3	1	2	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-		-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage		0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	78	78	78	78	78	78
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	0	8	4	1	3	0
Major/Minor	Major1	N	Major2		Minor2	
Conflicting Flow All	5	0	-	0	13	5
Stage 1	- -	-		-	5	- -
Stage 1 Stage 2	-	-	-	-	8	-
	4.12		-			6.22
Critical Hdwy		-	-	-	6.42	0.22
Critical Hdwy Stg 1	-	-	-	-	5.42	-
Critical Hdwy Stg 2	-	-	-	-	5.42	-
Follow-up Hdwy	2.218	-	-	-	3.518	
Pot Cap-1 Maneuver	1616	-	-	-	1006	1078
Stage 1	-	-	-	-	1018	-
Stage 2	-	-	-	-	1015	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	1616	-	-	-	1006	1078
Mov Cap-2 Maneuver	-	-	-	-	1006	-
Stage 1	-	-	-	-	1018	-
Stage 2	-	-	-	-	1015	-
Annragah	ED		WD		CD	
Approach	EB		WB		SB	
HCM Control Delay, s	0		0		8.6	
HCM LOS					Α	
Minor Lane/Major Mvm	nt	EBL	EBT	WBT	WBR	SBI n1
Capacity (veh/h)		1616		1101		1006
		1010	-	-		0.003
					-	U.UU3
HCM Lane V/C Ratio		-	-			9.6
HCM Lane V/C Ratio HCM Control Delay (s)		0	-	-	-	8.6
HCM Lane V/C Ratio			- - -			8.6 A 0

Short-Term Total AM
HCM 6th TWSC
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Intersection						
Int Delay, s/veh	0.3					
•		EDD	NIDI	NDT	CDT	CDD
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	Y	-	-	4	105	•
Traffic Vol, veh/h	5	7	5	375	435	8
Future Vol, veh/h	5	7	5	375	435	8
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage	•	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	78	78	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	6	9	5	408	473	9
NA - 1 - 1 NA	A' O		M . ' . A		4 0	
	Minor2		Major1		//ajor2	
Conflicting Flow All	896	478	482	0	-	0
Stage 1	478	-	-	-	-	-
Stage 2	418	-	-	-	-	-
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	311	587	1081	-	-	-
Stage 1	624	-	-	-	-	-
Stage 2	664	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	309	587	1081	-	-	-
Mov Cap-2 Maneuver	309	-		_	_	_
Stage 1	620	_	_	_	_	_
Stage 2	664		_	_	_	
Olaye 2	004	_	_		_	_
Approach	EB		NB		SB	
HCM Control Delay, s	13.7		0.1		0	
	В					
HCM LOS						
HCM LOS						
		NDI	NOT	EDL 4	ODT	000
Minor Lane/Major Mvm	ıt	NBL		EBLn1	SBT	SBR
Minor Lane/Major Mvm Capacity (veh/h)	ıt	1081	-	427	SBT -	SBR -
Minor Lane/Major Mvm Capacity (veh/h) HCM Lane V/C Ratio		1081 0.005	- -	427 0.036		
Minor Lane/Major Mvm Capacity (veh/h) HCM Lane V/C Ratio HCM Control Delay (s)		1081 0.005 8.3	- - 0	427 0.036 13.7	-	-
Minor Lane/Major Mvm Capacity (veh/h) HCM Lane V/C Ratio		1081 0.005	- -	427 0.036	-	-

