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	FEBRUARY 2019
	TRAFFIC IMPACT STUDY FOR The Harmony Senior Living At Anderson Development
	Anderson Township Hamilton County, Ohio
	HRG Project No. R001432.0446

TRAFFIC IMPACT STUDY FOR THE HARMONY SENIOR LIVING AT ANDERSON DEVELOPMENT

ANDERSON TOWNSHIP HAMILTON COUNTY, OHIO

PREPARED FOR: SMITH/PACKETT MED-COM, LLC ROANOKE, VIRGINIA 24014

PREPARED BY: Herbert, Rowland & Grubic, Inc.

STAFF PROFESSIONAL:

THOMAS M. HURNEY, E.I.T.

SUPERVISING ENGINEER: DARREN S. MYER, P.E., PTOE



FEBRUARY 2019

HRG PROJECT NUMBER: R001432.0446

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EXECUTIVE SUMMARY

Overview of the Development

Herbert, Rowland & Grubic, Inc. (HRG) has been retained by the developer to provide traffic analysis related to the proposed Harmony Senior Living at Anderson Development in Anderson Township, Hamilton County.

The proposed site (see location map in Figure 1) will be located along the southern side of Clough Pike within existing vacant parcels. The development would be directly across from the existing Motz Turf Farm access driveway. The development will provide two (2) full access driveways. The western driveway will be located roughly 370 feet west of the Motz Turf Farm driveway, while the eastern driveway will be located roughly 240 feet to the east. A Site Plan is provided in Appendix A.

The peak periods analyzed in this study include the AM Peak (7:00-9:00 AM) and the PM Peak (4:00-6:00 PM).

The proposed development is anticipated to generate 23 AM Peak trips, 32 PM Peak trips, and 318 weekday trips based on *Institute of Transportation Engineers Trip Generation Manual*, 10th Edition (ITE). Though the trips generated for this study were calculated using ITE, Harmony Senior Living Services (who operates the facility) has the flexibility to adjust shift change times for employees as necessary to alleviate the impact on AM and/or PM trips along Clough Pike.

Study Intersections

The study area and methodologies to be utilized in the Traffic Impact Study (TIS) were established based on discussion with the County. The traffic study for this project includes the following study intersections:

- Clough Pike & Western Driveway
- Clough Pike & Eastern Driveway

In terms of capacity and turn lane guidelines, it was assumed development volumes will use one (1) access to be conservative. The Sight Distance evaluation was completed for each driveway separately.

Study Findings

Based on the data collected and the analyses performed under various conditions, the following are the results found:

- Access to the development is adequately provided via two (2) full-access driveways.
- The development is projected to have a minimal impact on the study roadways. The new intersections are projected to operate at LOS "C" or better for all peak periods. The Clough Pike approaches continue to operate at LOS "A" at all times.
- No turn lanes are warranted at the study intersections.

Recommendations

The proposed development is projected to have minimal impact on the study roadways. Based on traffic engineering observations of the study area, data collected, and various analyses, HRG does not anticipate any mitigation will be required along Clough Pike. When constructing the access driveways, ensure any vegetation and site amenities be kept clear within the sight triangle.



Introduction

Herbert, Rowland & Grubic, Inc. (HRG) has been retained by the developer to provide traffic analysis related to the proposed Harmony Senior Living at Anderson Development in Anderson Township, Hamilton County. The proposed development is located on the south side of Clough Pike. A location map is shown in Figure 1. A Site Plan is provided in Appendix A.

This development study has been conducted in accordance with the Institute of Transportation Engineers (ITE) Traffic Access and Impact Study Guidelines. The study will address the following issues:

- Traffic conditions created by the proposed development onto the study intersections.
- The necessary improvements required (if any) for efficient traffic flow on the adjacent roadway network to accommodate the new traffic configuration.

Based on the discussion with the County Traffic Engineer, it was determined that the study area for analysis would examine the following intersections:

- Clough Pike and Western Driveway New Intersection
- Clough Pike and Eastern Driveway New Intersection

The analyses will examine Existing Conditions (2019) and Opening Year (2020) roadway conditions with the addition of the proposed development.

