Final Report

Atlanta Avenue Corridor Study

City of Lynchburg, Virginia



Prepared on:

June 2015

Prepared for:

Central Virginia Metropolitan Planning Organization



ATLANTA AVENUE CORRIDOR STUDY FINAL REPORT

JUNE 2015

Prepared for:
Central Virginia
Metropolitan Planning Organization

Lynchburg, Virginia

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EXECUTIVE SUMMARY

The Region 2000 Local Government Council (Region 2000) in partnership with the City of Lynchburg engaged AECOM to conduct a corridor analysis along Atlanta Avenue in Lynchburg, Virginia. The Atlanta Avenue corridor connects Wards Road (U.S. Route 29 Business) in the east with Wards Ferry Road in the west.

Purpose

The purpose of this study is to develop and evaluate enhancements for both traveler safety (both vehicular and non-vehicular) and pedestrian and bicycle access connections on Atlanta Avenue from Wards Ferry Road to Wards Road and also to retail commercial activities located along the Wards Road corridor. The need for addressing these issues previously has been identified both in the *Wards Ferry Road Corridor Study* and in the *Wards Road Area Pedestrian & Bicycle Concept Plan.* Both documents identify the Atlanta Avenue corridor as exhibiting deficiencies in pedestrian and bicycle access as well as safety issues. To develop a recommended set of measures to address deficiencies, this study begins by defining them.

The measure of success of the implementation of the recommendations of this study is reflected in the attainment of goals articulated in the *Comprehensive Plan* and in the two supporting documents identified in the paragraph above. The key goals are:

- 1. Establishing pedestrian and bicyclists access along the west side of Wards Road extending from Harvard Street in the north to Wards Ferry Road in the south and crossing Atlanta Avenue;
- 2. Extending pedestrian and bicyclists access west along Atlanta Avenue to Wards Ferry Road; and,
- 3. Provide for safety in transportation in the design of facilities.

Planning Process

The corridor study process involved a coordinated effort including staff from the City of Lynchburg, the Region 2000 Local Government Council and the consultant. Existing conditions were defined and forecasted conditions were developed and analyzed; deficiencies were detailed and a range of mitigative measures were considered. After engaging key stakeholders and the public in a series of two community meetings, improvement recommendations were finalized and documented.

Existing Conditions

To define vehicular deficiencies on Atlanta Avenue, daily directional traffic counts, an analysis of crash data and a speed study were conducted, and the key findings were:

- **Speed:** The average vehicle speed was **36 mph** and the posted speed limit is 25 mph.
- Safety: In the past 3 years, a total of 24 crashes occurred at the intersection of Atlanta Avenue and Badcock Place. Roughly 20 of these may have been eliminated by the installation of a mini-roundabout
- Capacity: Traffic conditions at the intersection of Atlanta Avenue with Badcock
 Place in the PM peak hour display LOS F conditions, with average vehicle delays of



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- approximately 120 seconds. In contrast, the intersection of Atlanta Avenue with Wards Ferry Road operates with good service level conditions.
- Pedestrian & Bicyclist Access: The roadway west of Badcock Place is a narrow, section providing two lanes each with of 10 feet pavement width and earthen shoulders with an open drainage ditches. It does not meet current standards for lane widths (12 feet), and no accommodations are provided for pedestrians or bicyclists. The ditches present a hazard for all travelers who may run off the roadway.

Improvement Measures

Traffic Calming: To address the problem with excess vehicular speed on Atlanta Avenue, a traffic calming study was conducted in accordance with the City's Neighborhood Traffic Management Program (NTMP). Atlanta Avenue meets the requirements to be eligible for traffic management techniques. Feasible traffic calming measure that could be used would be **speed hump** and **increased fine zone**.

Safety and Capacity: To address the issue of excessive average vehicle delay on the Badcock Place and Wards Crossing Shopping Center driveway approaches to Atlanta Avenue, the intersection was evaluated as a potential candidate for a **mini-roundabout**. The analysis results show that with a mini-roundabout, the overall delay at the intersection of Atlanta Avenue with Badcock Place improves, particularly for motorists on the minor streets. In addition, installing the proposed mini-roundabout likely will result in a reduction in the number of crashes.

Pedestrian & Bicyclist Access: The recommended improvements address two existing gaps in access that were identified in the *Wards Road Area Pedestrian & Bicycle Concept Plan.* First, on its eastern leg the mini-roundabout includes a **pedestrian crossing of Atlanta Avenue** that will connect the existing trail from the north to the proposed multiuse trail planned to extend south to Wards Ferry Road. Second, the proposed multi-use trail on the north side of Atlanta Avenue from Badcock Place in the east to Wards Ferry Road in the west addresses the issue of pedestrian and bicycle access addressed in the *Wards Ferry Road Corridor Study.*

Public Involvement

The Atlanta Avenue public involvement process was comprised of two public meetings held at the Church of the Brethern. The first was held April 23, 2015 and the second on May 21, 2015. Sixteen people attended the first public meeting including several residents of Atlanta Avenue and eleven people attended the second meeting. Attendees, opinions generally favored the proposed mini-roundabout and the speed table. There was strong support (especially from residents of homes fronting onto Atlanta Avenue) for pedestrian accommodations running the entire length of Atlanta Avenue. Most of the residents of Atlanta Avenue stated that speeding was a major problem on the road. Additionally, several residents of Atlanta Avenue complained of pavement edge drop-offs on the segments that have a significant vertical curve to the west of the Church of the Brethren.



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Cost Estimates

Planning level cost estimates¹ were developed for the two main infrastructure improvements:

- The cost for the **mini-roundabout** is estimated at **\$300,000**. Installation of elements of the mini-roundabout may be installed in phases.
- The cost of **the multiuse trail along Atlanta Avenue** is estimated at **\$380.000**. These recommendations are detailed in the *Wards Road Area Pedestrian and Bicycle Concept Plan*.

Recommendations

1. Install Mini-roundabout at Atlanta Avenue and Badcock Place.

- Address capacity and safety deficiencies at the intersection; and,
- Include a crosswalk on Badcock Place and a crosswalk on the east side of the intersection over Atlanta Avenue.

2. Install a temporary speed hump immediately west of Church of the Brethren.

- Evaluate on a trial basis to reduce excessive vehicular speeds on Atlanta Avenue;
- If the speed hump is effective and it receives a positive resident response then a permanent speed hump could be evaluated; and,
- The possibility of adding increased fine zone to provide greater enforcement activity also should be evaluated.

