TRAFFIC IMPACT ANALYSIS

FOR

BRAXTON DEVELOPMENT APARTMENTS

JONESBORO, ARKANSAS

Prepared for:

Braxton Development

Prepared by:

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PURPOSE

The purpose of this study is to evaluate the impact to traffic from the proposed Apartments located on the west side of S. Caraway Road near the intersection of S. Caraway Road and Glenn Place. This study includes determining if the intersection of S. Caraway Road and Glenn Place meets any warrants for a traffic signal. This study further evaluates the Level-of-Service of the two unsignalized intersections that will provide access into the site. Figure 1 shows the location of the proposed development.

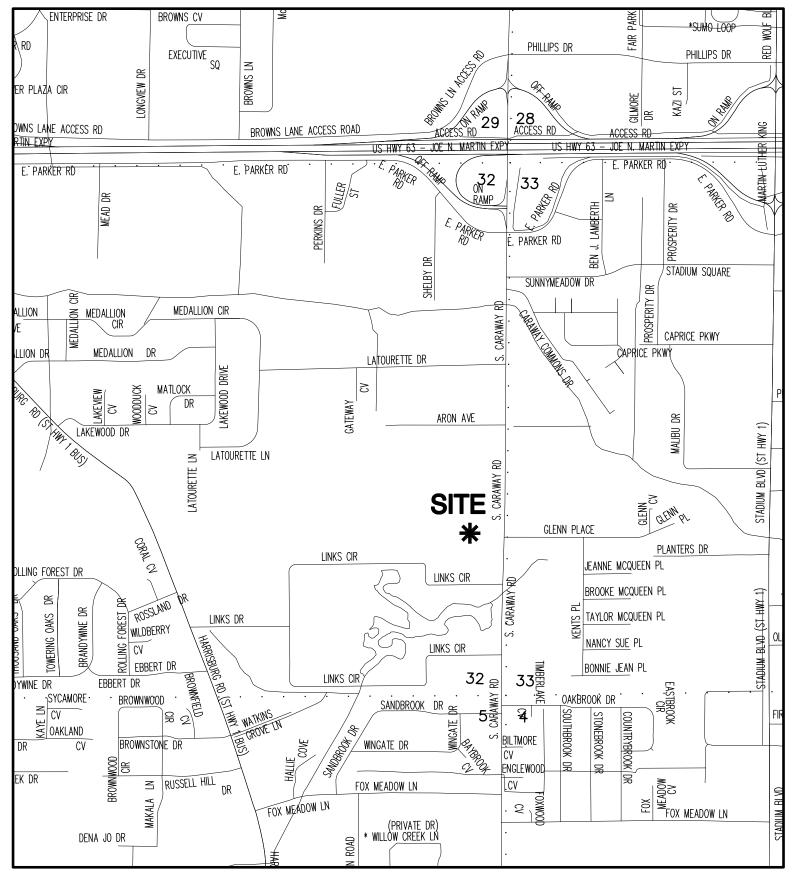




FIGURE 1

VICINITY MAP

EXISTING CONDITIONS

The Braxton Development Apartments are proposed to be constructed on the west side of S. Caraway Road across from the Glenn Place intersection. Caraway Road is a north south roadway that extends from the south side of Jonesboro, north to near the Arkansas State University Campus. This section of roadway provides access for many residential and commercial properties. The roadway adjacent to the proposed apartment complex is a two lane rural section.

Glenn Place is an east west two lane collector road that serves primarily residential properties east of S. Caraway. There is a gas station at the southeast corner of S. Caraway and Glenn Place and a car wash on the northeast corner.



S. Caraway Road and Glenn Place Intersection

Traffic counts were taken at the intersection of S. Caraway and Glenn Place on Wednesday, March 29, 2017. Traffic counts began at 5:30 A.M. and extended to 7:30 P.M. The results of this 14-hour count are shown in the Appendix.

PROPOSED DEVELOPMENT

This proposed development consists of a multi-family residential apartment complex with a total of 296 dwelling units. A total of 184 is planned for Phase 1 and a total of 112 in Phase 2. For the purpose of this study, the estimated traffic generated from the development will be the total build-out of 296 units. See Figure 2 for the preliminary site plan of the development. Access to the site is planned to include two drives off of S. Caraway Road with the main drive approximately 280 feet north of the Glenn Place intersection. The secondary drive is planned to line up directly across from Glenn Place. Both drives provide full movements with a one lane entrance, and one lane exiting the site.

As stated above the development is planned for two different phases. Phase 2 of the development is not anticipated to begin until 2019, and be completed in 2020.



PHASE II

PHASE

Figure 2 Site Plan

JONESBORO MULTI FAMILY SCHEMATIC SITE PLAN - # 4
JONESBORO, AR



OPEN SPACE TABULATION: 158,200 SQ FT, REQUIRED +/- 209,000 SQ FT, PROVIDED

TRAFFIC PROJECTIONS

Traffic generated from the proposed site was estimated from the Institute of Transportation Engineers Trip Generation Manual 9th Edition. Volumes were generated for both the A.M. Peak Hour and the P.M. Peak Hour during a weekday when traffic volumes are greater. Below are the volumes anticipated for both A.M. and P.M. Peak Hours. Table 1 displays the anticipated traffic generated from the site.

296 Dwelling Units

A.M. PEAK HOURS

P.M. PEAK HOUR

T = 0.49(X) + 3.73	= 149	T = 0.55 (X) + 17.65	= 180
80% Exiting 0.8 X 149	= 119	35% Exiting .35 X 180	= 63
20% Entering 0.2 X 149	= 30	65% Entering .65 X 180	= 117

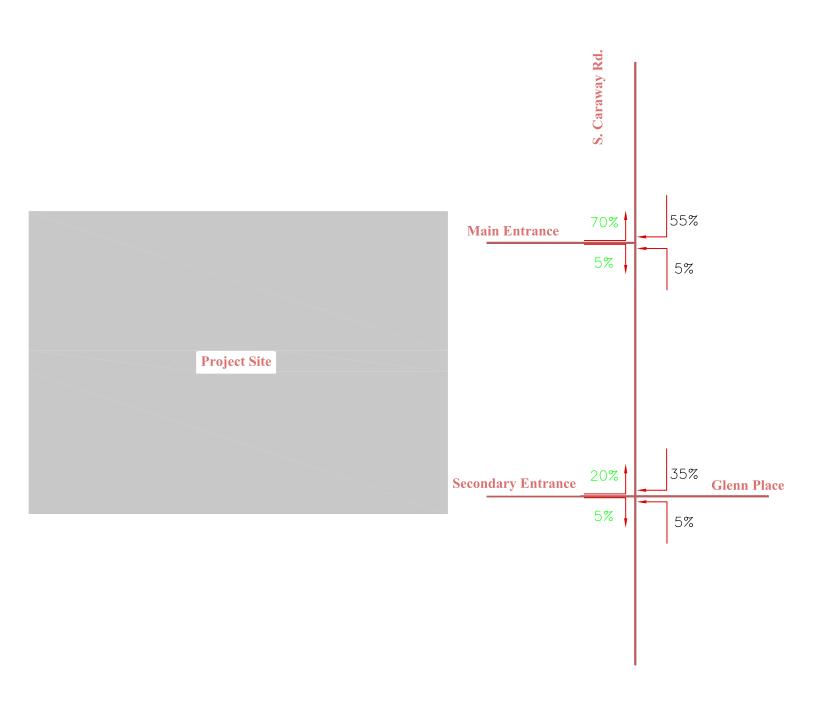
X = Number of Dwelling Units

T = Total Trip Ends

TABLE 1								
	TRIP GENERATION							
A.M. Pe	ak Hour	P.M. Peak Hour						
Enter	Exit	Enter	Exit					
30	119	117	63					

The new trips that will be generated by the development were assigned to the roadway network using the trip distributions shown in Figure 3. Figure 3 shows the trip distribution pattern for both the A.M. and the P.M. peak hour without any signalization of S. Caraway Road and Glenn Place. In the event of signalization at this intersection, distribution out of the site will change significantly. Figure 4 shows the anticipated distribution with a signal at this

intersection. The trip distribution was based upon observed traffic patterns in the area. It is estimated that 90 percent of the A.M. and P.M. traffic generated from the site will travel north from the site towards I-555. It is estimated that 90% of the projected traffic will come from this same direction during both the A.M. and P.M. Peak Hour back to the site. The traffic assignment for these peak hour volumes is shown in Figure 5 without any signalization, and Figure 6 with the signalization.

