

**SIGNAL WARRANT STUDY FOR FAIRVIEW ROAD/JEFFERSON COLONY ROAD/PARK DRIVEWAY
ADDENDUM TO CADENCE AT MINT HILL TRAFFIC IMPACT ANALYSIS
Mint Hill, North Carolina
December 21, 2017**

Introduction

The Cadence at Mint Hill Traffic Impact Analysis (TIA) was completed on October 27, 2017 and submitted to the Town of Mint Hill. The conceptual site plan for the development is shown in Attachment 1. The analysis was reviewed by Naylor Transportation Engineering with this comment that needed to be addressed:

Based on the No Build versus Build scenario, the intersection of Fairview Road and Jefferson Colony Road/Park Driveway has approaches that degrade in LOS and increase in delay by more than 25% during the AM and PM peak hours. Mitigation for the degradation in LOS should be addressed.

To address the degradation in the LOS at Fairview Road and Jefferson Colony Road/Park Driveway, I recommend that the Developer's Traffic Engineering Consultant consider the following:

- *Analyze the intersection as a signalized intersection. The site traffic that was projected to make westbound U-turns at the intersection will need to be rerouted to southbound Jefferson Colony Road and will now make a left turn onto Fairview Road.*
- *Due to growth of the park and the fact that most of the proposed lots are within one-mile of the park, it is recommended that the sidewalk along the frontage of the property on Fairview Rd. be connected to the existing sidewalk. Also, at this intersection of Fairview Road and Jefferson Colony Road/Park Driveway, a pedestrian crossing should also be included.*

The revised analysis can be submitted in a technical memo rather than revising the entire study.

Discussions with the North Carolina Department of Transportation (NCDOT) subsequent to the TIA review indicated that a full signal warrant study would be needed for the NCDOT to be able to review the potential for signalization at the intersection of Fairview/Jefferson Colony/Park Driveway. That study and analysis of the intersection with signalization are the subjects of this addendum to the original TIA.

Existing and No Build Traffic Volumes

Turning movement counts were conducted at the Fairview/Jefferson Colony/Park Driveway intersection in May 2017 for the original study and in November 2017 to obtain the volumes needed to conduct a signal warrant study at the intersection. The counts are included in Attachment 2. The hourly major street volumes are shown in Table 1, and the hourly side street volumes are shown in Table 2. The annual traffic growth rate used in the original TIA is three percent. The existing volumes shown in Tables 1 and 2 were increased by three percent per year for six years to obtain the 2023 no build major street and side street volumes also shown in Tables 1 and 2.

Table 1
MAJOR STREET VOLUMES – FAIRVIEW ROAD/JEFFERSON COLONY ROAD/PARK DRIVEWAY
Addendum to Cadence at Mint Hill Traffic Impact Analysis
Mint Hill, North Carolina

Hour	Fairview Road Approach Volumes – Major Street			
	2017 Existing	2023 No Build	Site	2023 Build
6:00-7:00 a.m.	660	788	27	815
7:00-8:00 a.m.	996	1189	48	1237
8:00-9:00 a.m.	814	972	45	1017
9:00-10:00 a.m.	688	822	40	862
10:00-11:00 a.m.	667	796	44	840
11:00 – 12:00 noon	651	777	49	826
12:00-1:00 p.m.	810	967	52	1019
1:00-2:00 p.m.	769	918	58	976
2:00-3:00 p.m.	836	998	64	1062
3:00-4:00 p.m.	1013	1210	69	1279
4:00-5:00 p.m.	1095	1308	97	1405
5:00-6:00 p.m.	1456	1739	95	1834
6:00-7:00 p.m.	1028	1228	78	1306

Table 2
SIDE STREET VOLUMES – FAIRVIEW ROAD/JEFFERSON COLONY ROAD/PARK DRIVEWAY
Addendum to Cadence at Mint Hill Traffic Impact Analysis
Mint Hill, North Carolina

Hour	Jefferson Colony Road Approach Volumes – Side Street							
	2017 Existing		2023 No Build		Site		2023 Build	
	Left	Right	Left	Right	Left	Right	Left	Right
6:00-7:00 a.m.	7	10	8	12	16	32	24	44
7:00-8:00 a.m.	5	22	6	26	28	37	34	63
8:00-9:00 a.m.	11	7	13	8	26	52	39	60
9:00-10:00 a.m.	3	13	4	16	12	24	16	40
10:00-11:00 a.m.	5	8	6	10	13	27	19	37
11:00 – 12:00 noon	6	6	7	7	14	29	21	36
12:00-1:00 p.m.	7	3	8	4	15	31	23	35
1:00-2:00 p.m.	2	4	2	5	17	34	19	39
2:00-3:00 p.m.	13	6	16	7	18	37	34	44
3:00-4:00 p.m.	5	13	6	16	20	41	26	57
4:00-5:00 p.m.	4	6	5	7	18	38	23	45
5:00-6:00 p.m.	3	7	4	8	18	37	22	45
6:00-7:00 p.m.	6	11	7	13	15	30	22	43

Revised Site Trips Assuming Signalization and Revised Build Volumes

A development of 251 single family detached houses can be expected to generate 2425 trips per weekday. This trip generation is based on the formula of $LnT=0.92LnX+2.71$ from the Tenth Edition of Trip Generation. The Tenth Edition of Trip Generation also includes an hourly variation of trips for single family residential, and the percent of daily trips generated in each hour is shown in Table 3. The assumed split between entering and exiting trips is also shown in Table 3. The morning and afternoon splits are taken from Trip Generation, and the splits for the remaining hours are expected to be 50 percent/50percent. These splits were applied to the trip generation for each hour, and the entering and exiting volumes for 251 single family homes are shown in Table 3.

Table 3
CADENCE AT MINT HILL HOURLY SITE TRIPS
Addendum to Cadence at Mint Hill Traffic Impact Analysis
Mint Hill, North Carolina

Hour	Percent of Daily	Trips	Percent Entering	Percent Existing	Trips Entering	Trips Exiting
6:00-7:00 a.m.	3.8	92	25	75	23	69
7:00-8:00 a.m.	6.7	162	25	75	40	122
8:00-9:00 a.m.	6.2	150	25	75	38	112
9:00-10:00 a.m.	4.3	104	50	50	52	52
10:00-11:00 a.m.	4.8	116	50	50	58	58
11:00 – 12:00 noon	5.2	126	50	50	63	63
12:00-1:00 p.m.	5.5	133	50	50	67	66
1:00-2:00 p.m.	6.0	146	50	50	73	73
2:00-3:00 p.m.	6.6	160	50	50	80	80
3:00-4:00 p.m.	7.2	175	50	50	87	88
4:00-5:00 p.m.	9.0	218	63	37	137	81
5:00-6:00 p.m.	8.8	213	63	37	134	79
6:00-7:00 p.m.	7.2	175	63	37	110	65

If the intersection of Fairview/Jefferson Colony/Park Driveway is signalized, it will be more attractive as an access to Fairview Road for Cadence at Mint Hill exiting site trips. To reflect this greater attraction, peak hour site trips were assigned to the Fairview/Jefferson Colony/Park Driveway intersection assuming 85 percent of the site exits bound for eastbound Fairview and 65 percent of the trips bound for westbound Fairview would find a signal at Jefferson Colony attractive. Given the layout of Cadence at Mint Hill, using Bartlett to gain access to Fairview will still be more attractive for the remaining exiting trips. As assumed in the original study, it was assumed that 67 percent of the trips entering from the west and 10 percent of the trips entering from the east will use Jefferson Colony. The revised assignment of site trips to the movements at Fairview/Jefferson Colony/Park Driveway is shown in Table 4.

Table 4
CADENCE AT MINT HILL REVISED SITE TRIP ASSIGNMENT
Addendum to Cadence at Mint Hill Traffic Impact Analysis
Mint Hill, North Carolina

Hour	Eastbound			Westbound			Southbound		
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
6:00-7:00 a.m.	8	4	-	8	6	1	16	-	32
7:00-8:00 a.m.	15	7	-	15	10	1	28	-	57
8:00-9:00 a.m.	14	7	-	14	9	1	26	-	52
9:00-10:00 a.m.	19	9	-	6	4	2	12	-	24
10:00-11:00 a.m.	21	11	-	7	5	0	13	-	27
11:00 – 12:00 noon	23	11	-	8	5	2	14	-	29
12:00-1:00 p.m.	25	12	-	8	5	2	15	-	31
1:00-2:00 p.m.	27	13	-	9	6	3	17	-	34
2:00-3:00 p.m.	29	15	-	10	7	3	18	-	37
3:00-4:00 p.m.	32	16	-	11	7	3	20	-	41
4:00-5:00 p.m.	50	25	-	10	7	5	18	-	38
5:00-6:00 p.m.	49	24	-	10	7	5	18	-	37
6:00-7:00 p.m.	41	20	-	8	5	4	15	-	30

The hourly revised hourly site trips were added to the 2023 no build hourly traffic volumes to obtain the hourly 2023 build peak hour traffic volumes shown in Tables 1 and 2. In conducting a signal warrant study, a judgment has to be made regarding the percentage of right turns to be considered in the side street traffic. For an approach which would operate at LOS E or F without signalization it is reasonable to use all of the right turns. As shown in the original study, Jefferson Colony will operate at LOS F during the morning and afternoon peak hours without signalization. Synchro was also run for the highest off peak hour which is 6:00-7:00 p.m. The printout for that analysis is included in Attachment 3 and indicates that the Jefferson Colony approach would operate at LOS E. Therefore, all right turns were used during all of the off-peak hours also.

Signal Warrant Volume Comparisons

The Manual on Uniform Traffic Control Devices, 2009 (MUTCD) describes the traffic volume and operational conditions which warrant consideration of traffic control signals. The first warrant is volume-based, and the minimum volumes to meet the warrant are presented in tabular form for Case A and Case B. For each case there is an option to reduce the volumes to 70 percent where the speed on the major street exceeds 40 miles per hour or the signal is located in a community with a population of 10,000 or less. Because the population of Mint Hill is greater than 10,000 and the speed limit on Fairview is 35 miles per hour, the 70 percent factor does not apply at this intersection.

For both cases of Warrant 1, a minimum of eight hours of exceeding minimum volumes is required to meet the Warrant. Warrants 2 and 3 also have minimum volume bases. For Warrant 2, four hours are needed, and for Warrant 3, one hour is needed. Excerpts from the Manual on Uniform Traffic Control Devices, 2009 (MUTCD) are included in Attachment 4.

The revised 2023 build volumes were compared to signal warrant volumes as shown in Table 5 and indicate that:

- The revised 2023 build volumes exceed the volumes for:
 - Warrant 1A and Warrant 3 for no hours
 - Warrant 1B for four hours with three other hours within 10 vehicles on the side street
 - Warrant 2 for one hour with one hour within 10 vehicles on the side street

Table 5
SIGNAL WARRANT VOLUME COMPARISONS – REVISED 2023 BUILD PEAK HOUR VOLUMES
Addendum to Cadence at Mint Hill Traffic Impact Analysis
Mint Hill, North Carolina

Hour	Traffic Volumes		Warrant			
	Major St	Side St	1A	1B	2	3
			100%	100%	100%	100%
6:00-7:00 a.m.	815	68	-	-	-	-
7:00-8:00 a.m.	1237	97	-	X	X	-
8:00-9:00 a.m.	1017	99	-	X	-	-
9:00-10:00 a.m.	862	56	-	-	-	-
10:00-11:00 a.m.	840	56	-	-	-	-
11:00 – 12:00 noon	826	57	-	-	-	-
12:00-1:00 p.m.	1019	58	-	-	-	-
1:00-2:00 p.m.	976	58	-	-	-	-
2:00-3:00 p.m.	1062	78	-	X	-	-
3:00-4:00 p.m.	1279	83	-	X	-11	-
4:00-5:00 p.m.	1405	68	-	-7	-	-
5:00-6:00 p.m.	1834	67	-	-8	-	-
6:00-7:00 p.m.	1306	65	-	-10	-	-
Hours Met			0	4 (+3)	1(+1)	0
Hours Required			8	8	4	1

While the revised 2023 build volumes do not meet all eight hours for Warrant 1B or all four hours for Warrant 2, there are other traffic operations issues at this location that can be addressed with signalization of Fairview/Jefferson Colony/Park Driveway:

- With Bartlett right out only at Fairview, the vehicles destined for eastbound Fairview are served by the westbound U-turn at Jefferson Colony/Park Driveway. One guideline for the need for a left turn phase at a signalized intersection is a cross product of 100,000 (when the left turn is opposed by two through lanes). During the afternoon peak hour, this cross product is currently 75,078. With 2023 no build volumes, the cross product will be 107,429, and the cross product will be 134,946 with 2023 build volumes under existing conditions (no signal). Without signalization of Fairview/Jefferson Colony/Park Driveway, there will not be a way to provide protected operation for this movement.
- The location of the park across Fairview Road from Jefferson Colony residences and Cadence at Mint Hill makes the intersection of Fairview/Jefferson Colony/Park Driveway a location at which a pedestrian crossing should be considered, and a signalized crossing would give greater protection given the width of Fairview. To guide pedestrians from Cadence at Mint Hill to this protected pedestrian crossing, the extension of sidewalks is needed as described in the introduction.
- The park has peak usages which are not reflected in this study.

Even if an intersection meets volume or other warrants, there are other issues that should be addressed before signalization is pursued:

- *Distance between signals* – Usually, a separation of about 1000 feet is desirable between signalized intersections so that the queue from one signal does not back up through the adjacent signal. The distance between Jefferson Colony/Park Driveway and the closest signal is more than 1250 feet.
- *Approach sight distance* - Approach sight distance of 325 feet is needed for a speed of 35 miles per hour and is available on Fairview at Jefferson Colony/Park Driveway
- *Left turn lanes* - It is desirable to have left turn lanes on the major street approaches to a signalized intersection, and left turn lanes are available on Fairview at Jefferson Colony/Park Driveway.

Capacity Analyses

The volumes discussed to this point in this addendum have been hourly volumes for the purpose of the signal warrant volume comparisons. Now this addendum will go back to the peak hour volumes from the original study. The revised peak hour site trips are shown in Attachment 5, and the revised 2023 build peak hour traffic volumes are shown in Attachment 6. The intersection of Fairview Road/Jefferson Colony Road/Park Driveway was analyzed as a signalized intersection with revised 2023 build peak hour traffic volumes using the same assumptions and methodologies described in the original report. As shown in Table 7, the intersection can operate acceptably. The capacity analysis printouts are included in Attachment 3.

Table 7
CAPACITY ANALYSIS RESULTS – SIGNALIZED INTERSECTION – EXISTING GEOMETRY
FAIRVIEW ROAD/JEFFERSON COLONY ROAD/PARK DRIVEWAY
REVISED 2023 BUILD PEAK HOUR TRAFFIC VOLUMES
Addendum to Cadence at Mint Hill Traffic Impact Analysis
Mint Hill, North Carolina

Movement	Level of Service/Delay (seconds/vehicle)	
	Morning Peak Hour	Afternoon Peak Hour
Eastbound - Left	B/14	A/8
Through/right	A/10	B/11
Westbound - Left	A/6	A/7
Through	A/8	A/4
Assumed right	A/4	A/3
Northbound – Left/through/right	B/19	C/23
Southbound – Left/through/right	C/21	C/23
Overall	A/10	A/9

Notes:

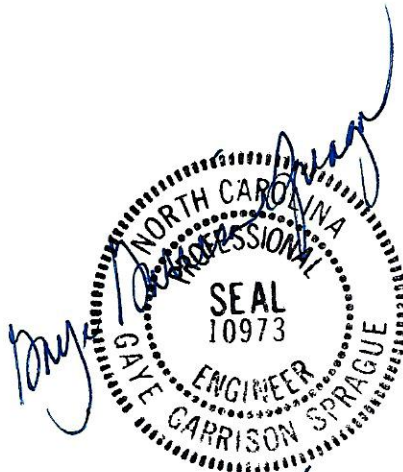
- Jefferson Colony/Park Driveway is north-south. Fairview is east-west.

Turn Lane Storage

SimTraffic was run with Fairview/Jefferson Colony/Park Driveway as a signalized intersection with revised 2023 build peak hour traffic volumes using the same assumptions and methodologies described in the original report. The printout is included in Attachment 3. The 95th percentile queues in the turn lanes at the intersection are expected to be: Eastbound left – 95th percentile queue = 74 feet, storage = 305 feet, OK; Westbound left – 95th percentile queue = 108 feet, storage = 145 feet, OK

Conclusions and Recommendations

- The revised 2023 build volumes exceed the volumes for:
 - Warrant 1A and Warrant 3 for no hours
 - Warrant 1B for four hours with three other hours within 10 vehicles on the side street
 - Warrant 2 for one hour with one hour within 10 vehicles on the side street
- A signal at Fairview/Jefferson Colony/Park Driveway would also provide protected operation for the westbound U-turn, a protected pedestrian crossing for the residents who need to cross Fairview to gain access to the park (a sidewalk extension will be required as part of Cadence at Mint Hill), and signalized operation for peak volumes at the park.
- The intersection of Fairview/Jefferson Colony/Park Driveway allows sufficient signal approach sight distance, provides left turn lanes on the major street, and is over 1250 feet away from the closest signalized intersection.
- With revised 2023 build peak hour traffic volumes, Fairview/Jefferson Colony/Park Driveway can operate acceptably as a signalized intersection, and the existing turn lanes can accommodate the estimated 95th percentile queues.



12/21/17

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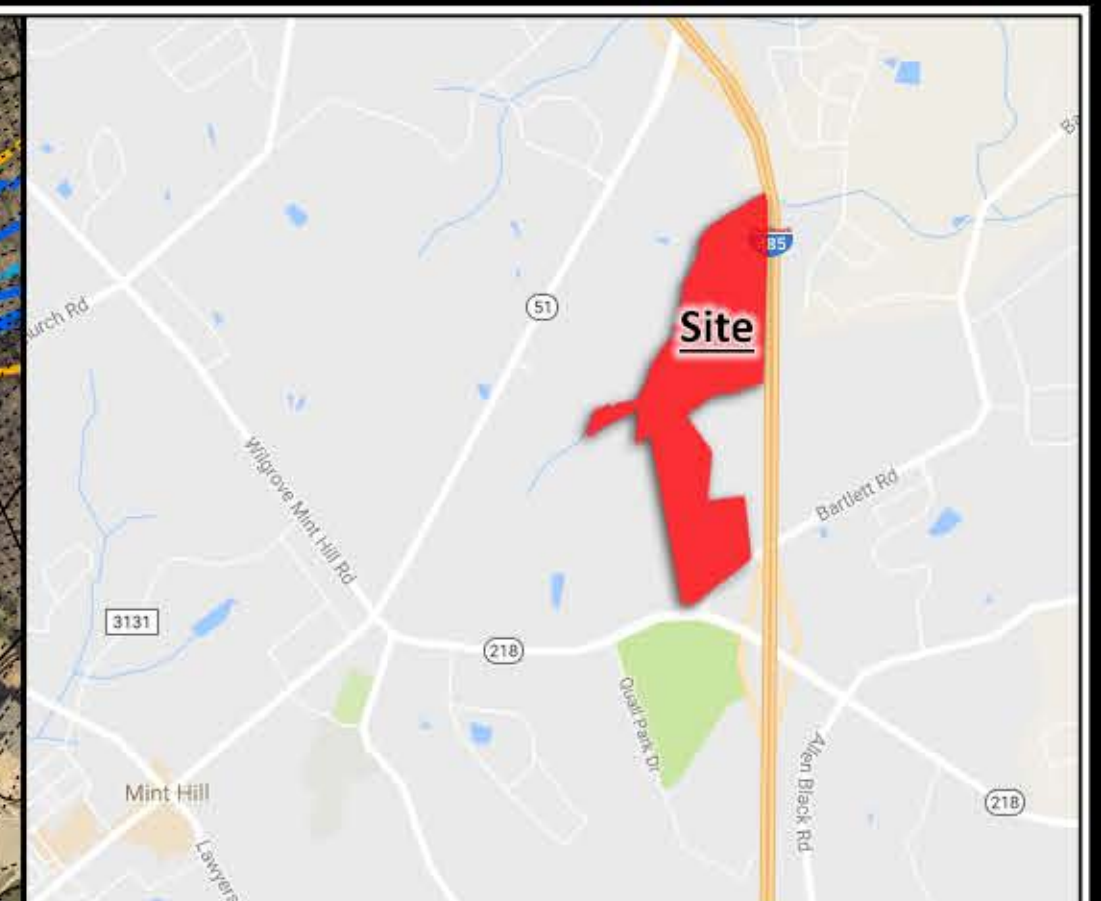
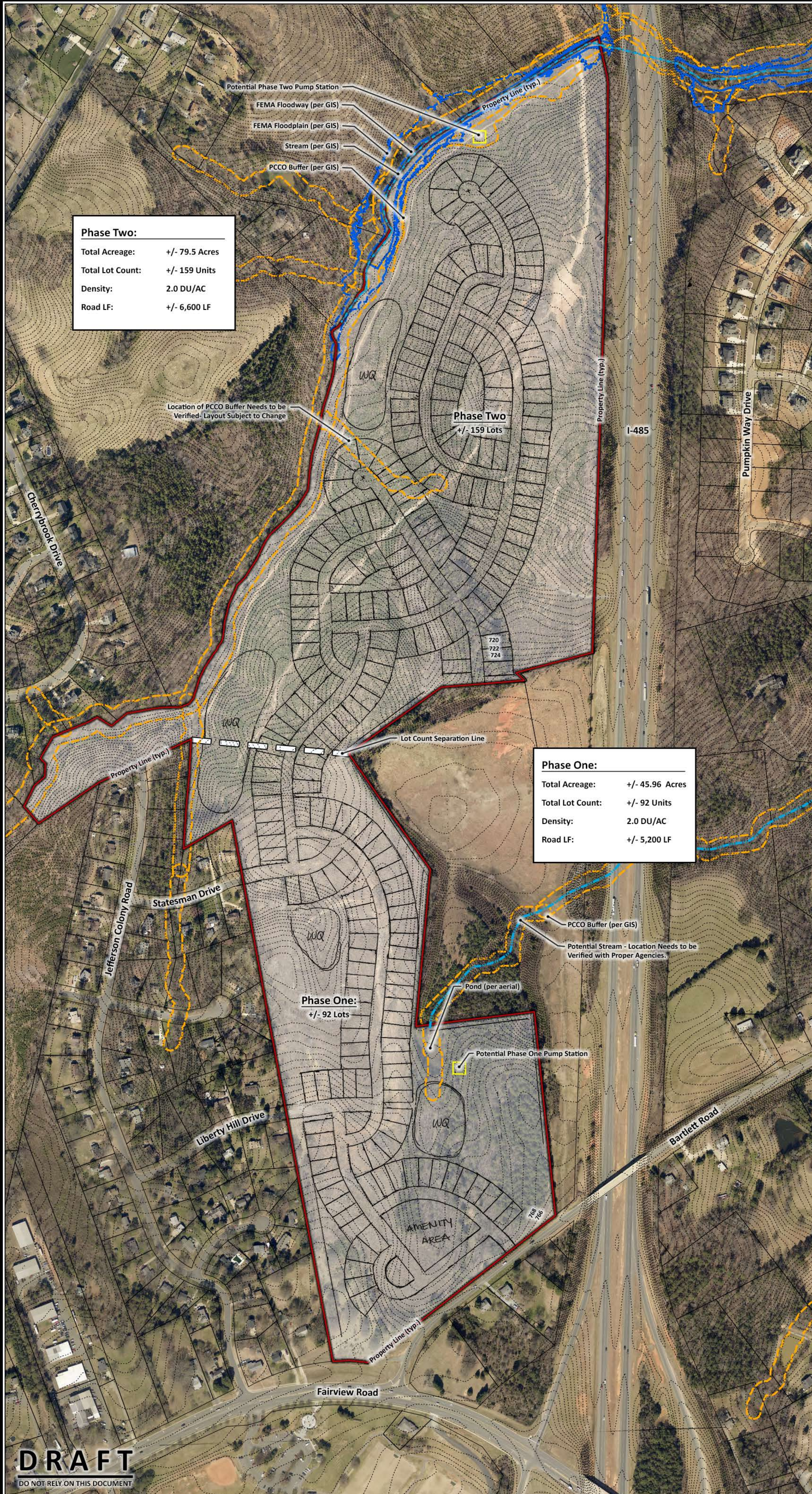
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Greenville, South Carolina 29604

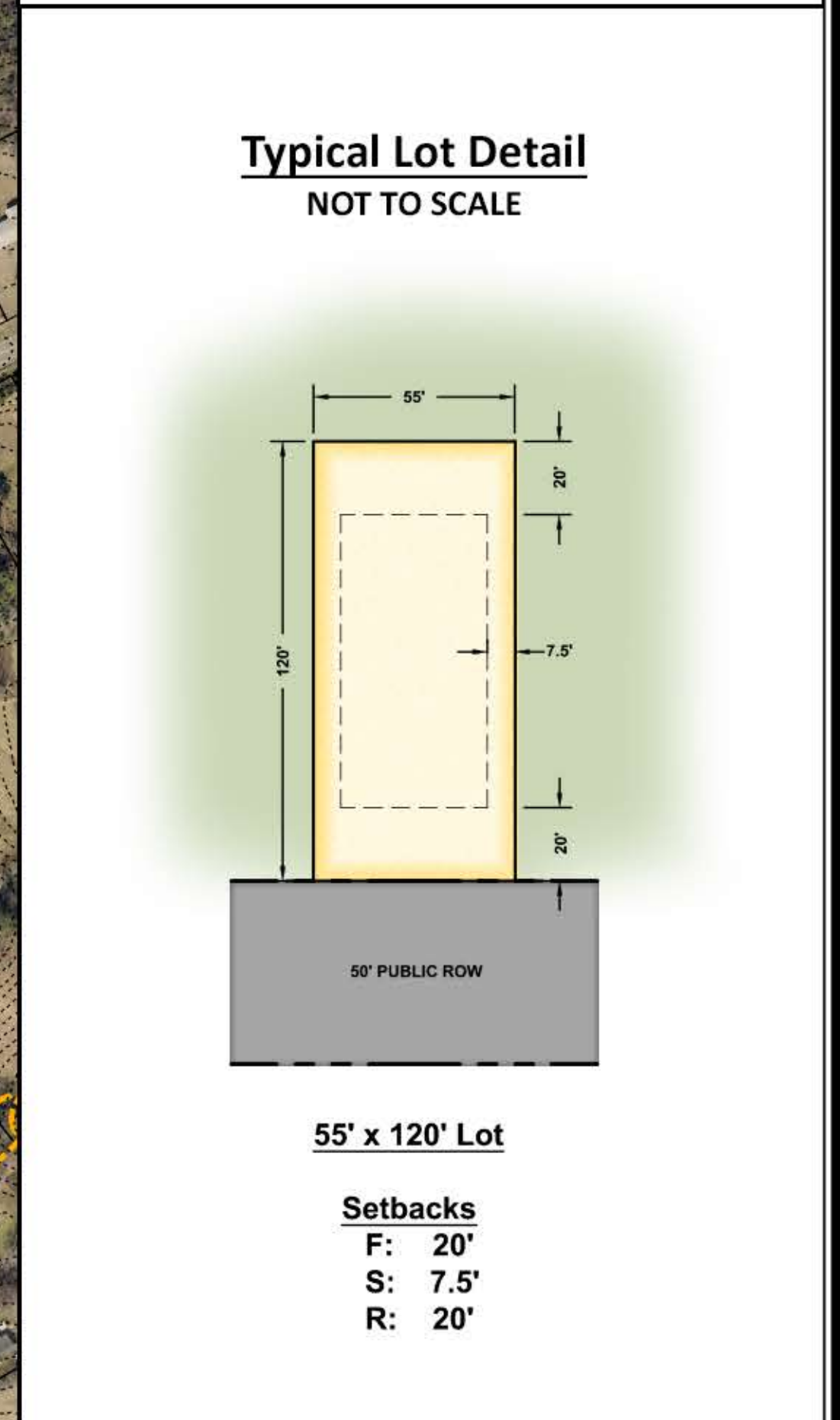
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Attachment 1

CADENCE AT MINT HILL CONCEPTUAL SITE PLAN



Vicinity Map Not To Scale	
Site Data:	
Tax Parcels:	13936199, 13906101, 13901402, and 13901401
Total Acreage:	+/- 125.46 Acres
Location:	Mint Hill, North Carolina
Zoning:	R TBD
Total 55'x120' Lots:	+/- 251 Lots
Phase Two:	+/- 159 Lots
Phase One:	+/- 92 Lots
Density:	2.0 DU/AC*
*Note: Density is based off of the separate acreages of the Northern and Southern Portions of the site.	
Open Space:	+/- 31.4 Acres (25%)*
Required:	+/- 31.4 Acres (25%) Minimum
*Note: Open Space Calculation includes- stream buffers, water quality areas, common open space, and up to 50% of the overall Floodplain and perimeter buffer acreage (per the Town of Mint Hill UDO). Land located within the floodway cannot be counted towards required open space.	
General Notes 1. Base information provided by Mecklenburg County GIS Data - information should be verified for accuracy. 2. All site plan, zoning, and wetland information utilized in the preparation of this plan is considered to be preliminary in nature and subject to change and final verification. 3. Draft - Do not rely on this document.	
Floodplain Information Floodplain information obtained from FEMA FIRM Panel 3710551200K effective date of study 02/19/2014.	
Stream/Wetland Information Stream/Wetland information is based on preliminary information provided to ESP by Mecklenburg County GIS data. For purposes of preparation of this Preliminary Concept Plan, any potential wetland areas and stream features depicted on the plan are considered to be preliminary in nature and approximate in location. The Preliminary Concept Plan will need to be revised once all agencies approved on-site wetland/stream and appropriate jurisdictional boundaries are surveyed and verified with acceptable levels of accuracy- unit loss may occur.	
Access Points/Driveways/Streets 1. Proposed project site entrance locations are considered preliminary in nature and need to be verified for adequate sight distance. 2. All roadway and street systems are considered to be preliminary and will need to be verified for sufficiency to satisfy or exceed minimum requirements established in the Town of Mint Hill UDO and applicable standards identified by NCDOT. Street connections are conceptual and may be subject to change based on agency input and review.	
Open Space Open Space areas are conceptual and preliminary. The exact location of these areas may change as the client finalizes decisions regarding final layout, product allocation, and as other spatially dependent project components such as stormwater areas, wetland areas, utility features, and buffers, (as applicable) for this project are better defined.	
Potential Stormwater Quality Areas Location of proposed stormwater areas are conceptual and preliminary and still need to be determined. The exact size and location of these areas will change as the client finalizes decisions regarding final layout, product allocation, and as other proposed changes to the project are better defined. Layout and unit count subject to change based on final design of stormwater areas.	
Public Information ESP Associates is not responsible for plan deficiencies created by incorrect, incomplete, missing or outdated information derived from public sources such as GIS, Planning and Zoning departments.	



