



November 14, 2024

Drew Balsick
Flying Horse Development
2138 Flying Horse Club Drive
Colorado Springs, Colorado 80921

RE: Flying Horse North Filing 5 / Traffic Generation Analysis
El Paso County, Colorado
PCD File No. SF2427

Dear Drew,

SM ROCHA, LLC is pleased to provide traffic generation information for the development entitled Flying Horse North Filing 5. This development is located near the southwest corner of Black Forest Road and Old Stagecoach Road in El Paso County, Colorado.

This information has been revised to address County Staff review comments made to the July 2024 Traffic Generation Analysis regarding the addition of the County signature block and project number as well as other miscellaneous updates.

The intent of this analysis is to present traffic volumes likely generated by the proposed development, provide a traffic volume comparison to previous land use assumptions approved for the development site, and consider potential impacts to the adjacent roadway network. This letter also serves as an update to the previously approved Flying Horse North Updated Traffic Impact Analysis¹ prepared for the overall Preliminary Plan application, pursuant to Section B.1.2.C of El Paso County's Engineering Criteria Manual (ECM)².

The following is a summary of analysis results.

Site Description and Access

Land for the development is currently vacant and surrounded by a mix of residential and recreational land uses. The proposed development is understood to entail the new construction of 21 single-family detached homes.

Proposed access to the overall development area is provided via one full-movement access drive onto Old Stagecoach Road (referred to as Site Access).

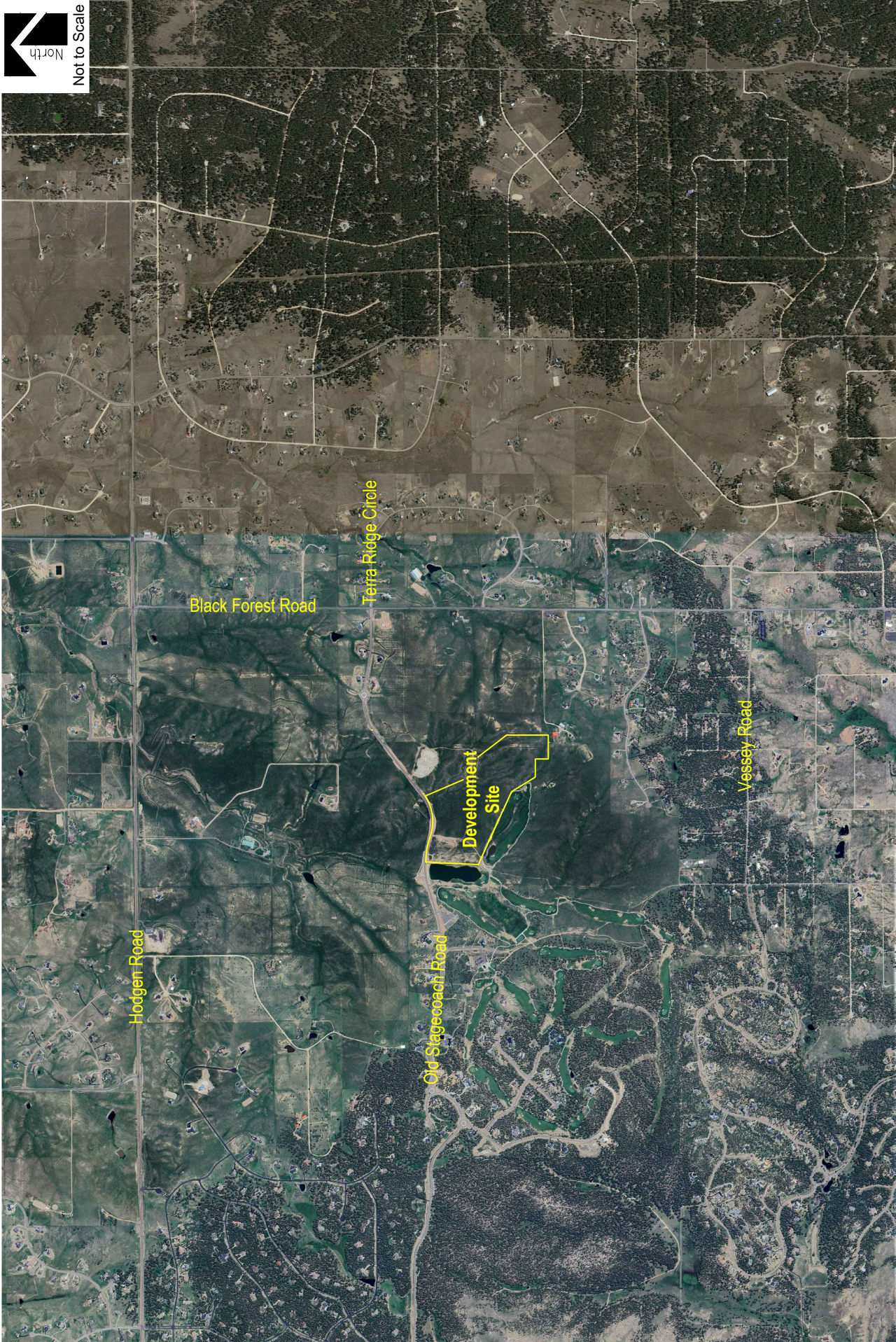
General site and access locations are shown on Figure 1. A site plan, as prepared by HR Green, Inc., is shown on Figure 2. This plan is provided for illustrative purposes only.