3. Install multiuse trail (10 feet in width) on the north side of Atlanta Avenue from Badcock Place to Wards Ferry Road.

- Provide safe pedestrian and bicyclist access from the existing and planned Wards Road corridor trails to planned trail on Wards Ferry Road;
- Address safety issues associated with narrow pavement and ditches on Atlanta Avenue; and,
- Multiuse trail improvement to include installation of curb and gutter (north side of Atlanta Avenue only), with trail set immediately adjacent to the back of curb.

¹ Cost estimates that are not based on detailed surveys and engineering drawings.

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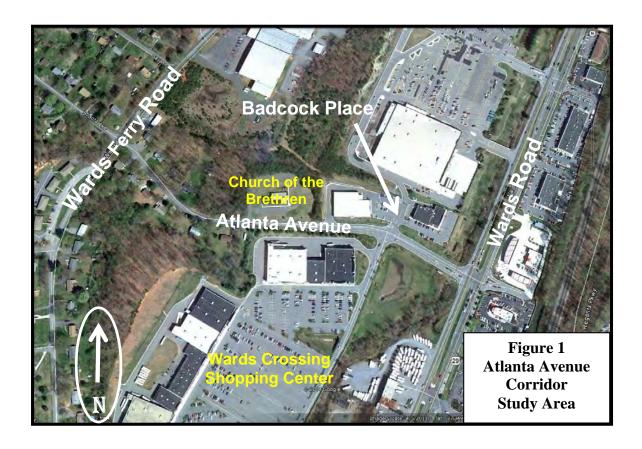
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I. INTRODUCTION

In partnership with the City of Lynchburg, the Region 2000 Local Government Council (Region 2000) engaged AECOM to conduct a corridor analysis along Atlanta Avenue in Lynchburg, Virginia. The Atlanta Avenue corridor connects to Wards Road (U.S. Route 29 Business) in the east with Wards Ferry Road in the west (See **Figure 1: Corridor Study Area)**.

The purpose of this study is to develop and evaluate enhancements for both traveler safety (both vehicular and non-vehicular) and pedestrian and bicycle access connections on Atlanta Avenue from Wards Ferry Road to Wards Road and also to retail commercial activities located along the Wards Road corridor. The need for addressing these issues previously has been identified both in the *Wards Ferry Road Corridor Study* and in the *Wards Road Area Pedestrian & Bicycle Concept Plan.* Both documents identify the Atlanta Avenue corridor as exhibiting deficiencies in pedestrian and bicycle access as well as safety issues. To develop a recommended set of measures to address deficiencies, they must first be defined in detail and then mitigative measures can be evaluated and recommended.



Atlanta Avenue Corridor Study



Planning Basis for Corridor Study

The overarching basis for the Atlanta Avenue Corridor Study is found in the *Lynchburg 2030 Comprehensive Plan.* In expanding of the first transportation goal – T1.0 Supportive Transportation System — the document articulates two sub-goals that apply directly to the issues confronting this corridor:

T-1.4 Prioritize improvements to the transportation system based on safety considerations; existing deficiencies; multimodal and environmental considerations; opportunities to improve street connectivity; physical, economic and policy constraints; contribution to neighborhood character; impact on historic and environmental resources; required right-of-way; target levels of service (see policy T-1.3); public safety access; regional connectivity; and system continuity.

T-1.5 Manage access to promote safety and convenience of (sic) along streets and on abutting properties for all modes of transportation.¹

The *Comprehensive Plan* further expands on the multi-modal aspects of transportation goals under the section detailing Goal T-2: Better Streets and Enhanced Mobility. The applicable sub-goal specifically identifies the intent to involve residents:

T-2.4 Coordinate with private property owners and neighborhood groups to identify opportunities to better connect streets, pedestrian and bicycle facilities.²

Additional planning studies have further detailed the vision for multi-modal facilities in the corridor area. *The Wards Road Area Pedestrian & Bicycle Concept Plan* focused on improvements to be pursued along the commercial area south of Harvard Street, but it also provided for these planned north-south facilities along Wards Road to be connection to adjacent residential areas:

Signed connector bicycle routes from adjoining neighborhoods west of the study area along Wards Ferry Road, Atlanta Avenue and Harvard Street.³

Finally, in defining the needs on the Wards Ferry Road, the *Wards Ferry Road Corridor study* evaluated measures for providing pedestrian and bicycle access, but the limitations of the pavement section on Atlanta Avenue was seen as a challenge. In response the study recommended:

Atlanta Avenue merits a separate access management and multimodal (bike/pedestrian) study between Wards Ferry Road and the trail that is planned to end at the intersection of Atlanta Avenue and the driveway to Sam's Club.⁴

¹ Lynchburg 2030 Comprehensive Plan. pp. 30-31.

² Lynchburg 2030 Comprehensive Plan. p. 32.

³ The Wards Road Area Pedestrian & Bicycle Concept Plan. p. 15.



II. EXISTING AND FORECASTED CONDITIONS

Existing Conditions

Daily directional traffic counts and measurements of vehicle speeds on Atlanta Avenue were recorded by Peggy Malone & Associates from November 5, 2014 through November 8, 2013. The location of the data collection was approximately 0.15 mile west of the Church of the Brethren driveway. Peak period turning movement counts (including pedestrian and bicycle movements) at the intersection of Atlanta Avenue with Badcock Place were conducted on November 6 & 8, 2014. The results of the traffic counts are documented in the Technical Appendix. Existing lane geometry and peak hour (8:00 – 9:00 AM and 4:30 – 5:30 PM) traffic volumes can be found in **Figure 2** - **Existing Conditions Lane Configuration & Peak Hour Traffic Volumes**.