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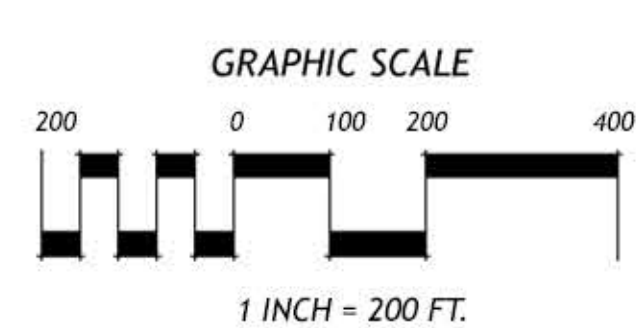
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Weston Tract

Preliminary Concept Plan DRAFT

ESP Job #FM44.100 February 10, 2017



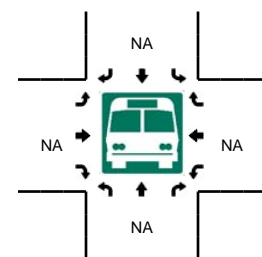
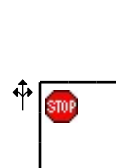
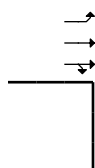
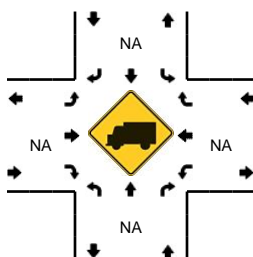
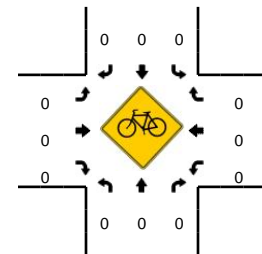
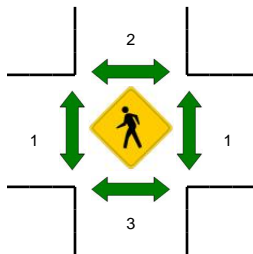
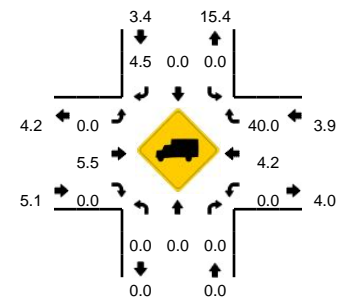
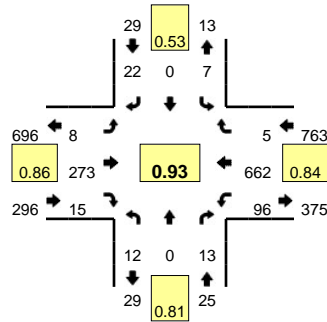
2127 Ayrles Town Blvd., Suite 201
Charlotte, NC 28273

Attachment 2
EXISTING COUNTS

LOCATION: Jefferson Colony Rd -- NC 218/Fairview Rd
CITY/STATE: Mint Hill, NC

QC JOB #: 14407903
DATE: Thu, May 11 2017

Peak-Hour: 7:10 AM -- 8:10 AM
Peak 15-Min: 7:55 AM -- 8:10 AM



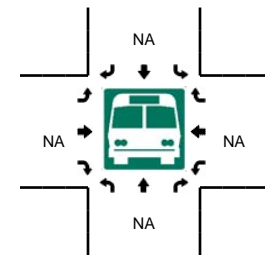
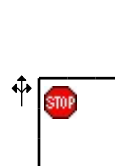
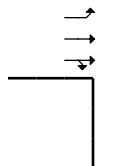
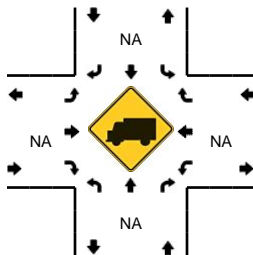
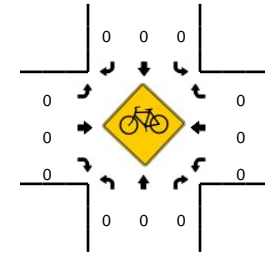
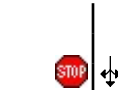
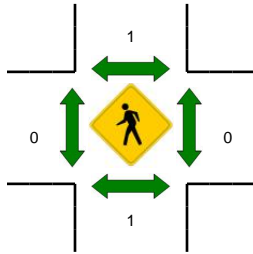
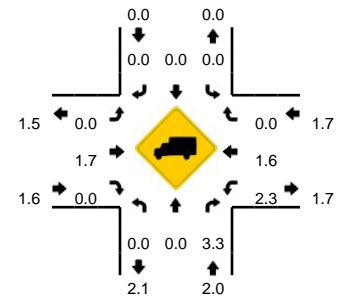
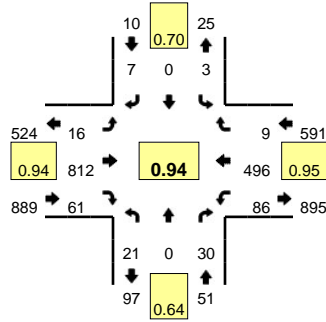
5-Min Count Period Beginning At	Jefferson Colony Rd (Northbound)				Jefferson Colony Rd (Southbound)				NC 218/Fairview Rd (Eastbound)				NC 218/Fairview Rd (Westbound)				Total	Hourly Totals
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U		
7:00 AM	0	0	1	0	0	0	1	0	0	22	1	0	2	46	0	6	79	
7:05 AM	2	0	0	0	0	0	1	0	1	26	1	0	1	45	0	5	82	
7:10 AM	0	0	1	0	0	0	1	0	0	30	1	0	2	42	0	14	91	
7:15 AM	0	0	0	0	1	0	0	0	1	20	3	0	0	58	0	7	90	
7:20 AM	0	0	0	0	0	0	1	0	0	21	0	0	0	52	0	6	80	
7:25 AM	1	0	1	0	1	0	1	0	0	15	1	0	2	52	0	14	88	
7:30 AM	1	0	0	0	0	0	0	0	1	20	4	0	4	62	1	9	102	
7:35 AM	1	0	1	0	0	0	5	0	0	19	0	0	2	71	2	7	108	
7:40 AM	0	0	1	0	3	0	6	0	0	13	1	0	1	52	1	7	85	
7:45 AM	1	0	0	0	0	0	1	0	0	32	1	0	0	47	0	6	88	
7:50 AM	2	0	2	0	0	0	1	0	0	20	0	0	2	52	0	3	82	
7:55 AM	1	0	1	0	0	0	5	0	0	29	1	0	1	67	1	5	111	1086
8:00 AM	4	0	3	0	1	0	0	0	1	30	1	0	0	58	0	1	99	1106
8:05 AM	1	0	3	0	1	0	1	0	5	24	2	0	0	49	0	3	89	1113
8:10 AM	1	0	0	0	1	0	1	0	1	24	2	0	0	38	0	2	70	1092
8:15 AM	1	0	1	0	0	0	1	0	0	27	3	0	2	36	0	3	74	1076
8:20 AM	1	0	1	0	1	1	1	0	0	31	4	0	2	43	0	5	90	1086
8:25 AM	4	0	0	0	0	0	1	0	2	20	2	0	1	35	1	4	70	1068
8:30 AM	1	0	3	0	0	0	0	0	1	20	3	0	0	44	1	3	76	1042
8:35 AM	1	0	2	0	1	0	0	0	0	18	2	0	0	27	0	2	53	987
8:40 AM	2	0	1	0	2	0	0	0	0	12	1	0	3	47	0	0	68	970
8:45 AM	0	0	2	0	2	0	4	0	0	20	0	0	1	36	0	4	69	951
8:50 AM	0	0	2	0	1	0	1	0	0	21	1	0	1	45	0	5	77	946
8:55 AM	4	0	1	0	1	0	0	0	0	21	3	0	0	39	0	4	73	908
Peak 15-Min Flowrates	Northbound				Southbound				Eastbound				Westbound				Total	
All Vehicles	24	0	28	0	8	0	24	0	24	332	16	0	4	696	4	36	1196	
Heavy Trucks	0	0	0	0	0	0	0	0	0	16	0	0	0	24	4		44	
Pedestrians	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	
Bicycles	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	
Railroad																		
Stopped Buses																		

Comments:

LOCATION: Jefferson Colony Rd -- NC 218/Fairview Rd
CITY/STATE: Mint Hill, NC

QC JOB #: 14407904
DATE: Thu, May 11 2017

Peak-Hour: 5:00 PM -- 6:00 PM
Peak 15-Min: 5:45 PM -- 6:00 PM



5-Min Count Period Beginning At	Jefferson Colony Rd (Northbound)				Jefferson Colony Rd (Southbound)				NC 218/Fairview Rd (Eastbound)				NC 218/Fairview Rd (Westbound)				Total	Hourly Totals
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U		
4:00 PM	0	0	1	0	0	0	0	0	2	48	2	0	0	28	0	0	81	
4:05 PM	2	0	5	0	1	0	0	0	3	43	3	0	2	33	1	1	94	
4:10 PM	2	0	2	0	1	0	0	0	1	42	1	0	1	32	1	4	87	
4:15 PM	1	0	1	0	0	0	2	0	3	41	0	0	3	26	0	0	77	
4:20 PM	2	0	1	0	0	0	1	0	0	50	1	0	1	24	1	4	85	
4:25 PM	2	0	4	0	0	0	0	0	0	45	2	0	3	40	0	2	98	
4:30 PM	0	0	2	0	0	0	0	0	0	42	0	0	3	40	2	1	90	
4:35 PM	1	0	0	0	0	0	1	0	1	61	1	0	5	31	0	1	102	
4:40 PM	1	1	2	0	1	1	0	0	2	39	1	0	0	43	0	2	93	
4:45 PM	0	0	1	0	1	0	1	0	0	52	1	0	2	43	0	5	106	
4:50 PM	0	0	3	0	0	0	1	0	1	62	2	0	4	53	1	4	131	
4:55 PM	0	0	1	0	0	0	0	0	2	67	1	0	1	47	0	4	123	1167
5:00 PM	2	0	1	0	0	0	1	0	1	58	5	0	1	39	0	5	113	1199
5:05 PM	1	0	0	0	1	0	0	0	2	62	2	0	1	48	0	3	120	1225
5:10 PM	1	0	1	0	0	0	0	0	0	75	2	0	0	39	0	3	121	1259
5:15 PM	1	0	1	0	0	0	1	0	2	78	3	0	3	37	2	2	130	1312
5:20 PM	2	0	5	0	0	0	1	0	2	65	9	0	5	41	1	5	136	1363
5:25 PM	0	0	2	0	2	0	0	0	0	69	7	0	5	37	2	4	128	1393
5:30 PM	3	0	5	0	0	0	2	0	2	78	1	0	4	43	1	3	142	1445
5:35 PM	1	0	0	0	0	0	1	0	1	58	3	0	3	47	0	5	119	1462
5:40 PM	3	0	4	0	0	0	0	0	0	69	4	0	2	34	1	4	121	1490
5:45 PM	1	0	7	0	0	0	0	0	1	76	6	0	4	52	1	6	154	1538
5:50 PM	3	0	2	0	0	0	1	0	2	54	7	0	4	30	0	4	107	1514
5:55 PM	3	0	2	0	0	0	0	0	3	70	12	0	4	49	1	6	150	1541
Peak 15-Min Flowrates	Northbound				Southbound				Eastbound				Westbound				Total	
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U		
All Vehicles	28	0	44	0	0	0	4	0	24	800	100	0	48	524	8	64	1644	
Heavy Trucks	0	0	0	0	0	0	0	0	0	20	0	0	0	4	0	0	24	
Pedestrians	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	4	
Bicycles	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Railroad																		
Stopped Buses																		

Comments:

Quality Counts, LLC

920 Blairhill Rd, STE B106
Charlotte, NC 28217

File Name : 14580501 - Jefferson Colony Rd & Fairview Rd

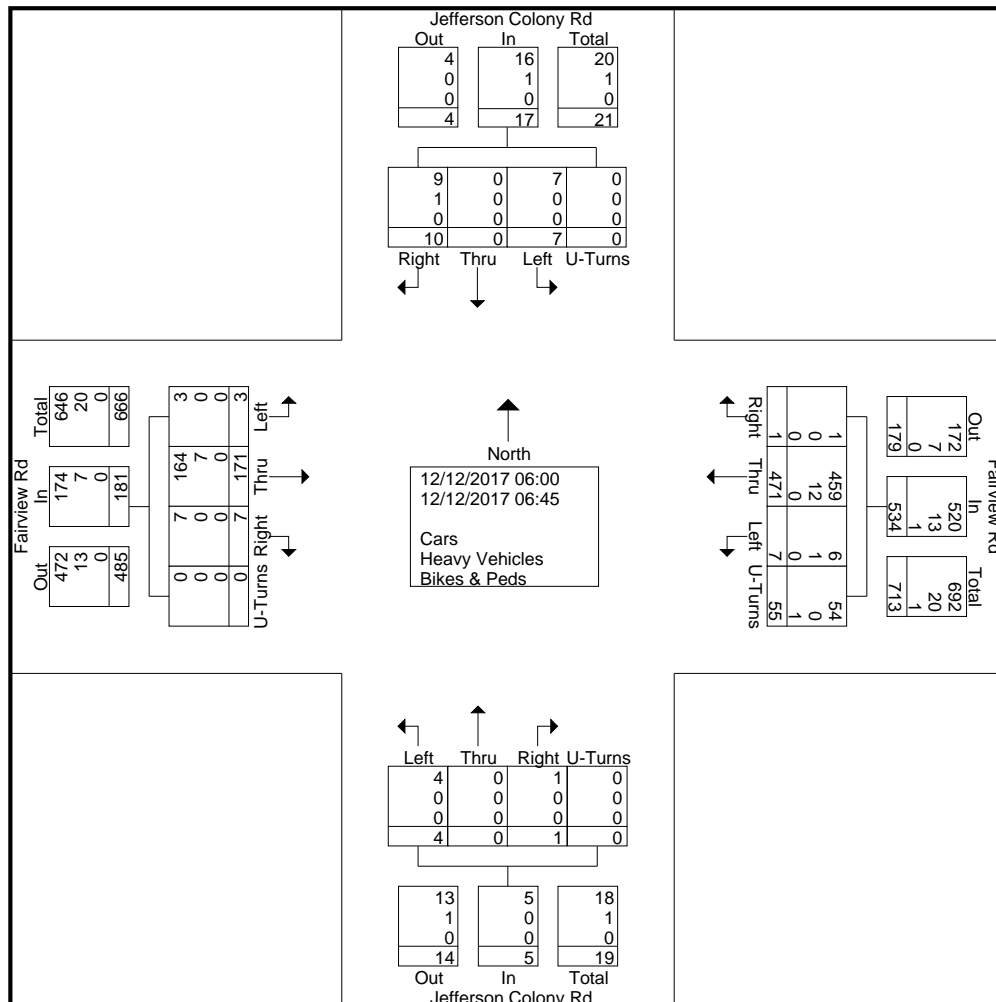
Site Code : 14580501

Start Date : 12/12/2017

Page No : 1

Groups Printed- Cars - Heavy Vehicles - Bikes & Peds

	Jefferson Colony Rd Southbound					Fairview Rd Westbound					Jefferson Colony Rd Northbound					Fairview Rd Eastbound					
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
06:00	1	0	3	0	4	0	90	1	12	103	1	0	0	0	1	1	22	0	0	23	131
06:15	5	0	1	0	6	0	93	2	12	107	0	0	1	0	1	1	40	0	0	41	155
06:30	0	0	1	0	1	0	140	3	16	159	0	0	2	0	2	2	51	1	0	54	216
06:45	4	0	2	0	6	1	148	1	15	165	0	0	1	0	1	3	58	2	0	63	235
Total	10	0	7	0	17	1	471	7	55	534	1	0	4	0	5	7	171	3	0	181	737
Grand Total	10	0	7	0	17	1	471	7	55	534	1	0	4	0	5	7	171	3	0	181	737
Apprch %	58.8	0	41.2	0		0.2	88.2	1.3	10.3		20	0	80	0		3.9	94.5	1.7	0		
Total %	1.4	0	0.9	0	2.3	0.1	63.9	0.9	7.5	72.5	0.1	0	0.5	0	0.7	0.9	23.2	0.4	0	24.6	
Cars	9	0	7	0	16	1	459	6	54	520	1	0	4	0	5	7	164	3	0	174	715
% Cars	90	0	100	0	94.1	100	97.5	85.7	98.2	97.4	100	0	100	0	100	100	95.9	100	0	96.1	97
Heavy Vehicles	1	0	0	0	1	0	12	1	0	13	0	0	0	0	0	0	7	0	0	7	21
% Heavy Vehicles	10	0	0	0	5.9	0	2.5	14.3	0	2.4	0	0	0	0	0	0	4.1	0	0	3.9	2.8
Bikes & Peds	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	1
% Bikes & Peds	0	0	0	0	0	0	0	0	1.8	0.2	0	0	0	0	0	0	0	0	0	0	0.1



Quality Counts, LLC

920 Blairhill Rd, STE B106
Charlotte, NC 28217

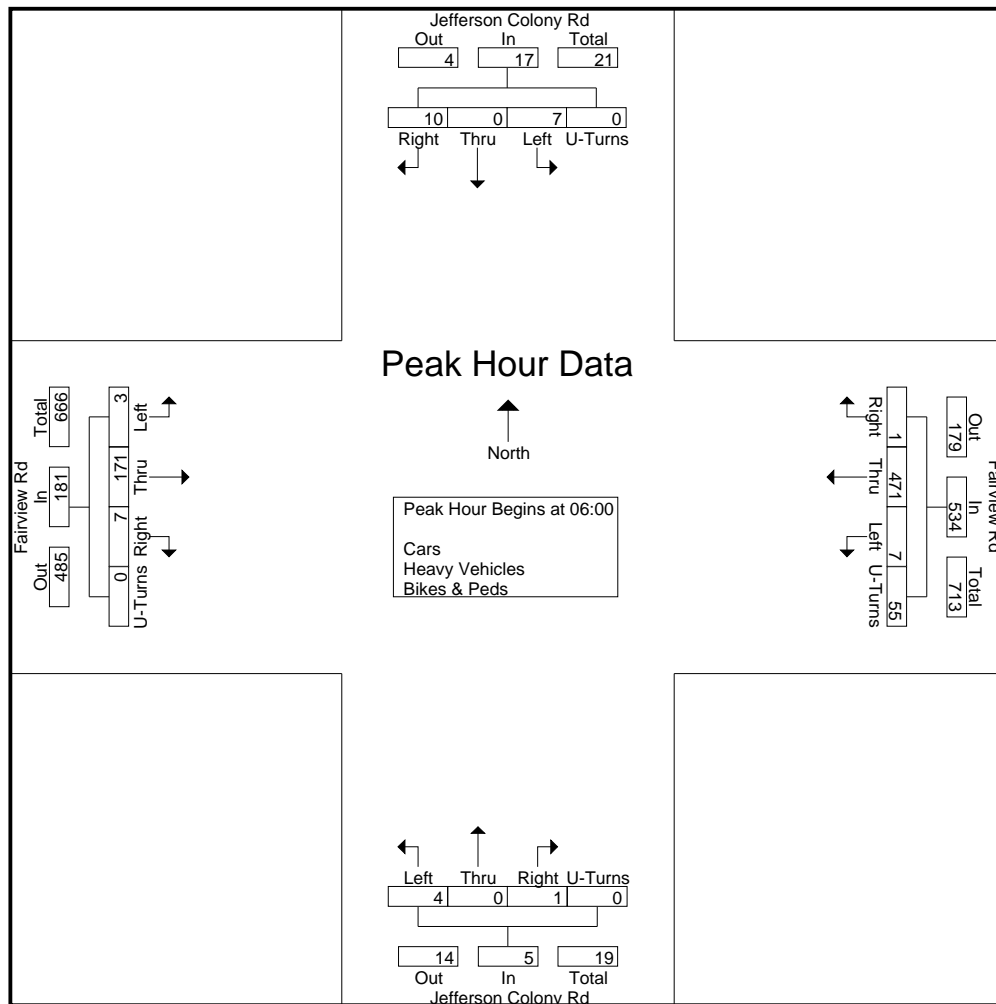
File Name : 14580501 - Jefferson Colony Rd & Fairview Rd

Site Code : 14580501

Start Date : 12/12/2017

Page No : 2

	Jefferson Colony Rd Southbound					Fairview Rd Westbound					Jefferson Colony Rd Northbound					Fairview Rd Eastbound					
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 Analysis From 6:00:00 AM to 6:45:00 AM - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 6:00:00 AM																					
6:00:00 AM	1	0	3	0	4	0	90	1	12	103	1	0	0	0	1	1	22	0	0	23	131
6:15:00 AM	5	0	1	0	6	0	93	2	12	107	0	0	1	0	1	1	40	0	0	41	155
6:30:00 AM	0	0	1	0	1	0	140	3	16	159	0	0	2	0	2	2	51	1	0	54	216
6:45:00 AM	4	0	2	0	6	1	148	1	15	165	0	0	1	0	1	3	58	2	0	63	235
Total Volume	10	0	7	0	17	1	471	7	55	534	1	0	4	0	5	7	171	3	0	181	737
% App. Total	58.8	0	41.2	0		0.2	88.2	1.3	10.3		20	0	80	0		3.9	94.5	1.7	0		
PHF	.500	.000	.583	.000	.708	.250	.796	.583	.859	.809	.250	.000	.500	.000	.625	.583	.737	.375	.000	.718	.784



Quality Counts, LLC

920 Blairhill Rd, STE B106
Charlotte, NC 28217

File Name : 14580501 - Jefferson Colony Rd & Fairview Rd

Site Code : 14580501

Start Date : 12/12/2017

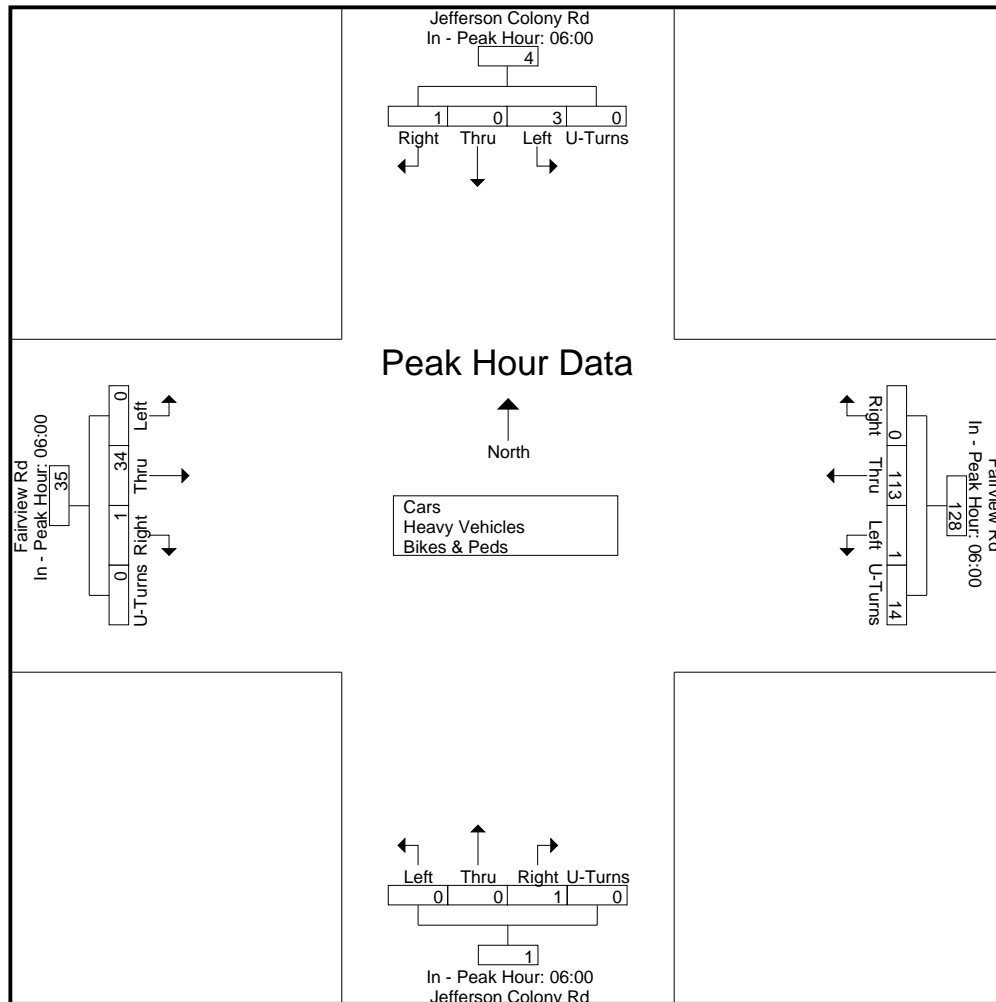
Page No : 3

	Jefferson Colony Rd Southbound					Fairview Rd Westbound					Jefferson Colony Rd Northbound					Fairview Rd Eastbound					
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 Analysis From 6:00:00 AM to 6:45:00 AM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

	6:00:00 AM					6:00:00 AM					6:00:00 AM					6:00:00 AM				
+0 mins.	1	0	3	0	4	0	90	1	12	103	1	0	0	0	1	1	22	0	0	23
+5 mins.	5	0	1	0	6	0	93	2	12	107	0	0	1	0	1	1	40	0	0	41
+10 mins.	0	0	1	0	1	0	140	3	16	159	0	0	2	0	2	2	51	1	0	54
+15 mins.	4	0	2	0	6	1	148	1	15	165	0	0	1	0	1	3	58	2	0	63
Total Volume	10	0	7	0	17	1	471	7	55	534	1	0	4	0	5	7	171	3	0	181
% App. Total	58.8	0	41.2	0		0.2	88.2	1.3	10.3		20	0	80	0		3.9	94.5	1.7	0	
PHF	.500	.000	.583	.000	.708	.250	.796	.583	.859	.809	.250	.000	.500	.000	.625	.583	.737	.375	.000	.718



Quality Counts, LLC

920 Blairhill Rd, STE B106
Charlotte, NC 28217

File Name : 14580501 - Jefferson Colony Rd & Fairview Rd

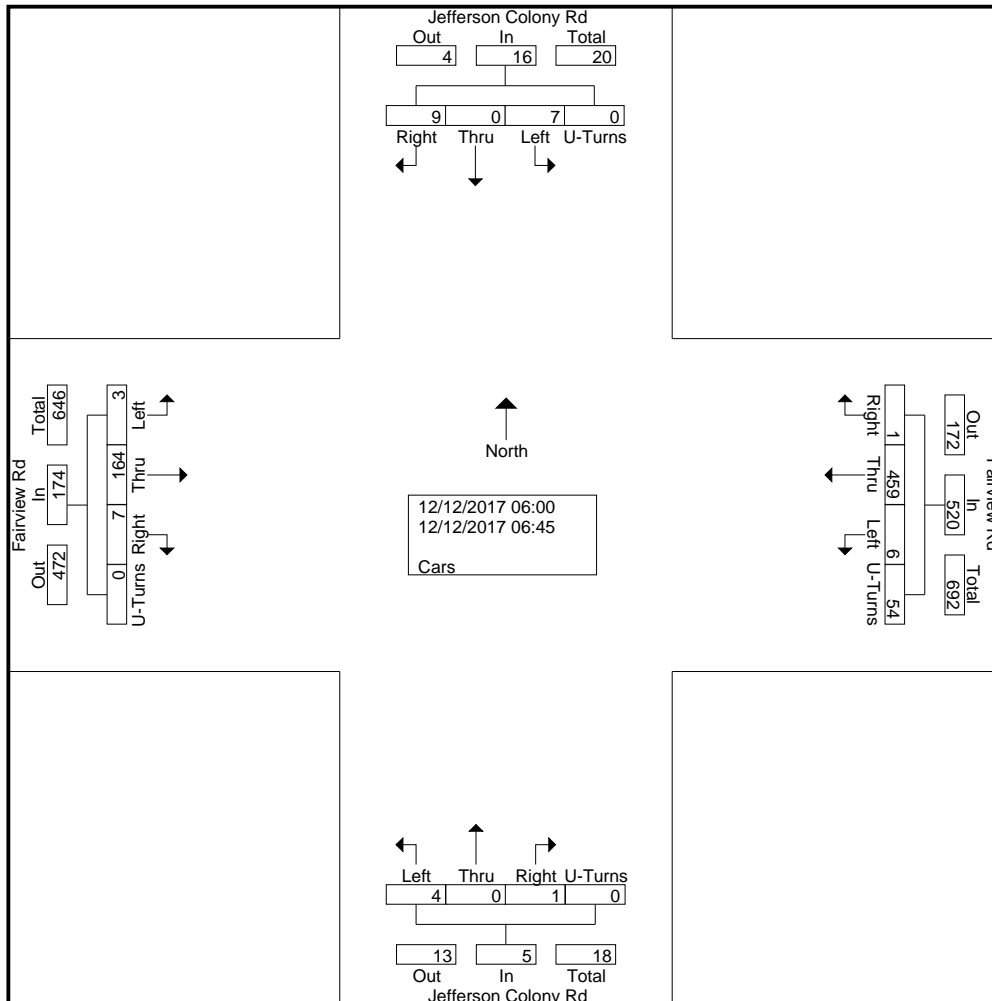
Site Code : 14580501

Start Date : 12/12/2017

Page No : 1

Groups Printed- Cars

	Jefferson Colony Rd Southbound					Fairview Rd Westbound					Jefferson Colony Rd Northbound					Fairview Rd Eastbound					
Start Time	Right	Thru	Left	U-Turns	App. Total	Right	Thru	Left	U-Turns	App. Total	Right	Thru	Left	U-Turns	App. Total	Right	Thru	Left	U-Turns	App. Total	Int. Total
06:00	1	0	3	0	4	0	88	1	12	101	1	0	0	0	1	1	20	0	0	21	127
06:15	5	0	1	0	6	0	87	1	12	100	0	0	1	0	1	1	40	0	0	41	148
06:30	0	0	1	0	1	0	137	3	16	156	0	0	2	0	2	2	49	1	0	52	211
06:45	3	0	2	0	5	1	147	1	14	163	0	0	1	0	1	3	55	2	0	60	229
Total	9	0	7	0	16	1	459	6	54	520	1	0	4	0	5	7	164	3	0	174	715
Grand Total	9	0	7	0	16	1	459	6	54	520	1	0	4	0	5	7	164	3	0	174	715
Apprch %	56.2	0	43.8	0		0.2	88.3	1.2	10.4		20	0	80	0		4	94.3	1.7	0		
Total %	1.3	0	1	0	2.2	0.1	64.2	0.8	7.6	72.7	0.1	0	0.6	0	0.7	1	22.9	0.4	0	24.3	



Quality Counts, LLC

920 Blairhill Rd, STE B106
Charlotte, NC 28217

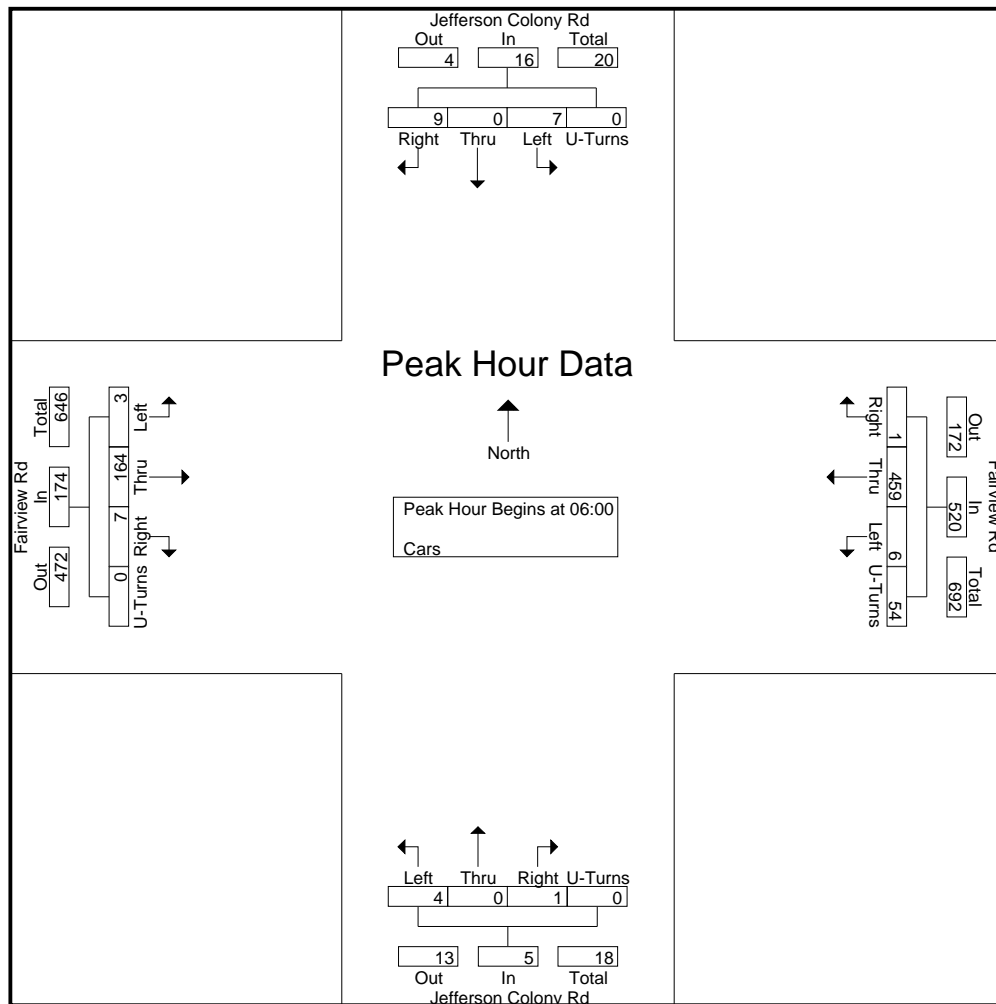
File Name : 14580501 - Jefferson Colony Rd & Fairview Rd

Site Code : 14580501

Start Date : 12/12/2017

Page No : 2

	Jefferson Colony Rd Southbound					Fairview Rd Westbound					Jefferson Colony Rd Northbound					Fairview Rd Eastbound					
Start Time	Right	Thru	Left	U-Turns	App. Total	Right	Thru	Left	U-Turns	App. Total	Right	Thru	Left	U-Turns	App. Total	Right	Thru	Left	U-Turns	App. Total	Int. Total
Peak Hour Analysis From 6:00:00 AM to 6:45:00 AM - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 6:00:00 AM																					
6:00:00 AM	1	0	3	0	4	0	88	1	12	101	1	0	0	0	1	1	20	0	0	21	127
6:15:00 AM	5	0	1	0	6	0	87	1	12	100	0	0	1	0	1	1	40	0	0	41	148
6:30:00 AM	0	0	1	0	1	0	137	3	16	156	0	0	2	0	2	2	49	1	0	52	211
6:45:00 AM	3	0	2	0	5	1	147	1	14	163	0	0	1	0	1	3	55	2	0	60	229
Total Volume	9	0	7	0	16	1	459	6	54	520	1	0	4	0	5	7	164	3	0	174	715
% App. Total	56.2	0	43.8	0		0.2	88.3	1.2	10.4		20	0	80	0		4	94.3	1.7	0		
PHF	.450	.000	.583	.000	.667	.250	.781	.500	.844	.798	.250	.000	.500	.000	.625	.583	.745	.375	.000	.725	.781



Quality Counts, LLC

920 Blairhill Rd, STE B106
Charlotte, NC 28217

File Name : 14580501 - Jefferson Colony Rd & Fairview Rd

Site Code : 14580501

Start Date : 12/12/2017

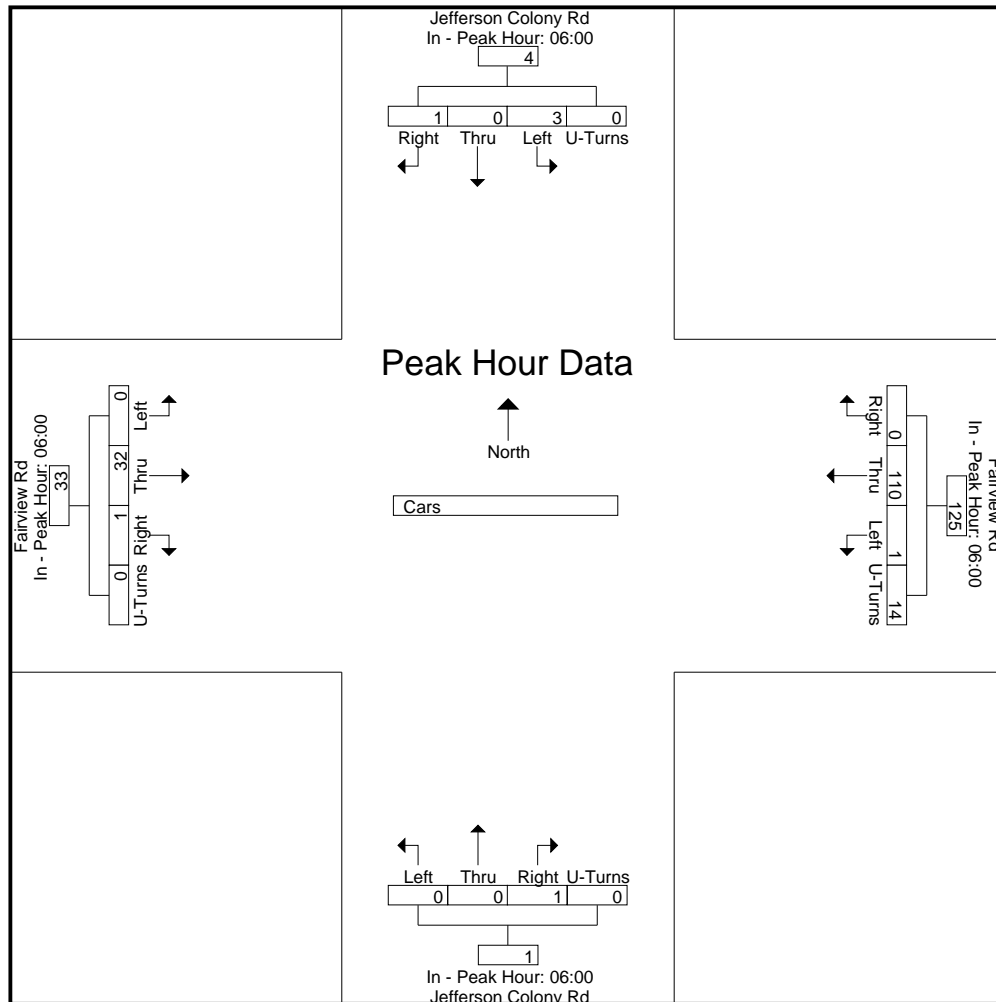
Page No : 3

	Jefferson Colony Rd Southbound					Fairview Rd Westbound					Jefferson Colony Rd Northbound					Fairview Rd Eastbound					
Start Time	Right	Thru	Left	U-Turns	App. Total	Right	Thru	Left	U-Turns	App. Total	Right	Thru	Left	U-Turns	App. Total	Right	Thru	Left	U-Turns	App. Total	Int. Total

Peak Hour Analysis From 6:00:00 AM to 6:45:00 AM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

	6:00:00 AM					6:00:00 AM					6:00:00 AM					6:00:00 AM				
+0 mins.	1	0	3	0	4	0	88	1	12	101	1	0	0	0	1	1	20	0	0	21
+5 mins.	5	0	1	0	6	0	87	1	12	100	0	0	1	0	1	1	40	0	0	41
+10 mins.	0	0	1	0	1	0	137	3	16	156	0	0	2	0	2	2	49	1	0	52
+15 mins.	3	0	2	0	5	1	147	1	14	163	0	0	1	0	1	3	55	2	0	60
Total Volume	9	0	7	0	16	1	459	6	54	520	1	0	4	0	5	7	164	3	0	174
% App. Total	56.2	0	43.8	0		0.2	88.3	1.2	10.4		20	0	80	0		4	94.3	1.7	0	
PHF	.450	.000	.583	.000	.667	.250	.781	.500	.844	.798	.250	.000	.500	.000	.625	.583	.745	.375	.000	.725