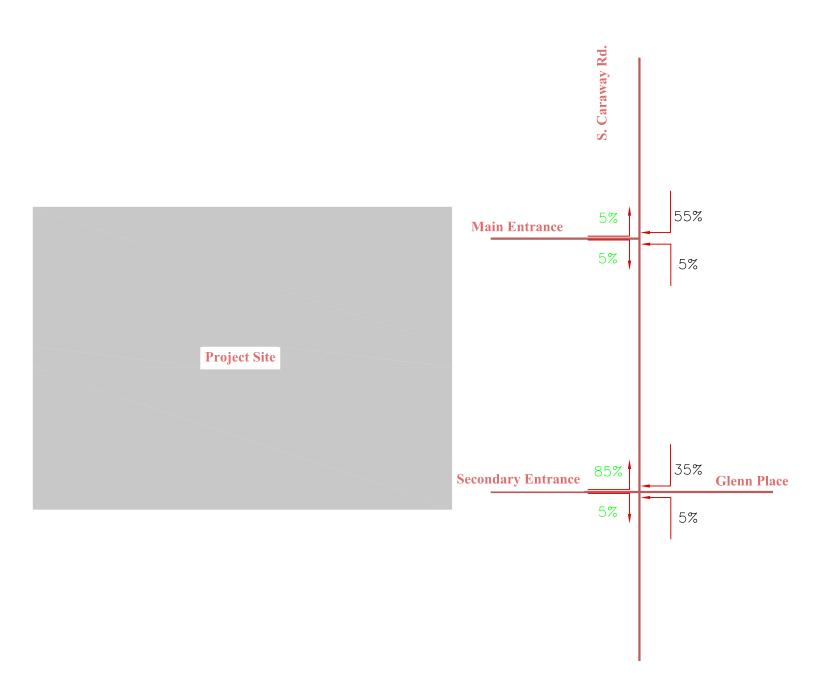




XX% - ENTERING

XX% - EXITING

Figure 3
Distribution of Peak Hour Traffic Volumes
Generated by the Project Site With No Signalization (AM/PM Peak Hour)
(Not to Scale)

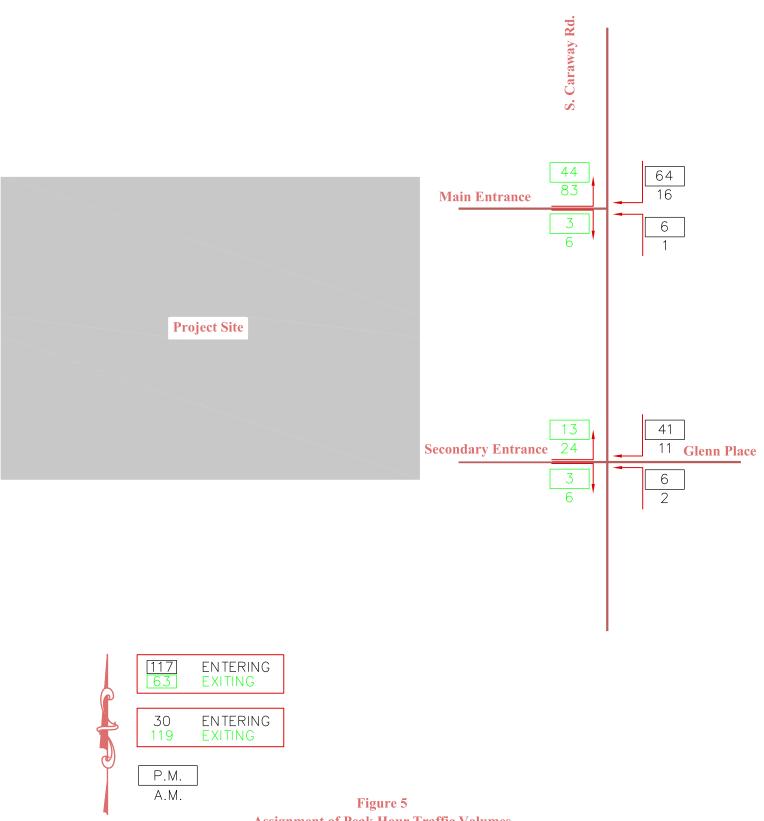




XX% - ENTERING

XX% - EXITING

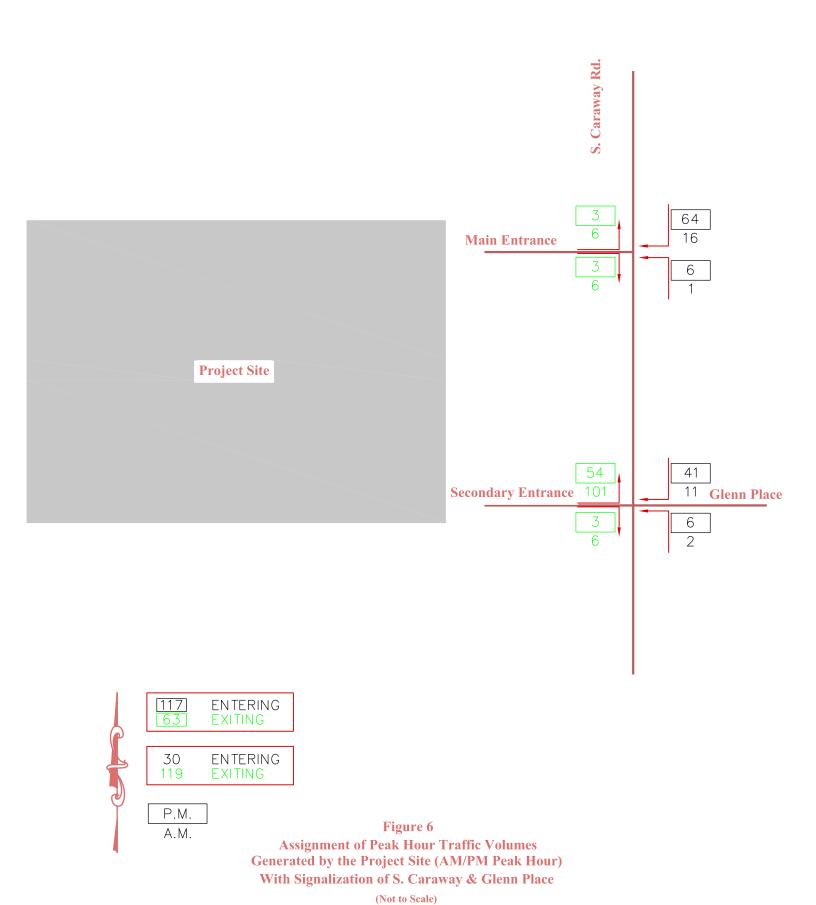
Figure 4
Distribution of Peak Hour Traffic Volumes
Generated by the Project Site (AM/PM Peak Hour)
With Signalization of S. Caraway & Glenn Place
(Not to Scale)



Assignment of Peak Hour Traffic Volumes

Generated by the Project Site With No Signalization (AM/PM Peak Hour)

(Not to Scale)



LEVEL-OF-SERVICE ANALYSIS

In order to determine the Level-of-Service (LOS) for these two access points for the proposed

development a capacity analysis was performed at these intersections.

Traffic volumes used for the analysis included the volumes acquired from the traffic counts at

the S. Caraway Road and Glenn Place intersection. Since Phase 2 of the development is not

expected to be completed until 2020, a 1.5 % growth factor per year was used for the S.

Caraway through traffic only. No increase in volume was calculated for Glenn Place due to the

fact that the area is built out. The existing peak hour volumes are shown in Figure 7, and the

2020 volumes without the development (No build) are shown in Figure 8. Volumes projected

from the proposed site was added to the intersection based upon 2020 traffic volumes and no

signalization. These volumes are shown in Figures 9 and 10.

Level-of-Service (LOS) for an intersection is defined in the Highway Capacity Manual in terms of

delay, which is a measure of driver discomfort, frustration, fuel consumption and lost travel

time. Six LOS are defined with letters designating each level from A to F, with LOS "A"

representing the best operating conditions and LOS "F" representing the worst operating

conditions. Table 2 shows the LOS for unsignalized intersections and the associated delay in

seconds.