¹ Flying Horse North: Updated Traffic Impact Analysis, LSC Transportation Consultants, Inc., July 21, 2016.

² El Paso County Engineering Criteria Manual, El Paso County, October 2020.



Not to Scale



FLYING HORSE NORTH FILING 5
Traffic Generation Analysis

Figure 1
SITE LOCATION



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Not to Scale

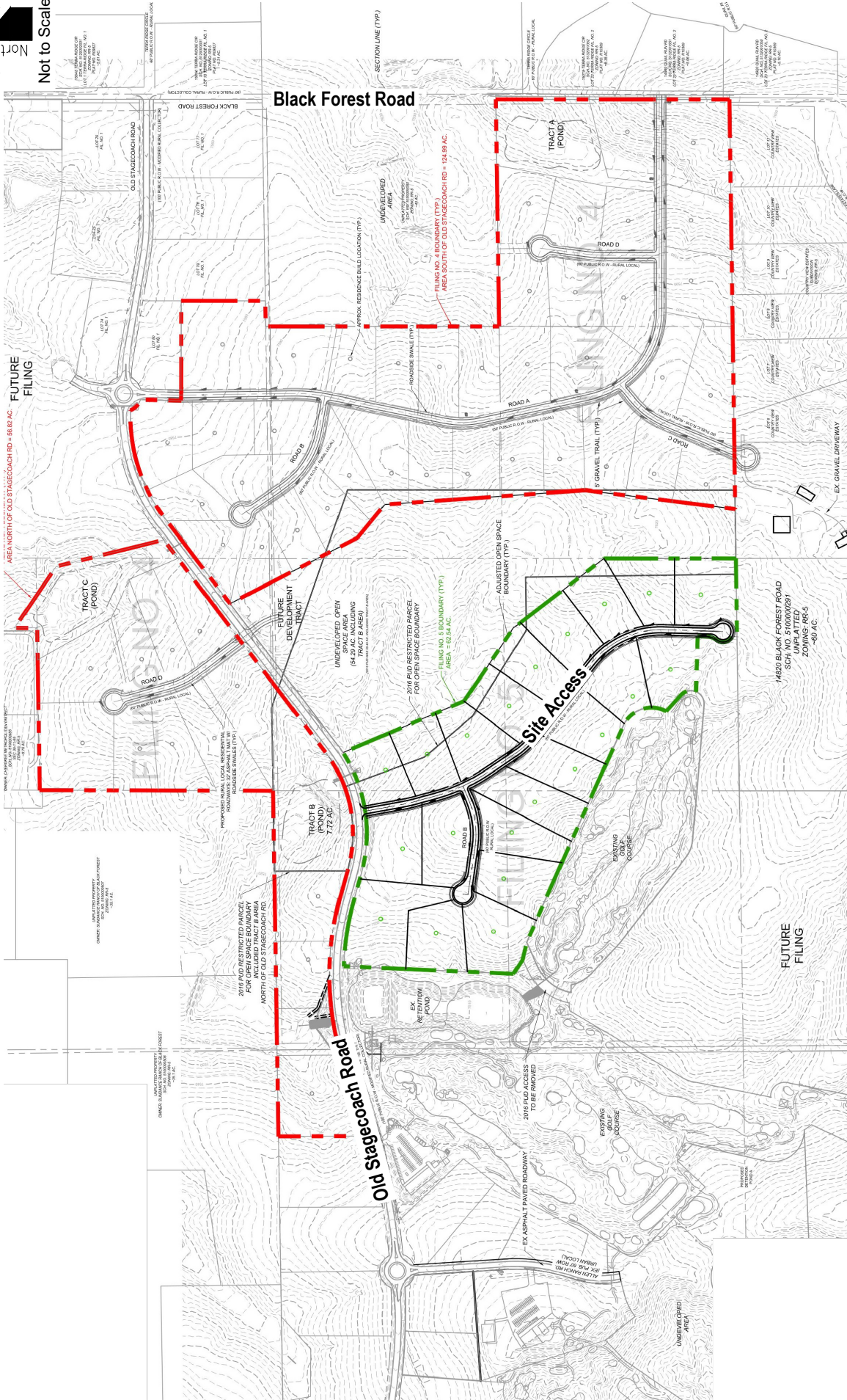


Figure 2
SITE PLAN

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FLYING HORSE NORTH FILING 5
Traffic Generation Analysis

SM ROCHA, LLC
Traffic and Transportation Consultants



Vehicle Trip Generation

Standard traffic generation characteristics compiled by the Institute of Transportation Engineers (ITE) in their report entitled Trip Generation Manual, 11th Edition, were applied to the proposed land use in order to estimate the average daily traffic (ADT) and peak hour vehicle trips. A vehicle trip is defined as a one-way vehicle movement from point of origin to point of destination.

The previously approved Flying Horse North Updated Traffic Impact Analysis prepared for the overall Preliminary Plan used trip generation rates from ITE’s Trip Generation Manual, 9th Edition and included “Single-Family Detached Housing” land use in the same development area as currently proposed with this project.

Table 1 presents average trip generation rates for the development area proposed. Use of average trip generation rates presents a conservative analysis. ITE land use code 210 (Single-Family Detached Housing) was maintained for analysis because of its best fit to the proposed land use.

Table 1 – Trip Generation Rates

ITE CODE	LAND USE	UNIT	TRIP GENERATION RATES						
			24 HOUR	AM PEAK HOUR			PM PEAK HOUR		
				ENTER	EXIT	TOTAL	ENTER	EXIT	TOTAL
210	Single-Family Detached Housing	DU	9.43	0.18	0.53	0.70	0.59	0.35	0.94

Key: DU = Dwelling Units.
 Note: All data and calculations above are subject to being rounded to nearest value.

Table 2 summarizes the projected ADT and peak hour traffic volumes likely generated by the land use area proposed and provides comparison to traffic volume estimates for the previously approved land use.