EXISTING TRANSPORTATION SYSTEM

Roadway Network Description

<u>Clough Pike</u> is a two-lane county roadway classified as a minor arterial roadway. Throughout the study area, Clough Pike is comprised of 11 foot travel lanes with 1 foot shoulders and the posted speed limit is 40 miles per hour.

Existing Traffic Volumes

HRG conducted a turning movement count within the study area during the AM peak (7:00-9:00 AM) and the PM peak (4:00-6:00 PM) periods during dates at the following intersection:

Tuesday, February 5 (PM peak period) and Wednesday February 6 (AM peak period), 2019

• Clough Pike and Motz Turf Driveway – Unsignalized

The turning movement counts can be found in Appendix B.

Since there are no intersecting roadways between the proposed access volumes, and to be conservative in the analysis, one (1) full access driveway was assumed (with exception of the sight distance evaluation). The peak hour traffic volumes for 2019 Existing Conditions are shown in Figure 2. Site inventory pictures at each proposed driveway are provided in Appendix C.

PROJECTED TRAFFIC VOLUMES

Background Traffic Volumes

Background traffic volumes represent the number of vehicles that will be using the study area roadways without the proposed development. Based on the rate provided by *Ohio-Kentucky-Indiana Regional Council of Governments (OKI)*, a linear annual growth rate of 0.15% accounts for the general trend of increasing vehicular trips that cannot be assigned to any specific development. The background traffic for this study has been developed by growing the existing traffic counts to the 2020 year using the 0.15% compounded annual growth rate.

The 2020 opening year Without Development background traffic volumes are shown on Figure 3.

Site Traffic Volumes

Based on the descriptions provided in the Trip Generation Manual, 10th Edition, the land use that is the most consistent with the anticipated use of the proposed Senior Center is Land Use 254, *Assisted Living*. A total of 122 beds is expected for the development

Chart A below shows a summary of the anticipated trips generated by the development. Detailed trip generation calculations for the proposed development is displayed in Appendix D.

	CHART A – PROPOSED DEVELOPMENT TRIP GENERATION SUMMARY													
ITE Land	d Variable # of Beds AM Peak Hour PM Peak Hour Weekday													
Use Code	variable	# of Deus	Enter	Exit	Total	Enter	Exit	Total	Enter	Exit	Total			
254- Assisted Living	Beds	122	14	9	23	12	20	32	159	159	318			

Site Traffic Distribution

Proposed Development Trip Distribution

Distribution for the proposed development is based on the directional proportion of vehicles when collected during the turning movement counts.

The proportion of development traffic and development volumes are provided in Figure 4.

Total Traffic Volumes

The 2020 With Development scenario considers the background traffic and adds the proposed development. The peak hour volumes for the 2020 With Development scenario are depicted on Figure 5.

TRAFFIC ANALYSIS

: { C

Turn Lane Warrant Analysis

The Turn Lane Warrant Analysis is based on *ODOT Location and Design Manual, Volume 1, Section 401.6.1*. The results of the analysis for the proposed intersections conclude that a left turn lane is not warranted for the 2020 With Development scenario:

The results of this analysis is shown in Appendix E.

Intersection Capacity Analysis

The AM and PM peak hours were analyzed at the study area intersections to determine their capacity under existing and opening year (2020) traffic volume conditions. The capacities of each intersection in the study area were analyzed using the procedures outlined in the *2010 Highway Capacity Manual* as applied by Highway Capacity Software (HCS).

The *Highway Capacity Manual (HCM)* defines the Level of Service (LOS) as a function of the delay encountered by motorists, which is a measure of driver discomfort, frustration, fuel consumption, and lost travel time. LOS is a designated letter grade that corresponds to a given average control delay per vehicle. Control delay includes initial deceleration delay, queue move-up time, stopped delay, and final acceleration delay. Unsignalized intersections are analyzed using unsignalized intersection capacity analyses. The LOS of an unsignalized intersection is determined by each vehicle's delay. Chart B describes each unsignalized intersection LOS by average control delay and its characteristics.