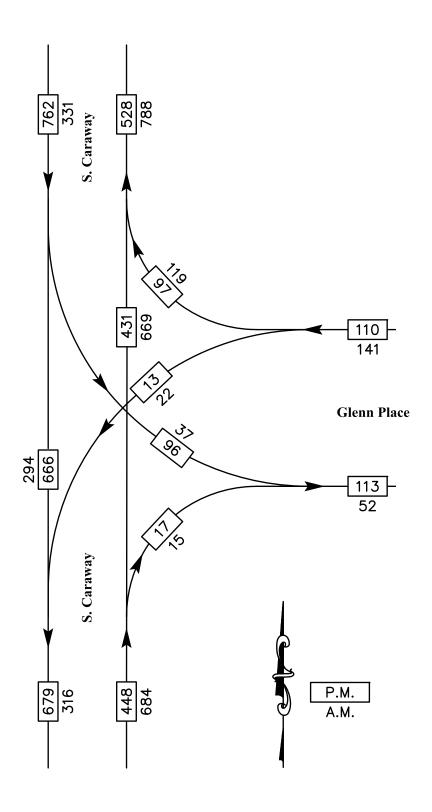


Figure 7
Existing Peak Hour Volumes
S. Caraway Road/Glenn Place

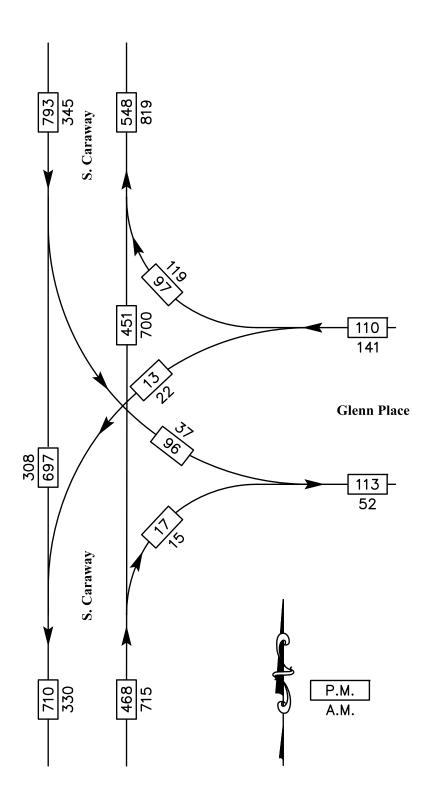


Figure 8
Peak Hour Volumes (2020 No-Build)
S. Caraway Road/Glenn Place

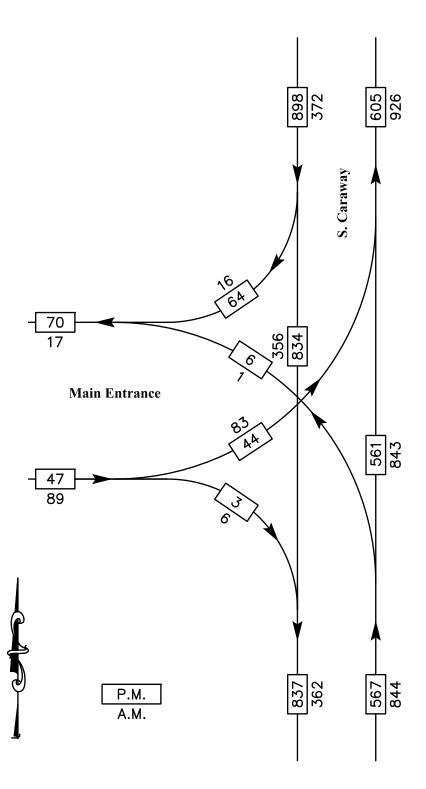


Figure 9
Proposed Peak Hour Volumes (2020 Build)
Main Entrance/South Caraway

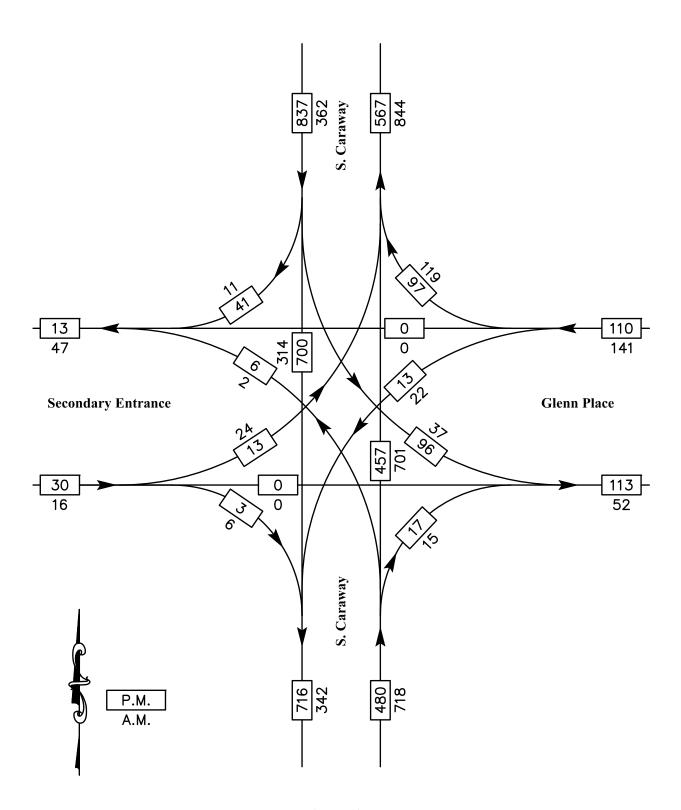


Figure 10
Proposed Peak Hour Volumes (2020 Build)
Glenn Place & Secondary Entrance/South Caraway Road

TABLE 2								
LEVEL-OF-SERVICE								
Level-of-Service	Average Total Delay (SEC/VEH)							
	Unsignalized							
A	≤10							
В	>10 and ≤15							
С	>15 and ≤25							
D	>25 and ≤35							
E	>35 and ≤50							
F	>50							

The Highway Capacity Software Version 5.6 was used to perform the LOS analysis. The analysis for the existing conditions at S. Caraway and Glenn Place show that the stop conditions for westbound Glenn Place operates at a LOS "C" for both A.M and P.M. Peak Hours. The southbound Caraway left turn operates at a LOS "A" for the same periods. With the additional traffic projected from 2020 traffic without the development (no build), the LOS remains the same with only a slight increase in delay time. Results for this intersection analysis are shown in Tables 3 and 4, with the HCS reports in the Appendix.

Volumes from the development were then added to the S. Caraway and Glenn Place intersection for the 2020 volumes. This intersection now becomes a full 4-leg intersection. The analysis was run again and the westbound Glenn Place traffic slipped to a LOS "D" in the A.M. Peak, but remained a LOS "C" in the P.M. Peak, although delays increased. The southbound left turn into Glenn Place remained a LOS "A" for both periods.

TABLE 3 S. CARAWAY ROAD AND GLENN PLACE Existing Conditions								
			LEVEL OF	SERVICE				
Approach	Movement	AM Peak Hour (LOS)	Average Delay (sec/veh)	PM Peak Hour (LOS)	Average Delay (sec/veh)			
Westbound	Left/Right	С	21.6	С	16.7			
AL ALL L	Through	-	-	-	-			
Northbound	Right	-	-	-	-			
Couthbound	Left	Α	9.4	А	8.7			
Southbound	Through	-	-	-	-			

TABLE 4 S. CARAWAY ROAD AND GLENN PLACE Projected 2020 Traffic (No Build)									
			LEVEL OF	SERVICE					
Approach	Movement	AM Peak Hour (LOS)	Average Delay (sec/veh)	PM Peak Hour (LOS)	Average Delay (sec/veh)				
Westbound	Left/Right	С	23.0	С	17.5				
NIII	Through	-	-	-	-				
Northbound	Right	-	-	-	-				
Southbound	Left	Α	9.5	А	8.8				
Southbound	Through	-	-	-	-				

The newly added eastbound traffic from the proposed development will operate at a LOS "E"

for the A.M. Peak Hour and slip to a LOS "F" for the P.M. Peak Hour. This is due to the volume

of the left turn movement out of the site. This analysis was run with only one lane exiting the

site. The analysis was run again utilizing an additional lane exiting the site for right turns. The

results changed little since the vast majority of the vehicles are turning left to go north on S.

Caraway. The results of this analysis are shown in Table 5. The HCS Reports are in the

Appendix.

The main entrance to the north was also analyzed. The results show that the eastbound

movement out of the site will operate at a LOS "E" for both the A.M. and P.M. Peak Hours. The

results were also run with an additional lane out of the site. This additional lane, again did not

decrease delays significantly. The results are shown in Table 6 with the HCS Reports in the

Appendix.

Queue Lengths

The queue lengths for both the main entrance and secondary entrance of Glenn Place were also

evaluated. With just the one-lane exiting the site, an average of one to three vehicles can be

expected in the queue for the Peak Hour. The Site Plan currently provides enough distance for

3 vehicles to gueue up to exit the site, therefore the distance should be adequate at both

access points. However, even though the analysis has the average of no more than 3 vehicles in

the queue, there could be the occasional rush of traffic at certain periods that cause this

number to increase due to the inconsistency of traffic volumes

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APARTMENTS – JONESBORO, AR BRAXTON DEVELOPMENT

TABLE 5 S. CARAWAY ROAD AND GLENN PLACE Proposed Conditions (Build)								
			LEVEL OF	SERVICE				
Approach	Movement	AM Peak Hour (LOS)	Average Delay (sec/veh)	PM Peak Hour (LOS)	Average Delay (sec/veh)			
Eastbound	Left/Right	E	48.0	F	66.5			
Westbound	Left	D	25.9	С	21.5			
	Left	Α	8.0	Α	9.4			
Northbound	Through	-	-	-	-			
	Right	-	-	-	-			
	Left	Α	9.5	Α	8.8			
Southbound	Through	-	-	-	-			
	Right	-	-	-	-			

TABLE 6 S. CARAWAY ROAD AND MAIN ENTRANCE Proposed Conditions (Build)								
			LEVEL OF	SERVICE				
Approach	Movement	AM Peak Hour (LOS)	Average Delay (sec/veh)	PM Peak Hour (LOS)	Average Delay (sec/veh)			
Eastbound	Left/Right	E	43.7	E	49.6			
No who be a consider	Left	Α	8.1	В	10.1			
Northbound	Through	-	-	-	-			
Southbound	Through	-	-	-	-			
Southbound	Right	-	-	-	-			

SIGNAL WARRANT ANALYSIS

The Manual on Uniform Traffic Control Devices (MUTCD) outlines 8 different warrants to justify the installation of a traffic signal. The traffic signal should not be installed unless one or more of these warrants are satisfied. After reviewing the volumes from the existing traffic counts, only one warrant was considered for evaluation - Warrant 2, Four-Hour Vehicular Volume. The MUTCD states the following concerning this particular warrant.