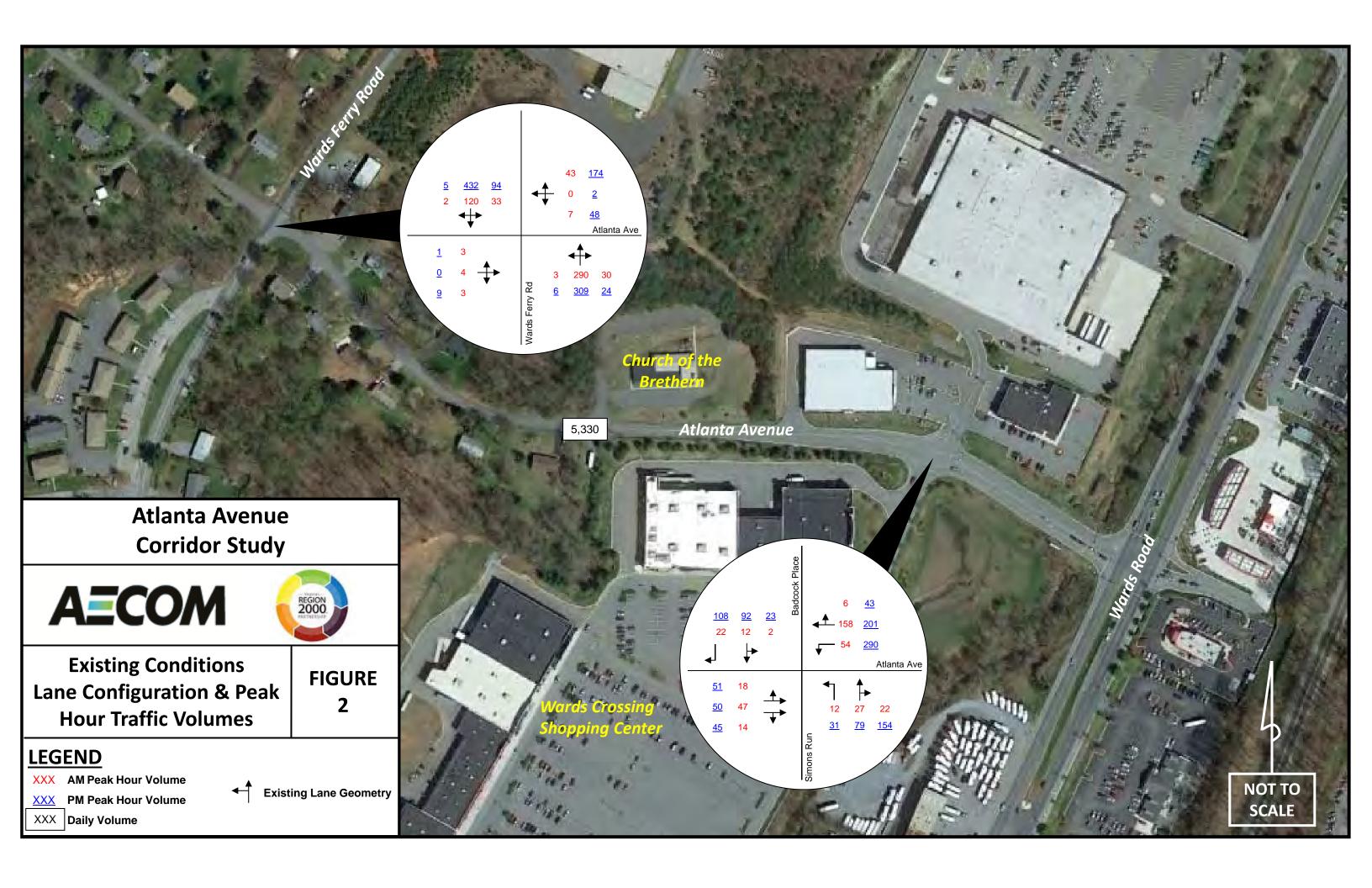
Existing land use data was compiled with the use of City of Lynchburg GIS resources.

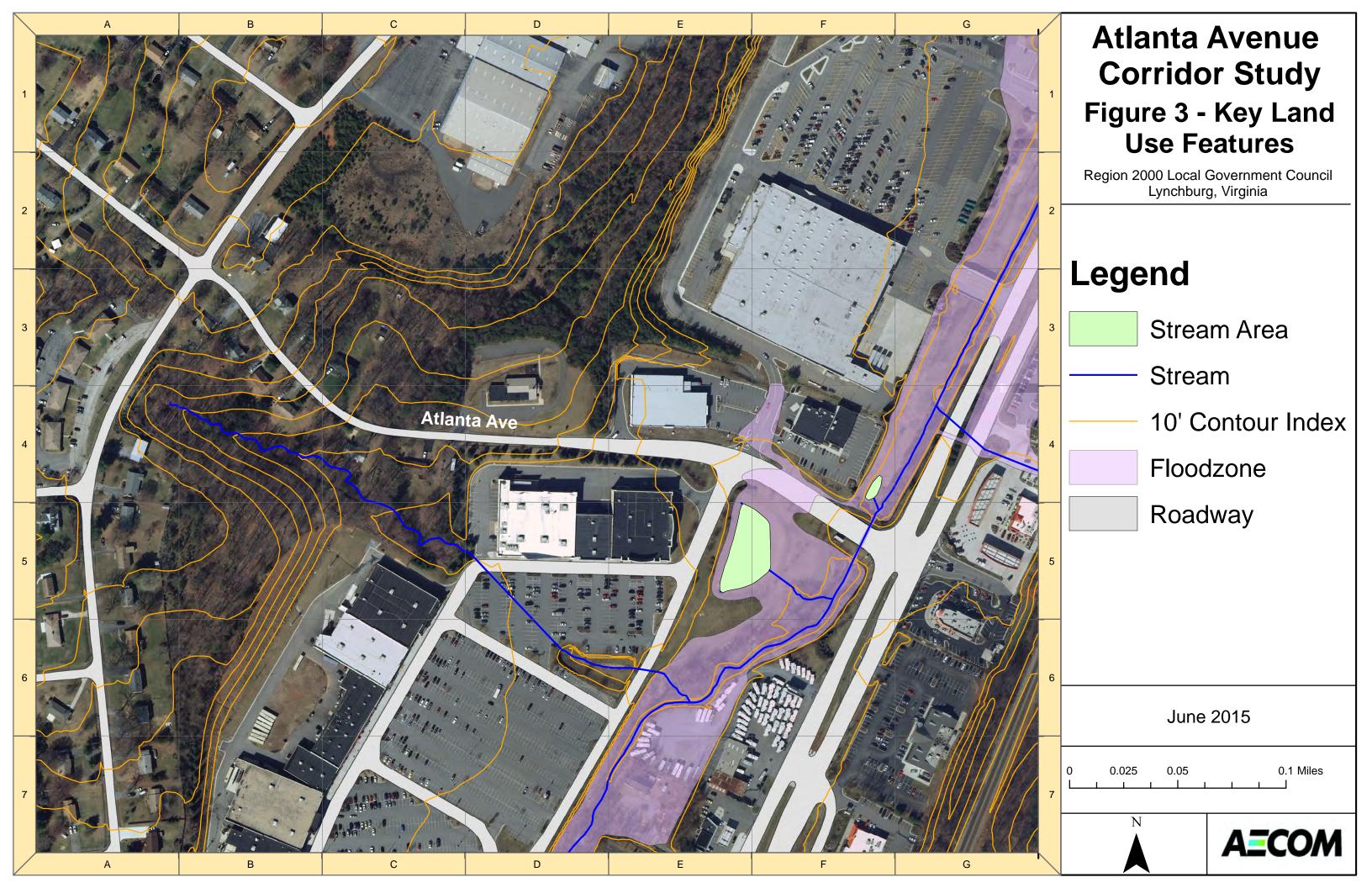
Figure 3 – Key Land Use Features depicts land use characteristics in the study area, including roadways and hydrographic features, in addition to topography. Figure 4 – Zoning Districts defines the current mapping by zoning district⁵, and Figure 5 – Future Planned Land Use shows planned land uses as recommended in the City of Lynchburg's 2030 Comprehensive Plan.