Quality Counts, LLC

920 Blairhill Rd, STE B106
Charlotte, NC 28217

File Name : 14580501 - Jefferson Colony Rd & Fairview Rd

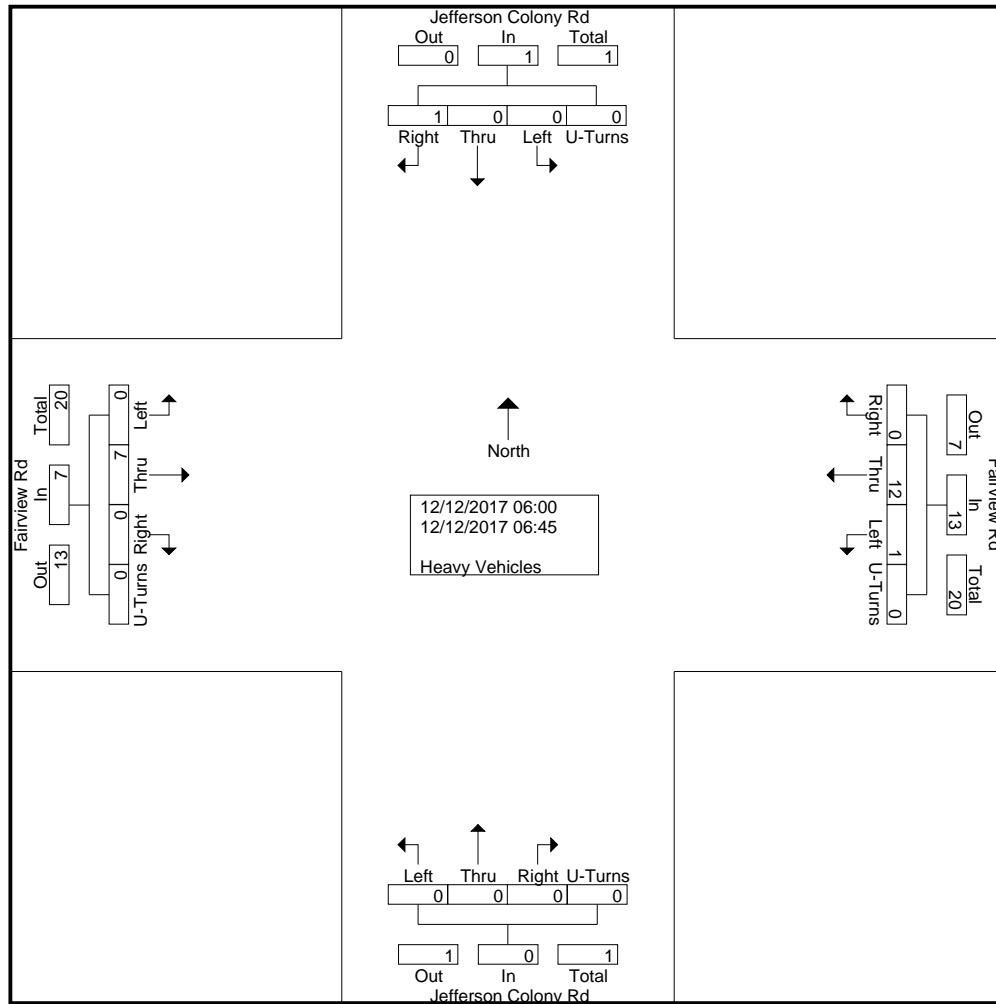
Site Code : 14580501

Start Date : 12/12/2017

Page No : 1

Groups Printed- Heavy Vehicles

	Jefferson Colony Rd Southbound					Fairview Rd Westbound					Jefferson Colony Rd Northbound					Fairview Rd Eastbound						
Start Time	Right	Thru	Left	U-Turns	App. Total	Right	Thru	Left	U-Turns	App. Total	Right	Thru	Left	U-Turns	App. Total	Right	Thru	Left	U-Turns	App. Total	Int. Total	
06:00	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	0	2	0	0	0	2	4
06:15	0	0	0	0	0	0	6	1	0	7	0	0	0	0	0	0	0	0	0	0	0	7
06:30	0	0	0	0	0	0	3	0	0	3	0	0	0	0	0	0	2	0	0	0	2	5
06:45	1	0	0	0	1	0	1	0	0	1	0	0	0	0	0	0	3	0	0	0	3	5
Total	1	0	0	0	1	0	12	1	0	13	0	0	0	0	0	0	7	0	0	0	7	21
Grand Total	1	0	0	0	1	0	12	1	0	13	0	0	0	0	0	0	7	0	0	0	7	21
Apprch %	100	0	0	0		0	92.3	7.7	0		0	0	0	0		0	100	0	0			
Total %	4.8	0	0	0	4.8	0	57.1	4.8	0	61.9	0	0	0	0	0	0	33.3	0	0	0	33.3	



Quality Counts, LLC

920 Blairhill Rd, STE B106
Charlotte, NC 28217

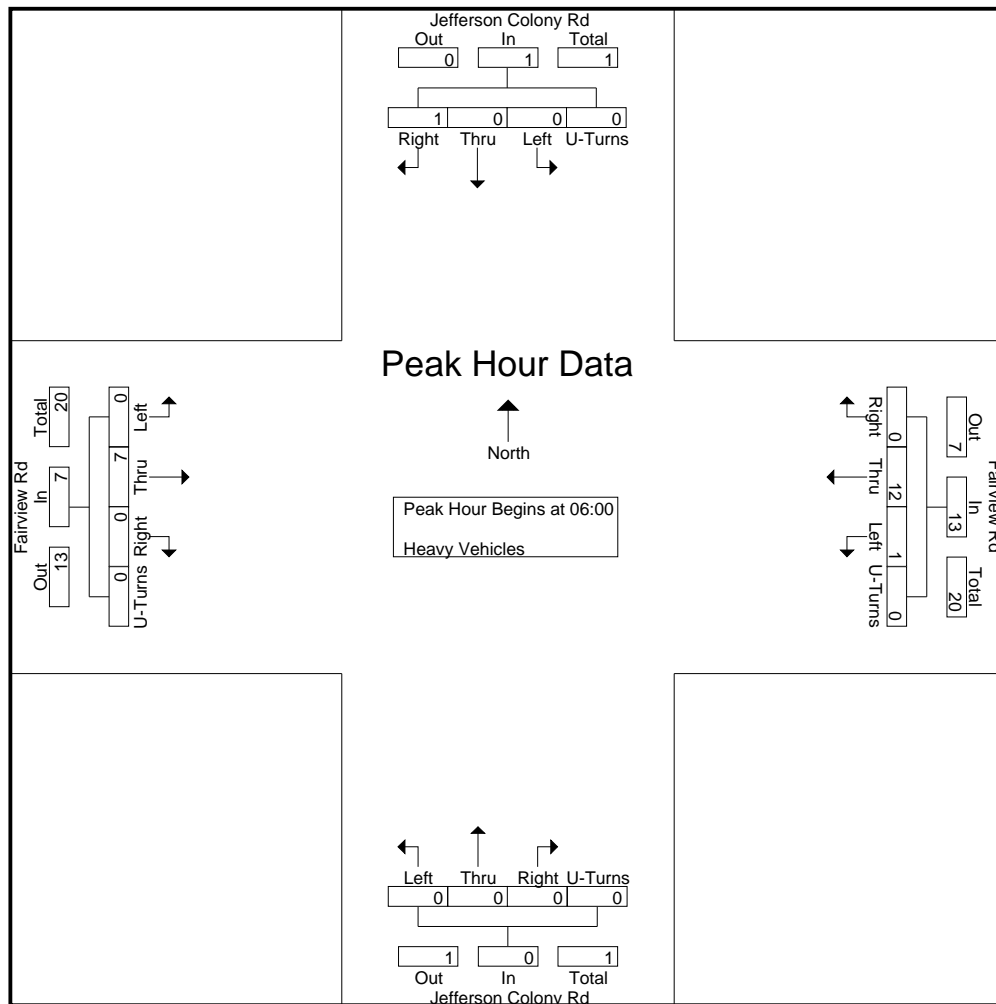
File Name : 14580501 - Jefferson Colony Rd & Fairview Rd

Site Code : 14580501

Start Date : 12/12/2017

Page No : 2

	Jefferson Colony Rd Southbound					Fairview Rd Westbound					Jefferson Colony Rd Northbound					Fairview Rd Eastbound					
Start Time	Right	Thru	Left	U-Turns	App. Total	Right	Thru	Left	U-Turns	App. Total	Right	Thru	Left	U-Turns	App. Total	Right	Thru	Left	U-Turns	App. Total	Int. Total
Peak Hour Analysis From 6:00:00 AM to 6:45:00 AM - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 6:00:00 AM																					
6:00:00 AM	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	0	2	0	0	0	2
6:15:00 AM	0	0	0	0	0	0	6	1	0	7	0	0	0	0	0	0	0	0	0	0	7
6:30:00 AM	0	0	0	0	0	0	3	0	0	3	0	0	0	0	0	0	2	0	0	0	5
6:45:00 AM	1	0	0	0	1	0	1	0	0	1	0	0	0	0	0	0	3	0	0	0	5
Total Volume	1	0	0	0	1	0	12	1	0	13	0	0	0	0	0	0	7	0	0	0	7
% App. Total	100	0	0	0		0	92.3	7.7	0		0	0	0	0	0	0	100	0	0		
PHF	.250	.000	.000	.000	.250	.000	.500	.250	.000	.464	.000	.000	.000	.000	.000	.000	.583	.000	.000	.583	.750



Quality Counts, LLC

920 Blairhill Rd, STE B106
Charlotte, NC 28217

File Name : 14580501 - Jefferson Colony Rd & Fairview Rd

Site Code : 14580501

Start Date : 12/12/2017

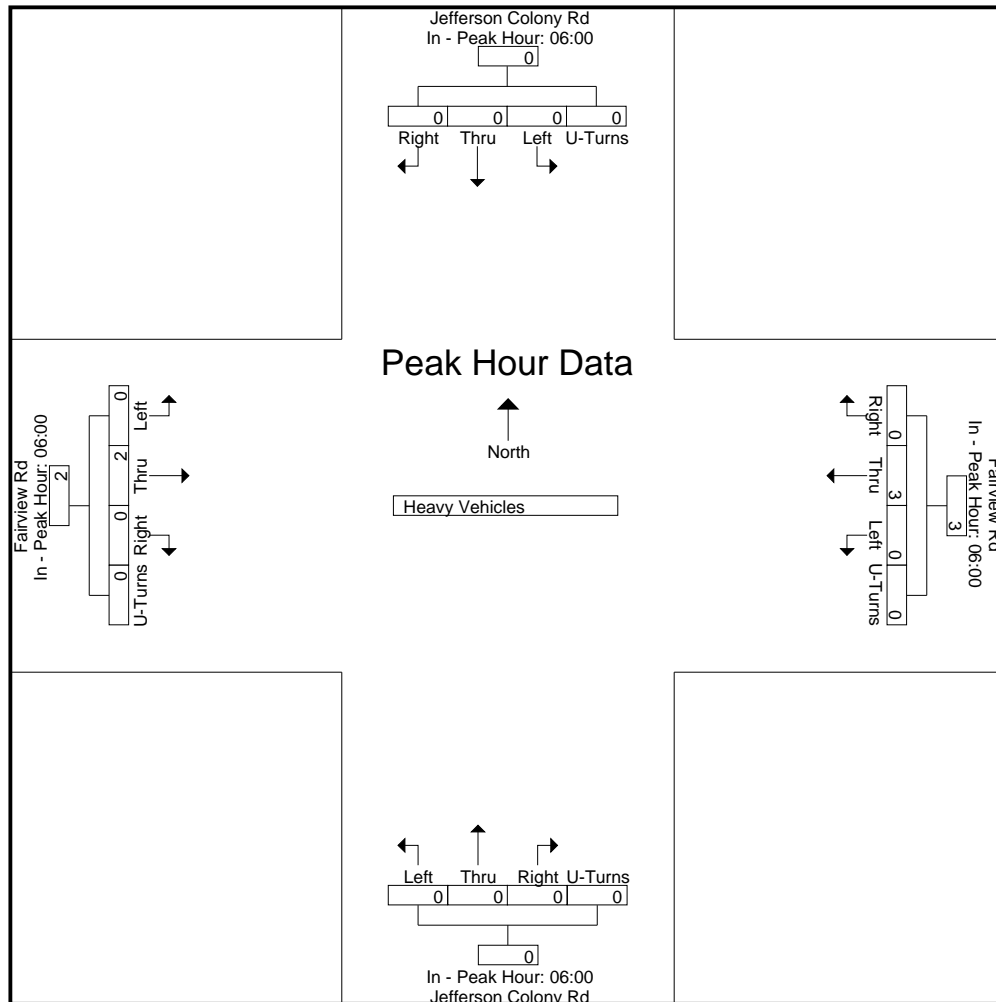
Page No : 3

	Jefferson Colony Rd Southbound					Fairview Rd Westbound					Jefferson Colony Rd Northbound					Fairview Rd Eastbound					
Start Time	Right	Thru	Left	U-Turns	App. Total	Right	Thru	Left	U-Turns	App. Total	Right	Thru	Left	U-Turns	App. Total	Right	Thru	Left	U-Turns	App. Total	Int. Total

Peak Hour Analysis From 6:00:00 AM to 6:45:00 AM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

	6:00:00 AM					6:00:00 AM					6:00:00 AM					6:00:00 AM					
+0 mins.	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	0	2	0	0	0	2
+5 mins.	0	0	0	0	0	0	6	1	0	7	0	0	0	0	0	0	0	0	0	0	0
+10 mins.	0	0	0	0	0	0	3	0	0	3	0	0	0	0	0	0	2	0	0	0	2
+15 mins.	1	0	0	0	1	0	1	0	0	1	0	0	0	0	0	0	3	0	0	0	3
Total Volume	1	0	0	0	1	0	12	1	0	13	0	0	0	0	0	0	7	0	0	0	7
% App. Total	100	0	0	0	0	0	92.3	7.7	0	0	0	0	0	0	0	0	100	0	0	0	0
PHF	.250	.000	.000	.000	.250	.000	.500	.250	.000	.464	.000	.000	.000	.000	.000	.000	.583	.000	.000	.583	



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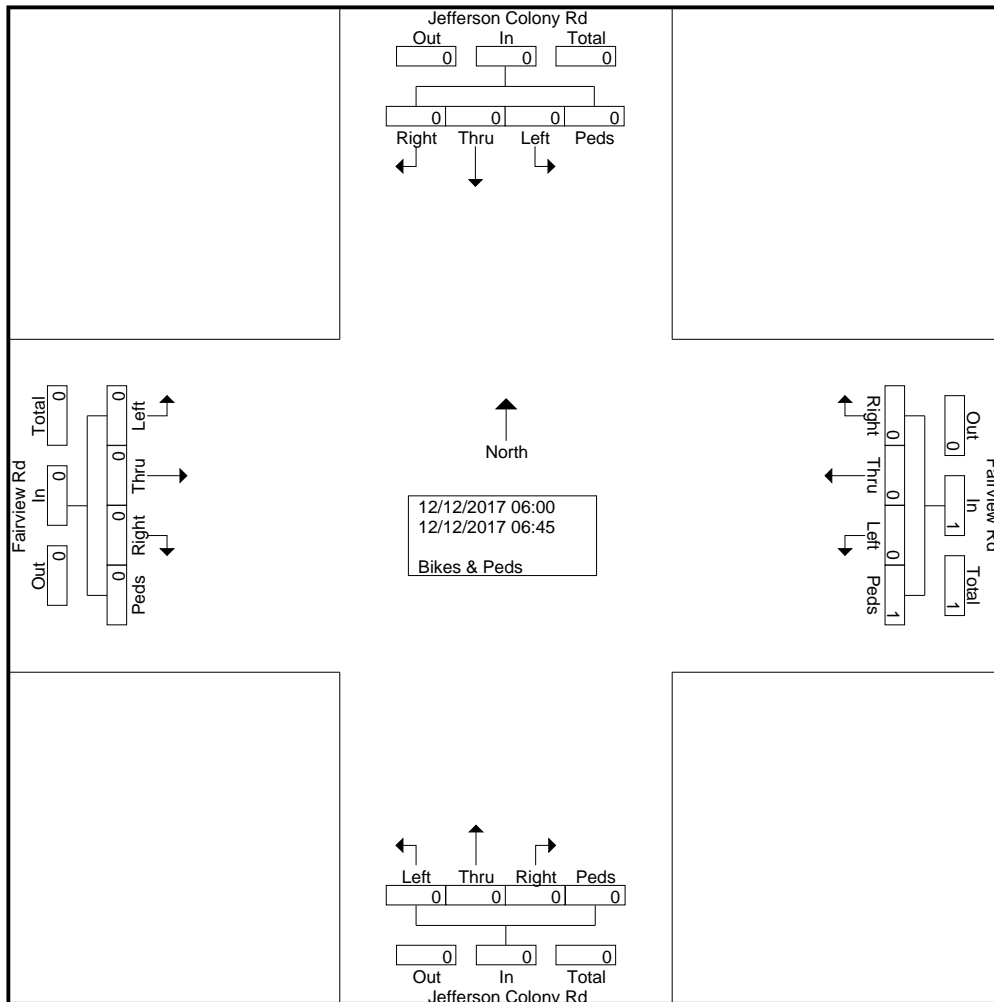
Site Code : 14580501

Start Date : 12/12/2017

Page No : 1

Groups Printed- Bikes & Peds

	Jefferson Colony Rd Southbound					Fairview Rd Westbound					Jefferson Colony Rd Northbound					Fairview Rd Eastbound					
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
*** BREAK ***																					
06:45	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	1
Total	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	1
Grand Total	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	1
Apprch %	0	0	0	0		0	0	0	100		0	0	0	0		0	0	0	0		
Total %	0	0	0	0		0	0	0	100	100	0	0	0	0		0	0	0	0		



Quality Counts, LLC

920 Blairhill Rd, STE B106
Charlotte, NC 28217

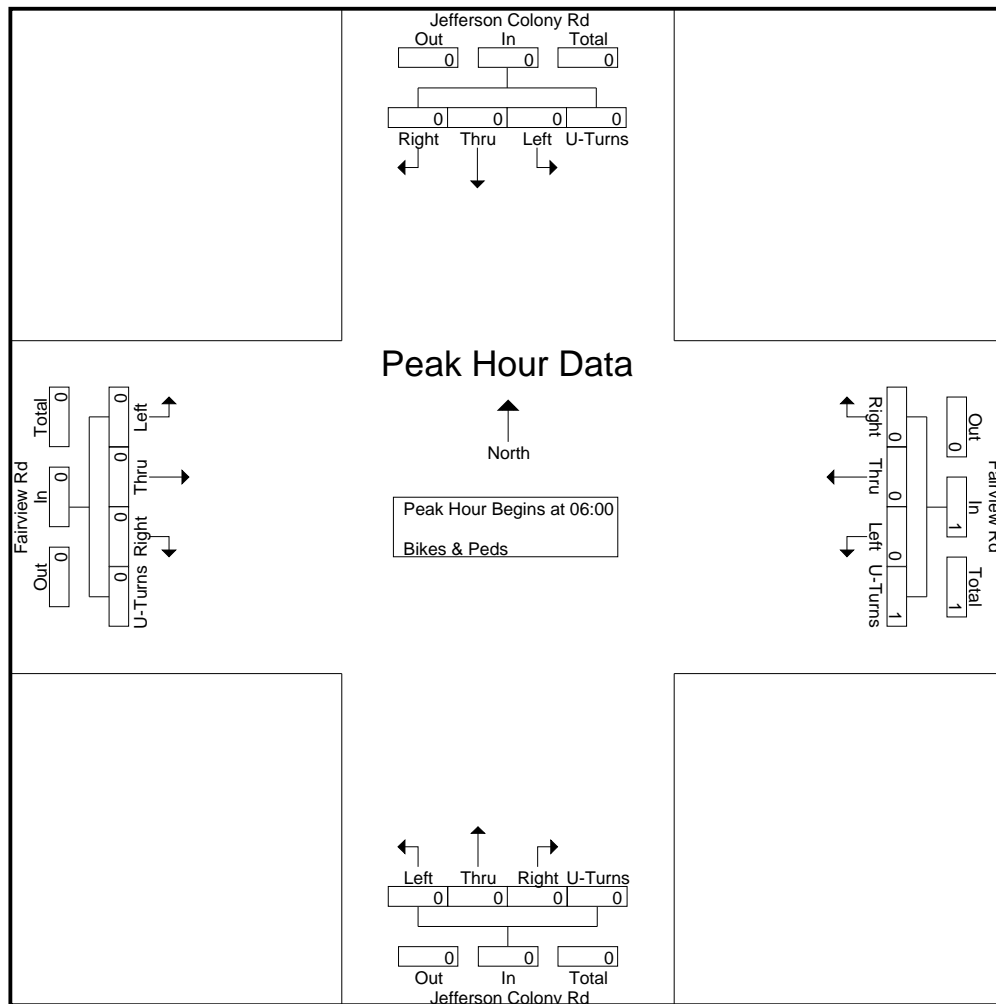
File Name : 14580501 - Jefferson Colony Rd & Fairview Rd

Site Code : 14580501

Start Date : 12/12/2017

Page No : 2

	Jefferson Colony Rd Southbound					Fairview Rd Westbound					Jefferson Colony Rd Northbound					Fairview Rd Eastbound					
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 Analysis From 6:00:00 AM to 6:45:00 AM - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 6:00:00 AM																					
6:00:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6:15:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6:30:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6:45:00 AM	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	1
Total Volume	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	1
% App. Total	0	0	0	0	0	0	0	0	100		0	0	0	0	0	0	0	0	0	0	
PHF	.000	.000	.000	.000	.000	.000	.000	.000	.250	.250	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.250



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File Name : 14580501 - Jefferson Colony Rd & Fairview Rd

Site Code : 14580501

Start Date : 12/12/2017

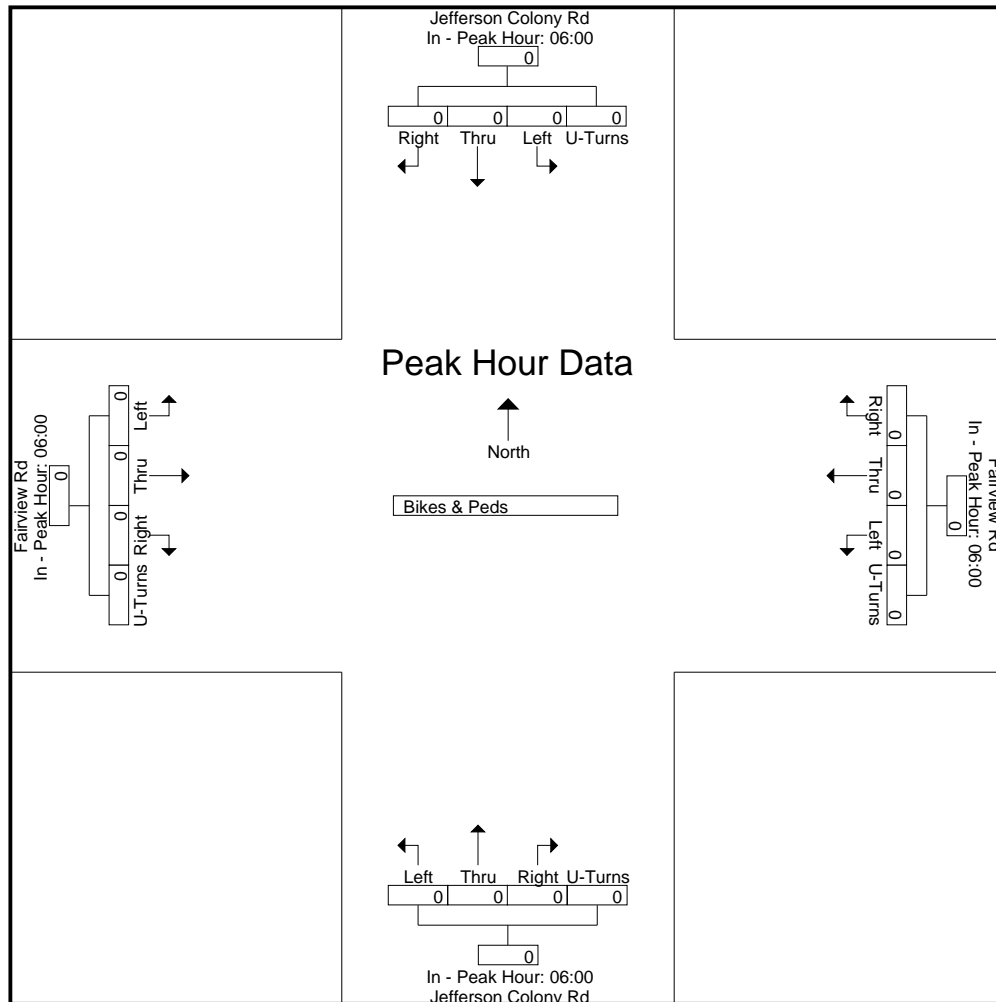
Page No : 3

	Jefferson Colony Rd Southbound					Fairview Rd Westbound					Jefferson Colony Rd Northbound					Fairview Rd Eastbound					
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 Analysis From 6:00:00 AM to 6:45:00 AM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

	6:00:00 AM					6:00:00 AM					6:00:00 AM					6:00:00 AM					
+0 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+5 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+10 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+15 mins.	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0
Total Volume	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0
% App. Total	0	0	0	0	0	0	0	0	100		0	0	0	0	0	0	0	0	0	0	
PHF	.000	.000	.000	.000	.000	.000	.000	.000	.250	.250	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	



Quality Counts, LLC

920 Blairhill Rd, STE B106
Charlotte, NC 28217

File Name : 14580502 - Jefferson Colony Rd & Fairview Rd

Site Code : 14580502

Start Date : 12/12/2017

Page No : 1

Groups Printed- Cars - Heavy Vehicles - Bikes & Peds

	Jefferson Colony Rd Southbound					Fairview Rd Westbound					Jefferson Colony Rd Northbound					Fairview Rd Eastbound					
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
09:00	5	0	1	0	6	0	100	2	22	124	5	0	2	1	8	4	58	1	0	63	201
09:15	4	0	2	0	6	2	94	1	9	106	0	0	2	0	2	1	41	1	0	43	157
09:30	3	0	0	0	3	1	108	1	13	123	2	0	3	1	6	0	56	1	0	57	189
09:45	1	0	0	0	1	2	101	2	9	114	3	0	1	0	4	4	52	2	0	58	177
Total	13	0	3	0	16	5	403	6	53	467	10	0	8	2	20	9	207	5	0	221	724
10:00	4	0	1	0	5	1	90	2	14	107	4	0	1	1	6	3	71	1	1	76	194
10:15	2	0	1	0	3	2	92	1	9	104	0	0	3	0	3	3	65	1	0	69	179
10:30	1	0	0	0	1	1	76	1	3	81	1	0	5	0	6	3	74	3	0	80	168
10:45	1	0	3	1	5	1	69	2	11	83	0	0	1	0	1	2	64	2	1	69	158
Total	8	0	5	1	14	5	327	6	37	375	5	0	10	1	16	11	274	7	2	294	699
11:00	1	0	1	0	2	0	67	4	5	76	6	0	3	0	9	4	55	1	0	60	147
11:15	1	0	3	0	4	1	81	2	13	97	1	1	4	1	7	0	68	3	0	71	179
11:30	1	0	0	0	1	0	70	2	10	82	1	0	2	0	3	2	79	0	0	81	167
11:45	3	0	2	0	5	2	97	2	4	105	0	0	3	0	3	5	72	2	1	80	193
Total	6	0	6	0	12	3	315	10	32	360	8	1	12	1	22	11	274	6	1	292	686
12:00	1	1	4	0	6	1	86	1	5	93	3	0	6	0	9	3	67	0	0	70	178
12:15	0	0	2	0	2	0	86	2	7	95	0	0	2	0	2	6	94	0	0	100	199
12:30	2	0	1	0	3	1	96	1	7	105	1	0	2	0	3	4	106	1	0	111	222
12:45	0	0	0	0	0	3	109	4	5	121	3	0	5	0	8	2	111	2	0	115	244
Total	3	1	7	0	11	5	377	8	24	414	7	0	15	0	22	15	378	3	0	396	843
13:00	0	0	1	0	1	0	79	9	12	100	9	0	4	0	13	2	102	2	0	106	220
13:15	4	0	0	0	4	2	82	2	7	93	2	0	4	0	6	5	88	5	0	98	201
13:30	0	0	1	0	1	1	77	2	9	89	1	0	2	0	3	4	94	2	0	100	193
13:45	0	0	0	0	0	0	87	1	9	97	5	0	3	0	8	1	85	0	0	86	191
Total	4	0	2	0	6	3	325	14	37	379	17	0	13	0	30	12	369	9	0	390	805
14:00	2	0	0	0	2	1	73	1	6	81	2	0	2	0	4	1	92	3	1	97	184
14:15	0	0	6	0	6	1	75	2	4	82	3	0	2	1	6	5	107	2	0	114	208
14:30	1	0	4	0	5	4	93	4	9	110	2	0	3	0	5	4	123	2	0	129	249
14:45	3	0	3	0	6	1	107	8	11	127	1	0	3	1	5	2	91	4	1	98	236
Total	6	0	13	0	19	7	348	15	30	400	8	0	10	2	20	12	413	11	2	438	877
15:00	3	0	0	0	3	2	92	5	7	106	6	0	3	1	10	3	111	2	0	116	235
15:15	5	0	1	0	6	3	99	5	6	113	3	0	7	0	10	6	127	6	0	139	268
15:30	4	0	4	0	8	1	102	3	1	107	3	0	3	0	6	7	153	7	0	167	288
15:45	1	0	0	0	1	2	106	9	4	121	4	0	4	0	8	5	137	2	1	145	275
Total	13	0	5	0	18	8	399	22	18	447	16	0	17	1	34	21	528	17	1	567	1066
Grand Total	53	1	41	1	96	36	2494	81	231	2842	71	1	85	7	164	91	2443	58	6	2598	5700
Apprch %	55.2	1	42.7	1		1.3	87.8	2.9	8.1		43.3	0.6	51.8	4.3		3.5	94	2.2	0.2		
Total %	0.9	0	0.7	0	1.7	0.6	43.8	1.4	4.1	49.9	1.2	0	1.5	0.1	2.9	1.6	42.9	1	0.1	45.6	
Cars	52	1	37	0	90	35	2427	81	229	2772	70	1	82	0	153	87	2366	54	1	2508	5523
% Cars	98.1	100	90.2	0	93.8	97.2	97.3	100	99.1	97.5	98.6	100	96.5	0	93.3	95.6	96.8	93.1	16.7	96.5	96.9
Heavy Vehicles	1	0	4	0	5	1	67	0	0	68	1	0	3	0	4	3	77	4	0	84	161
% Heavy Vehicles	1.9	0	9.8	0	5.2	2.8	2.7	0	0	2.4	1.4	0	3.5	0	2.4	3.3	3.2	6.9	0	3.2	2.8
Bikes & Peds	0	0	0	1	1	0	0	0	2	2	0	0	0	7	7	1	0	0	5	6	16
% Bikes & Peds	0	0	0	100	1	0	0	0	0.9	0.1	0	0	0	100	4.3	1.1	0	0	83.3	0.2	0.3

Quality Counts, LLC

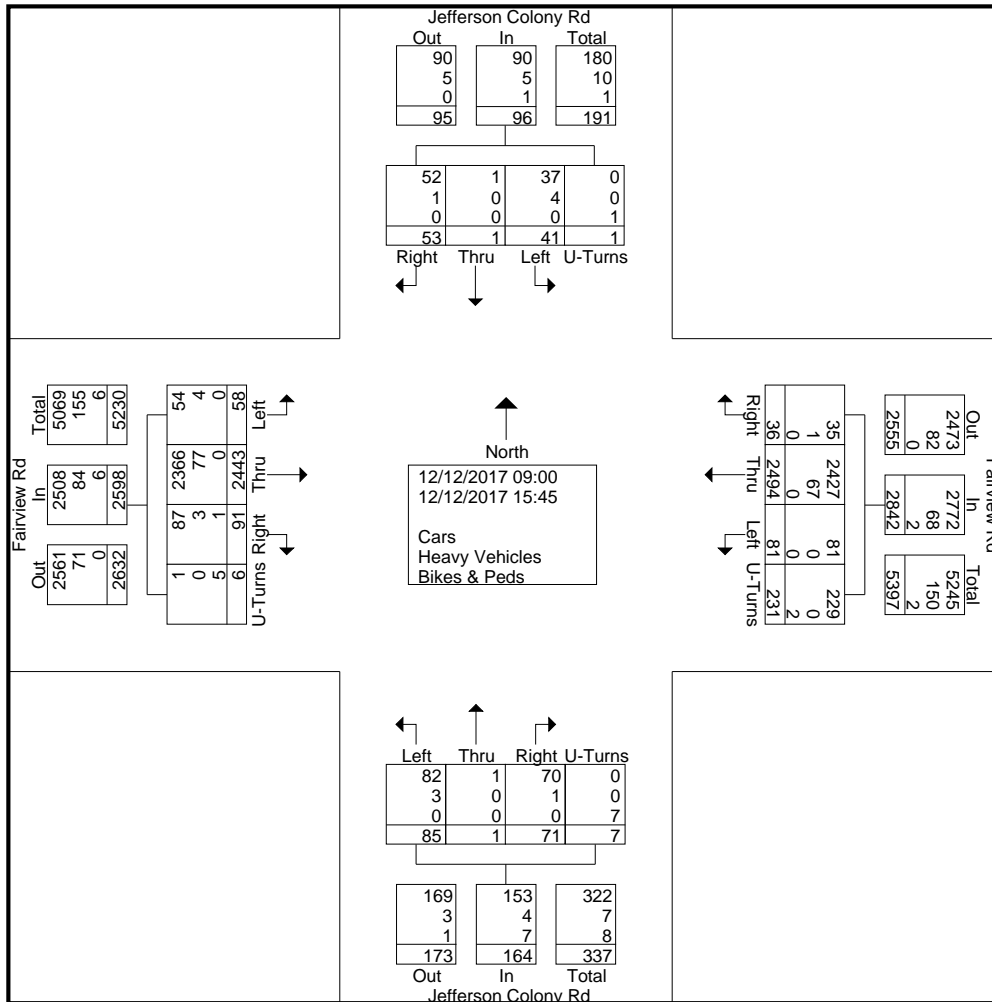
920 Blairhill Rd, STE B106
Charlotte, NC 28217