Сна	CHART B: UNSIGNALIZED INTERSECTIONS – LOS CRITERIA										
LEVEL OF SERVICE	AVERAGE Control Delay (sec/veh)	EXPECTED DELAY TO MINOR STREET TRAFFIC									
А	≤ 10	Little or no delay									
В	$> 10 \text{ and } \le 15$	Short traffic delays									
С	$>$ 15 and \leq 25	Average traffic delays									
D	> 25 and ≤ 35	Long traffic delays									
E	$>$ 35 and \leq 50	Very long delays									
F	> 50	Volume exceeds capacity									

The results of the intersection capacity analyses for the study intersection for the AM and PM peak periods are summarized in Chart C.

	Сна	RT C: L	EVEL-	OF-SER	VICE TAE	BLE							
Scenario Clough Pike Proposed Driveway													
2020 W/Development	I	EB	v	VB		NB	Overall						
AM	А	(0.0)	Α	(0.3)	В	(14.7)	А	(0.3)					
PM	А	(0.0)	А	(0.2)	С	(16.9)	А	(0.3)					

The results of the intersection capacity analysis reveals that proposed intersection has an overall LOS of "A" with the approaches having a LOS grade of "C" or better. Clough Pike approaches continues to have a LOS of "A" at all times.

HCS Capacity Analysis for the 2020 Opening Year scenarios are shown in Appendix F.

Sight Distance Analysis

The proposed intersections are being designed to meet sight distance requirements for AASHTO Intersection Sight Distance and Hamilton County Sight Distance requirements. This evaluation determines sight line distances that are required for entering and exiting the proposed roadways. Based on a driver eye height of 3.5-feet, object heights of 4.25-feet, and 17-foot offset from the edge of the through lane, HRG

determined there will be sufficient sight distance at both the intersections. See Appendix G for sight distance calculations and photographs of each movement.

CONCLUSIONS

Study Findings

Based on the data collected and the analyses performed under various conditions, the following are the results found:

- Access to the development is adequately provided via two (2) full-access driveways.
- The development is projected to have a minimal impact on the study roadways. The new intersections are projected to operate at LOS "C" or better for all peak periods. The Clough Pike approaches continue to operate at LOS "A" at all times.
- No turn lanes are warranted at the study intersections.

Recommendations

The proposed development is projected to have minimal impact on the study roadways. Based on traffic engineering observations of the study area, data collected, and various analyses, HRG does not anticipate any mitigation will be required along Clough Pike. When constructing the access driveways, ensure any vegetation and site amenities be kept clear within the sight triangle.







FIGURE 1. LOCATION MAP HARMONY SENIOR LIVING AT ANDERSON DEVELOPMENT

TRAFFIC IMPACT STUDY CLOUGH PIKE, ANDERSON TOWNSHIP HAMILTON COUNTY, OHIO







rty Township, PA. 16066 (724) 779 - 4777 ax (724) 779 - 4711

SCALE: 1" = 500' JOB#: R001432.0446

FEB., 2019

SOURCE: BING IMAGERY



- DATA COLLECTION LOCATION

- PROPOSED DEVELOPMENT

















Herbert, Rowland, & Grubic, Inc. 200 West Kensinger Drive Cranberry Township, PA 16066

Building Relationships, Designing Solutions

File Name : Clough Pike AM Peak Site Code : 0000000 Start Date : 2/6/2019 Page No : 1