The need for a traffic control signal shall be considered if an engineering study finds that, for each of any 4 hours of an average day, the plotted points representing the vehicles per hour on the major street (total of both approaches) and the corresponding vehicles per hour on the higher-volume minor-street approach (one direction only) all fall above the applicable curve in Figure 4C-1 for the existing combination of approach lanes. On the minor street, the higher volumes shall not be required to be on the same approach during each of these 4 hours.

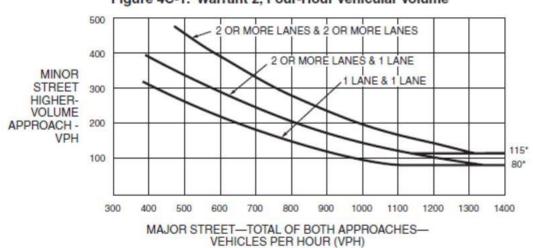


Figure 4C-1. Warrant 2, Four-Hour Vehicular Volume

*Note: 115 vph applies as the lower threshold volume for a minor-street approach with two or more lanes and 80 vph applies as the lower threshold volume for a minor-street approach with one lane. The volumes for the total approach for S. Caraway along with volumes from Glenn Place were compiled for the 14 hour period mentioned previously. The warrant was checked for each of these hours which included all of the right turn movements out of Glenn Place. This warrant was also checked if you use just 75% of the right turns out of Glenn Place. None of the left turns were reduced in either comparison. The results of this signal warrant analysis determine that five of the 14 hours do satisfy the warrant if all right turns are included in the analysis. This would satisfy the Four-Hour Vehicular Volume Warrant. When the right turns are reduced to 75% of the volume, only one of the fourteen hour periods meet the warrant. Therefore, this warrant is not satisfied if the Right Turns are reduced to 75% of their values. The results are shown in Table 7.

TABLE 7 Four-Hour Vehicle Volume Warrant Glenn Place Warrant Westbound Warrant Start Caraway Glenn Place Met Met Approach Time Total Southbound Northbound Total Westbound Y/N 75% Right Y/N **Approach Turns** 5:30 AM 5:45 AM 6:00 AM 6:15 AM **Hourly Total** Ν Ν 6:30 AM 6:45 AM 7:00 AM 7:15 AM Ν **Hourly Total** Ν 7:30 AM 7:45 AM 8:00 AM 8:15 AM **Hourly Total** Ν 8:30 AM 8:45 AM 9:00 AM 9:15 AM **Hourly Total** Ν 9:30 AM 9:45 AM 10:00 AM 10:15 AM **Hourly Total** Ν Ν 10:30 AM 10:45 AM 11:00 AM 11:15 AM **Hourly Total** Ν Ν 11:30 AM 11:45 AM 12:00 PM 12:15 PM **Hourly Total** Ν Ν

TABLE 7, CONTINUED								
Start Time		Caraway		Glenn Place	Warrant Met	Glenn Place Westbound Approach Total	Warrant Met	
	Southbound	Northbound	Total	Westbound	Y/N	75% Right	Y/N	
			Approach			Turns		
12:30 PM	105	87	192	18		14		
12:45 PM	92	101	193	27		21		
1:00 PM	115	81	196	14		11		
1:15 PM	97	74	171	21		16		
Hourly Total	409	343	752	80	N	62	N	
1:30 PM	111	97	208	32		25		
1:45 PM	100	72	172	21		17		
2:00 PM	122	72	194	14		11		
2:15 PM	112	100	212	18		15		
Hourly Total	445	341	786	85	N	68	N	
2:30 PM	127	99	226	32		25		
2:45 PM	136	116	252	32		25		
3:00 PM	132	129	261	19		15		
3:15 PM	142	89	231	22		18		
Hourly Total	537	433	970	105	Y	83	N	
3:30 PM	140	117	257	16		13		
3:45 PM	160	110	270	25		20		
4:00 PM	147	121	268	28		21		
4:15 PM	151	95	246	30		23		
Hourly Total	598	443	1041	99	Υ	77	N	
4:30 PM	179	108	287	25		20		
4:45 PM	170	111	281	27		21		
5:00 PM	192	135	327	24		19		
5:15 PM	212	98	310	33		26		
Hourly Total	753	452	1205	109	Υ	85	Υ	
5:30 PM	188	104	292	26		20		
5:45 PM	160	88	248	22		17		
6:00 PM	156	92	248	22		18		
6:15 PM	163	94	257	24		19		
Hourly Total	667	378	1045	94	Υ	74	N	
6:30 PM	135	64	199	27		21		
6:45 PM	114	89	203	27		21		
7:00 PM	100	71	171	27		21		
7:15 PM	114	88	202	16		13		
Hourly Total	463	312	775	97	N	77	N	

SUMMARY

The purpose of the study was to evaluate the impact to traffic from the Proposed Apartment

Complex on the west side of S. Caraway Road near the Glenn Place Intersection. This study

included a Level-of-Service (LOS) Analysis of the two proposed access points, with one of these

points being the intersection of S. Caraway Road and Glenn Place. In addition to this analysis a

Traffic Signal Warrant Analysis was also performed at the existing intersection of S. Caraway

Road and Glenn Place.

The results of the LOS Analysis determined that the existing intersection of S. Caraway and

Glenn Place would only be slightly impacted by the development. Delays would increase for

Glenn Place by 4 seconds or less during peak hours. The Analysis did show however that during

Peak Hours, traffic exiting the proposed development would experience delays at both access

points with LOS being an "E" or an "F". Although these delays are not desirable, they are

consistent with other access points along S. Caraway approaching from the west. Queuing

lengths from vehicles exiting the site would normally be able to be accommodated within the

area provided by the site plan which provides storage for 3 vehicles. There could however be

short periods of time when more than 3 vehicles are in the queue, but this should happen

infrequently.

The Traffic Signal Warrant Analysis revealed that at the existing intersection of S. Caraway Road

and Glenn Place, the Four-Hour Vehicular Volume Warrant is satisfied, if you include all right

turns coming out of Glenn Place. Any reduction of these right turns will cause this intersection

to fail to meet this warrant.



Study Name 03.29.17 Jonesboro (S. Caraway and Glenn) TMC

Start Date 03/29/2017 Start Time 5:30 AM

Site Code

Project Jonesboro: S. Caraway and Glenn

Turning Movement Data

Type Road Classification Totals

Start Time	S	Caraway outhboun		Glenn Westbound			Caraway Northbound			Intersection
	Thru	Left	App Total	Right	Left	App. Total	Right	Thru	App. Total	Total
5:30 AM	10	1	11	14	0	14	0	28	28	53
5:45 AM	22	3	25	7	0	7	0	39	39	71
6:00 AM	16	1	17	5	1	6	0	39	39	62
6:15 AM	30	5	35	12	0	12	1	51	52	99
Hourly Total	78	10	88	38	1	39	1	157	158	285
6:30 AM	26	5	31	22	1	23	2	77	79	133
6:45 AM	41	5	46	17	5	22	0	72	72	140
7:00 AM	58	7	65	23	7	30	2	75	77	172
7:15 AM	66	8	74	31	8	39	4	170	174	287
Hourly Total	191	25	216	93	21	114	8	394	402	732
7:30 AM	72	6	78	39	9	48	8	220	228	354
7:45 AM	85	10	95	35	3	38	2	172	174	307
8:00 AM	71	13	84	14	2	16	1	107	108	208
8:15 AM	50	7	57	22	3	25	2	87	89	171
Hourly Total	278	36	314	110	17	127	13	586	599	1040
8:30 AM	70	5	75	25	1	26	0	111	111	212
8:45 AM	50	9	59	19	2	21	1	96	97	177
9:00 AM	52	4	56	18	0	18	1	81	82	156
9:15 AM	46	7	53	13	0	13	2	67	69	135
Hourly Total	218	25	243	75	3	78	4	355	359	680
9:30 AM	56	12	68	15	2	17	0	73	73	158
9:45 AM	66	5	71	20	3	23	2	77	79	173
10:00 AM	57	8	65	6	4	10	2	69	71	146
10:15 AM	57	6	63	12	4	16	3	69	72	151
Hourly Total	236	31	267	53	13	66	7	288	295	628
10:30 AM	58	1	59	11	2	13	3	74	77	149
10:45 AM	68	8	76	9	3	12	0	95	95	183
11:00 AM	78	7	85	11	1	12	0	84	84	181
11:15 AM	69	11	80	8	1	9	1	84	85	174
Hourly Total	273	27	300	39	7	46	4	337	341	687
11:30 AM	68	10	78	15	4	19	1	65	66	163
11:45 AM	97	6	103	16	0	16	5	72	77	196
12:00 PM	118	18	136	14	3	17	3	87	90	243
12:15 PM	94	15	109	25	4	29	2	102	104	242
Hourly Total	377	49	426	70	11	81	11	326	337	844