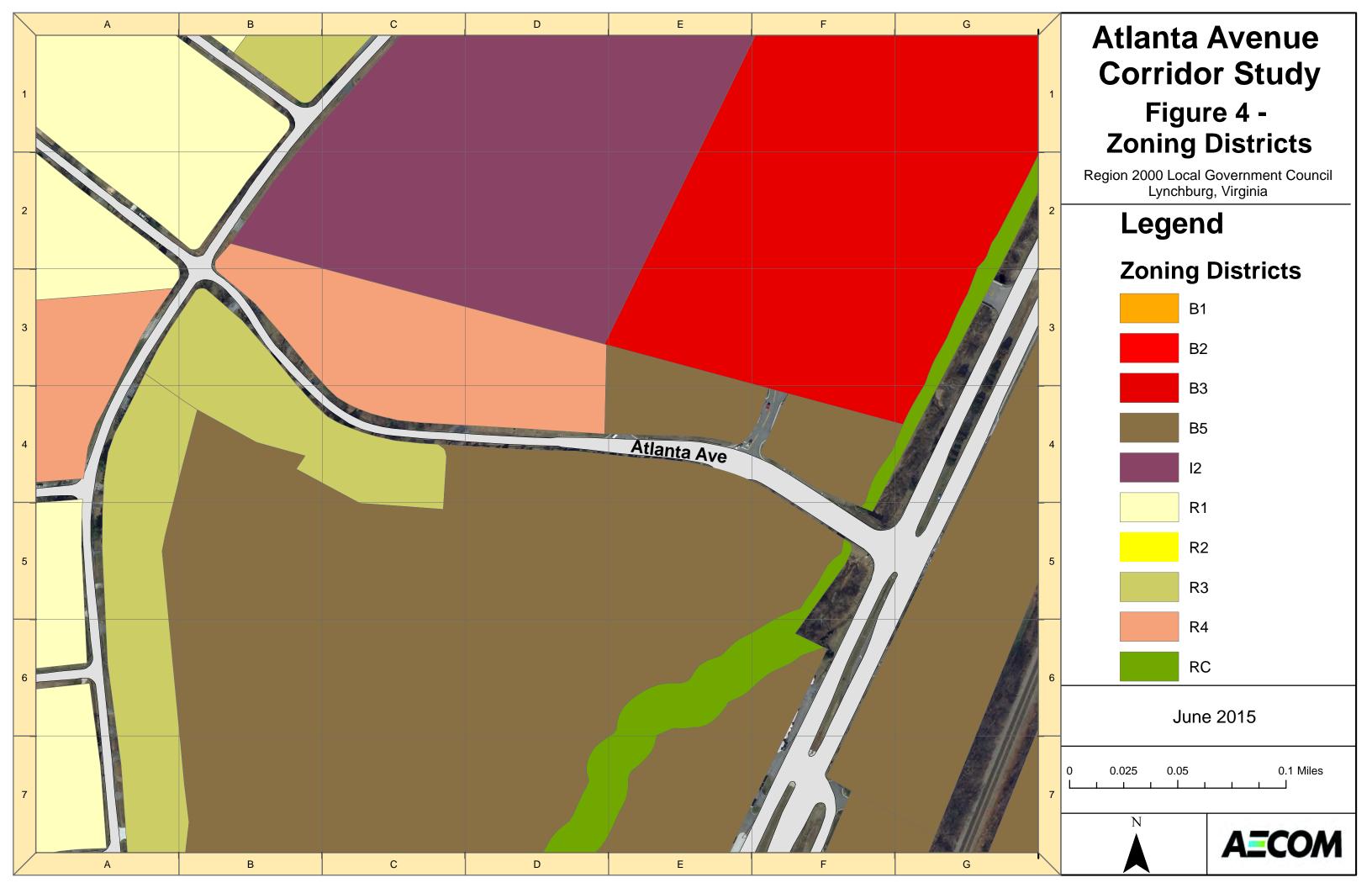
The roadway along the Atlanta Avenue corridor starts at the Wards Road intersection as a four-lane facility with a pavement width of 48 feet and curb and gutter drainage. Beginning at the Church of the Brethren the roadway section transitions to a two-lane section with a pavement width of 20 feet and earthen shoulders and an open drainage system (ditches), and this section continues west to the intersection with Wards Ferry Road. Atlanta Avenue is approximately 0.36 miles in length and exhibits a steep increase in elevation (approximately 90 feet at an average grade of 4.7%). No bicycle or pedestrian accommodations are currently provided west of Badcock Place.