File Name : 14580502 - Jefferson Colony Rd & Fairview Rd

Site Code : 14580502

Start Date : 12/12/2017

Page No : 2



Quality Counts, LLC

920 Blairhill Rd, STE B106
Charlotte, NC 28217

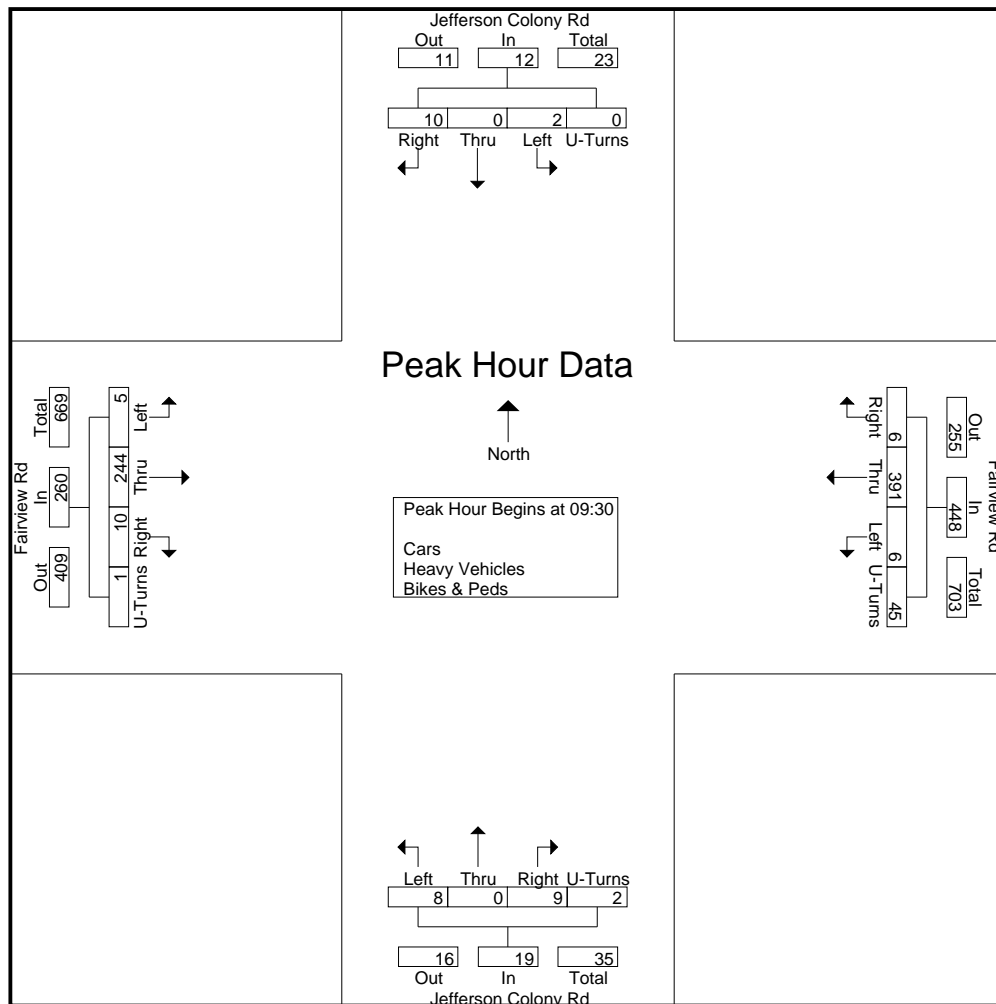
File Name : 14580502 - Jefferson Colony Rd & Fairview Rd

Site Code : 14580502

Start Date : 12/12/2017

Page No : 3

	Jefferson Colony Rd Southbound					Fairview Rd Westbound					Jefferson Colony Rd Northbound					Fairview Rd Eastbound					
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 Analysis From 9:00:00 AM to 11:45:00 AM - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 9:30:00 AM																					
9:30:00 AM	3	0	0	0	3	1	108	1	13	123	2	0	3	1	6	0	56	1	0	57	189
9:45:00 AM	1	0	0	0	1	2	101	2	9	114	3	0	1	0	4	4	52	2	0	58	177
10:00:00 AM	4	0	1	0	5	1	90	2	14	107	4	0	1	1	6	3	71	1	1	76	194
10:15:00 AM	2	0	1	0	3	2	92	1	9	104	0	0	3	0	3	3	65	1	0	69	179
Total Volume	10	0	2	0	12	6	391	6	45	448	9	0	8	2	19	10	244	5	1	260	739
% App. Total	83.3	0	16.7	0		1.3	87.3	1.3	10		47.4	0	42.1	10.5		3.8	93.8	1.9	0.4		
PHF	.625	.000	.500	.000	.600	.750	.905	.750	.804	.911	.563	.000	.667	.500	.792	.625	.859	.625	.250	.855	.952



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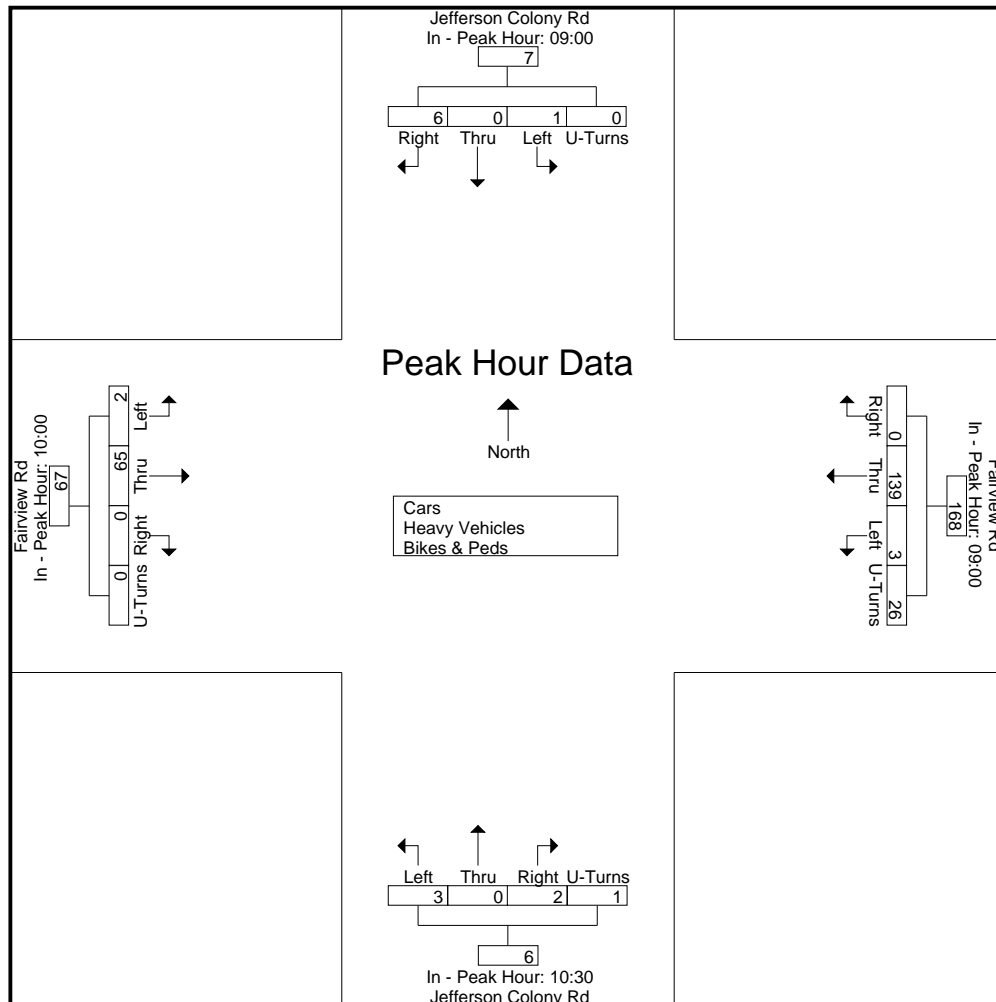
Page No : 4

	Jefferson Colony Rd Southbound					Fairview Rd Westbound					Jefferson Colony Rd Northbound					Fairview Rd Eastbound					
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 Analysis From 9:00:00 AM to 11:45:00 AM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

	9:00:00 AM					9:00:00 AM					10:30:00 AM					10:00:00 AM				
+0 mins.	5	0	1	0	6	0	100	2	22	124	1	0	5	0	6	3	71	1	1	76
+5 mins.	4	0	2	0	6	2	94	1	9	106	0	0	1	0	1	3	65	1	0	69
+10 mins.	3	0	0	0	3	1	108	1	13	123	6	0	3	0	9	3	74	3	0	80
+15 mins.	1	0	0	0	1	2	101	2	9	114	1	1	4	1	7	2	64	2	1	69
Total Volume	13	0	3	0	16	5	403	6	53	467	8	1	13	1	23	11	274	7	2	294
% App. Total	81.2	0	18.8	0		1.1	86.3	1.3	11.3		34.8	4.3	56.5	4.3		3.7	93.2	2.4	0.7	
PHF	.650	.000	.375	.000	.667	.625	.933	.750	.602	.942	.333	.250	.650	.250	.639	.917	.926	.583	.500	.919



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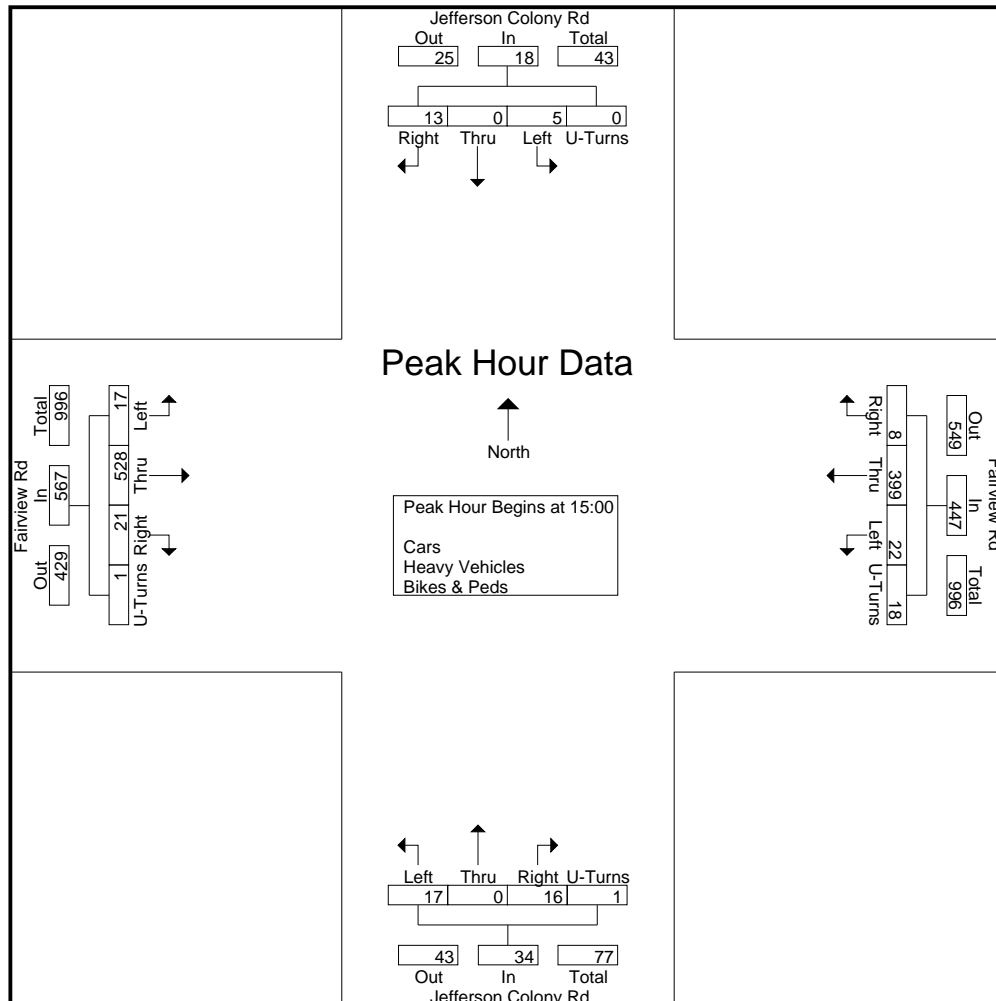
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Site Code : 14580502

Start Date : 12/12/2017

Page No : 5

	Jefferson Colony Rd Southbound					Fairview Rd Westbound					Jefferson Colony Rd Northbound					Fairview Rd Eastbound					
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 Analysis From 12:00:00 PM to 3:45:00 PM - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 3:00:00 PM																					
3:00:00 PM	3	0	0	0	3	2	92	5	7	106	6	0	3	1	10	3	111	2	0	116	235
3:15:00 PM	5	0	1	0	6	3	99	5	6	113	3	0	7	0	10	6	127	6	0	139	268
3:30:00 PM	4	0	4	0	8	1	102	3	1	107	3	0	3	0	6	7	153	7	0	167	288
3:45:00 PM	1	0	0	0	1	2	106	9	4	121	4	0	4	0	8	5	137	2	1	145	275
Total Volume	13	0	5	0	18	8	399	22	18	447	16	0	17	1	34	21	528	17	1	567	1066
% App. Total	72.2	0	27.8	0		1.8	89.3	4.9	4		47.1	0	50	2.9		3.7	93.1	3	0.2		
PHF	.650	.000	.313	.000	.563	.667	.941	.611	.643	.924	.667	.000	.607	.250	.850	.750	.863	.607	.250	.849	.925



Quality Counts, LLC

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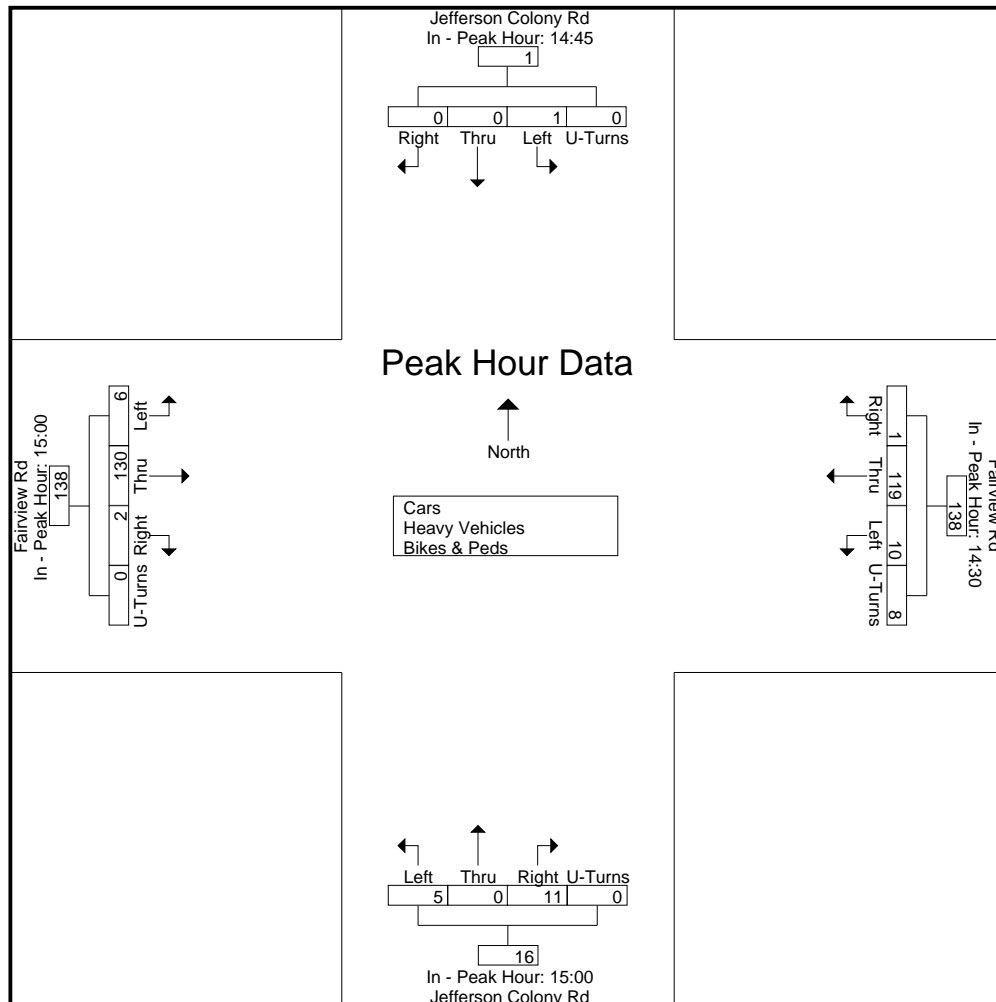
Page No : 6

	Jefferson Colony Rd Southbound					Fairview Rd Westbound					Jefferson Colony Rd Northbound					Fairview Rd Eastbound					
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 Analysis From 12:00:00 PM to 3:45:00 PM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

	2:45:00 PM					2:30:00 PM					3:00:00 PM					3:00:00 PM				
+0 mins.	3	0	3	0	6	4	93	4	9	110	6	0	3	1	10	3	111	2	0	116
+5 mins.	3	0	0	0	3	1	107	8	11	127	3	0	7	0	10	6	127	6	0	139
+10 mins.	5	0	1	0	6	2	92	5	7	106	3	0	3	0	6	7	153	7	0	167
+15 mins.	4	0	4	0	8	3	99	5	6	113	4	0	4	0	8	5	137	2	1	145
Total Volume	15	0	8	0	23	10	391	22	33	456	16	0	17	1	34	21	528	17	1	567
% App. Total	65.2	0	34.8	0		2.2	85.7	4.8	7.2		47.1	0	50	2.9		3.7	93.1	3	0.2	
PHF	.750	.000	.500	.000	.719	.625	.914	.688	.750	.898	.667	.000	.607	.250	.850	.750	.863	.607	.250	.849



Quality Counts, LLC

920 Blairhill Rd, STE B106
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File Name : 14580502 - Jefferson Colony Rd & Fairview Rd

Site Code : 14580502

Start Date : 12/12/2017

Page No : 1

Groups Printed- Cars

	Jefferson Colony Rd Southbound					Fairview Rd Westbound					Jefferson Colony Rd Northbound					Fairview Rd Eastbound					
Start Time	Right	Thru	Left	U-Turns	App. Total	Right	Thru	Left	U-Turns	App. Total	Right	Thru	Left	U-Turns	App. Total	Right	Thru	Left	U-Turns	App. Total	Int. Total
09:00	5	0	1	0	6	0	99	2	22	123	5	0	2	0	7	4	56	0	0	60	196
09:15	4	0	1	0	5	2	89	1	9	101	0	0	2	0	2	1	40	1	0	42	150
09:30	3	0	0	0	3	1	106	1	13	121	2	0	3	0	5	0	54	1	0	55	184
09:45	1	0	0	0	1	2	101	2	9	114	3	0	1	0	4	3	50	1	0	54	173
Total	13	0	2	0	15	5	395	6	53	459	10	0	8	0	18	8	200	3	0	211	703
10:00	3	0	1	0	4	1	85	2	12	100	4	0	1	0	5	3	64	1	1	69	178
10:15	2	0	1	0	3	2	89	1	9	101	0	0	2	0	2	3	63	1	0	67	173
10:30	1	0	0	0	1	1	76	1	3	81	1	0	5	0	6	2	71	3	0	76	164
10:45	1	0	3	0	4	1	67	2	11	81	0	0	1	0	1	2	58	2	0	62	148
Total	7	0	5	0	12	5	317	6	35	363	5	0	9	0	14	10	256	7	1	274	663
11:00	1	0	1	0	2	0	64	4	5	73	6	0	2	0	8	4	54	1	0	59	142
11:15	1	0	3	0	4	1	78	2	13	94	1	1	4	0	6	0	66	3	0	69	173
11:30	1	0	0	0	1	0	70	2	10	82	1	0	2	0	3	2	77	0	0	79	165
11:45	3	0	1	0	4	1	92	2	4	99	0	0	3	0	3	5	70	1	0	76	182
Total	6	0	5	0	11	2	304	10	32	348	8	1	11	0	20	11	267	5	0	283	662
12:00	1	1	3	0	5	1	82	1	5	89	3	0	6	0	9	2	62	0	0	64	167
12:15	0	0	2	0	2	0	83	2	7	92	0	0	2	0	2	6	90	0	0	96	192
12:30	2	0	1	0	3	1	92	1	7	101	1	0	2	0	3	3	103	1	0	107	214
12:45	0	0	0	0	0	3	109	4	5	121	3	0	5	0	8	2	109	2	0	113	242
Total	3	1	6	0	10	5	366	8	24	403	7	0	15	0	22	13	364	3	0	380	815
13:00	0	0	1	0	1	0	78	9	12	99	8	0	3	0	11	2	101	2	0	105	216
13:15	4	0	0	0	4	2	81	2	7	92	2	0	4	0	6	5	86	5	0	96	198
13:30	0	0	1	0	1	1	75	2	9	87	1	0	2	0	3	4	92	2	0	98	189
13:45	0	0	0	0	0	0	87	1	9	97	5	0	3	0	8	1	83	0	0	84	189
Total	4	0	2	0	6	3	321	14	37	375	16	0	12	0	28	12	362	9	0	383	792
14:00	2	0	0	0	2	1	71	1	6	79	2	0	2	0	4	1	91	3	0	95	180
14:15	0	0	6	0	6	1	75	2	4	82	3	0	2	0	5	5	106	2	0	113	206
14:30	1	0	4	0	5	4	90	4	9	107	2	0	3	0	5	4	117	2	0	123	240
14:45	3	0	3	0	6	1	104	8	11	124	1	0	3	0	4	2	89	4	0	95	229
Total	6	0	13	0	19	7	340	15	30	392	8	0	10	0	18	12	403	11	0	426	855
15:00	3	0	0	0	3	2	90	5	7	104	6	0	3	0	9	3	110	2	0	115	231
15:15	5	0	1	0	6	3	98	5	6	112	3	0	7	0	10	6	123	6	0	135	263
15:30	4	0	3	0	7	1	98	3	1	103	3	0	3	0	6	7	147	6	0	160	276
15:45	1	0	0	0	1	2	98	9	4	113	4	0	4	0	8	5	134	2	0	141	263
Total	13	0	4	0	17	8	384	22	18	432	16	0	17	0	33	21	514	16	0	551	1033
Grand Total	52	1	37	0	90	35	2427	81	229	2772	70	1	82	0	153	87	2366	54	1	2508	5523
Apprch %	57.8	1.1	41.1	0		1.3	87.6	2.9	8.3		45.8	0.7	53.6	0		3.5	94.3	2.2	0		
Total %	0.9	0	0.7	0	1.6	0.6	43.9	1.5	4.1	50.2	1.3	0	1.5	0	2.8	1.6	42.8	1	0	45.4	

Quality Counts, LLC

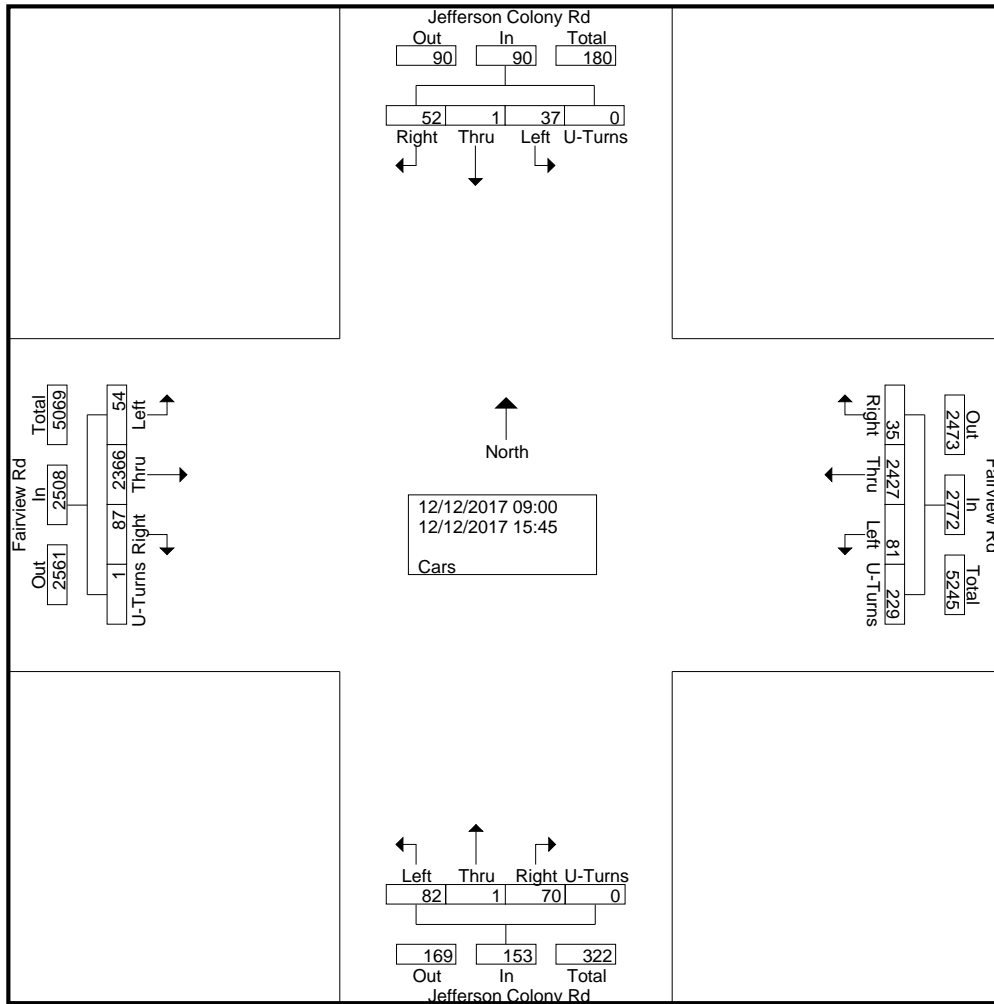
920 Blairhill Rd, STE B106
Charlotte, NC 28217

File Name : 14580502 - Jefferson Colony Rd & Fairview Rd

Site Code : 14580502

Start Date : 12/12/2017

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Quality Counts, LLC

920 Blairhill Rd, STE B106
Charlotte, NC 28217

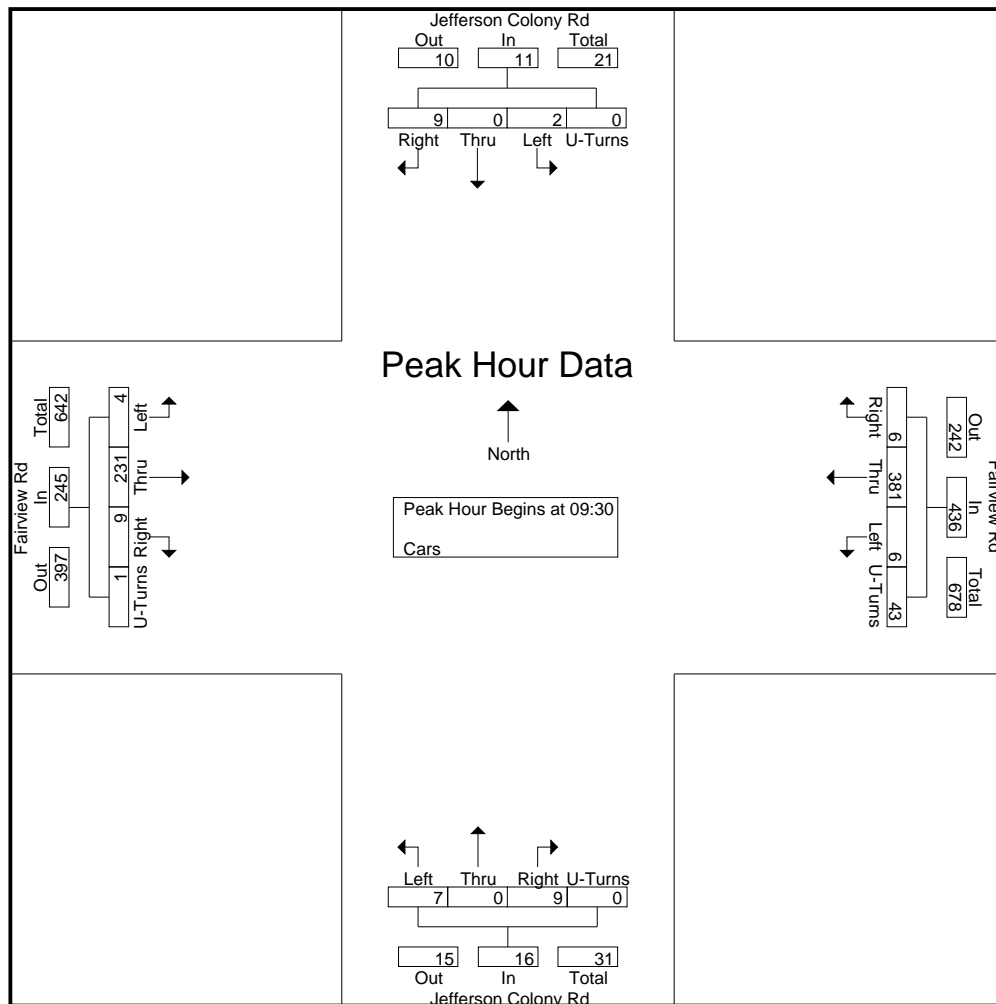
File Name : 14580502 - Jefferson Colony Rd & Fairview Rd

Site Code : 14580502

Start Date : 12/12/2017

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	Jefferson Colony Rd Southbound					Fairview Rd Westbound					Jefferson Colony Rd Northbound					Fairview Rd Eastbound					
Start Time	Right	Thru	Left	U-Turns	App. Total	Right	Thru	Left	U-Turns	App. Total	Right	Thru	Left	U-Turns	App. Total	Right	Thru	Left	U-Turns	App. Total	Int. Total
Peak Hour Analysis From 9:00:00 AM to 11:45:00 AM - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 9:30:00 AM																					
9:30:00 AM	3	0	0	0	3	1	106	1	13	121	2	0	3	0	5	0	54	1	0	55	184
9:45:00 AM	1	0	0	0	1	2	101	2	9	114	3	0	1	0	4	3	50	1	0	54	173
10:00:00 AM	3	0	1	0	4	1	85	2	12	100	4	0	1	0	5	3	64	1	1	69	178
10:15:00 AM	2	0	1	0	3	2	89	1	9	101	0	0	2	0	2	3	63	1	0	67	173
Total Volume	9	0	2	0	11	6	381	6	43	436	9	0	7	0	16	9	231	4	1	245	708
% App. Total	81.8	0	18.2	0		1.4	87.4	1.4	9.9		56.2	0	43.8	0		3.7	94.3	1.6	0.4		
PHF	.750	.000	.500	.000	.688	.750	.899	.750	.827	.901	.563	.000	.583	.000	.800	.750	.902	1.00	.250	.888	.962



Quality Counts, LLC

920 Blairhill Rd, STE B106
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File Name : 14580502 - Jefferson Colony Rd & Fairview Rd

Site Code : 14580502

Start Date : 12/12/2017

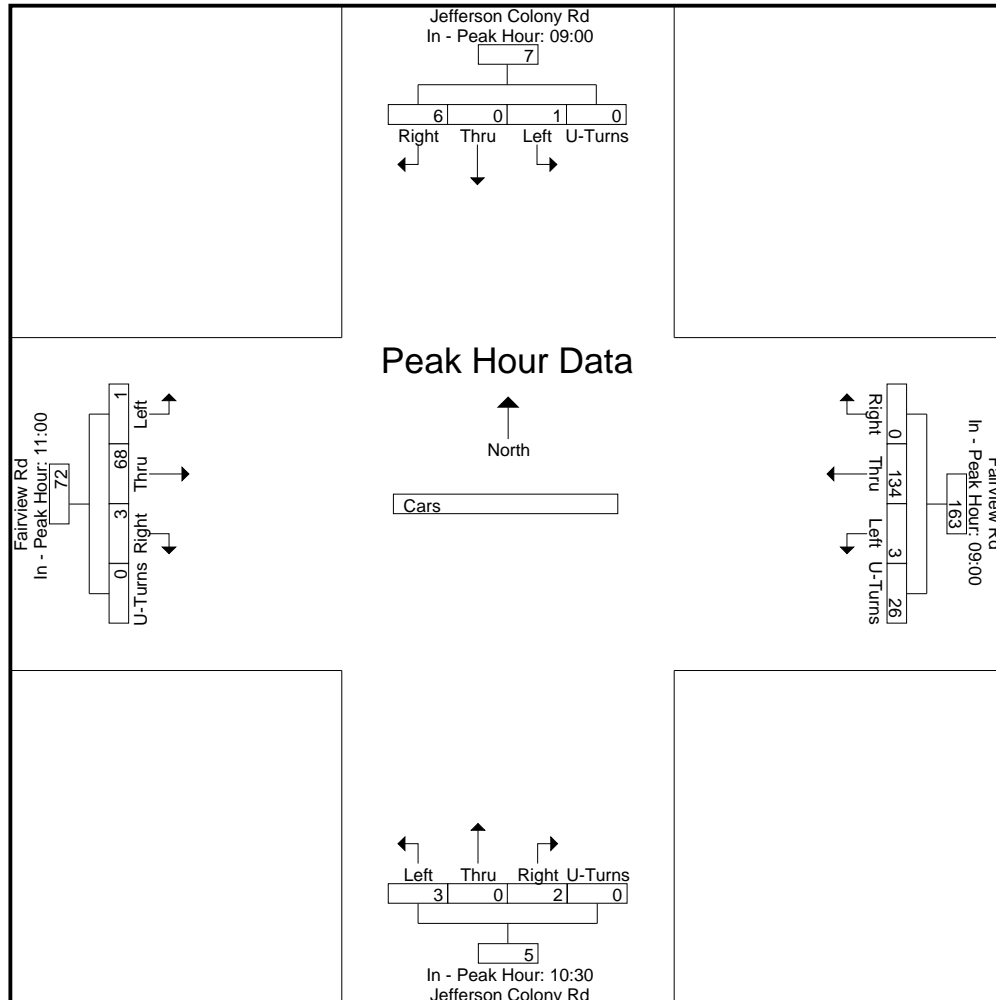
Page No : 4

	Jefferson Colony Rd Southbound					Fairview Rd Westbound					Jefferson Colony Rd Northbound					Fairview Rd Eastbound					
Start Time	Right	Thru	Left	U-Turns	App. Total	Right	Thru	Left	U-Turns	App. Total	Right	Thru	Left	U-Turns	App. Total	Right	Thru	Left	U-Turns	App. Total	Int. Total

Peak Hour Analysis From 9:00:00 AM to 11:45:00 AM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

	9:00:00 AM					9:00:00 AM					10:30:00 AM					11:00:00 AM				
+0 mins.	5	0	1	0	6	0	99	2	22	123	1	0	5	0	6	4	54	1	0	59
+5 mins.	4	0	1	0	5	2	89	1	9	101	0	0	1	0	1	0	66	3	0	69
+10 mins.	3	0	0	0	3	1	106	1	13	121	6	0	2	0	8	2	77	0	0	79
+15 mins.	1	0	0	0	1	2	101	2	9	114	1	1	4	0	6	5	70	1	0	76
Total Volume	13	0	2	0	15	5	395	6	53	459	8	1	12	0	21	11	267	5	0	283
% App. Total	86.7	0	13.3	0		1.1	86.1	1.3	11.5		38.1	4.8	57.1	0		3.9	94.3	1.8	0	
PHF	.650	.000	.500	.000	.625	.625	.932	.750	.602	.933	.333	.250	.600	.000	.656	.550	.867	.417	.000	.896