Table 2 – Trip Generation Summary

ITE CODE	LAND USE	SIZE	TOTAL TRIPS GENERATED						
			24 HOUR	AM PEAK HOUR			PM PEAK HOUR		
				ENTER	EXIT	TOTAL	ENTER	EXIT	TOTAL
<u>Site Development - Previously Approved *</u>									
210	Single-Family Detached Housing	20 DU	190	4	11	15	13	7	20
<i>Previously Approved Total:</i>			190	4	11	15	13	7	20
<u>Site Development - Proposed</u>									
210	Single-Family Detached Housing	21 DU	198	4	11	15	12	7	20
<i>Proposed Total:</i>			198	4	11	15	12	7	20
<i>Difference Total:</i>			8	0	0	0	0	0	0

Key: DU = Dwelling Units.
 Note: All data and calculations above are subject to being rounded to nearest value.
 * = Trip generation rates from ITE’s Trip Generation Manual, 9th Edition.

As Table 2 shows, the proposed development area has the potential to generate approximately 198 daily trips with 15 of those occurring during the morning peak hour and 20 during the afternoon peak hour. Compared to the previously approved land use, this represents a potential increase in site generation of approximately 8 daily trips with no change in trips estimated during the morning and afternoon peak traffic hours.

Adjustments to Trip Generation Rates

A development of this type is not likely to attract trips from within area land uses nor pass-by or diverted link trips from the adjacent roadway system, therefore no trip reduction was taken in this analysis.

Vehicle Trip Generation Comparison & Development Impacts

As Table 2 shows, the proposed development generally does not exceed traffic volumes approved for the area in comparison to previously projected volumes of the overall development area. The minor increase in daily trips is not likely to negatively impact operations of Old Stagecoach Road nor other adjacent roadways or intersections.

Recommended Improvements

Pursuant to the previous Flying Horse North Updated Traffic Impact Analysis prepared for the Flying Horse North PUD dated 2016, the development area proposed with this plat application was previously assumed as part of development Phase 6.