Short-Term Total PM HCM 6th TWSC

Intersection						
Int Delay, s/veh	0.4					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		4	1>	1,51	₩	USIN
Traffic Vol., veh/h	0	10	10	2	1	0
Future Vol, veh/h	0	10	10	2	1	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized		None		None		None
	-		-		-	None
Storage Length		-	-	-	0	-
Veh in Median Storage	e, # -	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	78	78	78	78	78	78
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	0	13	13	3	1	0
Major/Minor	Major1	N	Major2	N	Minor2	
Conflicting Flow All	16	0	-	0	28	15
Stage 1	-	-		-	15	-
Stage 2	4.40	-	-	-	13	-
Critical Hdwy	4.12	-	-	-	6.42	6.22
Critical Hdwy Stg 1	-	-	-	-	5.42	-
Critical Hdwy Stg 2	-	-	-	-	5.42	-
Follow-up Hdwy	2.218	-	-	-	3.518	
Pot Cap-1 Maneuver	1602	-	-	-	987	1065
Stage 1	-	-	-	-	1008	-
Stage 2	-	-	-	_	1010	-
Platoon blocked, %		-	_	_		
Mov Cap-1 Maneuver	1602	_	_	_	987	1065
Mov Cap-2 Maneuver	-	_	_	_	987	-
Stage 1	_		_	_	1008	_
•		-		_	1010	
Stage 2	-	-	-	-	1010	-
Approach	EB		WB		SB	
HCM Control Delay, s	0		0		8.7	
HCM LOS			•		A	
110111 200					,,	
Minor Lane/Major Mvm	nt	EBL	EBT	WBT	WBR :	SBLn1
Capacity (veh/h)		1602	-	-	-	987
HCM Lane V/C Ratio		-	-	-	-	0.001
HCM Control Delay (s)		0	-	_	-	8.7
HCM Lane LOS		Α	-	-	-	Α
HCM 95th %tile Q(veh))	0	-	-	-	0

Short-Term Total PM
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HCM 95th %tile Q(veh)

Intersection						
Int Delay, s/veh	0.2					
Movement	EBL	EBR	NBL	NBT	SBT	SBR
		EDK	INDL			SDK
Lane Configurations	Y	7	1	400	1	1
Traffic Vol, veh/h	2	7	4	480	450	1
Future Vol, veh/h	2	7	4	480	450	1
Conflicting Peds, #/hr	0	0	0	_ 0	_ 0	_ 0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage		-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	78	78	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	3	9	4	522	489	1
Major/Minor	Minor2		Major1	N	//ajor2	
	1020	490	490	0	- najoiz	0
Conflicting Flow All	490	490	490			
Stage 1				-	-	-
Stage 2	530	-	4.40	-	-	-
Critical Hdwy	6.42	6.22	4.12	-	-	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy				-	-	-
Pot Cap-1 Maneuver	262	578	1073	-	-	-
Stage 1	616	-	-	-	-	-
Stage 2	590	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	261	578	1073	-	-	-
Mov Cap-2 Maneuver	261	-	-	-	-	-
Stage 1	613	_	-	-	-	-
Stage 2	590	_	-	_	-	_
s ings =						
			ND		0.5	
Approach	EB		NB		SB	
HCM Control Delay, s	13.1		0.1		0	
HCM LOS	В					
Minor Lane/Major Mvn	nt	NBL	NRT	EBLn1	SBT	SBR
Capacity (veh/h)		1073	INDI	455	001	ODIN
HCM Lane V/C Ratio		0.004	-	0.025	_	-
		8.4	0	13.1	-	-
HCM Lang LOS			~		-	-
HCM Lane LOS		Α	Α	В	-	-

2043 Background AM
HCM 6th TWSC
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0.1

Intersection						
Int Delay, s/veh	0.3					
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	W			4	₽	
Traffic Vol, veh/h	4	8	6	600	700	8
Future Vol, veh/h	4	8	6	600	700	8
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	_	-	_	-
Veh in Median Storage		_	_	0	0	_
Grade, %	0	_	_	0	0	_
Peak Hour Factor	78	78	93	93	93	93
Heavy Vehicles, %	2	2	2	2	2	2
Mymt Flow	5	10	6	645	753	9
IVIVIIIL FIOW	5	10	U	043	100	9
Major/Minor	Minor2	ı	Major1	N	/lajor2	
Conflicting Flow All	1415	758	762	0	-	0
Stage 1	758	-	-	-	-	-
Stage 2	657	-	-	-	-	-
Critical Hdwy	6.42	6.22	4.12	-	_	-
Critical Hdwy Stg 1	5.42	-	-	_	_	_
Critical Hdwy Stg 2	5.42	_	_	_	_	_
Follow-up Hdwy		3.318		_	_	_
Pot Cap-1 Maneuver	151	407	850	_	_	_
Stage 1	463	-	-	_	_	_
Stage 2	516	_	_	_	_	_
Platoon blocked, %	310			_	_	
Mov Cap-1 Maneuver	149	407	850	_	_	_
Mov Cap-1 Maneuver	149	407			_	_
			-	-		
Stage 1	458	-	-	-	-	-
Stage 2	516	-	-	-	-	
Approach	EB		NB		SB	
HCM Control Delay, s	19.8		0.1		0	
HCM LOS	С		0.1			
1.0 200						
Minor Lane/Major Mvn	<u>nt</u>	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)		850	-	258	-	-
HCM Lane V/C Ratio		0.008	-	0.06	-	-
HCM Control Delay (s)		9.3	0	19.8	-	-
HCM Lane LOS		Α	Α	С	-	-
HCM 95th %tile Q(veh)	0	-	0.2	-	-