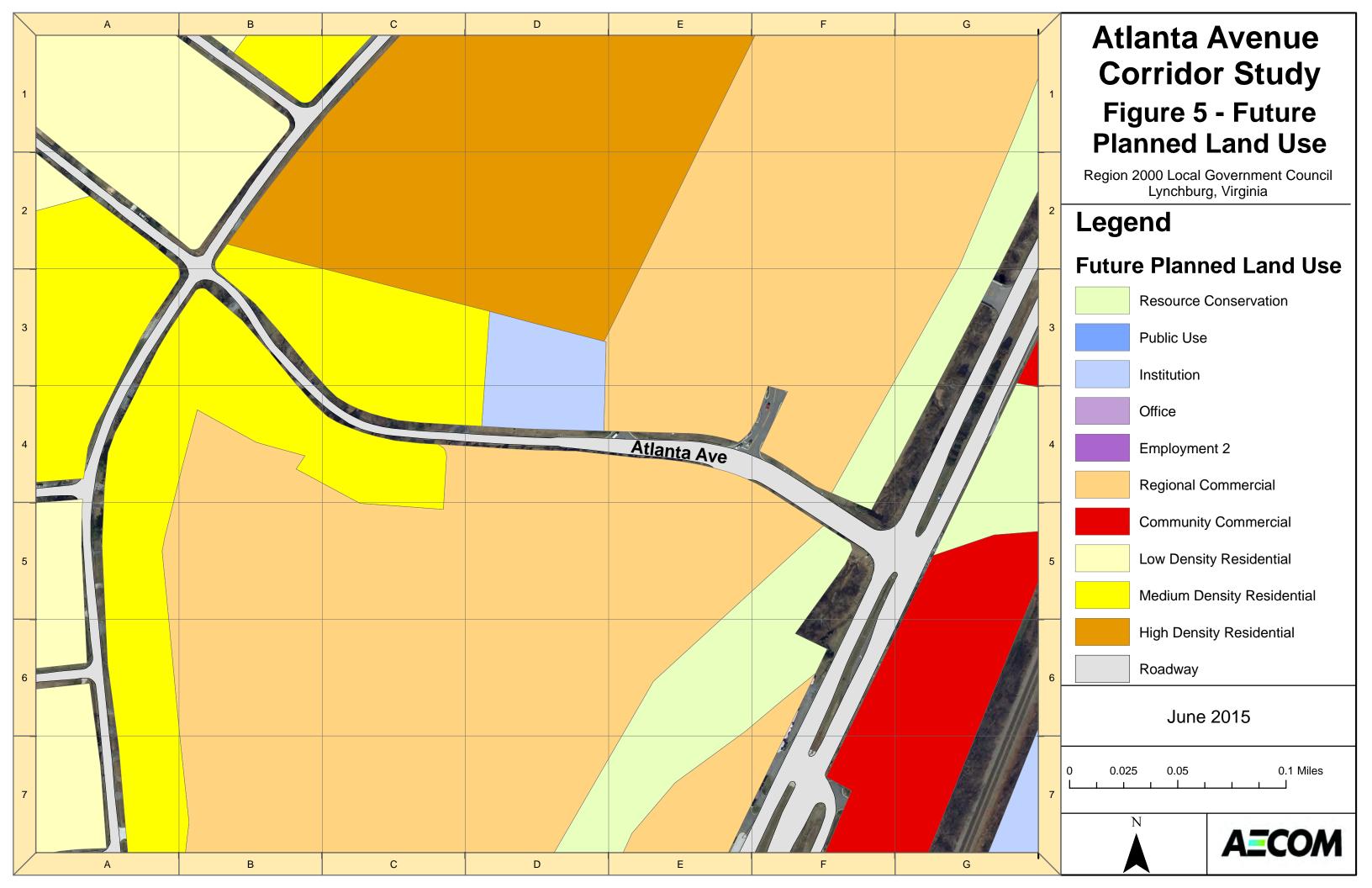
⁴ Wards Ferry Road Corridor Study. p.36.

⁵ For a complete description of each zoning district, see the City of Lynchburg Zoning Ordinance.











Capacity Analysis of Existing Conditions

Using the peak hour traffic volumes shown in **Figure 2** - **Existing Lane Configuration & Peak Hour Traffic Volumes**, capacity analysis was conducted.
The intersection capacity analyses were performed using Synchro 8 software, which computes estimates of service levels using the methodology developed in the *Highway Capacity Manual* (HCM 2010).

Capacity analysis is used to determine a Level of Service (LOS) for a given intersection, and the analysis procedures differ depending upon the type of traffic control at the intersection - signalized or unsignalized. In general, LOS A and B indicate little or no delay, LOS C indicates modest delay, LOS D indicates delay is increasing and noticeable, LOS E indicates the limit of acceptable delay and LOS F is characteristic of over-saturated conditions.

The capacity analysis results of existing conditions are documented in **Table 1**, which shows that the intersection of Atlanta Avenue with Badcock Place operates with good service level conditions in the AM peak hour – service levels no worse than B. The PM peak hour, however, displays poor service levels for the north and southbound movements: the side street left turns displays LOS F, with average vehicle delays of approximately 120 seconds.

Table 1 Existing Conditions Average Unsignalized Vehicle Delay and Service Levels Synchro HCM 2010 Methodology						
	AM Pea	k Hour	PM Pea	ık Hour		
Approach	Delay (sec.)	LOS	Delay (sec.)	LOS		
Atlanta Avenue @ Bad	cock Place					
EB Left/Through	7.6	Α	7.9	А		
EB Right	0.0	А	0.1	А		
WB Left	7.4	Α	8.1	Α		
WB Through/Right	0.0	Α	0.0	Α		
NB Left	12.3	В	114.7	F		
NB Through/Right	10.9	В	34.4	D		
SB Left/Through	12.3	В	126.4	F		
SB Right	9.3	Α	10.3	В		
Atlanta Avenue @ War	ds Ferry Roa	ıd				
EB Left/Through/Right	12.5	В	13.8	В		
WB Left/Through/Right	11.0	В	23.7	С		
NB Left/Through/Right	0.1	Α	0.1	Α		
SB Left/Through/Right	1.7	А	1.5	А		



Also shown in **Table 1**, the results of the analysis of the intersection of Atlanta Avenue and Wards Ferry Road indicate service levels on all approaches are adequate - exhibiting LOS C or better.

Next, SimTraffic 8.0 simulation software was used to run a microsimulation, and the results of these simulation runs are included in **Table 2**. The simulations show that motorists on the side streets still experience delay, but on the order of 15 to 20 seconds, rather than approximately 120 seconds as shown in the results in Table 1. This lower average vehicle delay is consistent with observed field conditions.

Table 2 Existing Conditions Average Vehicle Delay and Service Levels SimTraffic Microsimulation						
	AM Pea	ık Hour	PM Pea	ık Hour		
Approach	Delay (sec.)	LOS	Delay (sec.)	LOS		
Atlanta Avenue @ Bad	cock Place					
EB Left/Through	2.6	Α	2.6	Α		
EB Right	0.1	Α	0.3	Α		
WB Left	1.8	Α	3.1	Α		
WB Through/Right	0.3	Α	0.9	Α		
NB Left	5.9	Α	18.3	С		
NB Through/Right	NB Through/Right 8.0 A 16.3 C					
SB Left/Through	6.4	Α	17.3	С		
SB Right	6.5	Α	13.6	В		

As previously documented in the report, *Wards Ferry Road Corridor Study*, the intersection of Atlanta Avenue with Wards Ferry Road operates with good service level conditions, with no worse than LOS C conditions in both peak hours.⁶

Crash Analysis

Crash records from the most recent 3-year period (2011-2014) were evaluated to identify patterns in crash histories. **Table 3** displays a summary of all crashes along the Atlanta Avenue corridor. In the past 3 years, there were a total of 24 crashes; of these, 22 (92%) involved angle collisions, 1 (4%) involved a rear-end collision, and 1 (4%) involved a collision with an off-road fixed object. Generally, more than 5 crashes annually indicate a potential intersection safety issue.

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⁶ Wards Ferry Road Corridor Study. June 2013. p.6.