Table 3 of the referenced traffic analysis shows how auxiliary lane improvements to the State Highway 83 intersection with Stagecoach Road were recommended upon completion of Phase 3 (build-out of 75 dwelling units). However, a recent site visit of the study area concludes how auxiliary lane improvements to the Stagecoach Road and State Highway 83 intersection have already been implemented.

Additionally, the referenced traffic analysis shows that auxiliary lane improvements for the Stagecoach Road and Black Forest Road intersection were recommended upon completion of Phase 7 (build-out of 162 dwelling units).

Upon buildout of Flying Horse North Filing 5, there is expected to be 203 total dwelling units constructed within the overall Flying Horse North development. In reference to the traffic analysis letter prepared for Flying Horse North Filing 4³, it is likely that a northbound left-turn lane along Black Forest Road at Old Stagecoach Road will be constructed upon full buildout of Filing 4. As such, no additional improvements are expected to be needed with the buildout of Flying Horse North Filing 5.

Previous trip generation estimates and recommended improvement information from the 2016 Flying Horse North Updated Traffic Impact Analysis are provided for reference in Attachment A.

³ Flying Horse North Filing 4: Traffic Generation Analysis, SM ROCHA, LLC, July 30, 2024.

Conclusion

This analysis assessed traffic generation for the Flying Horse North Filing 5 development, provided a traffic volume comparison to previous land use assumptions approved for the development site, and considered potential impacts to the adjacent roadway network.

It is our professional opinion that the proposed site-generated traffic resulting from the development is expected to create no negative impact to traffic operations for the surrounding roadway network and proposed site access, nor at the Old Stagecoach Road intersection with Black Forest Road, and is in compliance with the Flying Horse North Updated Traffic Impact Analysis.

We trust that our findings will assist in the planning and approval of the Flying Horse North Filing 5 development. Please contact us should further assistance be needed.

Sincerely,

SM ROCHA, LLC
Traffic and Transportation Consultants



Megan Bock, EIT
Traffic Engineer



Fred Lantz, PE
Traffic Engineer

Traffic Engineer's Statement

The attached 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.



Fred Lantz, P.E. #23410

11/14/2024

Date

Developer's Statement

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

Drew Balsick
Flying Horse Development
2138 Flying Horse Club Drive
Colorado Springs, CO 80921

Date

ATTACHMENT A

2016 Flying Horse North Updated Traffic Impact Analysis

Table 2
Trip Generation Estimate
Flying Horse at Shamrock Ranch East

Phase	Land Use Code	Land Use Description	Trip Generation Units	Trip Generation Rates ⁽¹⁾						Total Trips Generated					
				Average Weekday Traffic	Morning Peak Hour In	Morning Peak Hour Out	Afternoon Peak Hour In	Afternoon Peak Hour Out	Average Weekday Traffic	Morning Peak Hour In	Morning Peak Hour Out	Afternoon Peak Hour In	Afternoon Peak Hour Out		
1-2	210	Single-Family Detached Housing	43 DU ⁽²⁾	9.52	0.19	0.56	0.63	0.37	409	8	24	27	16		
				1,295	26	77	86	50							
1-6	430	Single-Family Detached Housing Golf Course	136 DU 18 holes	35.74	1.63	0.43	1.49	1.43	643	29	8	27	26		
				1,938	55	84	112	76							
Buildout	430	Single-Family Detached Housing Golf Course	283 DU 18 holes	9.52	0.19	0.56	0.63	0.37	2,694	53	159	178	105		
				35.74	1.63	0.43	1.49	1.43	643	29	8	27	26		
				3,337	82	167	205	130							

Notes:
(1) Source: "Trip Generation, 9th Edition, 2012" by the Institute of Transportation Engineers (ITE)
(2) DU = dwelling unit
Source: LSC Transportation Consultants, Inc.

Table 3
Recommended Improvements
Flying Horse at Shamrock Ranch East

Intersection/Road	Improvement	Lane Length (ft)	Taper Length (ft)	Phase When Required
SH 83/Stagecoach	Northbound Right-Turn Deceleration Lane	378	222	3
	Northbound Right-Turn Acceleration Lane	738	222	3
	Southbound Left-Turn Lane	418	222	3
	Southbound Left-Turn Acceleration Lane	738	222	3
Hogden/Full-Movement Site Access	No Auxiliary Lanes Required			
Hogden/Black Forest (West)	No Additional Auxiliary Lanes Required			
Black Forest/Stagecoach	Northbound Left-Turn Lane	340	240	7
Black Forest/Site Access Points	No Auxiliary Lanes Required			
Holmes Road	Pave	N/A	N/A	9

Source: LSC Transportation Consultants, Inc.