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HCM 6th TWSC
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Intersection						
Int Delay, s/veh	0.3					
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	¥			4	î,	
Traffic Vol., veh/h	3	9	5	480	450	1
Future Vol, veh/h	3	9	5	480	450	1
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	_	None
Storage Length	0	-	_	-	_	-
Veh in Median Storage		_	_	0	0	_
Grade, %	0	_	_	0	0	_
Peak Hour Factor	78	78	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mymt Flow	4	12	5	522	489	1
IVIVIII(I IOW	7	12	3	JLL	700	
Major/Minor	Minor2	1	Major1	N	//ajor2	
Conflicting Flow All	1022	490	490	0	-	0
Stage 1	490	-	-	-	-	-
Stage 2	532	-	-	-	-	-
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	261	578	1073	-	-	-
Stage 1	616	-	-	-	-	-
Stage 2	589	-	-	-	-	_
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	259	578	1073	-	_	-
Mov Cap-2 Maneuver	259	-	-	_	-	_
Stage 1	612	_	-	_	_	_
Stage 2	589	_	_	_	_	_
Olago 2	000					
Approach	EB		NB		SB	
HCM Control Delay, s			0.1		0	
HCM LOS	В					
Minor Lane/Major Mvn	nt	NBL	NRT F	EBLn1	SBT	SBR
Capacity (veh/h)		1073	-		-	-
HCM Lane V/C Ratio		0.005		0.035	_	_
HCM Control Delay (s)	8.4	0	13.4	_	_
HCM Lane LOS	1	Α	A	В	<u>-</u>	_
HCM 95th %tile Q(veh	1)	0	-	0.1	_	_
TISH COUT /OUTO Q(VOI	'/			J. I		

Intersection						
Int Delay, s/veh	1.1					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations	LDL			אטוז	SBL ₩	ומט
Traffic Vol, veh/h	0	र्स 9	1→	1	"	0
Future Vol, veh/h	0	9	4	1	2	0
-	0	0	0	0	0	0
Conflicting Peds, #/hr						
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-		-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage		0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	78	78	78	78	78	78
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	0	12	5	1	3	0
Major/Minor	Major1	N	Major2	_	Minor2	
Conflicting Flow All	6	0	-	0	18	6
Stage 1	-				6	
Stage 1	-	-	-	-	12	-
	4.12		-			6.22
Critical Hdwy		-	-	-	6.42	0.22
Critical Hdwy Stg 1	-	-	-	-	5.42	-
Critical Hdwy Stg 2	-	-	-	-	5.42	-
Follow-up Hdwy	2.218	-	-	-	3.518	
Pot Cap-1 Maneuver	1615	-	-	-	1000	1077
Stage 1	-	-	-	-	1017	-
Stage 2	-	-	-	-	1011	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	1615	-	-	-	1000	1077
Mov Cap-2 Maneuver	-	-	-	-	1000	-
Stage 1	-	-	-	-	1017	-
Stage 2	-	-	-	-	1011	-
Annragah	ED		WD		CD	
Approach	EB		WB		SB	
HCM Control Delay, s	0		0		8.6	
HCM LOS					Α	
Minor Lane/Major Mvm	nt	EBL	EBT	WBT	WBR	SBI n1
Capacity (veh/h)		1615		1101		1000
			-	_		0.003
				_	-	U.UU3
HCM Central Delay (s)		_				9.6
HCM Control Delay (s))	0	-	-	-	8.6
				- -	-	8.6 A 0