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Charlotte, NC 28217

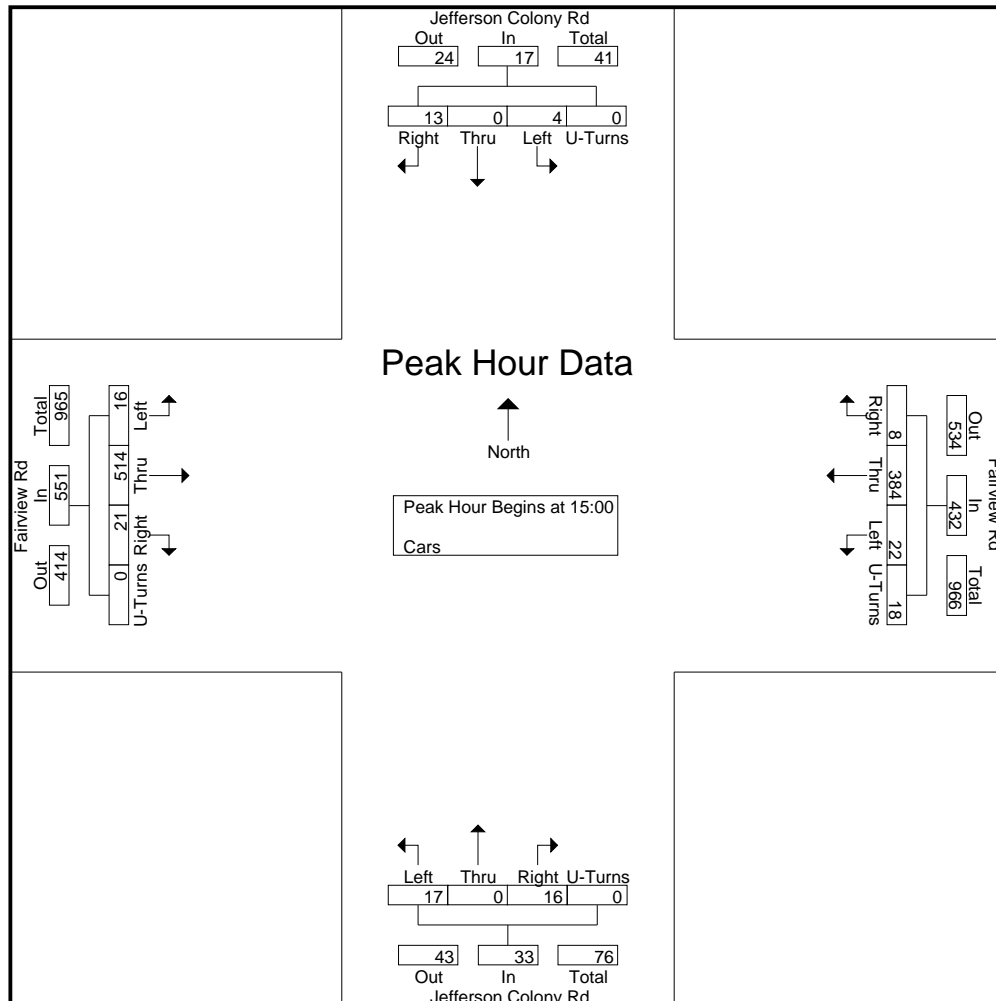
File Name : 14580502 - Jefferson Colony Rd & Fairview Rd

Site Code : 14580502

Start Date : 12/12/2017

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	Jefferson Colony Rd Southbound					Fairview Rd Westbound					Jefferson Colony Rd Northbound					Fairview Rd Eastbound					
Start Time	Right	Thru	Left	U-Turns	App. Total	Right	Thru	Left	U-Turns	App. Total	Right	Thru	Left	U-Turns	App. Total	Right	Thru	Left	U-Turns	App. Total	Int. Total
Peak Hour Analysis From 12:00:00 PM to 3:45:00 PM - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 3:00:00 PM																					
3:00:00 PM	3	0	0	0	3	2	90	5	7	104	6	0	3	0	9	3	110	2	0	115	231
3:15:00 PM	5	0	1	0	6	3	98	5	6	112	3	0	7	0	10	6	123	6	0	135	263
3:30:00 PM	4	0	3	0	7	1	98	3	1	103	3	0	3	0	6	7	147	6	0	160	276
3:45:00 PM	1	0	0	0	1	2	98	9	4	113	4	0	4	0	8	5	134	2	0	141	263
Total Volume	13	0	4	0	17	8	384	22	18	432	16	0	17	0	33	21	514	16	0	551	1033
% App. Total	76.5	0	23.5	0		1.9	88.9	5.1	4.2		48.5	0	51.5	0		3.8	93.3	2.9	0		
PHF	.650	.000	.333	.000	.607	.667	.980	.611	.643	.956	.667	.000	.607	.000	.825	.750	.874	.667	.000	.861	.936



Quality Counts, LLC

920 Blairhill Rd, STE B106
Charlotte, NC 28217

File Name : 14580502 - Jefferson Colony Rd & Fairview Rd

Site Code : 14580502

Start Date : 12/12/2017

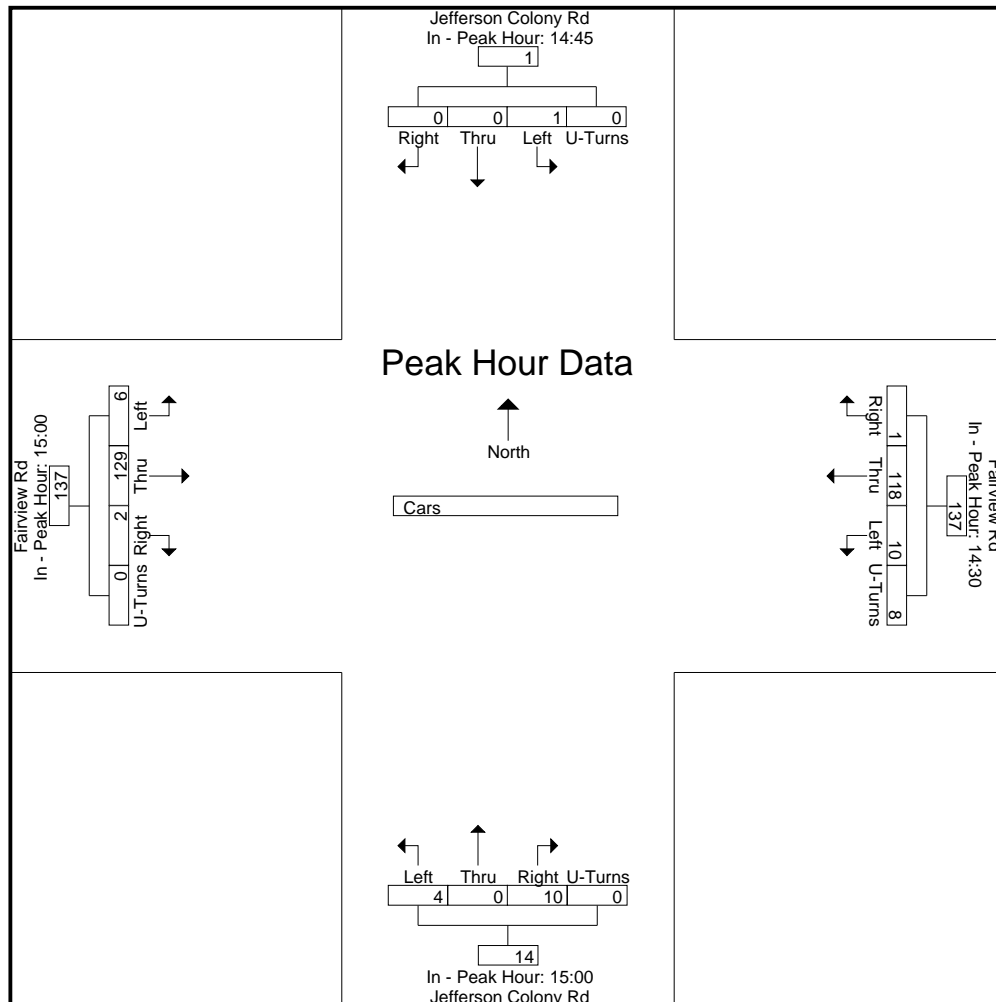
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	Jefferson Colony Rd Southbound					Fairview Rd Westbound					Jefferson Colony Rd Northbound					Fairview Rd Eastbound					
Start Time	Right	Thru	Left	U-Turns	App. Total	Right	Thru	Left	U-Turns	App. Total	Right	Thru	Left	U-Turns	App. Total	Right	Thru	Left	U-Turns	App. Total	Int. Total

Peak Hour Analysis From 12:00:00 PM to 3:45:00 PM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

	2:45:00 PM					2:30:00 PM					3:00:00 PM					3:00:00 PM				
+0 mins.	3	0	3	0	6	4	90	4	9	107	6	0	3	0	9	3	110	2	0	115
+5 mins.	3	0	0	0	3	1	104	8	11	124	3	0	7	0	10	6	123	6	0	135
+10 mins.	5	0	1	0	6	2	90	5	7	104	3	0	3	0	6	7	147	6	0	160
+15 mins.	4	0	3	0	7	3	98	5	6	112	4	0	4	0	8	5	134	2	0	141
Total Volume	15	0	7	0	22	10	382	22	33	447	16	0	17	0	33	21	514	16	0	551
% App. Total	68.2	0	31.8	0		2.2	85.5	4.9	7.4		48.5	0	51.5	0		3.8	93.3	2.9	0	
PHF	.750	.000	.583	.000	.786	.625	.918	.688	.750	.901	.667	.000	.607	.000	.825	.750	.874	.667	.000	.861



Quality Counts, LLC

920 Blairhill Rd, STE B106
Charlotte, NC 28217

File Name : 14580502 - Jefferson Colony Rd & Fairview Rd

Site Code : 14580502

Start Date : 12/12/2017

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Groups Printed- Heavy Vehicles

	Jefferson Colony Rd Southbound					Fairview Rd Westbound					Jefferson Colony Rd Northbound					Fairview Rd Eastbound						
Start Time	Right	Thru	Left	U-Turns	App. Total	Right	Thru	Left	U-Turns	App. Total	Right	Thru	Left	U-Turns	App. Total	Right	Thru	Left	U-Turns	App. Total	Int. Total	
09:00	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	2	1	0	0	3	4
09:15	0	0	1	0	1	0	5	0	0	5	0	0	0	0	0	0	1	0	0	0	1	7
09:30	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	0	2	0	0	0	2	4
09:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	1	0	4	4	
Total	0	0	1	0	1	0	8	0	0	8	0	0	0	0	0	1	7	2	0	10	19	
10:00	1	0	0	0	1	0	5	0	0	5	0	0	0	0	0	0	7	0	0	0	7	13
10:15	0	0	0	0	0	0	3	0	0	3	0	0	1	0	1	0	2	0	0	0	2	6
10:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	0	0	0	4	4
10:45	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	0	6	0	0	0	6	8
Total	1	0	0	0	1	0	10	0	0	10	0	0	1	0	1	1	18	0	0	0	19	31
11:00	0	0	0	0	0	0	3	0	0	3	0	0	1	0	1	0	1	0	0	0	1	5
11:15	0	0	0	0	0	0	3	0	0	3	0	0	0	0	0	0	2	0	0	0	2	5
11:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	2	2
11:45	0	0	1	0	1	1	5	0	0	6	0	0	0	0	0	0	2	1	0	0	3	10
Total	0	0	1	0	1	1	11	0	0	12	0	0	1	0	1	0	7	1	0	0	8	22
12:00	0	0	1	0	1	0	4	0	0	4	0	0	0	0	0	0	5	0	0	0	5	10
12:15	0	0	0	0	0	0	3	0	0	3	0	0	0	0	0	0	4	0	0	0	4	7
12:30	0	0	0	0	0	0	4	0	0	4	0	0	0	0	0	1	3	0	0	0	4	8
12:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	2	2
Total	0	0	1	0	1	0	11	0	0	11	0	0	0	0	0	1	14	0	0	0	15	27
13:00	0	0	0	0	0	0	1	0	0	1	1	0	1	0	2	0	1	0	0	0	1	4
13:15	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	2	0	0	0	2	3
13:30	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	0	2	0	0	0	2	4
13:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	2	2
Total	0	0	0	0	0	0	4	0	0	4	1	0	1	0	2	0	7	0	0	0	7	13
14:00	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	0	1	0	0	0	1	3
14:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1
14:30	0	0	0	0	0	0	3	0	0	3	0	0	0	0	0	0	6	0	0	0	6	9
14:45	0	0	0	0	0	0	3	0	0	3	0	0	0	0	0	0	2	0	0	0	2	5
Total	0	0	0	0	0	0	8	0	0	8	0	0	0	0	0	0	10	0	0	0	10	18
15:00	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	0	1	0	0	0	1	3
15:15	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	4	0	0	0	4	5
15:30	0	0	1	0	1	0	4	0	0	4	0	0	0	0	0	0	6	1	0	0	7	12
15:45	0	0	0	0	0	0	8	0	0	8	0	0	0	0	0	0	3	0	0	0	3	11
Total	0	0	1	0	1	0	15	0	0	15	0	0	0	0	0	0	14	1	0	0	15	31
Grand Total	1	0	4	0	5	1	67	0	0	68	1	0	3	0	4	3	77	4	0	0	84	161
Apprch %	20	0	80	0		1.5	98.5	0	0		25	0	75	0		3.6	91.7	4.8	0			
Total %	0.6	0	2.5	0	3.1	0.6	41.6	0	0	42.2	0.6	0	1.9	0	2.5	1.9	47.8	2.5	0	52.2		

Quality Counts, LLC

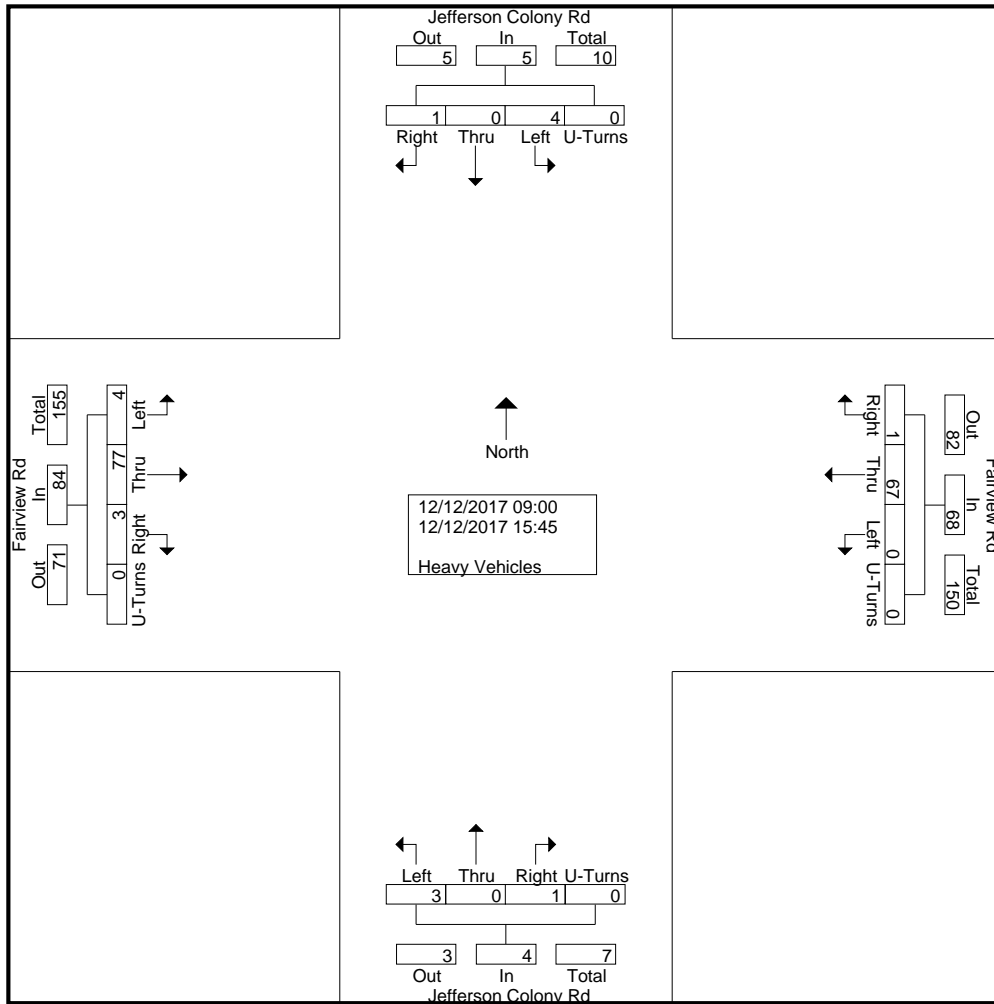
920 Blairhill Rd, STE B106
Charlotte, NC 28217

File Name : 14580502 - Jefferson Colony Rd & Fairview Rd

Site Code : 14580502

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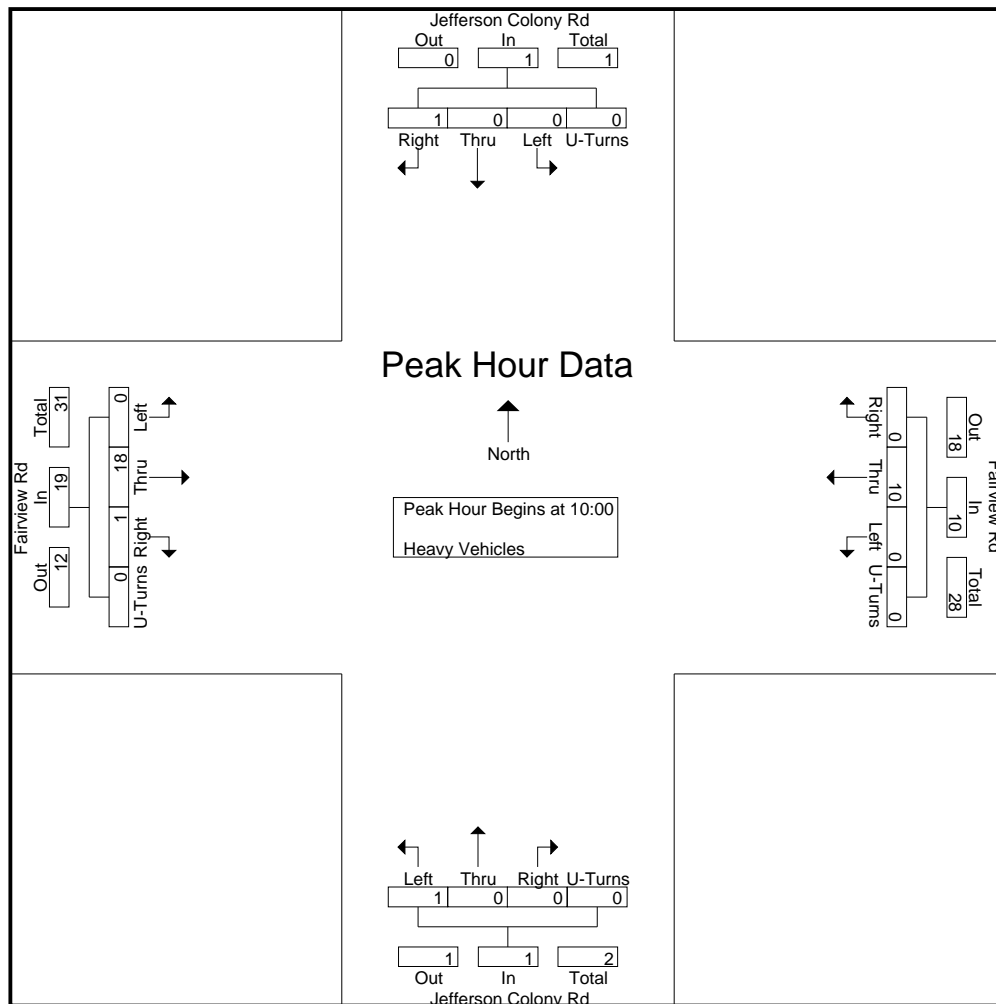
File Name : 14580502 - Jefferson Colony Rd & Fairview Rd

Site Code : 14580502

Start Date : 12/12/2017

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	Jefferson Colony Rd Southbound					Fairview Rd Westbound					Jefferson Colony Rd Northbound					Fairview Rd Eastbound					
Start Time	Right	Thru	Left	U-Turns	App. Total	Right	Thru	Left	U-Turns	App. Total	Right	Thru	Left	U-Turns	App. Total	Right	Thru	Left	U-Turns	App. Total	Int. Total
Peak Hour Analysis From 9:00:00 AM to 11:45:00 AM - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 10:00:00 AM																					
10:00:00 AM	1	0	0	0	1	0	5	0	0	5	0	0	0	0	0	0	7	0	0	7	13
10:15:00 AM	0	0	0	0	0	0	3	0	0	3	0	0	1	0	1	0	2	0	0	2	6
10:30:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	0	0	4	4
10:45:00 AM	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	0	6	0	0	6	8
Total Volume	1	0	0	0	1	0	10	0	0	10	0	0	1	0	1	1	18	0	0	19	31
% App. Total	100	0	0	0		0	100	0	0		0	0	100	0		5.3	94.7	0	0		
PHF	.250	.000	.000	.000	.250	.000	.500	.000	.000	.500	.000	.000	.250	.000	.250	.250	.643	.000	.000	.679	.596



Quality Counts, LLC

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File Name : 14580502 - Jefferson Colony Rd & Fairview Rd

Site Code : 14580502

Start Date : 12/12/2017

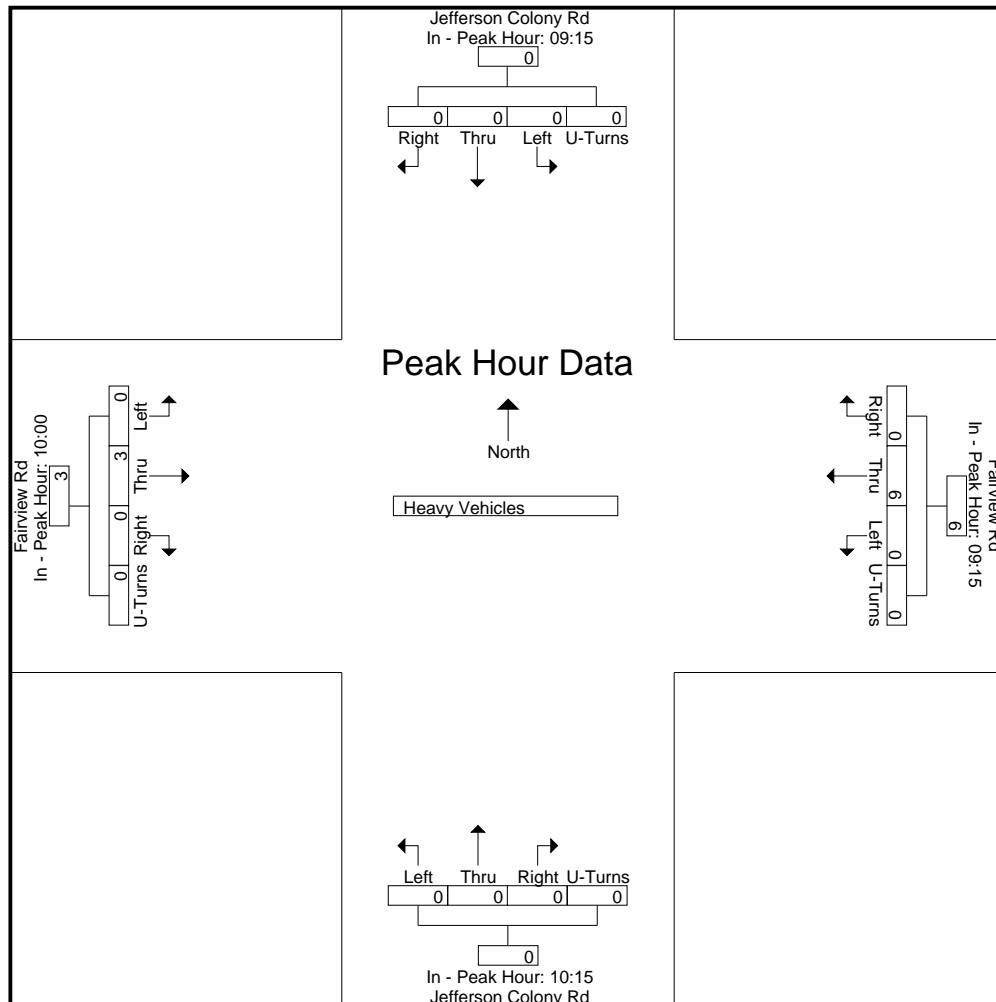
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	Jefferson Colony Rd Southbound					Fairview Rd Westbound					Jefferson Colony Rd Northbound					Fairview Rd Eastbound					
Start Time	Right	Thru	Left	U-Turns	App. Total	Right	Thru	Left	U-Turns	App. Total	Right	Thru	Left	U-Turns	App. Total	Right	Thru	Left	U-Turns	App. Total	Int. Total

Peak Hour Analysis From 9:00:00 AM to 11:45:00 AM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

	9:15:00 AM					9:15:00 AM					10:15:00 AM					10:00:00 AM				
+0 mins.	0	0	1	0	1	0	5	0	0	5	0	0	1	0	1	0	7	0	0	7
+5 mins.	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	0	2	0	0	2
+10 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	0	0	4
+15 mins.	1	0	0	0	1	0	5	0	0	5	0	0	1	0	1	0	6	0	0	6
Total Volume	1	0	1	0	2	0	12	0	0	12	0	0	2	0	2	1	18	0	0	19
% App. Total	50	0	50	0		0	100	0	0		0	0	100	0		5.3	94.7	0	0	
PHF	.250	.000	.250	.000	.500	.000	.600	.000	.000	.600	.000	.000	.500	.000	.500	.250	.643	.000	.000	.679



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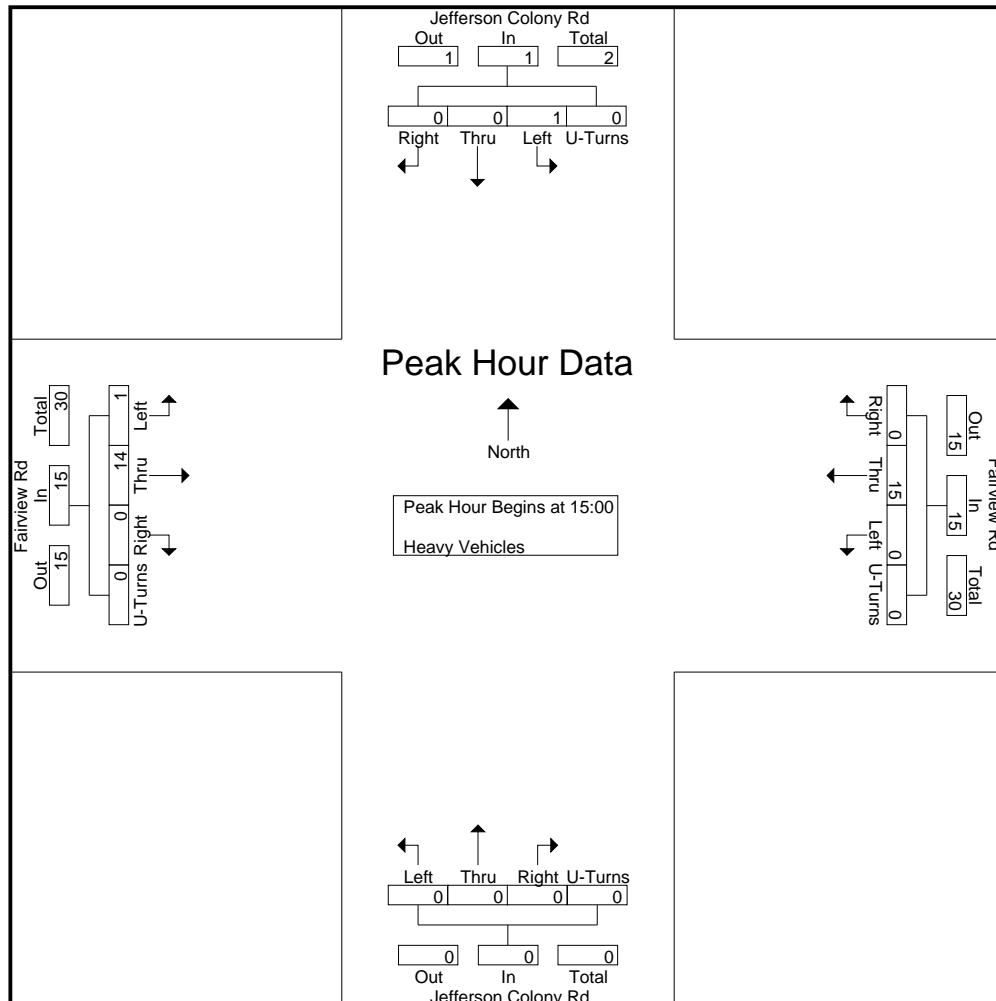
File Name : 14580502 - Jefferson Colony Rd & Fairview Rd

Site Code : 14580502

Start Date : 12/12/2017

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	Jefferson Colony Rd Southbound					Fairview Rd Westbound					Jefferson Colony Rd Northbound					Fairview Rd Eastbound					
Start Time	Right	Thru	Left	U-Turns	App. Total	Right	Thru	Left	U-Turns	App. Total	Right	Thru	Left	U-Turns	App. Total	Right	Thru	Left	U-Turns	App. Total	Int. Total
Peak Hour Analysis From 12:00:00 PM to 3:45:00 PM - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 3:00:00 PM																					
3:00:00 PM	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	0	1	0	0	1	3
3:15:00 PM	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	4	0	0	4	5
3:30:00 PM	0	0	1	0	1	0	4	0	0	4	0	0	0	0	0	0	6	1	0	7	12
3:45:00 PM	0	0	0	0	0	0	8	0	0	8	0	0	0	0	0	0	3	0	0	3	11
Total Volume	0	0	1	0	1	0	15	0	0	15	0	0	0	0	0	0	14	1	0	15	31
% App. Total	0	0	100	0		0	100	0	0		0	0	0	0		0	93.3	6.7	0		
PHF	.000	.000	.250	.000	.250	.000	.469	.000	.000	.469	.000	.000	.000	.000	.000	.000	.583	.250	.000	.536	.646



Quality Counts, LLC

920 Blairhill Rd, STE B106
Charlotte, NC 28217

File Name : 14580502 - Jefferson Colony Rd & Fairview Rd

Site Code : 14580502

Start Date : 12/12/2017

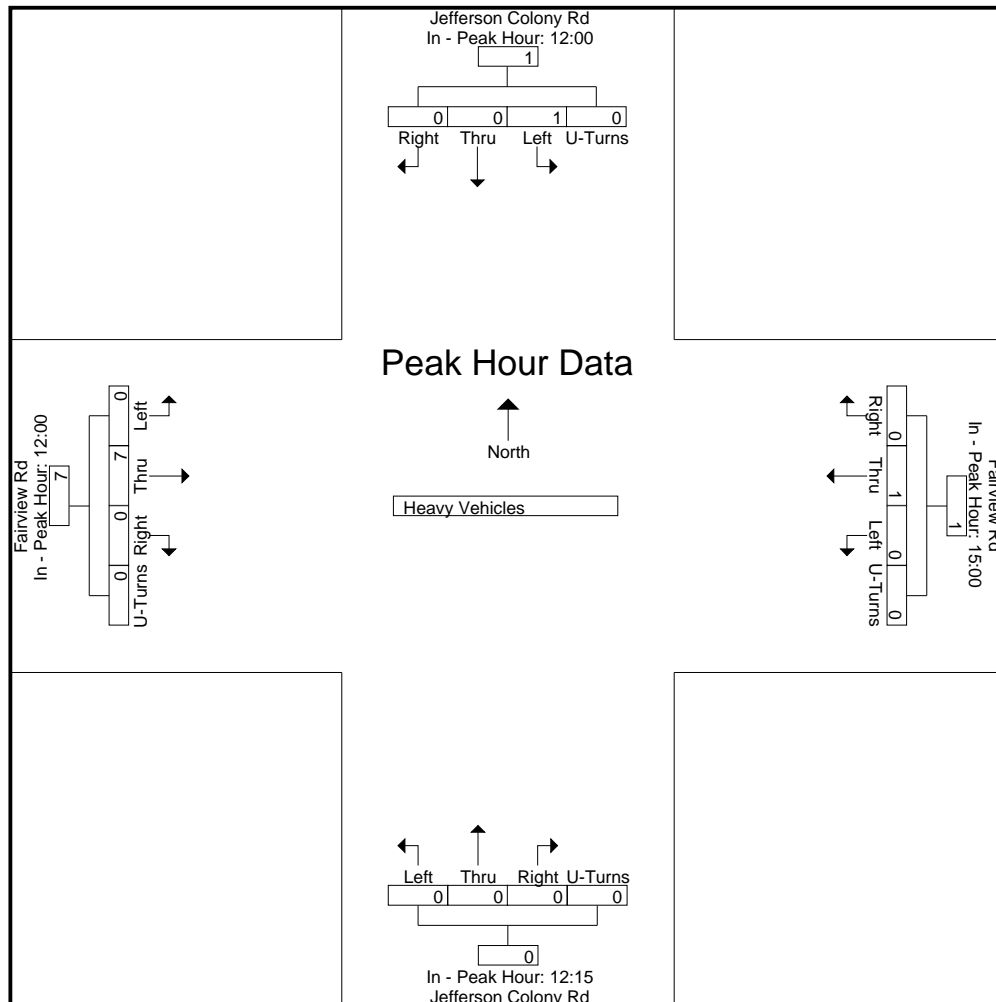
Page No : 6

	Jefferson Colony Rd Southbound					Fairview Rd Westbound					Jefferson Colony Rd Northbound					Fairview Rd Eastbound					
Start Time	Right	Thru	Left	U-Turns	App. Total	Right	Thru	Left	U-Turns	App. Total	Right	Thru	Left	U-Turns	App. Total	Right	Thru	Left	U-Turns	App. Total	Int. Total

Peak Hour Analysis From 12:00:00 PM to 3:45:00 PM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

	12:00:00 PM					3:00:00 PM					12:15:00 PM					12:00:00 PM				
+0 mins.	0	0	1	0	1	0	2	0	0	2	0	0	0	0	0	0	5	0	0	5
+5 mins.	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	4	0	0	4
+10 mins.	0	0	0	0	0	0	4	0	0	4	0	0	0	0	0	1	3	0	0	4
+15 mins.	0	0	0	0	0	0	8	0	0	8	1	0	1	0	2	0	2	0	0	2
Total Volume	0	0	1	0	1	0	15	0	0	15	1	0	1	0	2	1	14	0	0	15
% App. Total	0	0	100	0		0	100	0	0		50	0	50	0		6.7	93.3	0	0	
PHF	.000	.000	.250	.000	.250	.000	.469	.000	.000	.469	.250	.000	.250	.000	.250	.250	.700	.000	.000	.750