Table 3 Atlanta Avenue 3-Year Crash Summary						
Intersection Rear End Angle Object – Total Off Road						
Wards Rd @ Atlanta Ave	1	-	1	2		
Badcock Pl @ Atlanta Ave	-	20	-	20		
Wards Ferry Rd @ Atlanta Ave - 2 - 2						
Total	1	22	1	24		

The majority of crashes (20 of 24, or 84%) occurred at the intersection of Atlanta Avenue and Badcock Place. Speed was not determined to be a factor in any of these crashes. Darkness was the prevailing lighting condition in 4 of 20 (20%) crashes; the pavement was wet in 2 of 20 (10%) crashes; and other vehicles obstructing drivers' views were a factor in 6 of 20 (30%) crashes. There were 3 crashes resulting in personal injuries, 17 resulting in property damage only, and none resulting in a fatality. From the analysis of crash causes and conditions, neither weather nor darkness is a significant factor, and the high frequency of crashes is most likely related to the intersection configuration. **Figure 6 – Diagram of Collision Reports** displays the crash patterns for the intersection of Badcock Place with Atlanta Avenue.

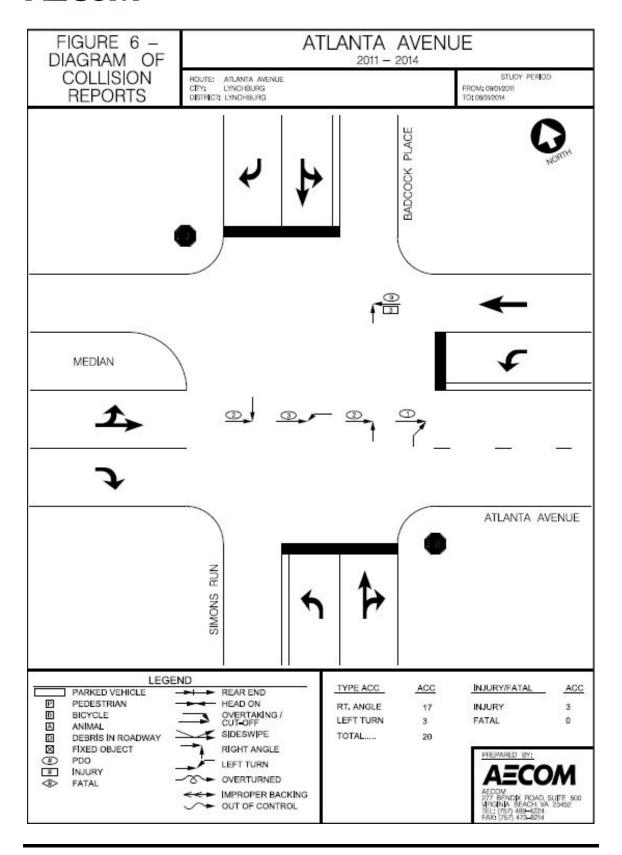
Forecasted Conditions

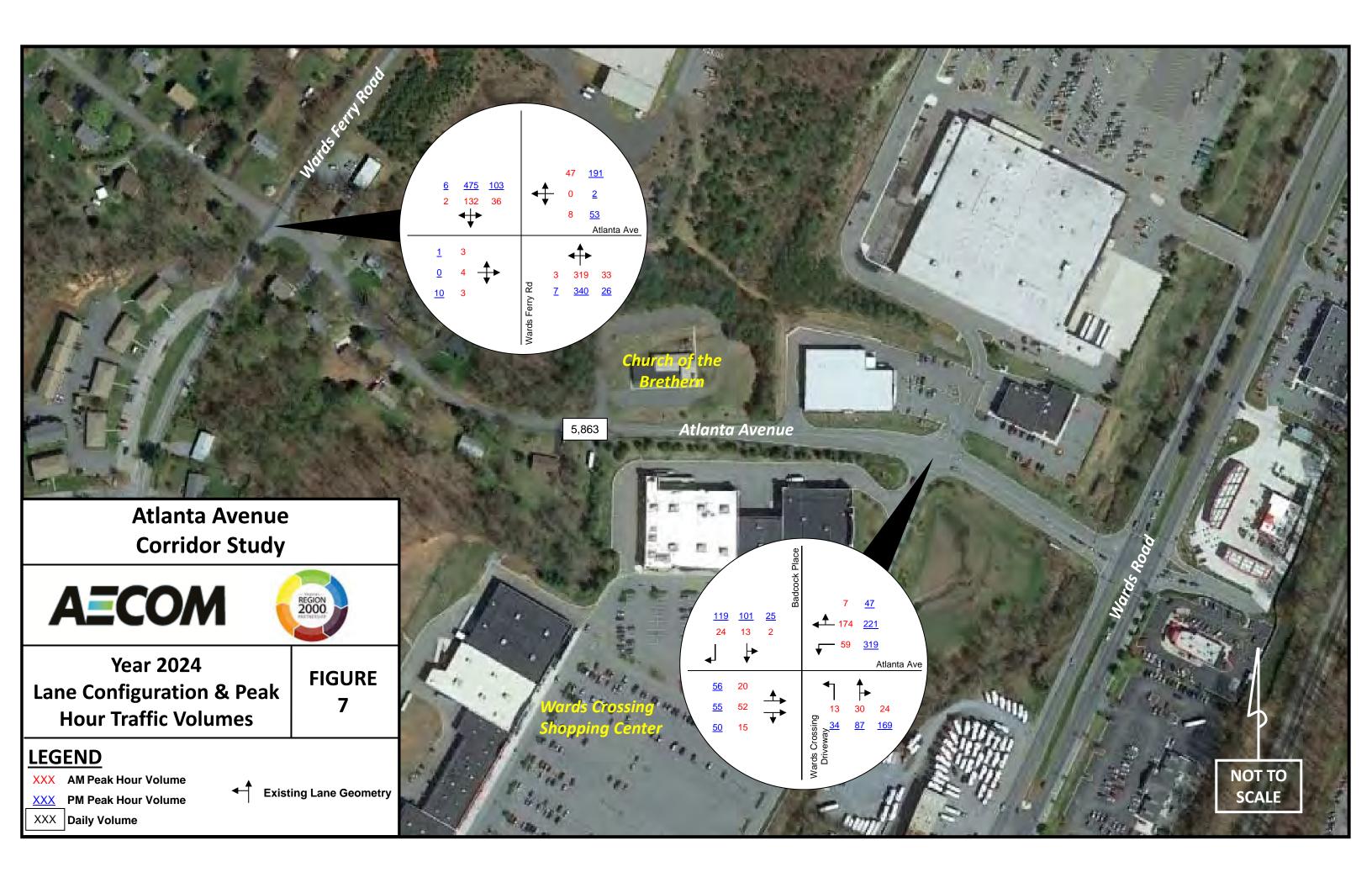
Background traffic volume growth – traffic not related to site development on the corridor - on all study area roads has been accounted for by applying a 1% annual growth rate to existing volumes. The 1% annual growth rate is consistent with that used and documented in the *Wards Ferry Road Corridor Study*, which was conducted in 2013.