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Intersection						
Int Delay, s/veh	0.3					
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	¥	LDI	NDL	4		ODIN
		0	0	€ 1	1 → 700	9
Traffic Vol, veh/h	5	9	8			
Future Vol, veh/h	5	9	8	600	700	9
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage		-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	78	78	93	93	93	93
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	6	12	9	645	753	10
		12		0 10	. 00	10
	Minor2		Major1		//ajor2	
Conflicting Flow All	1421	758	763	0	-	0
Stage 1	758	-	-	-	-	-
Stage 2	663	-	-	-	-	-
Critical Hdwy	6.42	6.22	4.12	_	-	-
Critical Hdwy Stg 1	5.42	-		-	_	_
Critical Hdwy Stg 2	5.42	_	_	_	_	_
	3.518		2.218	_		
Pot Cap-1 Maneuver	150	407	850	_	_	
•	463		000	_	-	
Stage 1		-	-	_	-	-
Stage 2	512	-	-	-	-	-
Platoon blocked, %		4		-	-	-
Mov Cap-1 Maneuver	147	407	850	-	-	-
Mov Cap-2 Maneuver	147	-	-	-	-	-
Stage 1	455	-	-	-	-	-
Stage 2	512	-	-	-	-	-
A			ND		0.0	
Approach	EB		NB		SB	
HCM Control Delay, s	20.6		0.1		0	
HCM LOS	С					
Minor Lane/Major Mvm	t	NBL	NRT	EBLn1	SBT	SBR
					ו מט	אומט
Capacity (veh/h)		850	-		-	-
HCM Lane V/C Ratio		0.01		0.072	-	-
HCM Control Delay (s)		9.3	0	20.6	-	-
HCM Lane LOS		A	Α	С	-	-
HCM 95th %tile Q(veh)		0	-	0.2	-	-

Intersection						
Int Delay, s/veh	0.3					
	EBL	EBT	WDT	WDD	CDI	SBR
Movement Configurations	EBL		WBT	WBR	SBL	SBK
Lane Configurations	0	વ	12	0	Y	0
Traffic Vol, veh/h	0	13	13	2	1	0
Future Vol, veh/h	0	13	13	2	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	-	-	-	-	0	-
Veh in Median Storage		0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	78	78	78	78	78	78
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	0	17	17	3	1	0
Major/Minor I	Major1	N	Major2	1	Minor2	
Conflicting Flow All	20	0		0	36	19
Stage 1	_	-	_	-	19	-
Stage 2	-	-	-	-	17	-
Critical Hdwy	4.12	_	_	_	6.42	6.22
Critical Hdwy Stg 1	-	_	_	-	5.42	-
Critical Hdwy Stg 2	_	_	-	_	5.42	_
Follow-up Hdwy	2.218	_	_	-	3.518	
Pot Cap-1 Maneuver	1596	_	_	_	977	1059
Stage 1	-	_	_	_	1004	-
Stage 2	_	_	_	_	1004	_
Platoon blocked, %		_	_	_	1000	
Mov Cap-1 Maneuver	1596			_	977	1059
Mov Cap-1 Maneuver	1590		_	_	977	1059
Stage 1	-	-	-	_	1004	-
9	-	-	-	-	1004	-
Stage 2	-	-	-	_	1000	-
Approach	EB		WB		SB	
HCM Control Delay, s	0		0		8.7	
HCM LOS					Α	
Minor Lane/Major Mvm	nt	EBL	EBT	WBT	WBR S	SRI n1
	IL		LDI	1101		
Capacity (veh/h)		1596	-	-	-	977
HCM Control Doloy (a)		-	-	-		0.001
HCM Control Delay (s) HCM Lane LOS		0 A	-	-	-	8.7 A
		A	-	-	-	Α
HCM 95th %tile Q(veh)		0	_	_	_	0