Quality Counts, LLC

920 Blairhill Rd, STE B106
Charlotte, NC 28217

File Name : 14580502 - Jefferson Colony Rd & Fairview Rd

Site Code : 14580502

Start Date : 12/12/2017

Page No : 1

Groups Printed- Bikes & Peds

	Jefferson Colony Rd Southbound					Fairview Rd Westbound					Jefferson Colony Rd Northbound					Fairview Rd Eastbound					
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
09:00	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	1
*** BREAK ***																					
09:30	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	1
*** BREAK ***																					
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	0	0	0	0	0	2
10:00	0	0	0	0	0	0	0	0	2	2	0	0	0	1	1	0	0	0	0	0	3
*** BREAK ***																					
10:45	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	2
Total	0	0	0	1	1	0	0	0	2	2	0	0	0	1	1	0	0	0	1	1	5
*** BREAK ***																					
11:15	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	1
*** BREAK ***																					
11:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	1	1	2
12:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1
*** BREAK ***																					
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1
*** BREAK ***																					
14:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1
14:15	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	1
*** BREAK ***																					
14:45	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	1	1	2
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	0	0	0	2	2	4
15:00	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	1
*** BREAK ***																					
15:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	1	1	2
Grand Total	0	0	0	1	1	0	0	0	2	2	0	0	0	7	7	1	0	0	5	6	16
Apprch %	0	0	0	100		0	0	0	100		0	0	0	100		16.7	0	0	83.3		
Total %	0	0	0	6.2	6.2	0	0	0	12.5	12.5	0	0	0	43.8	43.8	6.2	0	0	31.2	37.5	

Quality Counts, LLC

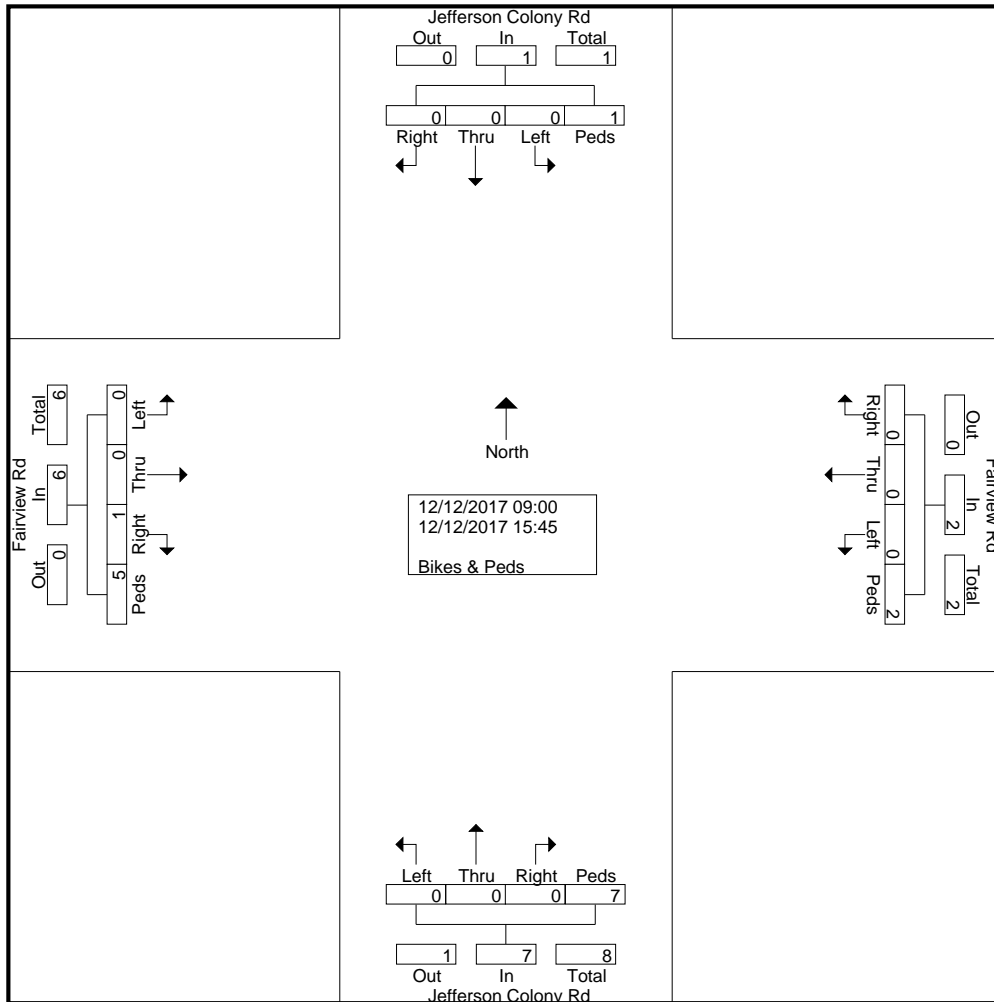
920 Blairhill Rd, STE B106
Charlotte, NC 28217

File Name : 14580502 - Jefferson Colony Rd & Fairview Rd

Site Code : 14580502

Start Date : 12/12/2017

Page No : 2



Quality Counts, LLC

920 Blairhill Rd, STE B106
Charlotte, NC 28217

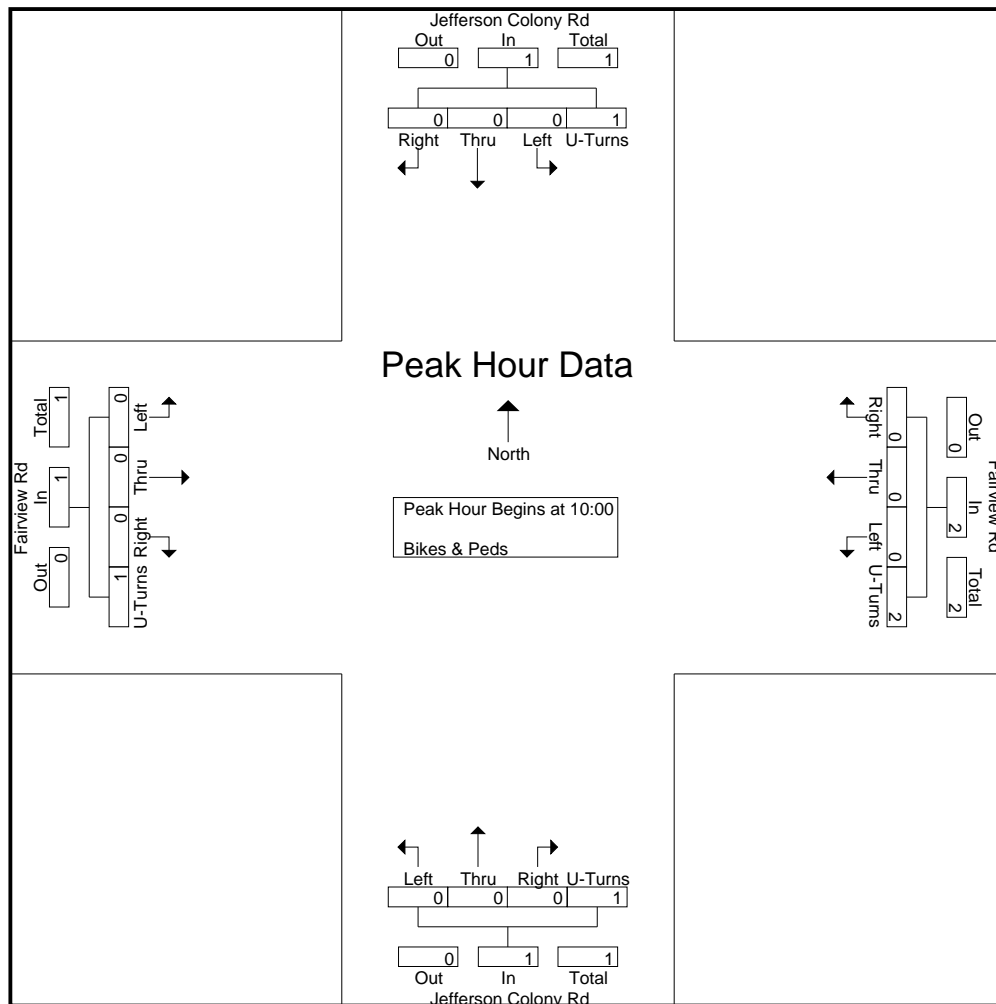
File Name : 14580502 - Jefferson Colony Rd & Fairview Rd

Site Code : 14580502

Start Date : 12/12/2017

Page No : 3

	Jefferson Colony Rd Southbound					Fairview Rd Westbound					Jefferson Colony Rd Northbound					Fairview Rd Eastbound					
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 Analysis From 9:00:00 AM to 11:45:00 AM - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 10:00:00 AM																					
10:00:00 AM	0	0	0	0	0	0	0	0	2	2	0	0	0	1	1	0	0	0	0	0	3
10:15:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10:30:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10:45:00 AM	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	2
Total Volume	0	0	0	1	1	0	0	0	2	2	0	0	0	1	1	0	0	0	1	1	5
% App. Total	0	0	0	100		0	0	0	100		0	0	0	100		0	0	0	100		
PHF	.000	.000	.000	.250	.250	.000	.000	.000	.250	.250	.000	.000	.000	.250	.250	.000	.000	.000	.250	.250	.417



Quality Counts, LLC

920 Blairhill Rd, STE B106
Charlotte, NC 28217

File Name : 14580502 - Jefferson Colony Rd & Fairview Rd

Site Code : 14580502

Start Date : 12/12/2017

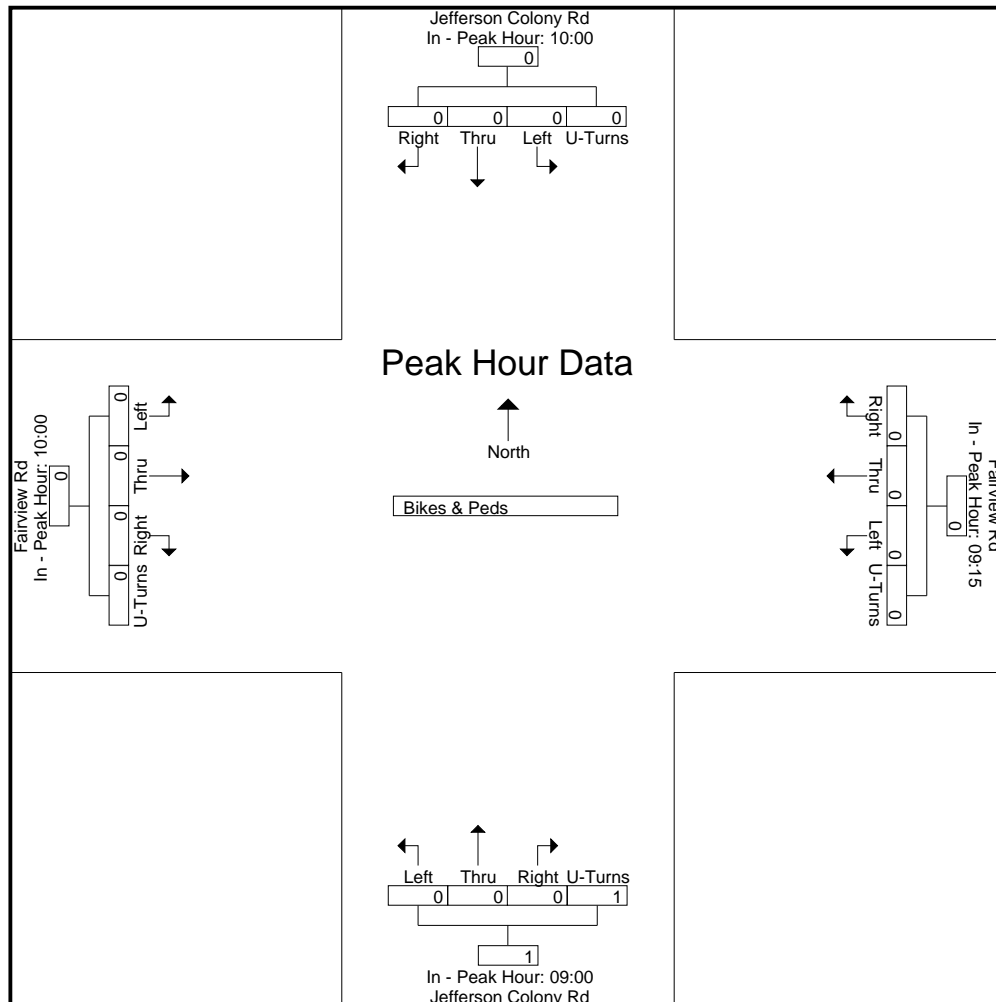
Page No : 4

	Jefferson Colony Rd Southbound					Fairview Rd Westbound					Jefferson Colony Rd Northbound					Fairview Rd Eastbound					
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 Analysis From 9:00:00 AM to 11:45:00 AM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

	10:00:00 AM					9:15:00 AM					9:00:00 AM					10:00:00 AM					
+0 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	
+5 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
+10 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	
+15 mins.	0	0	0	1	1	0	0	0	2	2	0	0	0	0	0	0	0	0	1	1	
Total Volume	0	0	0	1	1	0	0	0	2	2	0	0	0	0	2	2	0	0	0	1	1
% App. Total	0	0	0	100		0	0	0	100		0	0	0	100		0	0	0	100		
PHF	.000	.000	.000	.250	.250	.000	.000	.000	.250	.250	.000	.000	.000	.500	.500	.000	.000	.000	.250	.250	



Quality Counts, LLC

920 Blairhill Rd, STE B106
Charlotte, NC 28217

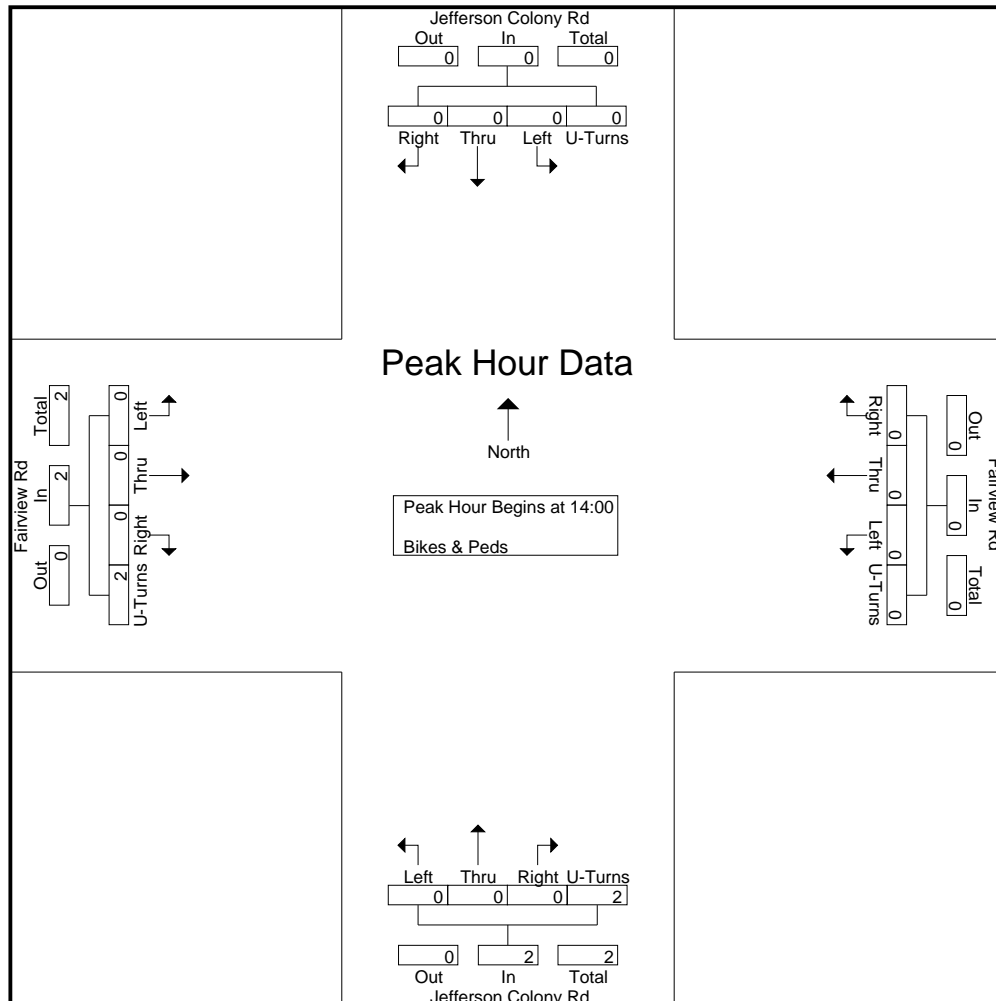
File Name : 14580502 - Jefferson Colony Rd & Fairview Rd

Site Code : 14580502

Start Date : 12/12/2017

Page No : 5

	Jefferson Colony Rd Southbound					Fairview Rd Westbound					Jefferson Colony Rd Northbound					Fairview Rd Eastbound					
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 Analysis From 12:00:00 PM to 3:45:00 PM - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 2:00:00 PM																					
2:00:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1
2:15:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	1
2:30:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2:45:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	1	1	2
Total Volume	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	0	0	0	2	2	4
% App. Total	0	0	0	0	0	0	0	0	0	0	0	0	0	100	100	0	0	0	100	100	100
PHF	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.500	.500	.000	.000	.000	.500	.500	.500



Quality Counts, LLC

920 Blairhill Rd, STE B106
Charlotte, NC 28217

File Name : 14580502 - Jefferson Colony Rd & Fairview Rd

Site Code : 14580502

Start Date : 12/12/2017

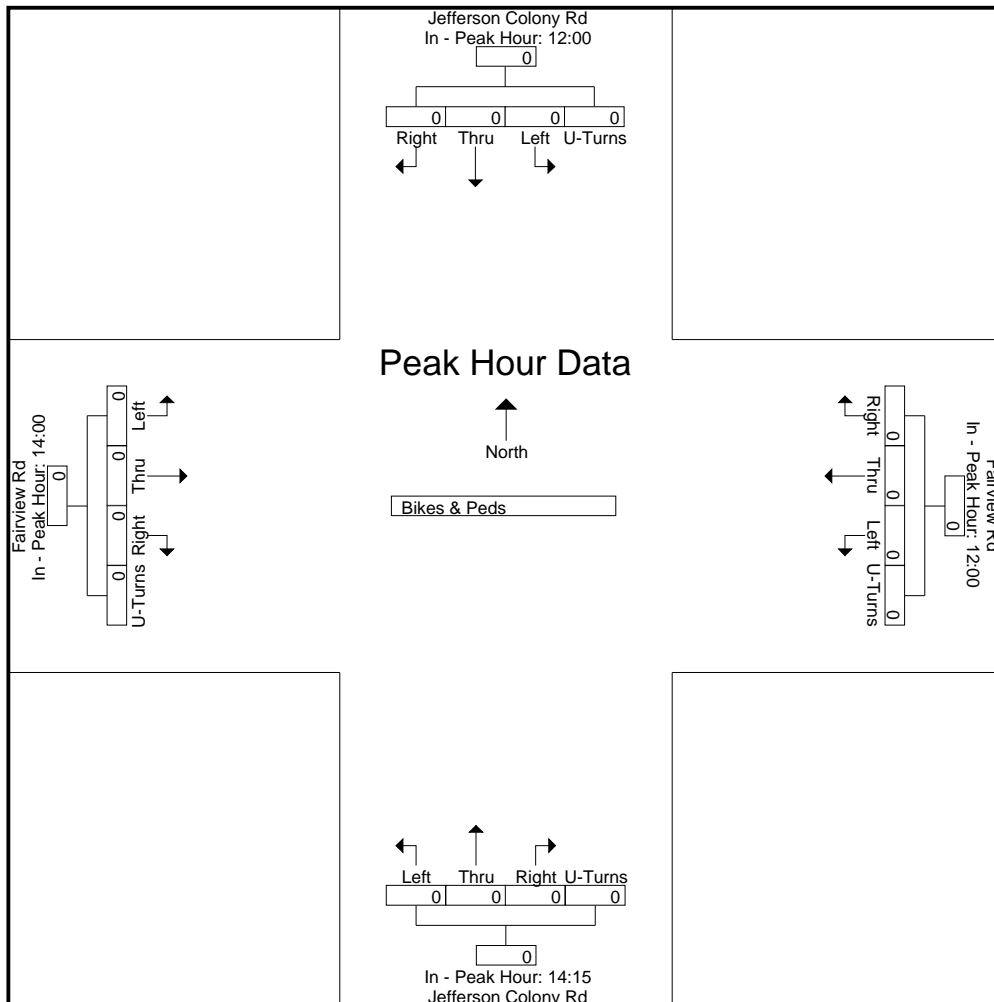
Page No : 6

	Jefferson Colony Rd Southbound					Fairview Rd Westbound					Jefferson Colony Rd Northbound					Fairview Rd Eastbound					
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 Analysis From 12:00:00 PM to 3:45:00 PM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

	12:00:00 PM					12:00:00 PM					2:15:00 PM					2:00:00 PM				
+0 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	1	1
+5 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+10 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0
+15 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	1	1
Total Volume	0	0	0	0	0	0	0	0	0	0	0	0	0	3	3	0	0	0	2	2
% App. Total	0	0	0	0	0	0	0	0	0	0	0	0	0	100		0	0	0	100	
PHF	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.750	.750	.000	.000	.000	.500	.500



Quality Counts, LLC

920 Blairhill Rd, STE B106
Charlotte, NC 28217

File Name : 14580503 - Jefferson Colony Rd & Fairview Rd

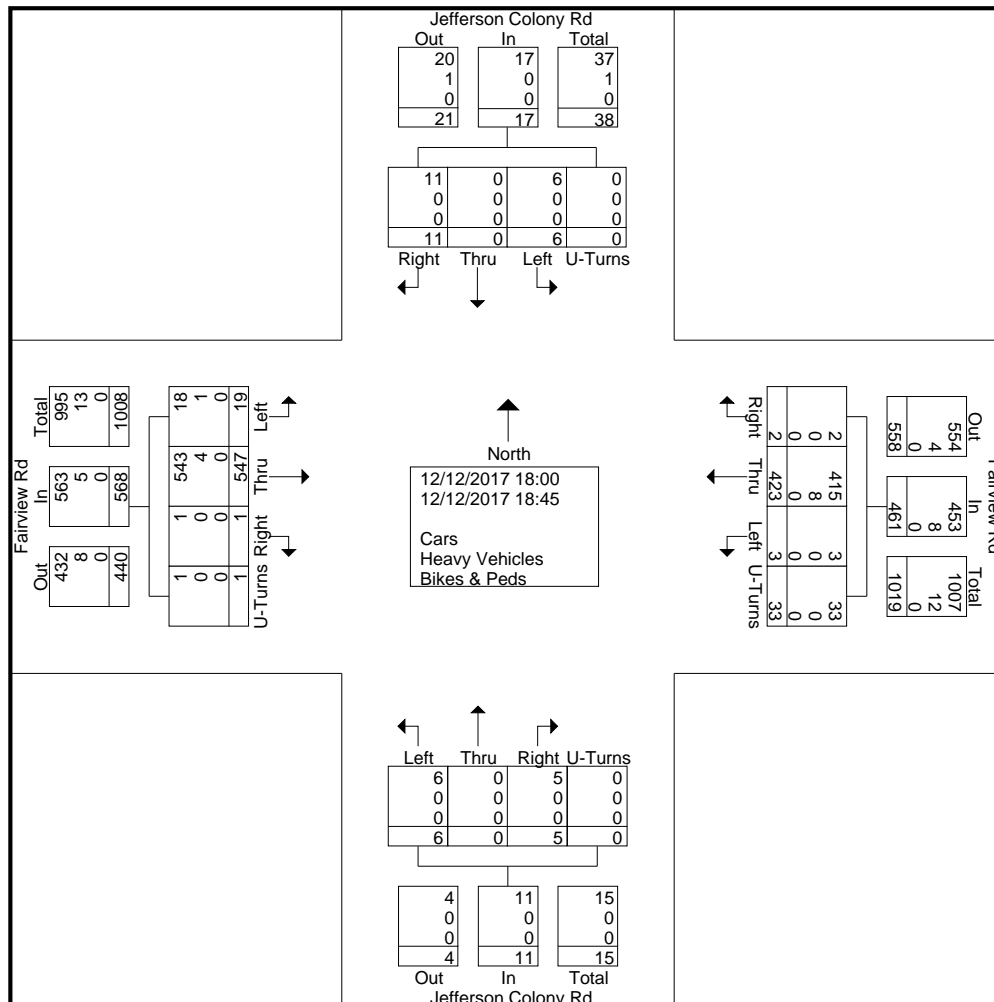
Site Code : 14580503

Start Date : 12/12/2017

Page No : 1

Groups Printed- Cars - Heavy Vehicles - Bikes & Peds

	Jefferson Colony Rd Southbound					Fairview Rd Westbound					Jefferson Colony Rd Northbound					Fairview Rd Eastbound					
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
18:00	2	0	3	0	5	1	126	1	9	137	1	0	1	0	2	0	170	2	0	172	316
18:15	2	0	0	0	2	1	109	2	7	119	4	0	2	0	6	0	135	2	0	137	264
18:30	4	0	2	0	6	0	87	0	9	96	0	0	3	0	3	0	136	8	1	145	250
18:45	3	0	1	0	4	0	101	0	8	109	0	0	0	0	0	1	106	7	0	114	227
Total	11	0	6	0	17	2	423	3	33	461	5	0	6	0	11	1	547	19	1	568	1057
Grand Total	11	0	6	0	17	2	423	3	33	461	5	0	6	0	11	1	547	19	1	568	1057
Apprch %	64.7	0	35.3	0		0.4	91.8	0.7	7.2		45.5	0	54.5	0		0.2	96.3	3.3	0.2		
Total %	1	0	0.6	0	1.6	0.2	40	0.3	3.1	43.6	0.5	0	0.6	0	1	0.1	51.8	1.8	0.1	53.7	
Cars	11	0	6	0	17	2	415	3	33	453	5	0	6	0	11	1	543	18	1	563	1044
% Cars	100	0	100	0	100	100	98.1	100	100	98.3	100	0	100	0	100	100	99.3	94.7	100	99.1	98.8
Heavy Vehicles	0	0	0	0	0	0	8	0	0	8	0	0	0	0	0	0	4	1	0	5	13
% Heavy Vehicles	0	0	0	0	0	0	1.9	0	0	1.7	0	0	0	0	0	0	0.7	5.3	0	0.9	1.2
Bikes & Peds	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% Bikes & Peds	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0



Quality Counts, LLC

920 Blairhill Rd, STE B106
Charlotte, NC 28217

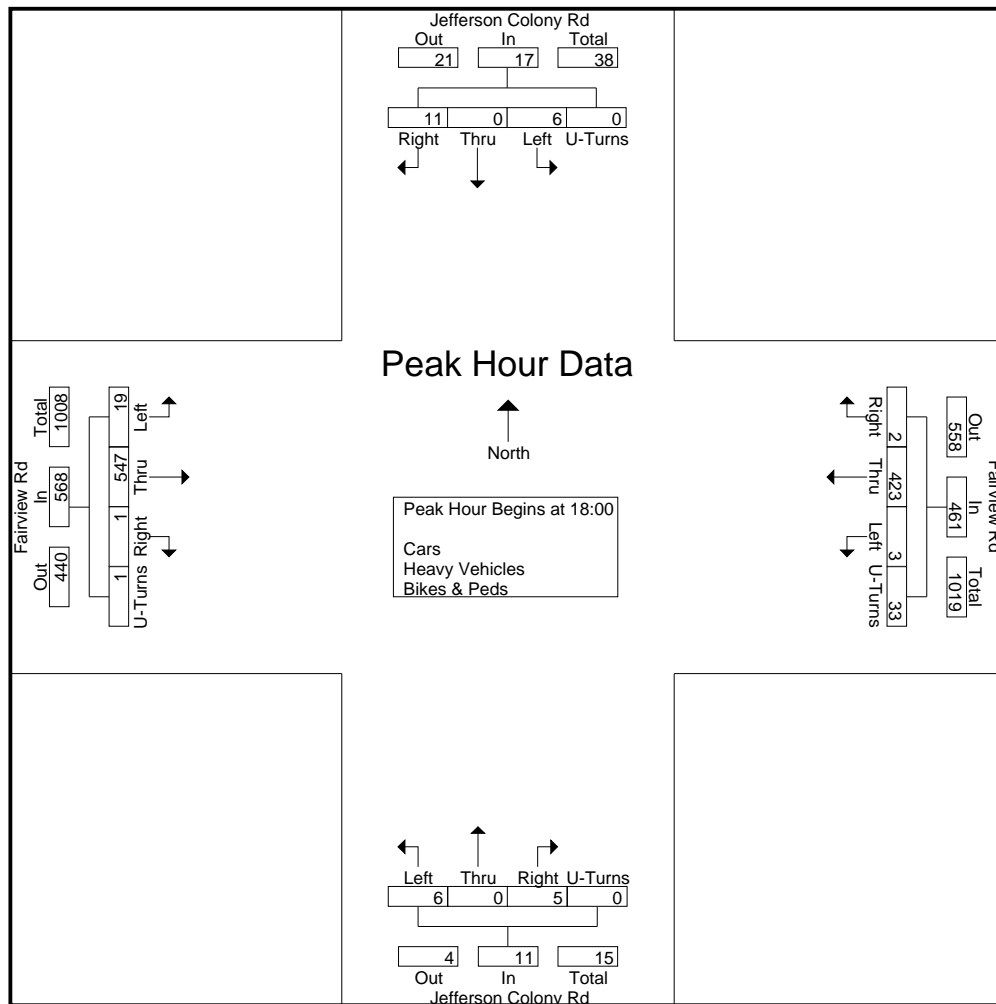
File Name : 14580503 - Jefferson Colony Rd & Fairview Rd

Site Code : 14580503

Start Date : 12/12/2017

Page No : 2

	Jefferson Colony Rd Southbound					Fairview Rd Westbound					Jefferson Colony Rd Northbound					Fairview Rd Eastbound					
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 Analysis From 6:00:00 PM to 6:45:00 PM - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 6:00:00 PM																					
6:00:00 PM	2	0	3	0	5	1	126	1	9	137	1	0	1	0	2	0	170	2	0	172	316
6:15:00 PM	2	0	0	0	2	1	109	2	7	119	4	0	2	0	6	0	135	2	0	137	264
6:30:00 PM	4	0	2	0	6	0	87	0	9	96	0	0	3	0	3	0	136	8	1	145	250
6:45:00 PM	3	0	1	0	4	0	101	0	8	109	0	0	0	0	0	1	106	7	0	114	227
Total Volume	11	0	6	0	17	2	423	3	33	461	5	0	6	0	11	1	547	19	1	568	1057
% App. Total	64.7	0	35.3	0		0.4	91.8	0.7	7.2		45.5	0	54.5	0		0.2	96.3	3.3	0.2		
PHF	.688	.000	.500	.000	.708	.500	.839	.375	.917	.841	.313	.000	.500	.000	.458	.250	.804	.594	.250	.826	.836



Quality Counts, LLC

920 Blairhill Rd, STE B106
Charlotte, NC 28217

File Name : 14580503 - Jefferson Colony Rd & Fairview Rd

Site Code : 14580503

Start Date : 12/12/2017

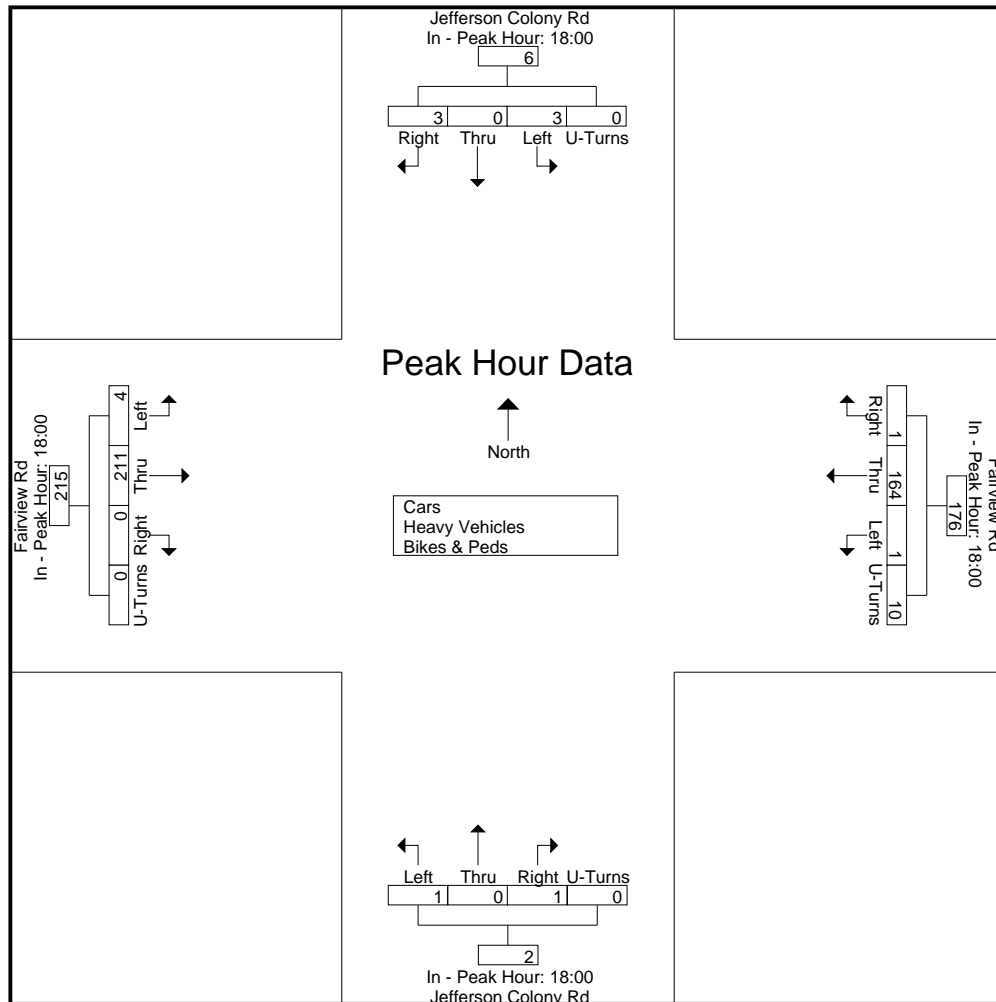
Page No : 3

	Jefferson Colony Rd Southbound					Fairview Rd Westbound					Jefferson Colony Rd Northbound					Fairview Rd Eastbound					
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 Analysis From 6:00:00 PM to 6:45:00 PM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

	6:00:00 PM					6:00:00 PM					6:00:00 PM					6:00:00 PM				
+0 mins.	2	0	3	0	5	1	126	1	9	137	1	0	1	0	2	0	170	2	0	172
+5 mins.	2	0	0	0	2	1	109	2	7	119	4	0	2	0	6	0	135	2	0	137
+10 mins.	4	0	2	0	6	0	87	0	9	96	0	0	3	0	3	0	136	8	1	145
+15 mins.	3	0	1	0	4	0	101	0	8	109	0	0	0	0	0	1	106	7	0	114
Total Volume	11	0	6	0	17	2	423	3	33	461	5	0	6	0	11	1	547	19	1	568
% App. Total	64.7	0	35.3	0		0.4	91.8	0.7	7.2		45.5	0	54.5	0		0.2	96.3	3.3	0.2	
PHF	.688	.000	.500	.000	.708	.500	.839	.375	.917	.841	.313	.000	.500	.000	.458	.250	.804	.594	.250	.826