								Gro	oups Prir	nted- Cars	 Heavy \ 	/ehicles									
		C	lough Pi	ike			C	lough Pi	ke								Mo	otz Drive	way		
			Eastbour	nd				Vestbou	nd			<u> </u>	<u>lorthbou</u>	nd			5	outhbou	nd		
Start Time	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Int. Total
07:00 AM	0	46	0	0	46	0	176	0	0	176	0	0	0	0	0	0	0	0	0	0	222
07:15 AM	0	44	0	0	44	0	142	1	0	143	0	0	0	0	0	0	0	1	0	1	188
07:30 AM	0	76	0	0	76	0	107	1	0	108	0	0	0	0	0	0	0	0	0	0	184
07:45 AM	2	62	0	0	64	0	96	2	0	98	0	0	0	0	0	0	0	0	0	0	162
Total	2	228	0	0	230	0	521	4	0	525	0	0	0	0	0	0	0	1	0	1	756
08:00 AM	0	52	0	0	52	0	127	1	0	128	0	0	0	0	0	0	0	0	0	0	180
08:15 AM	1	68	0	0	69	0	135	1	0	136	0	0	0	0	0	0	0	0	0	0	205
08:30 AM	0	56	0	0	56	0	112	0	0	112	0	0	0	0	0	1	0	0	0	1	169
08:45 AM	1	47	0	0	48	0	116	0	0	116	0	0	0	0	0	0	0	0	0	0	164
Total	2	223	0	0	225	0	490	2	0	492	0	0	0	0	0	1	0	0	0	1	718
		-	-	-	- 1	-			-		-	-	-	-			-	-	-		-
Grand Total	4	451	0	0	455	0	1011	6	0	1017	0	0	0	0	0	1	0	1	0	2	1474
Apprch %	0.9	99.1	0	0		0	99.4	0.6	0	-	0	0	0	0	-	50	0	50	0		
Total %	0.3	30.6	0	0	30.9	0	68.6	0.4	0	69	0	0	0	0	0	0.1	0	0.1	0	0.1	
Cars	4	445	0	0	449	0	1002	6	0	1008	0	0	0	0	0	1	0	1	0	2	1459
% Cars	100	98.7	Ō	0	98.7	0	99.1	100	0	99.1	Ō	Ō	Ō	0	Ō	100	Ō	100	0	100	99
Heavy Vehicles	0	6	0	0	6	0	9	0	0	9	0	0	0	0	0	0	0	0	0	0	15
% Heavy Vehicles	Ő	1.3	Õ	0	1.3	Õ	0.9	Õ	Õ	0.9	Õ	Ő	Õ	Õ	õ	Õ	Õ	Õ	Õ	Ő	1

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		E	astboun	d			V	Vestboun	d			1	Vorthbour	nd			S	outhbour	nd		
Start Time	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Int. Total
Peak Hour Analys	sis From (7:00 AM	to 08:45	AM - Pea	ak 1 of 1			-					-					-			
Peak Hour for En	tire Inters	ection Be	gins at 0	7:00 AM																	
07:00 AM	0	46	0	0	46	0	176	0	0	176	0	0	0	0	0	0	0	0	0	0	222
07:15 AM	0	44	0	0	44	0	142	1	0	143	0	0	0	0	0	0	0	1	0	1	188
07:30 AM	0	76	0	0	76	0	107	1	0	108	0	0	0	0	0	0	0	0	0	0	184
07:45 AM	2	62	0	0	64	0	96	2	0	98	0	0	0	0	0	0	0	0	0	0	162
Total Volume	2	228	0	0	230	0	521	4	0	525	0	0	0	0	0	0	0	1	0	1	756
% App. Total	0.9	99.1	0	0		0	99.2	0.8	0		0	0	0	0		0	0	100	0		
PHF	.250	.750	.000	.000	.757	.000	.740	.500	.000	.746	.000	.000	.000	.000	.000	.000	.000	.250	.000	.250	.851
Cars	2	222	0	0	224	0	515	4	0	519	0	0	0	0	0	0	0	1	0	1	744
% Cars	100	97.4	0	0	97.4	0	98.8	100	0	98.9	0	0	0	0	0	0	0	100	0	100	98.4
Heavy Vehicles	0	6	0	0	6	0	6	0	0	6	0	0	0	0	0	0	0	0	0	0	12
% Heavy Vehicles	0	2.6	0	0	2.6	0	1.2	0	0	1.1	0	0	0	0	0	0	0	0	0	0	1.6

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Building Relationships, Designing Solutions

File Name : Clough Pike PM Peak Site Code : 0000000 Start Date : 2/5/2019 Page No : 1