Start Time		Caraway outhboun	d	V	Glenn Westbound			Caraway Iorthbound	Intersection	
Start Time	Thru	Left	App Total	Right	Left	App. Total	Right	Thru	App. Total	Total
12:30 PM	93	12	105	16	2	18	1	86	87	210
12:45 PM	76	16	92	23	4	27	2	99	101	220
1:00 PM	106	9	115	13	1	14	6	75	81	210
1:15 PM	81	16	97	20	1	21	4	70	74	192
Hourly Total	356	53	409	72	8	80	13	330	343	832
1:30 PM	95	16	111	29	3	32	4	93	97	240
1:45 PM	85	15	100	15	6	21	1	71	72	193
2:00 PM	109	13	122	11	3	14	1	71	72	208
2:15 PM	89	23	112	13	5	18	1	99	100	230
Hourly Total	378	67	445	68	17	85	7	334	341	871
2:30 PM	110	17	127	28	4	32	7	92	99	258
2:45 PM	115	21	136	28	4	32	1	115	116	284
3:00 PM	114	18	132	15	4	19	4	125	129	280
3:15 PM	118	24	142	17	5	22	3	86	89	253
Hourly Total	457	80	537	88	17	105	15	418	433	1075
3:30 PM	120	20	140	14	2	16	7	110	117	273
3:45 PM	132	28	160	22	3	25	7	103	110	295
4:00 PM	123	24	147	27	1	28	9	112	121	296
4:15 PM	127	24	151	27	3	30	3	92	95	276
Hourly Total	502	96	598	90	9	99	26	417	443	1140
4:30 PM	147	32	179	21	4	25	4	104	108	312
4:45 PM	154	16	170	24	3	27	3	108	111	308
5:00 PM	170	22	192	20	4	24	3	132	135	351
5:15 PM	178	34	212	30	3	33	6	92	98	343
Hourly Total	649	104	753	95	14	109	16	436	452	1314
5:30 PM	164	24	188	23	3	26	5	99	104	318
5:45 PM	135	25	160	22	0	22	2	86	88	270
6:00 PM	139	17	156	16	6	22	4	88	92	270
6:15 PM	144	19	163	19	5	24	5	89	94	281
Hourly Total	582	85	667	80	14	94	16	362	378	1139
6:30 PM	113	22	135	23	4	27	1	63	64	226
6:45 PM	100	14	114	24	3	27	8	81	89	230
7:00 PM	81	19	100	23	4	27	2	69	71	198
7:15 PM	99	15	114	11	5	16	4	84	88	218
Hourly Total	393	70	463	81	16	97	15	297	312	872
Grand Total	4968	758	5726	1052	168	1220	156	5037	5193	12139
Approach %	86.8%	13.2%	-	86.2%	13.8%	-	3.0%	97.0%	-	-
Total %	40.9%	6.2%	-	8.7%	1.4%	-	1.3%	41.5%	-	-
Lights	4894	751	-	1035	164	-	147	4987	-	11978
% Lights	98.5%	99.1%	-	98.4%	97.6%	-	94.2%	99.0%	-	98.7%
Mediums	74	7	-	17	4	-	9	46	-	157
% Mediums	1.5%	0.9%	-	1.6%	2.4%	-	5.8%	0.9%	-	1.3%
Articulated Trucks	-	-	-	-	-	-	-	4	-	4
% Articulated Trucks	-	-	-	-	-	-	-	0.1%	-	0.0%
Bicycles	-	-	-	-	-	-	-	-	-	0
Pedestrians	-	-	-	-	6	-	-	-	-	6

	TW	O-WAY STOP	CONTRO	OL SI	JMN	IARY								
General Information	n		Site Ir	nform	atio	n		•						
Analyst	Rick Gaffe	ord	Interse	ction			S. Caraw	ay and	d Gle	nn Place				
Agency/Co.	Fisher Arr	nold	Jurisdi	ction			Jonesboi							
Date Performed	4/6/2017		Analys	is Yea	<u></u>		2017							
Analysis Time Period	AM Peak													
	0323	-		,										
East/West Street: Gleni						: S. Cara	way							
Intersection Orientation:	North-South		Study F	Period	(hrs):	0.25								
Vehicle Volumes ar	nd Adjustme	nts								_				
Major Street		Northbound					Southbo	und						
Movement_	1	2	3			4	_ 5			6				
	L	Τ	R			L	T			R				
Volume (veh/h)		669	15			37	294							
Peak-Hour Factor, PHF	1.00	0.92	0.92			0.92	0.92			1.00				
Hourly Flow Rate, HFR (veh/h)	0	727	16			40	319			0				
Percent Heavy Vehicles	0					2								
Median Type		Undivided 0 1 0 0 TR LT												
RT Channelized		0 1 0 0 0 TR LT 0 Eastbound							0					
Lanes	0	1	0			0	1			0				
Configuration			TR			LT								
Upstream Signal		0					0		0					
Minor Street		Eastbound					Westboo	und						
Movement	7	8	9			10	11				11			12
	L	T	R			L	Т			R				
Volume (veh/h)						22	0			119				
Peak-Hour Factor, PHF	1.00	1.00	1.00)		0.92	0.92	0.92 0.5		0.92				
Hourly Flow Rate, HFR (veh/h)	О	o	0			23	0			129				
Percent Heavy Vehicles	0	0	0			2	2			2				
Percent Grade (%)		0					0							
Flared Approach		N					N							
Storage		0					0							
RT Channelized	<u> </u>	<u> </u>	0						_	0				
Lanes	0	0	0			0	1			0				
Configuration							LTR		_					
Delay, Queue Length, a	ind Level of Se	rvice	•			-				-				
Approach	Northbound	Southbound		Westb	ound		1	Eastb	ound					
Movement	1	4	7	8		9	10		11	12				
Lane Configuration	•	LT	<u> </u>	LTI		- 	1			14				
v (veh/h)		40		152			1	+		 -				
C (m) (veh/h)		864		367			+	+						
v/c		***	 	_			 	+		 				
		0.05		0.4				+		 				
95% queue length		0.15	 	1.9			 	-		 				
Control Delay (s/veh)		9.4		21.				_		ļ				
LOS		Α		С										
Approach Delay (s/veh)				21.	6									
Approach LOS	-			С										

	TW	O-WAY STOP	CONTRO	OL SUN	MARY			
General Information	า		Site Ir	iformat	ion			
Analyst	Rick Gaffe	ord	Interse	ction		S. Carawa	ay and G	Blenn Place
Agency/Co.	Fisher Arı		Jurisdie	ction		Jonesbon		
Date Performed	4/6/2017		Analys	is Year		2017		
Analysis Time Period	PM Peak							
	0323			•				
East/West Street: Gleni			North/S	outh Stre	eet: S. Car	away		
Intersection Orientation:	North-South		Study F	Period (hr	s): 0.25			
Vehicle Volumes ar	nd Adjustme	nts	"			•	•	
Major Street		Northbound				Southbou	ınd	
Movement	1	2	3		4	5		6
	L	T	R		Ļ	Ť		R
Volume (veh/h)		431	17		96	666		
Peak-Hour Factor, PHF	1.00	0.92	0.92		0.92	0.92		1.00
Hourly Flow Rate, HFR (veh/h)	0	468	18	l l	104	723		0
Percent Heavy Vehicles	0				2			
Median Type	1	<u> </u>		Undivid				
RT Channelized			0	T				0
Lanes	0	1	0		0	1		0
Configuration			TR		LT	1		
Upstream Signal		0				0	j	
Minor Street		Eastbound		T-		Westbou	nd	
Movement	7	8	9		10	11		12
	L	Τ	R		L	Т		R
Volume (veh/h)					13	0	0	
Peak-Hour Factor, PHF	1.00	1.00	1.00		0.92	0.92		0.92
Hourly Flow Rate, HFR (veh/h)	0	0	0		14	0		105
Percent Heavy Vehicles	0	0	0		2	2		2
Percent Grade (%)		0				0		
Flared Approach		N				N		
Storage		0]			0		_
RT Channelized			0					0
Lanes	0	0	0		0	1		0
Configuration						LTR		
Delay, Queue Length, a	ind Level of Se	rvice						
Approach	Northbound	Southbound	,	Westbou	nd		Eastbou	nd
Movement	1	4	7	8	9	10	11	12
Lane Configuration	"	LT		LTR		1		
v (veh/h)		104		119				
C (m) (veh/h)		1077		425		·		
v/c		0.10		0.28	Ī	1		
95% queue length		0.32		1.13			1	
Control Delay (s/veh)		8.7		16.7		1	<u> </u>	
LOS		A		C			\vdash	_
Approach Delay (s/veh)				16.7		+	<u> </u>	
Approach LOS			-	70.7 C		<u> </u>		_
Converight @ 2010 Links a sailte of Fi		<u> </u>			· · · · · · · · · · · · · · · · · · ·			