Quality Counts, LLC

920 Blairhill Rd, STE B106
Charlotte, NC 28217

File Name : 14580503 - Jefferson Colony Rd & Fairview Rd

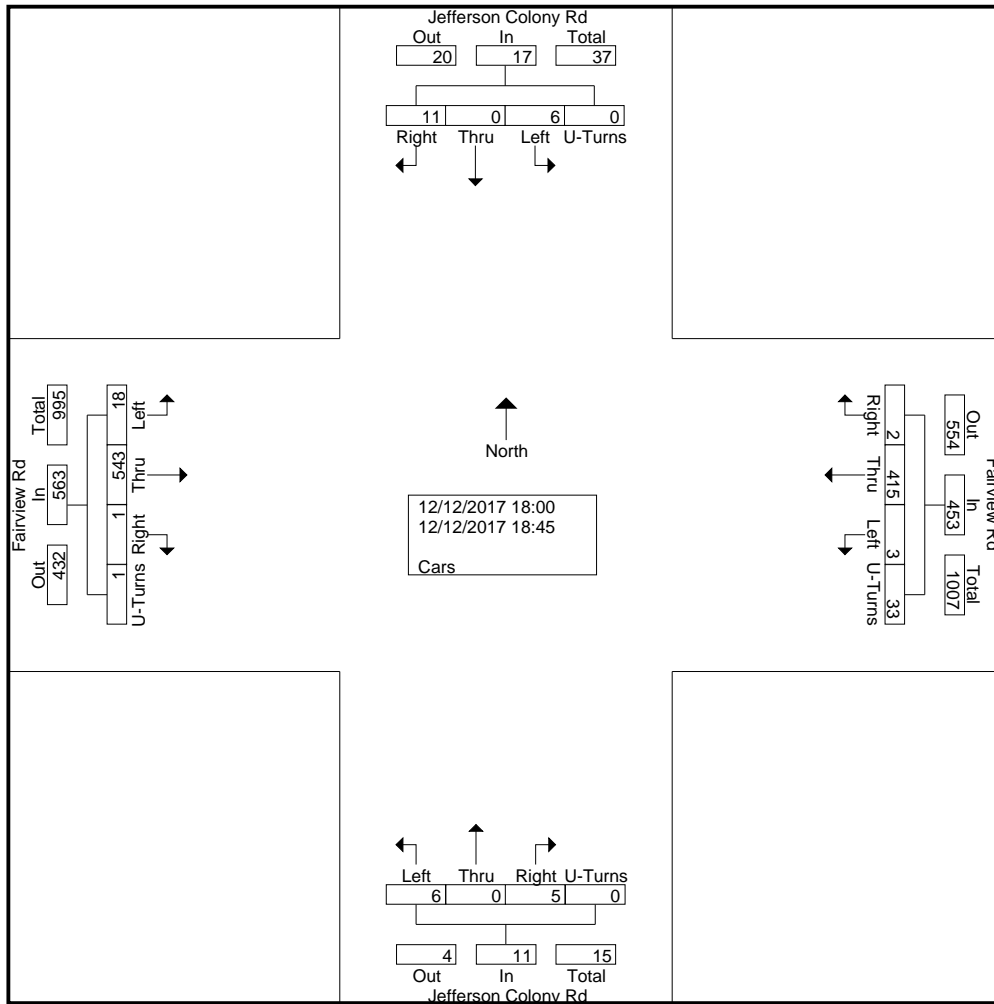
Site Code : 14580503

Start Date : 12/12/2017

Page No : 1

Groups Printed- Cars

	Jefferson Colony Rd Southbound					Fairview Rd Westbound					Jefferson Colony Rd Northbound					Fairview Rd Eastbound					
Start Time	Right	Thru	Left	U-Turns	App. Total	Right	Thru	Left	U-Turns	App. Total	Right	Thru	Left	U-Turns	App. Total	Right	Thru	Left	U-Turns	App. Total	Int. Total
18:00	2	0	3	0	5	1	124	1	9	135	1	0	1	0	2	0	169	2	0	171	313
18:15	2	0	0	0	2	1	105	2	7	115	4	0	2	0	6	0	134	2	0	136	259
18:30	4	0	2	0	6	0	86	0	9	95	0	0	3	0	3	0	135	7	1	143	247
18:45	3	0	1	0	4	0	100	0	8	108	0	0	0	0	0	1	105	7	0	113	225
Total	11	0	6	0	17	2	415	3	33	453	5	0	6	0	11	1	543	18	1	563	1044
Grand Total	11	0	6	0	17	2	415	3	33	453	5	0	6	0	11	1	543	18	1	563	1044
Apprch %	64.7	0	35.3	0		0.4	91.6	0.7	7.3		45.5	0	54.5	0		0.2	96.4	3.2	0.2		
Total %	1.1	0	0.6	0	1.6	0.2	39.8	0.3	3.2	43.4	0.5	0	0.6	0	1.1	0.1	52	1.7	0.1	53.9	



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920 Blairhill Rd, STE B106
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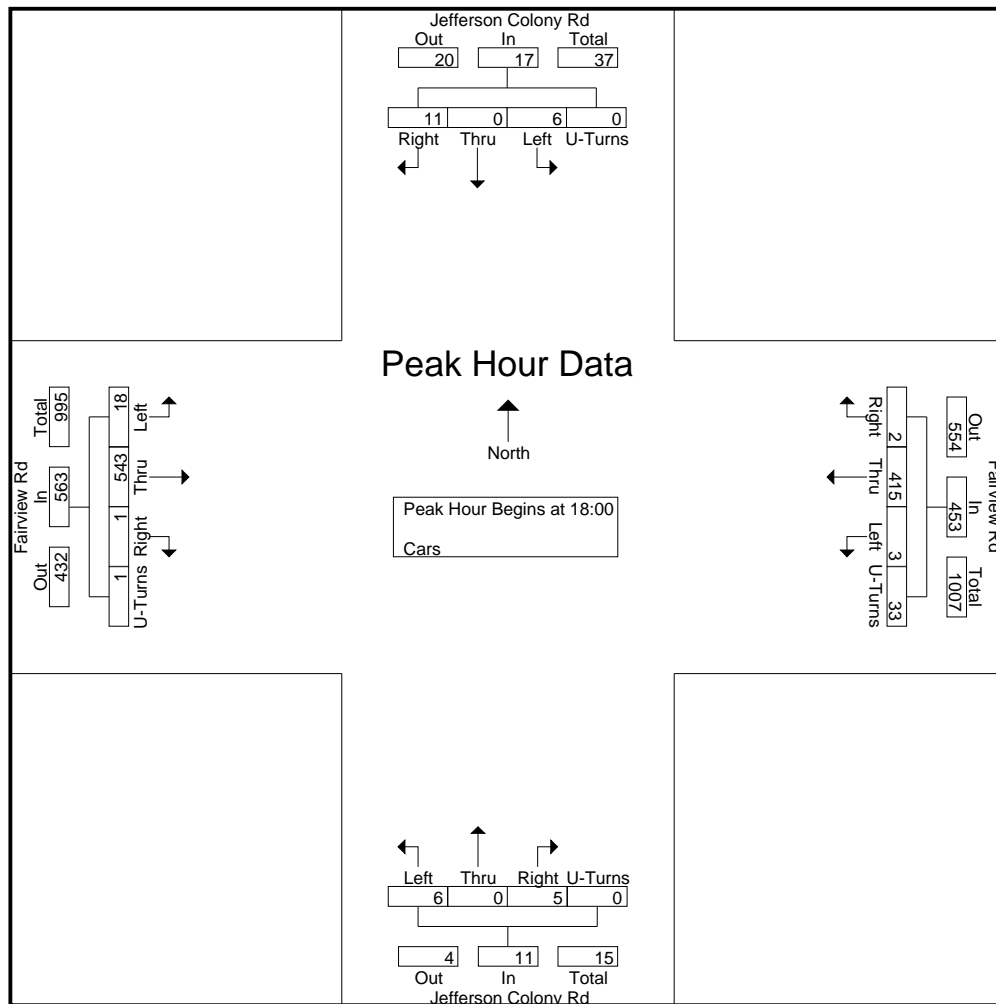
File Name : 14580503 - Jefferson Colony Rd & Fairview Rd

Site Code : 14580503

Start Date : 12/12/2017

Page No : 2

	Jefferson Colony Rd Southbound					Fairview Rd Westbound					Jefferson Colony Rd Northbound					Fairview Rd Eastbound					
Start Time	Right	Thru	Left	U-Turns	App. Total	Right	Thru	Left	U-Turns	App. Total	Right	Thru	Left	U-Turns	App. Total	Right	Thru	Left	U-Turns	App. Total	Int. Total
Peak Hour Analysis From 6:00:00 PM to 6:45:00 PM - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 6:00:00 PM																					
6:00:00 PM	2	0	3	0	5	1	124	1	9	135	1	0	1	0	2	0	169	2	0	171	313
6:15:00 PM	2	0	0	0	2	1	105	2	7	115	4	0	2	0	6	0	134	2	0	136	259
6:30:00 PM	4	0	2	0	6	0	86	0	9	95	0	0	3	0	3	0	135	7	1	143	247
6:45:00 PM	3	0	1	0	4	0	100	0	8	108	0	0	0	0	0	1	105	7	0	113	225
Total Volume	11	0	6	0	17	2	415	3	33	453	5	0	6	0	11	1	543	18	1	563	1044
% App. Total	64.7	0	35.3	0		0.4	91.6	0.7	7.3		45.5	0	54.5	0		0.2	96.4	3.2	0.2		
PHF	.688	.000	.500	.000	.708	.500	.837	.375	.917	.839	.313	.000	.500	.000	.458	.250	.803	.643	.250	.823	.834



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920 Blairhill Rd, STE B106
Charlotte, NC 28217

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Site Code : 14580503

Start Date : 12/12/2017

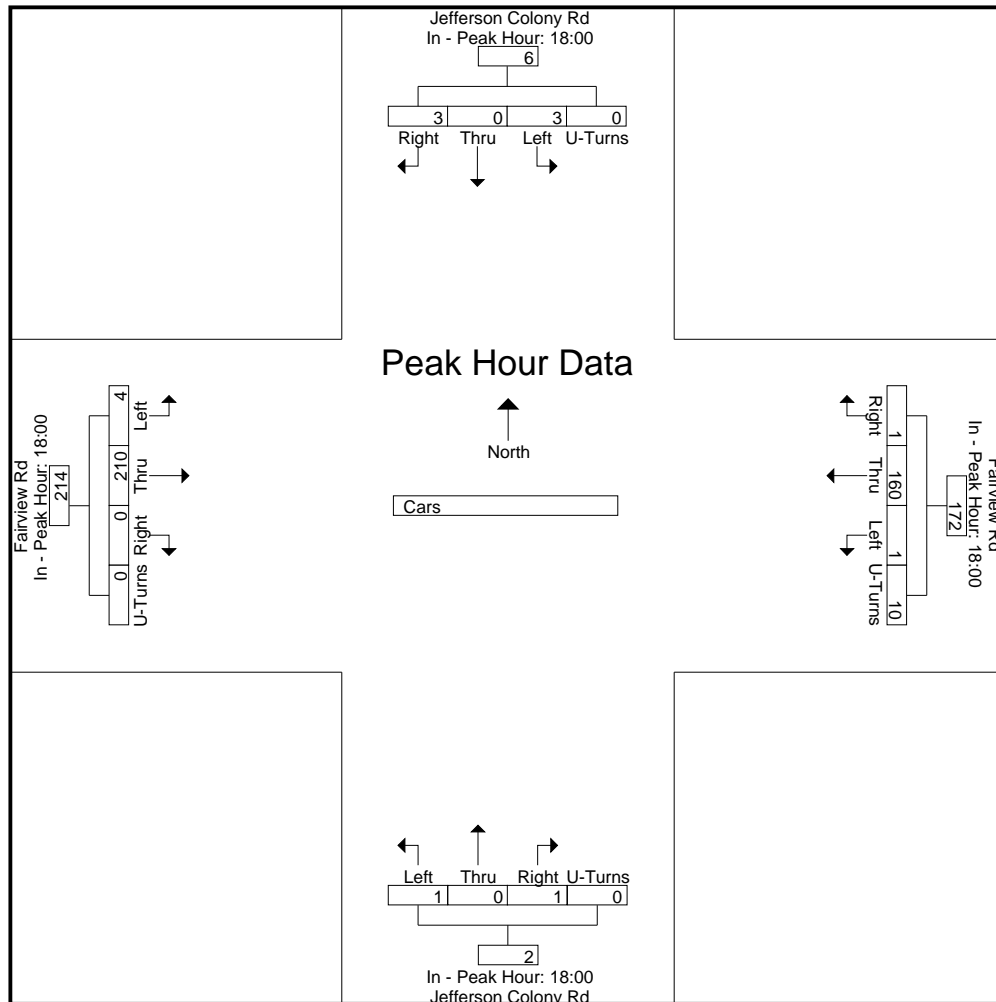
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	Jefferson Colony Rd Southbound					Fairview Rd Westbound					Jefferson Colony Rd Northbound					Fairview Rd Eastbound					
Start Time	Right	Thru	Left	U-Turns	App. Total	Right	Thru	Left	U-Turns	App. Total	Right	Thru	Left	U-Turns	App. Total	Right	Thru	Left	U-Turns	App. Total	Int. Total

Peak Hour Analysis From 6:00:00 PM to 6:45:00 PM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

	6:00:00 PM					6:00:00 PM					6:00:00 PM					6:00:00 PM				
+0 mins.	2	0	3	0	5	1	124	1	9	135	1	0	1	0	2	0	169	2	0	171
+5 mins.	2	0	0	0	2	1	105	2	7	115	4	0	2	0	6	0	134	2	0	136
+10 mins.	4	0	2	0	6	0	86	0	9	95	0	0	3	0	3	0	135	7	1	143
+15 mins.	3	0	1	0	4	0	100	0	8	108	0	0	0	0	0	1	105	7	0	113
Total Volume	11	0	6	0	17	2	415	3	33	453	5	0	6	0	11	1	543	18	1	563
% App. Total	64.7	0	35.3	0		0.4	91.6	0.7	7.3		45.5	0	54.5	0		0.2	96.4	3.2	0.2	
PHF	.688	.000	.500	.000	.708	.500	.837	.375	.917	.839	.313	.000	.500	.000	.458	.250	.803	.643	.250	.823



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920 Blairhill Rd, STE B106
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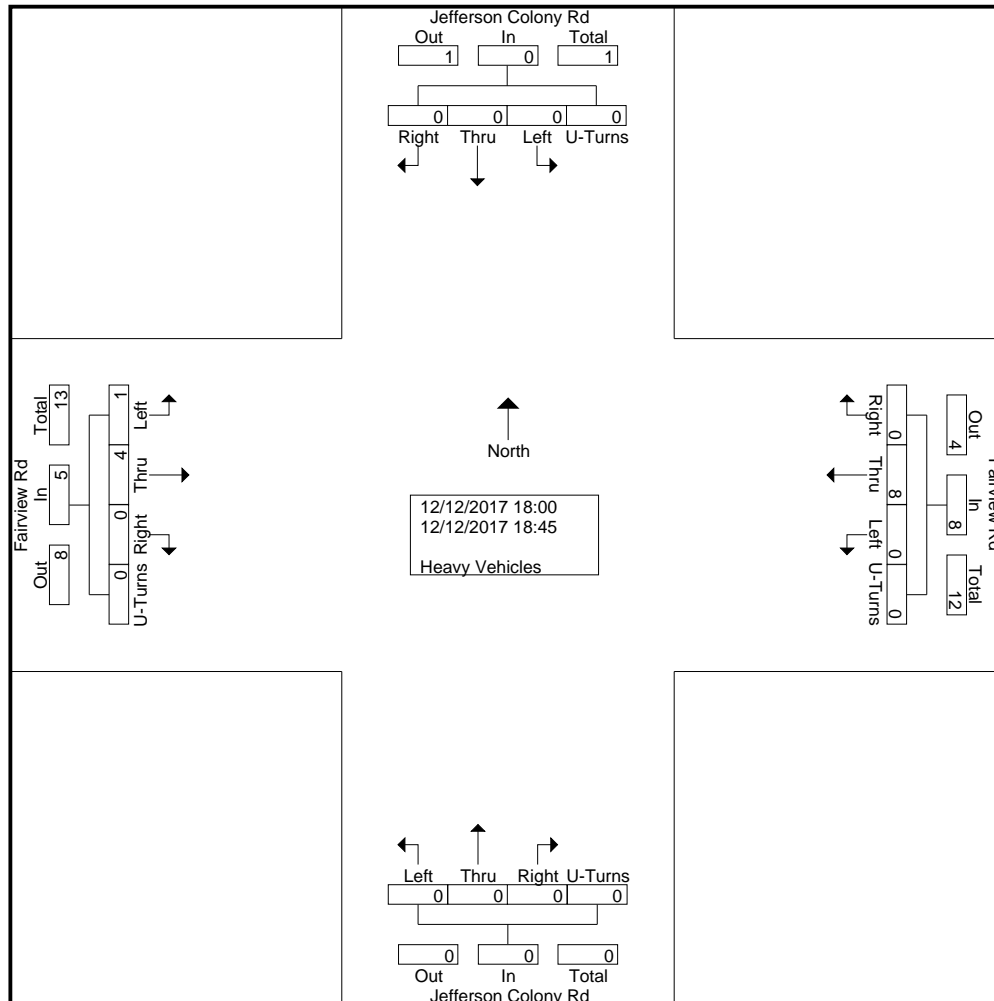
Site Code : 14580503

Start Date : 12/12/2017

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Groups Printed- Heavy Vehicles

	Jefferson Colony Rd Southbound					Fairview Rd Westbound					Jefferson Colony Rd Northbound					Fairview Rd Eastbound						
Start Time	Right	Thru	Left	U-Turns	App. Total	Right	Thru	Left	U-Turns	App. Total	Right	Thru	Left	U-Turns	App. Total	Right	Thru	Left	U-Turns	App. Total	Int. Total	
18:00	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	0	1	0	0	0	1	3
18:15	0	0	0	0	0	0	4	0	0	4	0	0	0	0	0	0	1	0	0	0	1	5
18:30	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	1	1	0	0	2	3
18:45	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	1	0	0	0	1	2
Total	0	0	0	0	0	0	8	0	0	8	0	0	0	0	0	0	4	1	0	0	5	13
Grand Total	0	0	0	0	0	0	8	0	0	8	0	0	0	0	0	0	4	1	0	0	5	13
Apprch %	0	0	0	0	0	0	100	0	0		0	0	0	0	0	0	80	20	0			
Total %	0	0	0	0	0	0	61.5	0	0	61.5	0	0	0	0	0	0	30.8	7.7	0	0	38.5	



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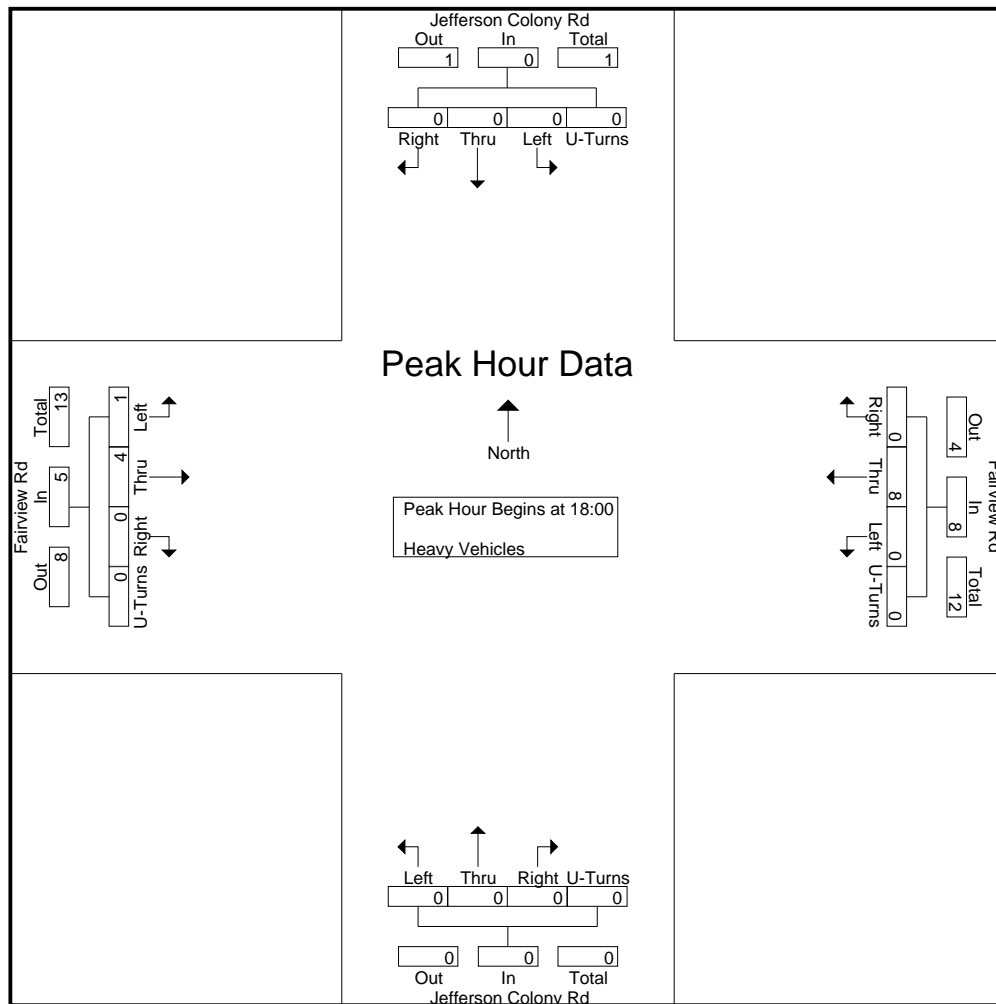
File Name : 14580503 - Jefferson Colony Rd & Fairview Rd

Site Code : 14580503

Start Date : 12/12/2017

Page No : 2

	Jefferson Colony Rd Southbound					Fairview Rd Westbound					Jefferson Colony Rd Northbound					Fairview Rd Eastbound					
Start Time	Right	Thru	Left	U-Turns	App. Total	Right	Thru	Left	U-Turns	App. Total	Right	Thru	Left	U-Turns	App. Total	Right	Thru	Left	U-Turns	App. Total	Int. Total
Peak Hour Analysis From 6:00:00 PM to 6:45:00 PM - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 6:00:00 PM																					
6:00:00 PM	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	0	1	0	0	1	3
6:15:00 PM	0	0	0	0	0	0	4	0	0	4	0	0	0	0	0	0	1	0	0	1	5
6:30:00 PM	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	1	1	0	2	3
6:45:00 PM	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	1	0	0	1	2
Total Volume	0	0	0	0	0	0	8	0	0	8	0	0	0	0	0	0	4	1	0	5	13
% App. Total	0	0	0	0	0	0	100	0	0	100	0	0	0	0	0	0	80	20	0	0	100
PHF	.000	.000	.000	.000	.000	.000	.500	.000	.000	.500	.000	.000	.000	.000	.000	.000	1.00	.250	.000	.625	.650



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920 Blairhill Rd, STE B106
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Start Date : 12/12/2017

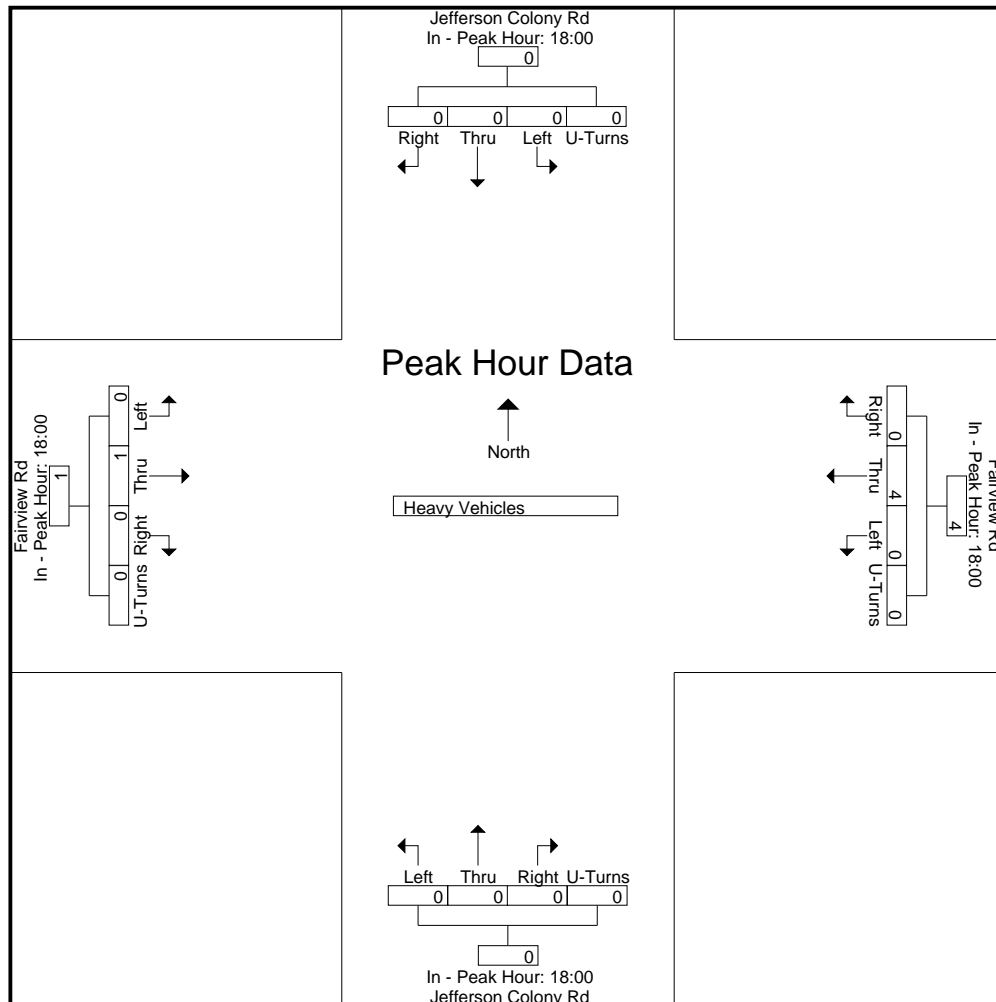
Page No : 3

	Jefferson Colony Rd Southbound					Fairview Rd Westbound					Jefferson Colony Rd Northbound					Fairview Rd Eastbound					
Start Time	Right	Thru	Left	U-Turns	App. Total	Right	Thru	Left	U-Turns	App. Total	Right	Thru	Left	U-Turns	App. Total	Right	Thru	Left	U-Turns	App. Total	Int. Total

Peak Hour Analysis From 6:00:00 PM to 6:45:00 PM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

	6:00:00 PM					6:00:00 PM					6:00:00 PM					6:00:00 PM					
+0 mins.	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	0	1	0	0	0	1
+5 mins.	0	0	0	0	0	0	4	0	0	4	0	0	0	0	0	0	1	1	0	0	1
+10 mins.	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	1	1	0	0	2
+15 mins.	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	1	0	0	0	1
Total Volume	0	0	0	0	0	0	8	0	0	8	0	0	0	0	0	0	4	1	0	0	5
% App. Total	0	0	0	0	0	0	100	0	0		0	0	0	0	0	0	80	20	0	0	
PHF	.000	.000	.000	.000	.000	.000	.500	.000	.000	.500	.000	.000	.000	.000	.000	.000	1.000				



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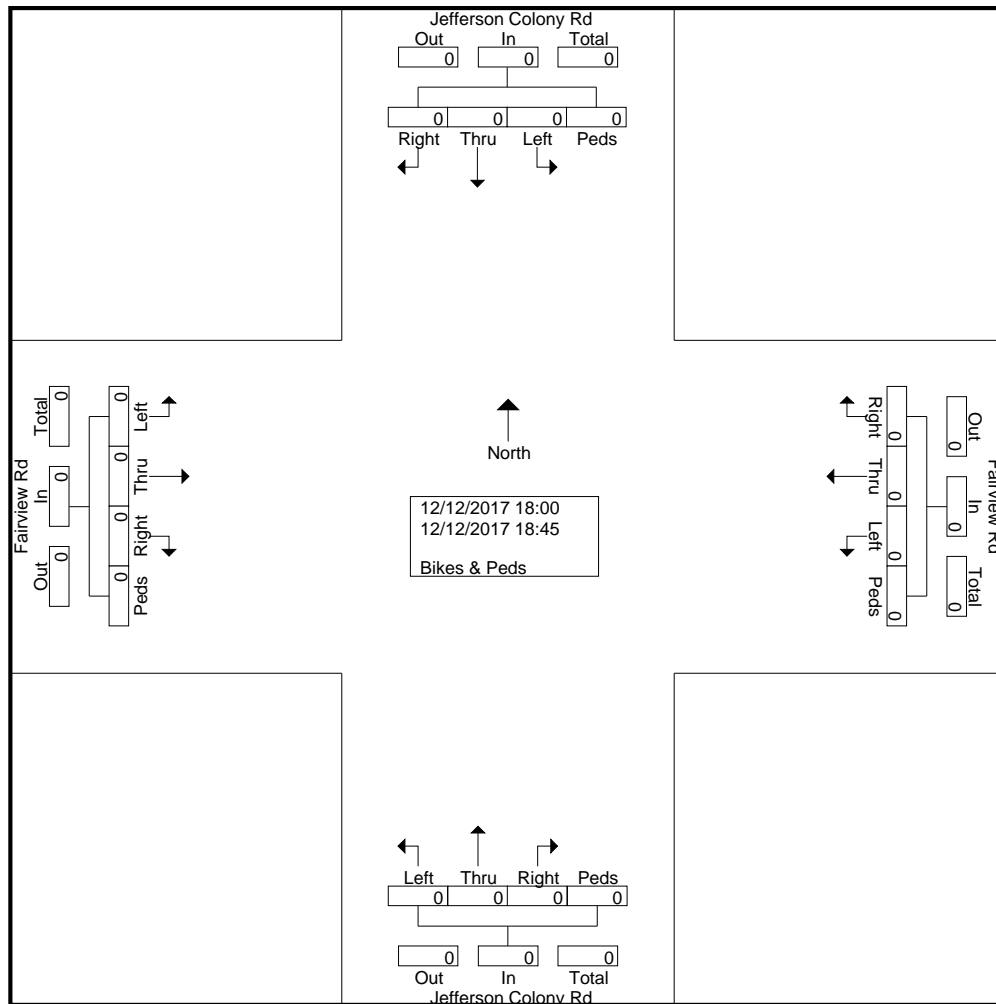
Site Code : 14580503

Start Date : 12/12/2017

Page No : 1

Groups Printed- Bikes & Peds

	Jefferson Colony Rd Southbound					Fairview Rd Westbound					Jefferson Colony Rd Northbound					Fairview Rd Eastbound					
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
*** BREAK ***																					
Grand Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Apprch %	0	0	0	0		0	0	0	0		0	0	0	0		0	0	0	0		
Total %																					



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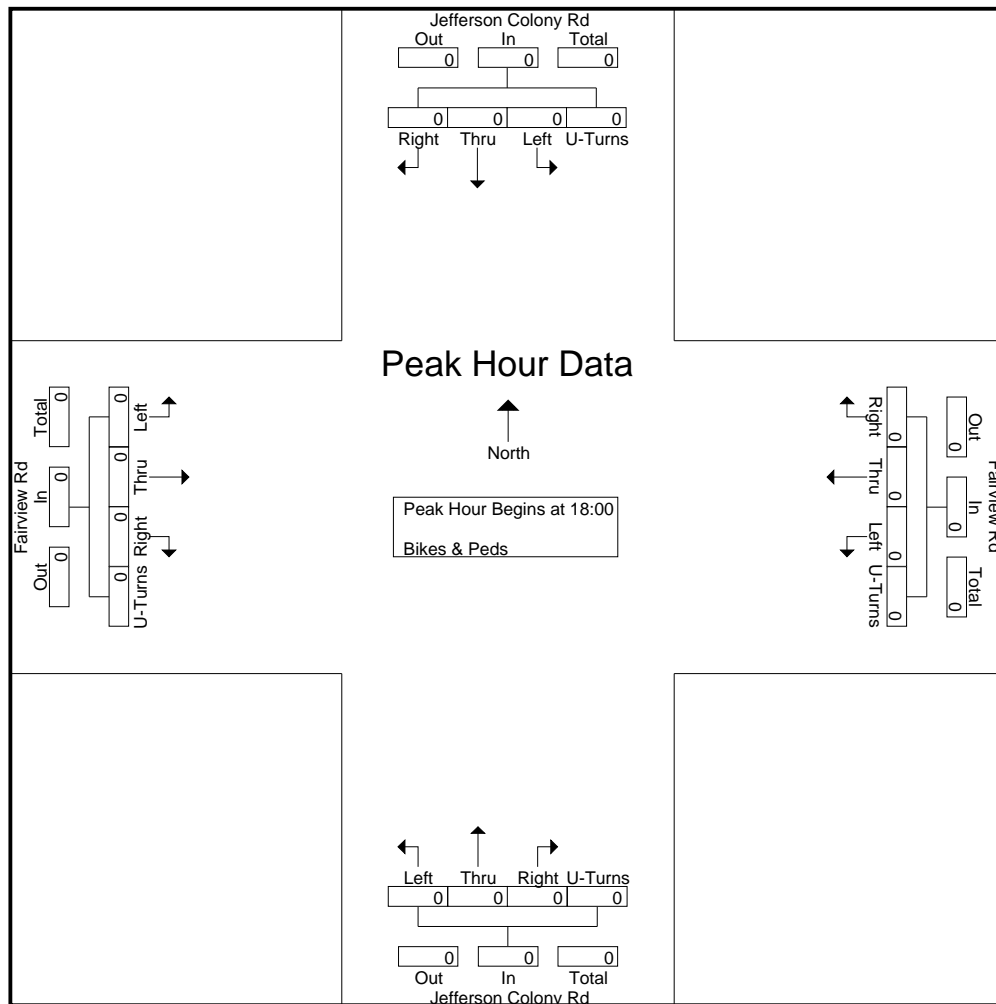
File Name : 14580503 - Jefferson Colony Rd & Fairview Rd

Site Code : 14580503

Start Date : 12/12/2017

Page No : 2

	Jefferson Colony Rd Southbound					Fairview Rd Westbound					Jefferson Colony Rd Northbound					Fairview Rd Eastbound					
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 Analysis From 6:00:00 PM to 6:45:00 PM - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 6:00:00 PM																					
6:00:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6:15:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6:30:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6:45:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Volume	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% App. Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PHF	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000