	1				1			Gro	oups Prir	<u>nted- Cars</u>	- Heavy \	/ehicles									
		C	lough Pi	ke			C	lough Pi	ke								Mo	otz Drive	way		
		[<u>Eastbour</u>	nd				Vestbour	nd			<u> </u>	<u>Northbou</u>	nd			S	outhbou	nd		
Start Time	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Int. Total
04:00 PM	0	109	0	0	109	0	71	0	0	71	0	0	0	0	0	0	0	0	0	0	180
04:15 PM	0	129	0	0	129	0	64	0	0	64	0	0	0	0	0	1	0	1	0	2	195
04:30 PM	0	121	0	0	121	0	62	0	0	62	0	0	0	0	0	1	0	0	0	1	184
04:45 PM	0	163	0	0	163	0	71	0	0	71	0	0	0	0	0	1	0	1	0	2	236
Total	0	522	0	0	522	0	268	0	0	268	0	0	0	0	0	3	0	2	0	5	795
05:00 PM	0	177	0	0	177	0	71	0	0	71	0	0	0	0	0	0	0	0	0	0	248
05:15 PM	0	195	0	0	195	0	84	0	0	84	0	0	0	0	0	0	0	0	0	0	279
05:30 PM	0	185	0	0	185	0	84	0	0	84	0	0	0	0	0	0	0	0	0	0	269
05:45 PM	0	161	0	0	161	0	79	0	0	79	0	0	0	0	0	0	0	0	0	0	240
Total	0	718	0	0	718	0	318	0	0	318	0	0	0	0	0	0	0	0	0	0	1036
Grand Total	0	1240	0	0	1240	0	586	0	0	586	0	0	0	0	0	3	0	2	0	5	1831
Apprch %	0	100	0	0		0	100	0	0		0	0	0	0		60	0	40	0		
Total %	0	67.7	0	0	67.7	0	32	0	0	32	0	0	0	0	0	0.2	0	0.1	0	0.3	
Cars	0	1237	0	0	1237	0	583	0	0	583	0	0	0	0	0	3	0	2	0	5	1825
% Cars	0	99.8	0	0	99.8	0	99.5	0	0	99.5	0	0	0	0	0	100	0	100	0	100	99.7
Heavy Vehicles	0	3	0	0	3	0	3	0	0	3	0	0	0	0	0	0	0	0	0	0	6
% Heavy Vehicles	0	0.2	0	0	0.2	0	0.5	0	0	0.5	0	0	0	0	0	0	0	0	0	0	0.3

		C	lough Pil	ke d			C	lough Pik	ke d			١	Vorthbour	nd							
Start Time	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Int. Total
Peak Hour Analys	sis From (4:00 PM	to 05:45	PM - Pe	ak 1 of 1								<u> </u>								
Peak Hour for En	tire Inters	ection Be	gins at 0	5:00 PM																	
05:00 PM	0	177	0	0	177	0	71	0	0	71	0	0	0	0	0	0	0	0	0	0	248
05:15 PM	0	195	0	0	195	0	84	0	0	84	0	0	0	0	0	0	0	0	0	0	279
05:30 PM	0	185	0	0	185	0	84	0	0	84	0	0	0	0	0	0	0	0	0	0	269
05:45 PM	0	161	0	0	161	0	79	0	0	79	0	0	0	0	0	0	0	0	0	0	240
Total Volume	0	718	0	0	718	0	318	0	0	318	0	0	0	0	0	0	0	0	0	0	1036
% App. Total	0	100	0	0		0	100	0	0		0	0	0	0		0	0	0	0		
PHF	.000	.921	.000	.000	.921	.000	.946	.000	.000	.946	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.928
Cars	0	716	0	0	716	0	316	0	0	316	0	0	0	0	0	0	0	0	0	0	1032
% Cars	0	99.7	0	0	99.7	0	99.4	0	0	99.4	0	0	0	0	0	0	0	0	0	0	99.6
Heavy Vehicles	0	2	0	0	2	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	4
% Heavy Vehicles	0	0.3	0	0	0.3	0	0.6	0	0	0.6	0	0	0	0	0	0	0	0	0	0	0.4