	TW	O-WAY STOP	CONTRO	OL SU	MMARY			·
General Information	1		Site Ir	nforma	ition	··· · · · · · · · · · · · · · · · · ·		
Analyst	Rick Gaffe	ord	Interse	ction	<u>"</u>	S. Carawa	ay and Gi	enn Place
Agency/Co.	Fisher Arr	nold	Jurisdie	ction		Jonesbon	o, AR	
Date Performed	4/6/2017		Analys	is Year		2020		
Analysis Time Period	AM Peak	(No Build)						_
Project Description D1								
East/West Street: Gleni					reet: S. Cara	way		
Intersection Orientation:	North-South		Study F	Period (I	nrs): 0.25			_
Vehicle Volumes ar	nd Adjustme	nts						
Major Street		Northbound	-			Southbou	ind	_
Movement	1	2	3		4	5		6
	L				L	Т		R
Volume (veh/h)								
Peak-Hour Factor, PHF	1.00	0.92	0.92		0.92	0.92		1.00
Hourly Flow Rate, HFR (veh/h)	0	760	16		40	334		0
Percent Heavy Vehicles	0				2			
Median Type		760 16 40 334 2 Undivided 0 0 1 1 0 0 1 . TR LT 0 Eastbound Westbound 8 9 10 11 T R L T						
RT Channelized		Northbound Southbound						0
Lanes	0	1	0		0	1		0
Configuration			TR		LT			
Upstream Signal		0				0		
Minor Street	<u> </u>	Eastbound		T		Westbou	nd	
Movement	7		9	i	10			12
	L	Т	R		L	L T		R
Volume (veh/h)					22	Ö		119
Peak-Hour Factor, PHF	1.00	1.00	1.00		0.92	0.92		
Hourly Flow Rate, HFR (veh/h)	0	0	0		23	0		129
Percent Heavy Vehicles	0	0	0		2	2		2
Percent Grade (%)								
Flared Approach			T			T N		
Storage		0						
RT Channelized			0					0
Lanes	0	0	0		0	1		0
Configuration						LTR		
Delay, Queue Length, a	ınd Level of Se	rvice						
Approach	Northbound	Southbound	,	Westbo	und		Eastbound	d
Movement	1	4	7	8	9	10	11	12
Lane Configuration		LT		LTR		1		
v (veh/h)		40		152				
C (m) (veh/h)		840		349				
v/c		0.05		0.44		1		
95% queue length		0.15	1	2.13	_	 		
Control Delay (s/veh)		9.5	 	23.0	_		 	+
LOS		A A		C			 	
Approach Delay (s/veh)				23.0	<u> </u>			1
Approach LOS				<u> </u>				
F-12-12-12-12-12-12-12-12-12-12-12-12-12-	L	<u> </u>	<u> </u>					

	TW	O-WAY STOP	CONTR	OL SL	JMN	I ARY				
General Information	n		Site Ir	nform	atic	n				
Analyst	Rick Gaffe	ord	Interse			-	S. Caraw	av an	d Gle	nn Place
Agency/Co.	Fisher Arr						Jonesbor	o, AR		111111111111111111111111111111111111111
Date Performed	4/6/2017		Analys	is Year	•		2020	,		
Analysis Time Period		(No Build)								
Project Description D1										
East/West Street: Glen							way			
Intersection Orientation:			Study F	Period ((hrs)	: 0.25				
Vehicle Volumes ar	nd Adjustme									
Major Street	_		<u> </u>				Southbou	und		
Movement	1 1					4	5			6
Maluera (vah/h)	<u> </u>						•			R
Volume (veh/h) Peak-Hour Factor, PHF	1.00									
Hourly Flow Rate, HFR		1 ""		-		0.92	0.92			1.00
(veh/h)	0	490	18			104	757			0
Percent Heavy Vehicles	0					2				
Median Type		North/South Street: S. Caraway Study Period (hrs): 0.25								
RT Channelized			0							0
Lanes	0	1	0			0	1			0
Configuration			TR			LT				
Upstream Signal		0					0			
Minor Street		Eastbound					Westbou	ınd		-
Movement	7	8	9			10	11			12
	L	T	R			L	Т		-	R
Volume (veh/h)						13	0			97
Peak-Hour Factor, PHF	1.00	1.00	1.00			0.92	0.92			0.92
Hourly Flow Rate, HFR (veh/h)	o	0	o			14	0			105
Percent Heavy Vehicles	0	0	0			2	2			2
Percent Grade (%)		0					0			
Flared Approach		N					N			_
Storage		0					0			
RT Channelized			0							0
Lanes	0	0	0			0	1			0
Configuration							LTR		_	
Delay, Queue Length, a	nd Level of Se	rvice								
Approach	Northbound	Southbound	,	Westbo	ound			Eastb	ound	
Movement	1	4	7	8	,	9	10	1	11	12
Lane Configuration		LT		LTF	₹		<u> </u>	1		
v (veh/h)	****	104		119)					
C (m) (veh/h)	-	1057		405	5			1		
v/c		0.10		0.29	9					
95% queue length	<u>-</u>	0.33		1.21			1	1		
Control Delay (s/veh)		8.8		17.5			 	t		
LOS		A		,,,,			 	 		
Approach Delay (s/veh)			-	17.5	5	<u> </u>	1			L
Approach LOS				- 17.5 C	<u>, </u>		1			
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	TW	O-WAY STOP	CONTRO	OL SU	JMN	IARY			
General Information	1		Site Ir	nform	atio	n			_
Analyst	Rick Gaffe	ord	Interse	ction		· ::=	S. Carawa	v and Gle	enn Place
Agency/Co.	Fisher Arı	nold	Jurisdi				Jonesbor		
Date Performed	4/6/2017		Analys	is Yea			2020	·	_
Analysis Time Period	AM Peak	(Build 1 Lane)							
Project Description D1									
East/West Street: Gleni		ary Entrance	North/S	South S	treet	: S. Cara	way		-
Intersection Orientation:	North-South		Study F	eriod	(hrs)	0.25			
Vehicle Volumes ar	nd Adjustme	nts							
Major Street		Northbound		Ì			Southbou	nd	
Movement	1	2	3			4	5		6
	L	Т	R			L	T		R
Volume (veh/h)	2	701	15			37	314		11
Peak-Hour Factor, PHF	0.92	0.92	0.92			0.92	0.92		0.92
Hourly Flow Rate, HFR (veh/h)	2	761	16			40	341		11
Percent Heavy Vehicles	0					2			
Median Type			<u> </u>	Undiv	⁄ided				
RT Channelized			0			•		0	
Lanes	0	1	0			0	1		0
Configuration	LTR		1			LTR			
Upstream Signal		0					0		
Minor Street		Eastbound					Westbou	nd	
Movement	7	8	9			10	11		
"	L	Т	R			L	Т		R
Volume (veh/h)	24	0	6			22			119
Peak-Hour Factor, PHF	0.92	0.92	0.92			0.92	0.92		
Hourly Flow Rate, HFR (veh/h)	26	0	6			23	0		129
Percent Heavy Vehicles	0	0	0			2	2	- -	2
Percent Grade (%)		0					0		
Flared Approach		T N	Τ.				N		
Storage		0	1				0		
RT Channelized			0		_		<u> </u>		0
Lanes	0	1	0			0	1		0
Configuration		LTR					LTR		
Delay, Queue Length, a	nd Level of Se	rvice	•					<u></u> -	
Approach	Northbound	Southbound		Westbo	ound		I	 Eastbound	
Movement	1	4	7	8		9	10	11	12
Lane Configuration	LTR	LTR		LTF				LTR	 '-
v (veh/h)	2	40		152	_		<u> </u>	32	+
C (m) (veh/h)	1218	839		321			 	115	
v/c	0.00	0.05		0.4				0.28	
95% queue length	0.00	0.15		2.4				1.05	+
Control Delay (s/veh)	8.0	9.5		25.			 	48.0	
LOS	A	A A		D D			 	E 40.0	
Approach Delay (s/veh)				25.		L	-	48.0	
Approach LOS							 		
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	TW	O-WAY STOP	CONTRO	L SUM	MARY		_	
General Information	1		Site In	formati	on			
Analyst	Rick Gaffe	ord	Intersed	ction		S. Carawa	ay and GI	enn Place
Agency/Co.	Fisher An	nold	Jurisdic	tion		Jonesboro		
Date Performed	4/6/2017		Analysi	s Year		2020		
Analysis Time Period		(Build 1 Lane)						
Project Description D1	0323	,			_			
East/West Street: Gleni	n Place/Second	ary Entrance				way		
Intersection Orientation:	North-South		Study P	eriod (hrs): 0.25			
Vehicle Volumes ar	nd Adjustme	nts					_	
Major Street		Northbound				Southbou	nd	
Movement	1	2			4	5		6
	L				L			R
Volume (veh/h) Peak-Hour Factor, PHF	6							
Hourly Flow Rate, HFR	0.92	0.92	0.92		0.92	0.92		0.92
(veh/h)	6	496	18		104	760	1	44
Percent Heavy Vehicles	0			_	2			
Median Type	 	O 2 Undivided O O 1 O 1 O O 1 LTR LTR O O O Eastbound Westbound T N <						
RT Channelized	<u> </u>	Study Period (hrs): 0.25 Its Northbound						0
Lanes	0	1			0	1		
Configuration			 			† '-		
Upstream Signal		0				0		
Minor Street			_1			<u> </u>	nd	
Movement	7		T 9	-	10		iiu	12
			_			+		
Volume (veh/h)	13			_	•		 -	
Peak-Hour Factor, PHF	0.92						-	
Hourly Flow Rate, HFR (veh/h)	14	0				1		105
Percent Heavy Vehicles	0	0	0		2	2		2
Percent Grade (%)		0				0	-	
Flared Approach		N				N	,	
Storage		0				0		
RT Channelized	· ·		0					0
Lanes	0	1		- -	0	1	$\neg \vdash$	
Configuration				$\neg +$			_ _	
Delay, Queue Length, a	nd Level of Se	rvice						**
Approach	Northbound		V	Vestboun	d	T f	astbound	1
Movement	1	4	7	8	9	10	11	12
Lane Configuration	LTR	LTR	 	LTR	1 ~	+ "	LTR	 '-
v (veh/h)	6	104	 	119	1	 	17	+
C (m) (veh/h)	829	1052		336	 	+	75	
v/c	0.01	0.10			+	+		+
95% queue length				0.35	 	-	0.23	
·	0.02	0.33		1.56	+	+	0.79	+
Control Delay (s/veh)	9.4	8.8	 	21.5	 	 	66.5	
LOS	A	Α		C		1	F	
Approach Delay (s/veh)				21.5			66.5	
Approach LOS	<u></u>			C			F	