The design year for this project was set at 2024 - ten years beyond the existing conditions. **Figure 7 - Year 2024 Lane Configuration & Peak Hour Traffic Volumes** presents the design year traffic volumes.

Using the peak hour traffic volumes found in **Figure 7**, capacity analysis of year 2024 forecasted conditions was conducted. Synchro 8 software was used for the analysis to calculate results based on *2010 Highway Capacity Manual* procedures. **Table 4** summarizes the results of the Build Alternative analysis.









Similar to the existing conditions results, the intersection of Atlanta Avenue with Badcock Place is forecast to operate with good service levels in the AM peak hour with no worse than LOS B conditions. The PM peak hour continues to display poor service levels for the northbound and southbound approach movements: the side street left turns display LOS F conditions, with average vehicle delays in excess of 400 seconds.

Table 4 also shows that, in contrast with the Badcock Place intersection, the intersection of Atlanta Avenue with Wards Ferry Road is forecast to operate with adequate service levels during both peak periods.

Table 4 Build Alternative Average Vehicle Delay and Service Levels HCM 2010 Methodology						
	AM Pea	ık Hour	PM Pea	ak Hour		
Approach	Delay (sec.)	LOS	Delay (sec.)	LOS		
Atlanta Avenue @ Bad	cock Place					
EB Left/Through	7.7	Α	8.0	Α		
EB Right	0.0	А	0.1	Α		
WB Left	7.5	Α	8.2	Α		
WB Through/Right	0.0	Α	0.0	Α		
NB Left	13.0	В	419.0	F		
NB Through/Right	11.2	В	62.7	F		
SB Left/Through	12.8	В	316.3	F		
SB Right	9.4	Α	10.6	В		
Atlanta Avenue @ War	ds Ferry Roa	nd				
EB Left/Through/Right	13.1	В	15.1	С		
WB Left/Through/Right	11.4	В	33.5	D		
NB Left/Through/Right	0.1	Α	0.2	Α		
SB Left/Through/Right	1.7	А	1.5	А		



As with the analysis of existing conditions, SimTraffic 8 software was again used to run a microsimulation using forecasted year 2024 volumes; the results of these simulations may be found in **Table 5**. The simulations again show that on average motorists using the side streets still experience approximately 15 to 21 seconds of delay, rather than over 400 seconds as shown in the HCM results in Table 4.

Table 5 Build Alternative Average Vehicle Delay and Service Levels SimTraffic Microsimulation						
	AM Pea	ık Hour	PM Pea	ık Hour		
Approach	Delay (sec.)	LOS	Delay (sec.)	LOS		
Atlanta Avenue @ Bad	cock Place					
EB Left/Through	2.3	Α	3.3	Α		
EB Right	0.0	Α	0.2	Α		
WB Left	2.5	Α	2.9	Α		
WB Through/Right	0.3	Α	1.0	Α		
NB Left	4.4	А	14.3	С		
NB Through/Right	NB Through/Right 7.1 A 18.6 C					
SB Left/Through	7.3	Α	21.6	С		
SB Right	3.1	Α	6.6	С		



III. NEIGHBORHOOD TRAFFIC CALMING

In response to complaints received by the City of Lynchburg from corridor residents, a traffic calming study was initiated by Lynchburg and supported by AECOM. Traffic calming consists of physical design and other measures, including narrowed roads and speed humps, put in place on roads for the intention of slowing down or reducing motor-vehicle traffic as well as to improve safety for pedestrians and cyclists.

The guide for completing traffic calming study process is defined in the City of Lynchburg document, *Neighborhood Traffic Management Program (NTMP)* dated December 2005. It provides a step-by-step process to identify, evaluate and prioritize traffic management measures.

Residential collector streets such as Atlanta Avenue, although classified as collector roads, may have characteristics of a local residential street. These streets may be considered for traffic management techniques if they meet all the following conditions:

- 1. Posted speed of 25 mph
- 2. Two-lane roadway
- 3. Does not serve as the primary access to commercial, educational, or industrial sites.
- 4. Minimum of 12 dwelling units fronting the street per 1,000 feet of roadway, including both sides.
- 5. The volume of traffic is greater than 1,000 vehicles per day.
- 6. Documented Speed Problem the average speed is greater than 5 mph over the speed limit based on documented speed studies (greater than 30 mph).

Atlanta Avenue has a posted speed limit of 25 mph and is a two lane roadway west of Badcock Place. While it provides direct access to residential units, motorists also use it as a cut-through connection between Wards Ferry Road and Wards Road and the commercial areas along Wards Road.

There are 10 residences fronting the street, however those residences only span an 800-foot length of roadway. Extrapolating this ratio out, a similar roadway of 1,000 feet would meet the 12-residence criterion. As documented by the traffic counts, the average daily traffic on Atlanta Avenue is 5,330 vehicles. And as documented in the speed study, the average speed on Atlanta Avenue is 36.2 mph. Based on all of these analysis measures, Atlanta Avenue meets the requirements to be eligible for traffic management techniques.

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Since Atlanta Avenue meets the eligibility for traffic management, the next step according to the NTMP is to rank it as a prioritized need. Requests for traffic management measures scoring less than 40 points – as shown in **Table 6 -** will automatically be considered a low priority and not considered further for physical measures. Based on the results of **Table 6** with a score of 85 out of a possible 100 points, Atlanta Avenue is qualified to move on to more detailed scoring.

Table 7 shows the results of this detailed analysis, which shows that Atlanta Avenue scores 70 out of a possible 105 points. Based on the results of the traffic calming investigation, it is recommended that physical measures be instituted to aid in traffic calming along Atlanta Avenue. A majority of crashes are located in the eastern end of the corridor - particularly at the intersection of Badcock Place with Atlanta Avenue. At this location, pedestrians may periodically cross Atlanta Avenue to move between shopping centers. Considering these corridor characteristics and as shown in Table 7 the score of 70, the list of potential traffic calming measures at this intersection is presented in **Table 8**.