Sight Inventory Pictures

Intersection 1: Clough Pike & West Proposed Driveway



Driveway Location



Eastbound Approach



Westbound Approach



Northbound Approach

Intersection 2: Clough Pike & East Proposed Driveway



Driveway Location



Eastbound Approach



Westbound Approach



Northbound Approach



TRIP GENERATION SUMMARY

Trip Generation Clough Pike Senior Development

254 Assisted Living

ITE Land Use Code	Description	Variable	# of Beds	Time Period	ITE Rate	ITE Equation	R^2 Value	Percent Entering	Percent Exiting	Total Trips (Rate)	Total Trips (Equation)	Use Rate or Equation	Total Trips Entering	Total Trips Exiting
254	Assisted Living	Beds	122	Weekday, Peak Hour of Adjacent Street Traffic, One Hour Between 7 and 9 a.m.	0.19	N/A	N/A	63%	37%	23	N/A	Rate	14	9
254	Assisted Living	Beds	122	Weekday, Peak Hour of Adjacent Street Traffic, One Hour Between 4 and 6 p.m.	0.26	N/A	N/A	38%	62%	32	N/A	Rate	12	20
254	Assisted Living	Beds	122	Weekday	2.60	N/A	N/A	50%	50%	318	N/A	Rate	159	159





October 2004



	HCS 2010 Two-Way Stop C	ontrol Summary Re	eport								
General Information Site Information											
Analyst	ТМН	Intersection	Clough Pike								
Agency/Co.	HRG, Inc.	Jurisdiction	Hamilton County								
Date Performed	2/7/2019	East/West Street	Clough Pike								
Analysis Year	2020	North/South Street	Proposed Driveway								
Time Analyzed	AM Peak	Peak Hour Factor	0.85								
Intersection Orientation	East-West	Analysis Time Period (hrs)	0.25								
Project Description	Clough Pike Development										

Lanes



Vehicle Volumes and Adjustments

| Eastbound |
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HCS 2010[™] TWSC Version 6.70 2020 Build AM Peak.xtw

	HCS 2010 Two-Way Stop Control Summary Report										
General Information		Site Information									
Analyst	ТМН	Intersection	Clough Pike								
Agency/Co.	HRG, Inc.	Jurisdiction	Hamilton County								
Date Performed	2/7/2019	East/West Street	Clough Pike								
Analysis Year	2020	North/South Street	Proposed Driveway								
Time Analyzed	PM Peak	Peak Hour Factor	0.93								
Intersection Orientation	East-West	Analysis Time Period (hrs)	0.25								
Project Description	Clough Pike Development										

Lanes



Vehicle Volumes and Adjustments

Approach	Eastbound			Westbound			Northbound					South	Southbound			
Movement	U	L	T	R	U	L	Т	R	U	L	T	R	U	L	T	R
Priority	1U	1	2	3	4U	4	5	6		7	8	9		10	11	12
Number of Lanes	0	0	1	0	0	0	1	0		0	0	0		0	0	0
Configuration				TR		LT					LR					
Volume (veh/h)			720	8		4	319			6		14				
Percent Heavy Vehicles						2				2		2				
Proportion Time Blocked																
Right Turn Channelized	No				No				No				No			
Median Type	Undivided															
Median Storage																
Delay, Queue Length, and Level of Service																
Flow Rate (veh/h)						347					21					
Capacity						830					324					
v/c Ratio						0.42					0.06					
95% Queue Length						0.0					0.2					
Control Delay (s/veh)						9.4					16.9					
Level of Service (LOS)						А					С					
Approach Delay (s/veh)				0.2			16.9									
Approach LOS				А			C									

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Western Driveway



56

Western Access – Sight Distance Photo Log



Western Driveway Access Location



Looking Left (SIGHT DISTANCE – 920 FT)



: Looking Right (SIGHT DISTANCE >1000 FT)



Vehicle making a left turn into driveway continuously seeing a vehicle approaching from the opposite direction (SIGHT DISTANCE – 920 FT)

Eastern Driveway



Eastern Access – Sight Distance Photo Log



Eastern Driveway Access Location



Looking Left (SIGHT DISTANCE - >1000 FT)



: Looking Right (SIGHT DISTANCE 725 FT)



Vehicle making a left turn into driveway continuously seeing a vehicle approaching from the opposite direction (SIGHT DISTANCE – >1000 FT)