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	TW	O-WAY STOP	CONTR	OL SUN	IMARY		_		
General Informatio	n		Site II	nformat	ion				
Analyst	Rick Gaffe	ord	Interse	ction	<u>.</u>	S. Carawa	ay and GI	enn Place	
Agency/Co.	Fisher Arı	nold	Jurisdi	ction		Jonesbor			
Date Performed	4/6/2017		Analys	is Year		2020			
Analysis Time Period		(Build 2 Lanes)							
	0323								
East/West Street: Glen		ary Entrance			et: S. Cara	way			
	North-South		Study F	Period (hr	s): 0.25				
Vehicle Volumes ar	nd Adjustme	nts						_	
Major Street		Northbound				Southbou	ind	_	
Movement	1	2	3		4	5		6	
	L	Т	R		L	1		R	
Volume (veh/h)	2	701	15		37				
Peak-Hour Factor, PHF	0.92	0.92	0.92		0.92	0.92		0.92	
Hourly Flow Rate, HFR (veh/h)	2	761	16	ŀ	40	341		11	
Percent Heavy Vehicles	0	 	 	 -	2	 _	- -		
Median Type	- 			Undivide					
RT Channelized			Τ ο	JJ.F/G		Southbound 5 6 T R 314 11 0.92 0.92 341 11 0 1 0 1 0 Westbound 11 12 T R 0 119 0.92 0.92 0 129 2 2 2 0 N 0 0 1 0 0 LTR			
Lanes	0	1	<u> </u>		0	1			
Configuration	LTR	<u> </u>		_	LTR	 			
Upstream Signal		0		-		0	0		
Minor Street	· · · · · · · · · · · · · · · · · · ·	Eastbound					nd		
Movement	+ 7	8	9	-	10		- III	12	
	i i	Ť	R		L		 -		
Volume (veh/h)	24	0	6	_	22			-	
Peak-Hour Factor, PHF	0.92	0.92	0.92		0.92				
Hourly Flow Rate, HFR	26	0	6		23	1			
(veh/h)			0			U		129	
Percent Heavy Vehicles	0	0	0		2			2	
Percent Grade (%)		0				0			
Flared Approach		N				N			
Storage		0				0			
RT Channelized			O					0	
Lanes	0	1	1		0	1		0	
Configuration	LT		R		-	LTR			
Delay, Queue Length, a	ind Level of Se	rvice							
Approach	Northbound	Southbound	,	Westbour	nd		astbound	<u> </u>	
Movement	1	4	7	8	9	10	11	12	
Lane Configuration	LTR	LTR		LTR	 	LT	- ` ` 	R	
v (veh/h)	2	40		152	+	26	-	6	
C (m) (veh/h)	1218	839	-	321		96			
v/c	0.00	0.05	 		+		-	702	
				0.47	-	0.27		0.01	
95% queue length	0.00	0.15	ļ	2.42		1.00	<u> </u>	0.03	
Control Delay (s/veh)	8.0	9.5		25.9		55.9		10.2	
LOS	<u> </u>	<u> </u>		D		F		В	
Approach Delay (s/veh)				25.9	<u> </u>		47.3		
Approach LOS				D			Ε		

	TW	O-WAY STOP	CONTRO	DL SUN	MARY	-	_			
General Information	1		Site In	format	ion					
Analyst	Rick Gaff	ord	Interse	ction		S. Carawa	ay and GI	enn Place		
Agency/Co.	Fisher An	nold	Jurisdic	tion	•	Jonesboro				
Date Performed	4/6/2017		Analysi	s Year		2020				
Analysis Time Period		(Build 2 Lanes)								
Project Description D1	0323	_								
East/West Street: Gleni	n Place/Second	ary Entrance			eet: S. Cara	away				
Intersection Orientation:	North-South		Study P	eriod (hr	s): 0.25	<u> </u>				
Vehicle Volumes ar	nd Adjustme	nts								
Major Street		Northbound				Southbou	nd			
Movement	1	2	3		4	5		6		
	L	T	R		L	T		R		
Volume (veh/h)	6	457	17		96	700		41		
Peak-Hour Factor, PHF	0.92	0.92	0.92		0.92	0.92		0.92		
Hourly Flow Rate, HFR (veh/h)	6	496	18		104	760		44		
Percent Heavy Vehicles	0				2					
Median Type		•		Undivide	ed	-				
RT Channelized			0				0			
Lanes	0	1	Ó		0	1		0		
Configuration	LTR				LTR	<u>'</u>				
Upstream Signal		0				0	0			
Minor Street		Eastbound		-		Westbou	nd			
Movement	7	8	9		10		11 1			
	L	Т	R		L 1			R		
Volume (veh/h)	13	0	3		13		0			
Peak-Hour Factor, PHF	0.92	0.92	0.92		0.92		0.92			
Hourly Flow Rate, HFR (veh/h)	14	0	3		14	0		105		
Percent Heavy Vehicles	0	0	0		2	2		2		
Percent Grade (%)		0				0				
Flared Approach		N				N				
Storage		0				0	_			
RT Channelized			0					0		
Lanes	0	1	1		0	1		0		
Configuration	LT		R			LTR				
Delay, Queue Length, a	nd Level of Se	rvice	-	-						
Approach	Northbound	Southbound	\	Vestbour	nd		astbound	1		
Movement	1	4	7	8	9	10	11	12		
Lane Configuration	LTR	LTR	·	LTR	 	LT		R		
v (veh/h)	6	104		119		14		3		
C (m) (veh/h)	829	1052		336		64	 	397		
v/c	0.01	0.10		0.35		0.22		0.01		
95% queue length	0.02	0.33		1.56		0.75	 	0.02		
Control Delay (s/veh)	9.4	8.8		21.5			 			
LOS	9.4 A					76.4	├──-	14.1		
		Α		C		F	I	В		
Approach Delay (s/veh)				21.5		 	65.4 			
Approach LOS				C		1	F			

	TW	O-WAY STOP	CONTRO	DL SI	JMM	IARY	•		
General Information	n		Site In	ıform	atio	n		_	
Analyst	Rick Gaff	ord	Interse	ction				ay and Mai	n
Agency/Co.	Fisher Arı		─				Entrance	- 45	
Date Performed	4/6/2017		Jurisdio				Jonesbon	o, AR	
Analysis Time Period	AM Peak	(Build 1 Lane)	Analysi	srea	r		2020		
Project Description D1	0323					·			
East/West Street: Main			North/S	outh S	Street	: S. Cara	way		
Intersection Orientation:	North-South	-	Study F						
Vehicle Volumes ar	nd Adjustme	nts							
Major Street		Northbound					Southbou	ind	
Movement	1	2	3			4	5		6
	L	T	R			L	T		R
Volume (veh/h)	1	843					356		16
Peak-Hour Factor, PHF	0.92	0.92	0.92			0.92	0.92		0.92
Hourly Flow Rate, HFR (veh/h)	1	916	0			0	386		17
Percent Heavy Vehicles	0		1 -			2			
Median Type				Undiv	vided		<u> </u>		<u></u>
RT Channelized			0						0
Lanes	0	1	0			0	1		0
Configuration	LT								TR
Upstream Signal		0					0		
Minor Street		Eastbound					Westbou	nd	
Movement	7	8	9			10	11		12
	Ĺ		R			L	Т		R
Volume (veh/h)	83	0	6						
Peak-Hour Factor, PHF	0.92	0.92	0.92			0.92	0.92		0.92
Hourly Flow Rate, HFR (veh/h)	90	o	6			0	0		0
Percent Heavy Vehicles	0	0	0			2	2		2
Percent Grade (%)		0	•				0		
Flared Approach		N	T				N		
Storage		0	1				0		
RT Channelized			0						0
Lanes	0	1	0			0	0		0
Configuration		LTR							
Delay, Queue Length, a	nd Level of Se	rvice	***						
Approach	Northbound	Southbound	1	/Vestb	ound			 Eastbound	
Movement	1	4	7	8		9	10	11	12
Lane Configuration	LT		_		\neg			LTR	
v (veh/h)	1							96	
C (m) (veh/h)	1167							185	
v/c	0.00						+	0.52	
95% queue length	0.00						 	2.62	╂┈─┤
Control Delay (s/veh)	8.1							43.7	
LOS	A. 7						 		
Approach Delay (s/veh)								E	<u> </u>
							-	43.7	
Approach LOS							<u> </u>	E	