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Site Code : 14580503

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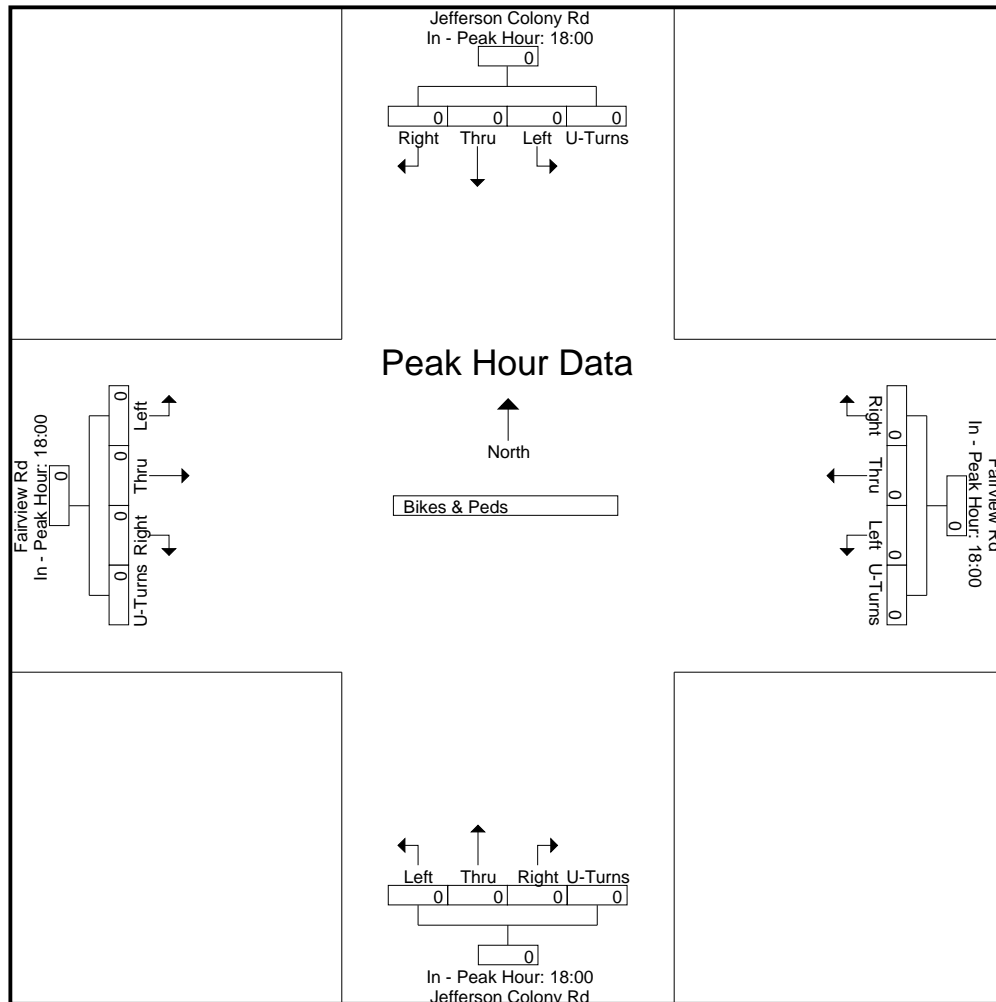
Page No : 3

	Jefferson Colony Rd Southbound					Fairview Rd Westbound					Jefferson Colony Rd Northbound					Fairview Rd Eastbound					
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 Analysis From 6:00:00 PM to 6:45:00 PM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

	6:00:00 PM					6:00:00 PM					6:00:00 PM					6:00:00 PM				
+0 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+5 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+10 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+15 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Volume	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% App. Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PHF	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000










Attachment 3

CAPACITY ANALYSIS AND QUEUE REPORT PRINTOUTS

6: Park Driveway/Jefferson Colony Road & Fairview Road
Cadence at MH TIA

6-7
2023 Build

Intersection												
Int Delay, s/veh	3											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	64	674	1	51	510	6	7	0	6	22	0	43
Future Vol, veh/h	64	674	1	51	510	6	7	0	6	22	0	43
Conflicting Peds, #/hr	1	0	1	1	0	1	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	305	-	-	145	-	0	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	2	-	-	0	-	-	4	-
Peak Hour Factor	84	84	84	84	84	84	84	84	84	84	84	84
Heavy Vehicles, %	0	2	0	2	2	0	0	0	3	0	0	0
Mvmt Flow	76	802	1	61	607	7	8	0	7	26	0	51




















Major/Minor	Major1			Major2			Minor1			Minor2		
Conflicting Flow All	608	0	0	805	0	0	1710	1686	403	1284	1687	608
Stage 1	-	-	-	-	-	-	956	956	-	730	730	-
Stage 2	-	-	-	-	-	-	754	730	-	554	957	-
Critical Hdwy	4.1	-	-	4.13	-	-	7.3	6.5	6.945	8.1	7.3	6.6
Critical Hdwy Stg 1	-	-	-	-	-	-	6.5	5.5	-	6.9	6.3	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.1	5.5	-	7.3	6.3	-
Follow-up Hdwy	2.2	-	-	2.219	-	-	3.5	4.3	3.285	3.5	4	3.3
Pot Cap-1 Maneuver	980	-	-	817	-	-	66	95	595	100	65	467
Stage 1	-	-	-	-	-	-	281	339	-	355	366	-
Stage 2	-	-	-	-	-	-	404	431	-	433	274	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	980	-	-	817	-	-	52	81	594	88	55	467
Mov Cap-2 Maneuver	-	-	-	-	-	-	52	81	-	88	55	-
Stage 1	-	-	-	-	-	-	259	312	-	327	338	-
Stage 2	-	-	-	-	-	-	333	398	-	395	253	-

Approach	EB	WB	NB	SB
HCM Control Delay, s	0.8	0.9	53.1	36.4
HCM LOS			F	E

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1
Capacity (veh/h)	90	980	-	-	817	-	-	190
HCM Lane V/C Ratio	0.172	0.078	-	-	0.074	-	-	0.407
HCM Control Delay (s)	53.1	9	-	-	9.8	-	-	36.4
HCM Lane LOS	F	A	-	-	A	-	-	E
HCM 95th %tile Q(veh)	0.6	0.3	-	-	0.2	-	-	1.8

6: Park Driveway/Jefferson Colony Road & Fairview Road
Cadence at MH TIA

AM Peak Hour
Revised 2023 Build




















												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	27	334	18	122	817	8	14	0	16	50	0	76
Future Volume (veh/h)	27	334	18	122	817	8	14	0	16	50	0	76
Number	5	2	12	1	6	16	3	8	18	7	4	14
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1798	1900	1881	1809	1344	1900	1900	1900	1862	1808	1862
Adj Flow Rate, veh/h	29	359	19	131	878	9	15	0	17	54	0	82
Adj No. of Lanes	1	2	0	1	1	1	0	1	0	0	1	0
Peak Hour Factor	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93
Percent Heavy Veh, %	0	6	6	0	4	40	0	0	0	0	0	0
Cap, veh/h	317	1354	71	644	1123	707	180	33	117	166	15	116
Arrive On Green	0.41	0.41	0.41	0.09	0.62	0.62	0.13	0.00	0.13	0.13	0.00	0.13
Sat Flow, veh/h	636	3300	174	1791	1809	1139	538	254	897	475	114	894
Grp Volume(v), veh/h	29	185	193	131	878	9	32	0	0	136	0	0
Grp Sat Flow(s),veh/h/ln	636	1708	1766	1791	1809	1139	1689	0	0	1483	0	0
Q Serve(g_s), s	1.7	3.5	3.5	1.8	17.2	0.1	0.0	0.0	0.0	3.1	0.0	0.0
Cycle Q Clear(g_c), s	8.8	3.5	3.5	1.8	17.2	0.1	0.8	0.0	0.0	4.2	0.0	0.0
Prop In Lane	1.00		0.10	1.00		1.00	0.47		0.53	0.40		0.60
Lane Grp Cap(c), veh/h	317	701	725	644	1123	707	329	0	0	297	0	0
V/C Ratio(X)	0.09	0.26	0.27	0.20	0.78	0.01	0.10	0.00	0.00	0.46	0.00	0.00
Avail Cap(c_a), veh/h	452	1064	1100	825	1690	1064	687	0	0	651	0	0
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	0.00	1.00	0.00	0.00
Uniform Delay (d), s/veh	13.7	9.4	9.4	5.9	6.7	3.5	18.6	0.0	0.0	20.0	0.0	0.0
Incr Delay (d2), s/veh	0.1	0.2	0.2	0.2	1.4	0.0	0.1	0.0	0.0	1.1	0.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.3	1.6	1.7	0.9	8.7	0.0	0.4	0.0	0.0	1.8	0.0	0.0
LnGrp Delay(d),s/veh	13.8	9.6	9.6	6.1	8.1	3.5	18.7	0.0	0.0	21.1	0.0	0.0
LnGrp LOS	B	A	A	A	A	A	B			C		
Approach Vol, veh/h		407			1018			32			136	
Approach Delay, s/veh		9.9			7.8			18.7			21.1	
Approach LOS		A			A			B			C	
Timer	1	2	3	4	5	6	7	8				
Assigned Phs	1	2		4		6		8				
Phs Duration (G+Y+Rc), s	10.1	25.8		12.3		35.9		12.3				
Change Period (Y+Rc), s	6.0	6.0		6.0		6.0		6.0				
Max Green Setting (Gmax), s	9.0	30.0		18.0		45.0		18.0				
Max Q Clear Time (g_c+I1), s	3.8	10.8		6.2		19.2		2.8				
Green Ext Time (p_c), s	0.1	9.0		0.6		10.3		0.7				
Intersection Summary												
HCM 2010 Ctrl Delay			9.7									
HCM 2010 LOS			A									

Intersection: 6: Park Driveway/Jefferson Colony Road & Fairview Road

Movement	EB	EB	EB	WB	WB	WB	NB	SB
Directions Served	L	T	TR	L	T	R	LTR	LTR
Maximum Queue (ft)	56	100	113	123	311	36	44	132
Average Queue (ft)	19	33	54	36	123	2	16	49
95th Queue (ft)	49	79	97	95	241	16	40	98
Link Distance (ft)		4008	4008		599	599	409	1651
Upstream Blk Time (%)								
Queuing Penalty (veh)								
Storage Bay Dist (ft)	305			145				
Storage Blk Time (%)					3			
Queuing Penalty (veh)					4			

6: Park Driveway/Jefferson Colony Road & Fairview Road
Cadence at MH TIA

PM Peak Hour
Revised 2023 Build

												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	75	998	73	108	609	16	25	0	36	30	0	40
Future Volume (veh/h)	75	998	73	108	609	16	25	0	36	30	0	40
Number	5	2	12	1	6	16	3	8	18	7	4	14
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1865	1900	1844	1844	1881	1900	1867	1900	1862	1862	1862
Adj Flow Rate, veh/h	80	1062	78	115	648	17	27	0	38	32	0	43
Adj No. of Lanes	1	2	0	1	1	1	0	1	0	0	1	0
Peak Hour Factor	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94
Percent Heavy Veh, %	0	2	2	2	2	0	0	0	0	0	0	0
Cap, veh/h	520	1624	119	398	1256	1088	147	10	80	150	8	78
Arrive On Green	0.49	0.49	0.49	0.08	0.68	0.68	0.08	0.00	0.08	0.08	0.00	0.08
Sat Flow, veh/h	783	3348	246	1756	1844	1598	565	113	954	592	93	920
Grp Volume(v), veh/h	80	562	578	115	648	17	65	0	0	75	0	0
Grp Sat Flow(s),veh/h/ln	783	1772	1822	1756	1844	1598	1632	0	0	1605	0	0
Q Serve(g_s), s	3.0	12.2	12.2	1.4	8.8	0.2	0.0	0.0	0.0	0.3	0.0	0.0
Cycle Q Clear(g_c), s	3.0	12.2	12.2	1.4	8.8	0.2	1.8	0.0	0.0	2.1	0.0	0.0
Prop In Lane	1.00		0.13	1.00		1.00	0.42		0.58	0.43		0.57
Lane Grp Cap(c), veh/h	520	860	884	398	1256	1088	237	0	0	236	0	0
V/C Ratio(X)	0.15	0.65	0.65	0.29	0.52	0.02	0.27	0.00	0.00	0.32	0.00	0.00
Avail Cap(c_a), veh/h	600	1039	1068	569	1622	1405	634	0	0	632	0	0
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	0.00	1.00	0.00	0.00
Uniform Delay (d), s/veh	7.6	9.9	9.9	6.9	4.0	2.6	22.3	0.0	0.0	22.4	0.0	0.0
Incr Delay (d2), s/veh	0.1	1.1	1.1	0.4	0.3	0.0	0.6	0.0	0.0	0.8	0.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.7	6.2	6.4	0.7	4.4	0.1	0.9	0.0	0.0	1.1	0.0	0.0
LnGrp Delay(d),s/veh	7.7	11.0	11.0	7.3	4.3	2.6	22.9	0.0	0.0	23.2	0.0	0.0
LnGrp LOS	A	B	B	A	A	A	C			C		
Approach Vol, veh/h		1220			780			65			75	
Approach Delay, s/veh		10.8			4.7			22.9			23.2	
Approach LOS		B			A			C			C	
Timer	1	2	3	4	5	6	7	8				
Assigned Phs	1	2		4		6		8				
Phs Duration (G+Y+Rc), s	10.0	30.8		10.3		40.9		10.3				
Change Period (Y+Rc), s	6.0	6.0		6.0		6.0		6.0				
Max Green Setting (Gmax), s	9.0	30.0		18.0		45.0		18.0				
Max Q Clear Time (g_c+I1), s	3.4	14.2		4.1		10.8		3.8				
Green Ext Time (p_c), s	0.1	10.6		0.6		17.0		0.6				
Intersection Summary												
HCM 2010 Ctrl Delay			9.4									
HCM 2010 LOS			A									

Intersection: 6: Park Driveway/Jefferson Colony Road & Fairview Road

Movement	EB	EB	EB	WB	WB	WB	NB	SB
Directions Served	L	T	TR	L	T	R	LTR	LTR
Maximum Queue (ft)	93	212	197	169	251	23	80	72
Average Queue (ft)	34	90	100	46	81	3	31	27
95th Queue (ft)	74	171	177	108	180	16	62	56
Link Distance (ft)		4008	4008		599	599	409	1651
Upstream Blk Time (%)								
Queuing Penalty (veh)								
Storage Bay Dist (ft)	305			145				
Storage Blk Time (%)					1			
Queuing Penalty (veh)					1			

Attachment 4

SIGNAL WARRANT INFORMATION

(Source: 2009 Manual on Uniform Traffic Control Devices)

Standard:

- 04 The need for a traffic control signal shall be considered if an engineering study finds that one of the following conditions exist for each of any 8 hours of an average day:

- A. The vehicles per hour given in both of the 100 percent columns of Condition A in Table 4C-1 exist on the major-street and the higher-volume minor-street approaches, respectively, to the intersection; or
- B. The vehicles per hour given in both of the 100 percent columns of Condition B in Table 4C-1 exist on the major-street and the higher-volume minor-street approaches, respectively, to the intersection.

In applying each condition the major-street and minor-street volumes shall be for the same 8 hours. On the minor street, the higher volume shall not be required to be on the same approach during each of these 8 hours.

Option:

- 05 If the posted or statutory speed limit or the 85th-percentile speed on the major street exceeds 40 mph, or if the intersection lies within the built-up area of an isolated community having a population of less than 10,000, the traffic volumes in the 70 percent columns in Table 4C-1 may be used in place of the 100 percent columns.

Guidance:

- 06 The combination of Conditions A and B is intended for application at locations where Condition A is not satisfied and Condition B is not satisfied and should be applied only after an adequate trial of other alternatives that could cause less delay and inconvenience to traffic has failed to solve the traffic problems.

Standard:

- 07 The need for a traffic control signal shall be considered if an engineering study finds that both of the following conditions exist for each of any 8 hours of an average day:

- A. The vehicles per hour given in both of the 80 percent columns of Condition A in Table 4C-1 exist on the major-street and the higher-volume minor-street approaches, respectively, to the intersection; and
- B. The vehicles per hour given in both of the 80 percent columns of Condition B in Table 4C-1 exist on the major-street and the higher-volume minor-street approaches, respectively, to the intersection.

These major-street and minor-street volumes shall be for the same 8 hours for each condition; however, the 8 hours satisfied in Condition A shall not be required to be the same 8 hours satisfied in Condition B. On the minor street, the higher volume shall not be required to be on the same approach during each of the 8 hours.

Table 4C-1. Warrant 1, Eight-Hour Vehicular Volume

Condition A—Minimum Vehicular Volume

Number of lanes for moving traffic on each approach		Vehicles per hour on major street (total of both approaches)				Vehicles per hour on higher-volume minor-street approach (one direction only)			
Major Street	Minor Street	100% ^a	80% ^b	70% ^c	56% ^d	100% ^a	80% ^b	70% ^c	56% ^d
1	1	500	400	350	280	150	120	105	84
2 or more	1	600	480	420	336	150	120	105	84
2 or more	2 or more	600	480	420	336	200	160	140	112
1	2 or more	500	400	350	280	200	160	140	112

Condition B—Interruption of Continuous Traffic

Number of lanes for moving traffic on each approach		Vehicles per hour on major street (total of both approaches)				Vehicles per hour on higher-volume minor-street approach (one direction only)			
Major Street	Minor Street	100% ^a	80% ^b	70% ^c	56% ^d	100% ^a	80% ^b	70% ^c	56% ^d
1	1	750	600	525	420	75	60	53	42
2 or more	1	900	720	630	504	75	60	53	42
2 or more	2 or more	900	720	630	504	100	80	70	56
1	2 or more	750	600	525	420	100	80	70	56

^a Basic minimum hourly volume

^b Used for combination of Conditions A and B after adequate trial of other remedial measures

^c May be used when the major-street speed exceeds 40 mph or in an isolated community with a population of less than 10,000

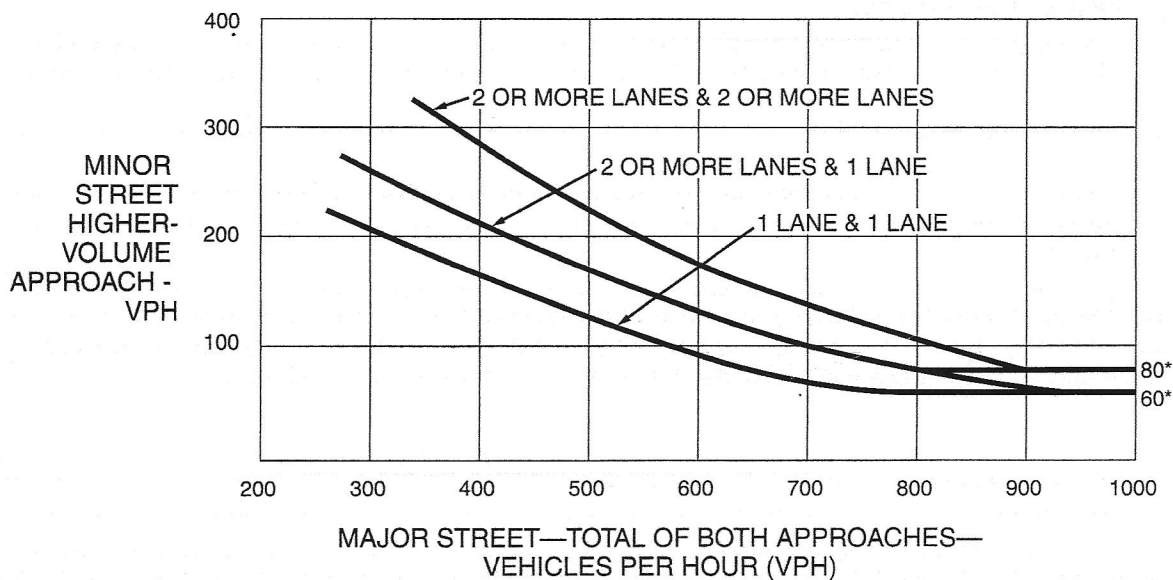
^d May be used for combination of Conditions A and B after adequate trial of other remedial measures when the major-street speed exceeds 40 mph or in an isolated community with a population of less than 10,000

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

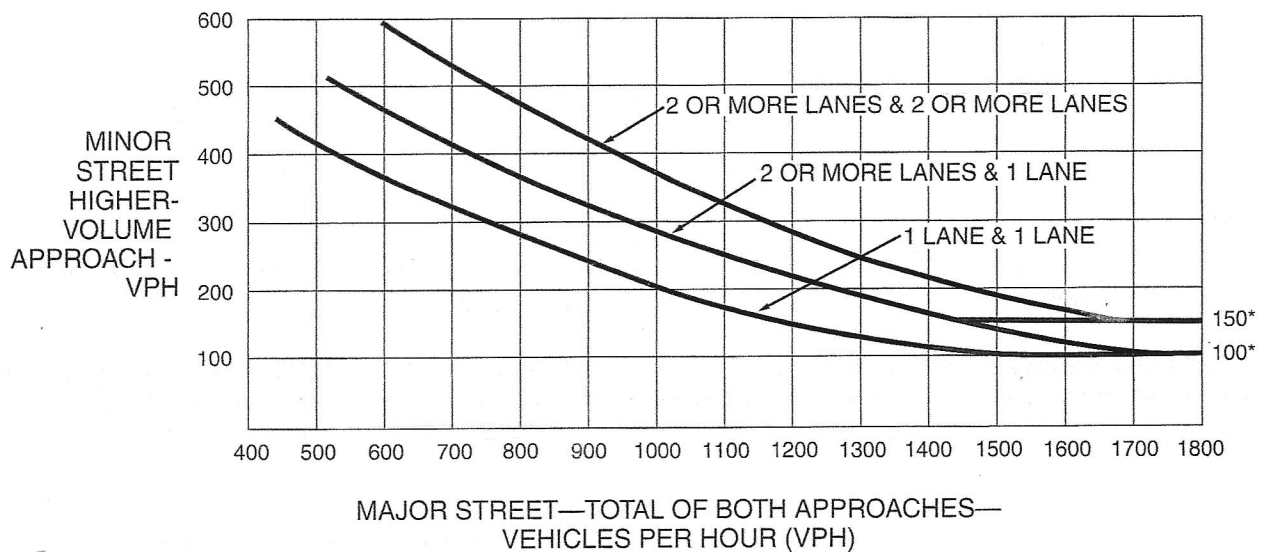
*Note: 115 vph applies as the lower threshold volume for a minor-street approach with two or more lanes and 80 vph applies as the lower threshold volume for a minor-street approach with one lane.

Figure 4C-2. Warrant 2, Four-Hour Vehicular Volume (70% Factor)

(COMMUNITY LESS THAN 10,000 POPULATION OR ABOVE 40 MPH ON MAJOR STREET)



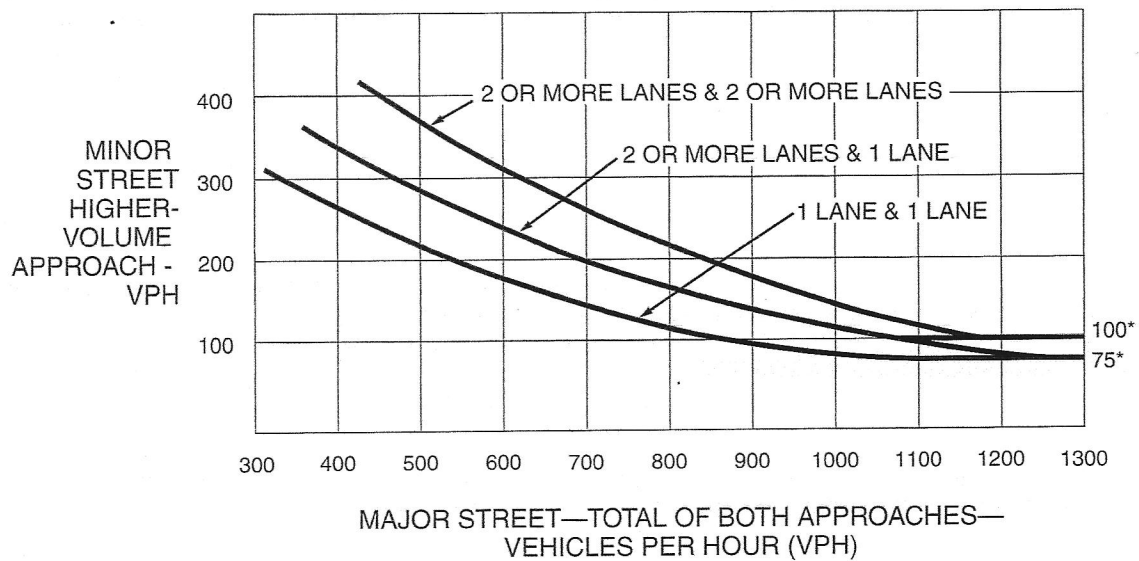
*Note: 80 vph applies as the lower threshold volume for a minor-street approach with two or more lanes and 60 vph applies as the lower threshold volume for a minor-street approach with one lane.

Figure 4C-3. Warrant 3, Peak Hour

*Note: 150 vph applies as the lower threshold volume for a minor-street approach with two or more lanes and 100 vph applies as the lower threshold volume for a minor-street approach with one lane.

Figure 4C-4. Warrant 3, Peak Hour (70% Factor)

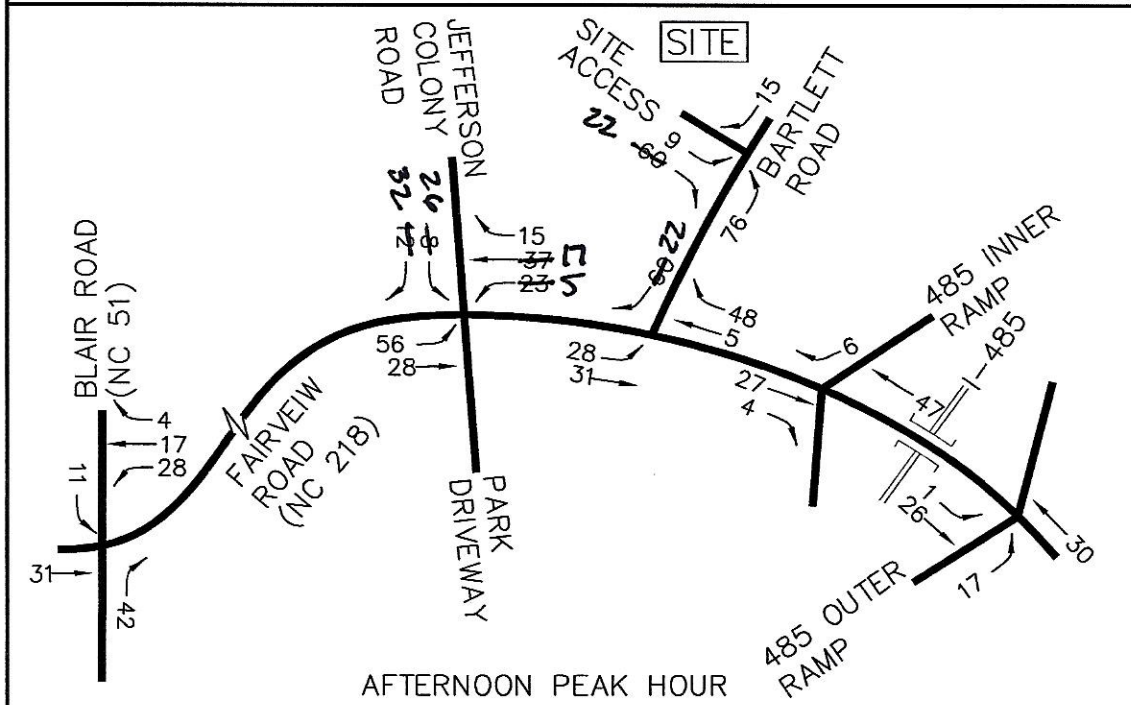
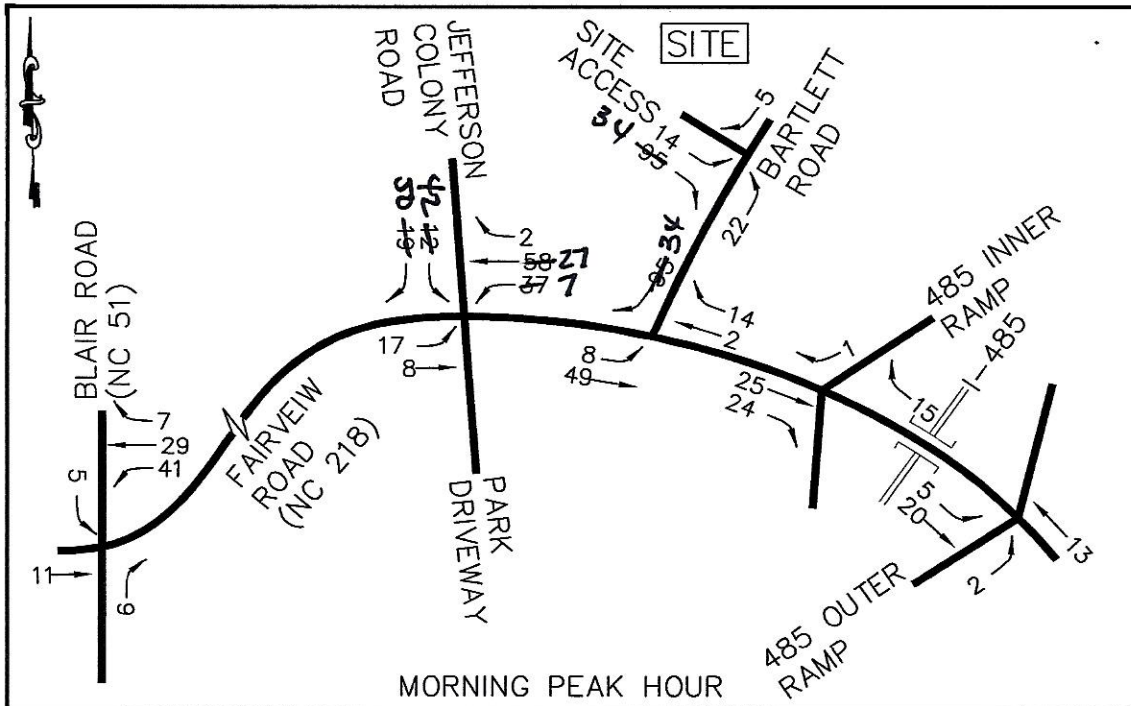
(COMMUNITY LESS THAN 10,000 POPULATION OR ABOVE 40 MPH ON MAJOR STREET)



*Note: 100 vph applies as the lower threshold volume for a minor-street approach with two or more lanes and 75 vph applies as the lower threshold volume for a minor-street approach with one lane.

Attachment 5

FIGURE 4A – REVISED PEAK HOUR SITE TRIPS



REVISED
PEAK HOUR SITE TRIPS

17-015ST-GGS.DWG

Figure 4A

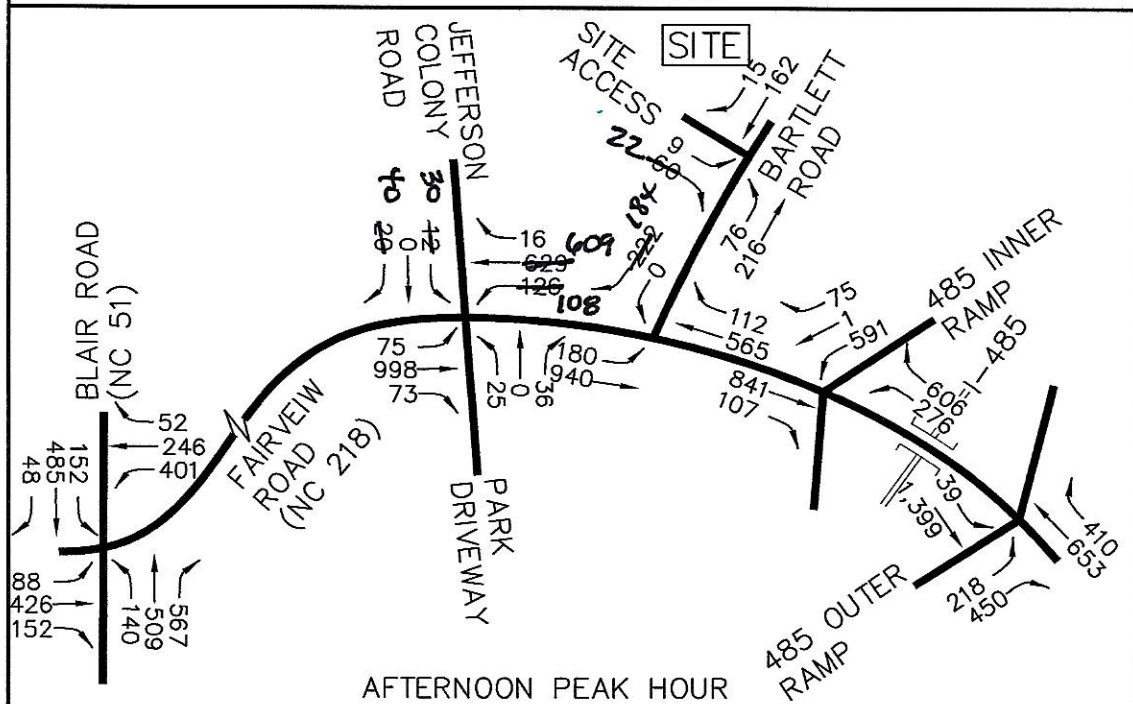
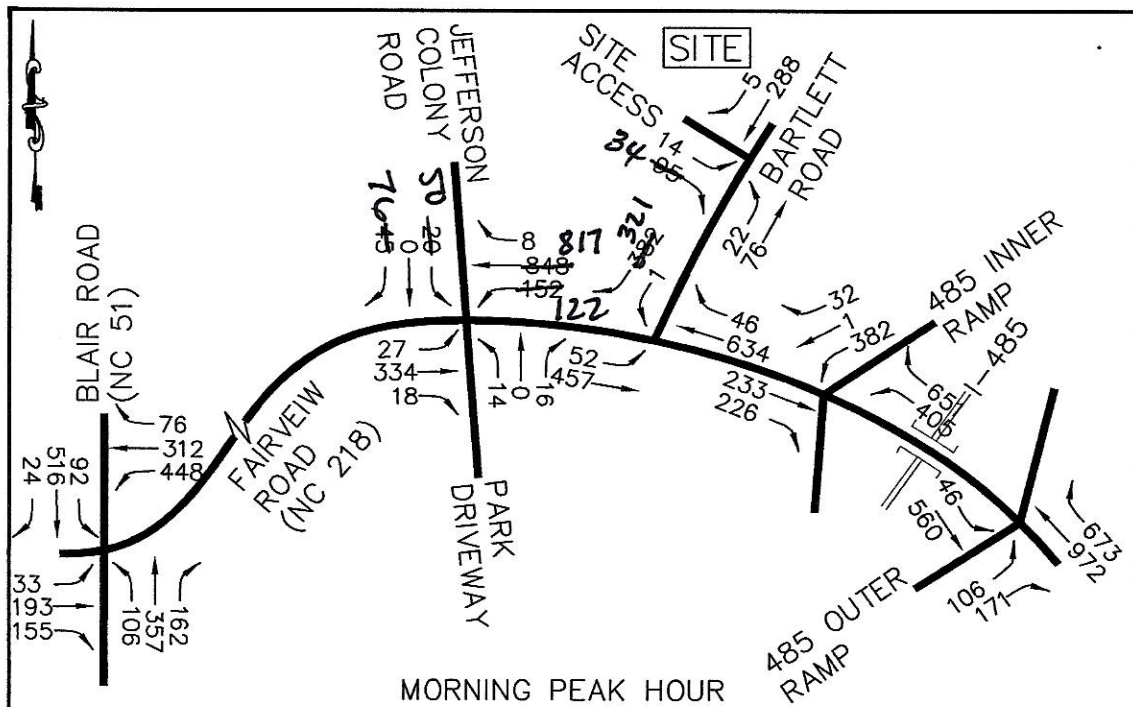
10/11/17

CADENCE AT MINT HILL TRAFFIC IMPACT ANALYSIS
MINT HILL, NORTH CAROLINA



Attachment 6

FIGURE 5A – REVISED 2023 BUILD PEAK HOUR TRAFFIC VOLUMES



REVISED
2023 BUILD PEAK HOUR TRAFFIC VOLUMES

17-015ST-GGS.DWG
Figure 5A

CADENCE AT MINT HILL TRAFFIC IMPACT ANALYSIS
MINT HILL, NORTH CAROLINA

10/11/17
 Sprague & Sprague
Consulting Engineers