	TW	O-WAY STOP	CONTRO	L SU	MMARY			
General Information	1		Site In	forma	tion			-
Analyst	Rick Gaff		Intersec	ction		S. Carawa Entrance	ay and Mai	in
Agency/Co.	Fisher Arı	nold	Jurisdic	tion		Jonesbor	1 AR	_
Date Performed	4/6/2017		Analysis			2020	J, AN	-
Analysis Time Period	PM Peak	(Build 1 Lane)		0 1 001		1020		
Project Description D1	0323							
East/West Street. Main			North/Sc	outh St	eet: S. Cara	way		
Intersection Orientation:	North-South		Study P				_	
Vehicle Volumes ar	nd Adjustme	nts	· · · · ·					
Major Street	1	Northbound				Southbou	nd	
Movement	1	2	3		4	5		6
	L	T	R		L	Т		R
Volume (veh/h)	6	561				834		64
Peak-Hour Factor, PHF	0.92	0.92	0.92		0.92	0.92		0.92
Hourly Flow Rate, HFR (veh/h)	6	609	0		0	906		69
Percent Heavy Vehicles	0				2			
Median Type				Undivid	ded			_
RT Channelized			0					0
Lanes	0	1	0		0	1		0
Configuration	LT							TR
Upstream Signal		0				0		
Minor Street		Eastbound				Westbou	Westbound	
Movement	7	8	9		10	11		12
	L	Т	R		L	T		R
Volume (veh/h)	44	0	3					
Peak-Hour Factor, PHF	0.92	0.92	0.92		0.92	0.92		0.92
Hourly Flow Rate, HFR (veh/h)	47	О	3		0	0		0
Percent Heavy Vehicles	0	0	0		2	2		2
Percent Grade (%)		0				0		
Flared Approach		N				N		
Storage		0				0		
RT Channelized			0					0
Lanes	0	1	0		0	0		0
Configuration		LTR						-
Delay, Queue Length, a	nd Level of Se	rvice						
Approach	Northbound	Southbound	V	Vestbo	und	T	astbound	
Movement	1	4	7	8	9	10	11	12
Lane Configuration	LT					 	LTR	
v (veh/h)	6		 			 	50	
C (m) (veh/h)	716		 			+	129	\vdash
V/C	0.01		 			+		┼
			 			+	0.39	
95% queue length	0.03		<u> </u>			 	1.63	
Control Delay (s/veh)	10.1		ļļ			 	49.6	<u> </u>
LOS	В		<u> </u>				E	
Approach Delay (s/veh)							49.6	
Approach LOS			<u></u>				Ε	

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		TW	O-WAY STOP	CONTRO	OL SU	MN	IARY				
General Information	1			Site Ir	ıforma	atio	n				
Analyst		Rick Gaffo		Interse	ction			S. Carawa Entrance	y and	Mai	7
Agency/Co.		Fisher Arr	old	Jurisdie	ction			Jonesboro	. AR		
Date Performed		4/6/2017	(D. 11.0.1		is Year			2020	,		
Analysis Time Period		AM Peak	(Build 2 Lane)								
Project Description D1	0323						·				
East/West Street: Main				North/S	outh St	treet	: S. Cara	vay			
Intersection Orientation:	Nort	h-South		Study F	Period (I	hrs):	0.25				
Vehicle Volumes an	nd Ad	ljustme	nts								
Major Street			Northbound					Southbou	nd		
Movement		1	2	3			4	5			6
		L	Т	R			L.	Т			R
Volume (veh/h)	_	1	843					356			16
Peak-Hour Factor, PHF		0.92	0.92	0.92			0.92	0.92			.92
Hourly Flow Rate, HFR (veh/h)		1	916	o			0	386			17
Percent Heavy Vehicles		0					2				
Median Type	<u> </u>				Undivi	ided	I				
RT Channelized				0							0
Lanes		0	1	0			0	1			0
Configuration		LT							Ī		TR
Upstream Signal			0					0			
Minor Street			Eastbound				"	Westbou	nd		
Movement	_	7	8	9			10	11			12
		L	Т	R			L	. T	}		R
Volume (veh/h)		83	0	6							_
Peak-Hour Factor, PHF		0.92	0.92	0.92			0.92	0.92		(.92
Hourly Flow Rate, HFR (veh/h)		90	0	6			0	0	İ		0
Percent Heavy Vehicles		0	0	0			2	2			2
Percent Grade (%)			0					0			
Flared Approach		<u>. </u>	N					N			
Storage			0					0			
RT Channelized		•		0							0
Lanes		0	1	1			0	0			0
Configuration		LT		R							
Delay, Queue Length, a	nd Le	vel of Se	rvice							_	
Approach	Norti	hbound	Southbound	1	Westbo	und		E	astbo	ound	•
Movement		1	4	7	8		9	10	1	1	12
Lane Configuration		LT						LT			R
v (veh/h)		1						90			6
C (m) (veh/h)	1	167						177			659
v/c		.00						0.51			0.01
95% queue length		.00						2.52			0.03
Control Delay (s/veh)		8.1			 			44.7	\vdash		10.5
LOS		A								_	
					<u> </u>			E	L		В
Approach Delay (s/veh)						_			42.		-
Approach LOS				L				l	E		

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		O-WAY STOP				. 1					
General Information	1		Site I	nforn	nation						
Analyst	Rick Gaffe	ord	Interse	ction			S. Carawa	y and Ma	in		
Agency/Co.	Fisher Arı		Jurisdi	ction			Entrance Jonesbord	ND.			
Date Performed	4/6/2017		Analys		r		2020	, AR			
Analysis Time Period	PM Peak	(Build 2 Lane)		10 100	·!		2020				
Project Description D1	0323	.									
East/West Street: Main			North/S	South S	Street: S.	. Cara	iway		_		
ntersection Orientation:			Study I	Period	(hrs): 0.2	25					
Vehicle Volumes ar	nd Adjustme	nts	"								
Major Street		Northbound					Southbou	nd			
Movement	1	2	3		4		5		6		
(a lease a de cala fla)	L	T	R		L		T		R		
Volume (veh/h) Peak-Hour Factor, PHF	6 0.92	561 0.92	0.92		0.00		834		64		
Hourly Flow Rate, HFR			1		0.92		0.92	 -	0.92		
(veh/h)	6	609	0		0		906		69		
Percent Heavy Vehicles	0				2						
Median Type				Undi	vided						
RT Channelized			0						0		
anes	0	1	0		0		1	1			
Configuration	LT								TR		
Upstream Signal		0	<u> </u>				0				
Minor Street		Eastbound					Westbou				
Movement	7	8	9		10		11		12		
	L	Т	R		L		Т		R		
Volume (veh/h)	44	0	3		0.00		2.22				
Peak-Hour Factor, PHF Hourly Flow Rate, HFR	0.92	0.92	0.92		0.92		0.92	0.92 0.9			
(veh/h)	47	0	3		0		0		0		
Percent Heavy Vehicles	0	0	0		2		2		2		
Percent Grade (%)		0					0				
Flared Approach		N					N		_		
Storage		0	 		<u> </u>		0				
RT Channelized			0		ļ				0		
Lanes	<u> </u>	1	1		0		0		0		
Configuration	LT		R				<u> </u>		-		
Delay, Queue Length, a			ı	144			1				
Approach	Northbound	Southbound		Westb				astbound			
Movement	1	4	7	8	3	9	10	11	12		
Lane Configuration	LT			<u> </u>			LT		R		
v (veh/h)	6			<u> </u>			47		3		
C (m) (veh/h)	716			<u> </u>			124		322		
v/c	0.01						0.38		0.01		
95% queue length	0.03						1.57		0.03		
Control Delay (s/veh)	10.1						50.8		16.3		
LOS	В						F		С		
Approach Delay (s/veh)					-			48.7	•		
Approach LOS			1					E			