Table 6 Atlanta Avenue Traffic Management Techniques Priority Calculation Basic Scoring						
Criteria	Points	Basis for Point Assignment	Atlanta Avenue Value	Atlanta Avenue Score		
Speed	0 to 50	85 th percentile traffic speeds more than 5 mph above the posted speed limit (5 points assigned for every mph over)	37.1 mph	35		
Volume	0 to 50	Average daily traffic volumes (2 points assigned for every 100 vehicles per day)	5,330	50		
Total Points Possible	100	Must have at least 40 points to move on to Table 7	-	85		



Table 7 Atlanta Avenue Traffic Management Techniques Priority Calculation Detailed Scoring						
Criteria	Points	Basis for Point Assignment	Atlanta Avenue Value	Atlanta Avenue Score		
Speed	0 to 50	Percentage of vehicles traveling 10 mph over the posted speed (1 point assigned for every 1 percentage point)	66.6%	50		
Volume	0 to 5	Average daily traffic volumes (1 point assigned for every 100 cars over 500 vehicles per day)	5,330	5		
Elementary Schools	0 to 10	5 points assigned for each school zone in study area	None	0		
Pedestrian Generators	0 or 5	5 points assigned for public facilities (such as parks, community centers, and high schools) that generate a significant number of pedestrians on the street	None	0		
Bicycle Route	0 or 10	10 points assigned if any part of the street is a designated bicycle route	No bicycle route	0		
Transit Streets	0 or 10	10 points assigned if any part of the street is a designated transit route	No transit	0		
Pedestrian Facility	Pedestrian 10 points assigned if there is no O or 10 continuous sidewalk on at least one side. No facilities					
Crash Frequency	0 to 5	5 points for injury accidents, 1 point for property damage (last 3 years)	3 injury accidents 21 PDO accidents	5		
Total Points Possible	105	-	-	70		



Table 8 Atlanta Avenue Traffic Calming Measures Atlanta Avenue @ Badcock Place							
Traffic Calming Measure	Description	Drawbacks	Cost				
Traffic Circle	An elevated area in the middle of an intersection	May reduce parking spaces and require additional right-of-way	\$3,500 to \$15,000				
Raised Crosswalk	A raised hump with a 10- foot wide flat top	Slows emergency vehicles Potential drainage problems Increased noise Increased maintenance cost	\$2,500 to \$8,000				
Raised Median Island	An elevated area in the middle of a roadway	Drainage problems Increased maintenance cost	\$5,000 to \$15,000				
Crosswalk Refuge	A raised median in the middle of a roadway with a cut for the crosswalk	Increased maintenance cost	\$5,000 to \$15,000				

The *NTMP* also present a series of traffic calming measures for consideration. Comparing these measures and focusing on pedestrian and bicycle safety and access recommendations in *The Wards Road Area Pedestrian & Bicycle Concept Plan - Signed connector bicycle routes from adjoining neighborhoods west of the study area along <i>Wards Ferry Road, Atlanta Avenue -* the narrow pavement section along the western segment of Atlanta Avenue presents an implementation challenge. Specifically, encouraging the pedestrian and bicycle use with signing on such a narrow roadway is not consistent with promoting traveler safety. Either the pavement section would need to be widened or a separate pedestrian and bicycle facility would need to be installed.

Turning to the speeding issues on Atlanta Avenue, along the western segment of the corridor horizontal and vertical curves tend to slow, and only earthen shoulders with open drainage (ditches – no curbs) are provided. Therefore, the only feasible traffic calming measures that could be used would be a speed hump and/or increased fine zone enhanced enforcement. Speed humps force emergency vehicles to slow, may cause drainage problems, and may impose increased noise and maintenance costs. However, they will also slow other vehicles traveling the roadway. They cost \$2,000 to \$3,000 each to install. Installation of a temporary device would allow further evaluation of this technique and would still leave the option for increased fine zone as a further measure.

⁷ Neighborhood Traffic Management Program .pp. B-1 & B-2.

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Atlanta Avenue Corridor Study

The preferred location for the speed hump is shown in **Figure 8: Multiuse Trail and Speed Hump**, presented in the next section of this report.

Later in this report, Section V presents an analysis of a mini-roundabout at this intersection. With no medians on the pavement section, the next possible traffic calming measure would be a raised crosswalk or speed humps, which would give pedestrians a set point to cross Atlanta Avenue and would further reduce the speed of traffic at this location.



IV. PEDESTRIAN AND BICYCLE INFRASTRUCTURE

A number of pedestrian improvements were recommended in the *Wards Road Area Pedestrian & Bicycle Concept Plan* (2009), and some have been installed along the Wards Road corridor. Many of the improvements are intended to increase pedestrian access and mobility to and from nearby Liberty University. These improvements include a pedestrian tunnel under the railroad from the east side of Wards Road to the Liberty University campus, a pedestrian bridge crossing Wards Road, and the extension of sidewalks and/or trails throughout the area. The recently installed sidewalk network (Phase 1 of plan implementation) terminates at the northeast corner of the intersection of Atlanta Avenue with Badcock Place. From this location, no crosswalk is currently provided across Atlanta Avenue, and no pedestrian facility currently extends along Atlanta Avenue.

Connections to Existing Facility

Based on the current sidewalk location on the northeast corner of the intersection of Badcock Place with Atlanta Avenue, it is recommended that the adopted plan for the area be implemented by installing a crosswalk on the eastern approach to the intersection as well as continuing the multiuse trail along the east side of the driveway from Atlanta Avenue to the Wards Crossing shopping center – part of Phase III of plan implementation. This multiuse trail would eventually run the length of shopping center driveway - from Atlanta Avenue south to Wards Ferry Road. Placing the multiuse trail on the east side of the road would allow access to the businesses located between the shopping center driveway and Wards Road. To gain access to the businesses located on the west side of the Wards Crossing shopping center driveway, crosswalks would be installed at the eastern and western end of the commercial complex and additional crosswalks may also be considered at appropriate locations.

Neighborhood Improvements

To the west of Badcock Place, Atlanta Avenue narrows and becomes exclusively residential – west of the Church of the Brethern. The typical section is 20 feet of pavement width with earthen shoulders and open drainage (ditches). The distance from the edge of pavement to any of the structures is approximately 55 feet. To add any bicycle or pedestrian improvements along the roadway would require right of way acquisition. However, corridor residents who have attended one of the two community meetings have expressed support for a multiuse trail, even it if would impact private property. In response, **Figure 8 – Wards Ferry Road Connection, Multiuse Trail and Speed Hump** displays the proposed pedestrian improvements along Atlanta Avenue.



Atlanta Avenue Corridor Study



V. MINI-ROUNDABOUT

Moving the study focus from the residential to the commercial segment of the corridor, due to its relatively low speeds and high crash frequency, the intersection of Badcock Place with Atlanta Avenue is a potential candidate for a mini-roundabout. A mini-roundabout is an intersection configuration that can be used at physically-constrained locations to mitigate safety issues and reduce excessive delays on minor approaches. Mini-roundabouts operate in the same manner as larger roundabouts, with yield control on all entries and counterclockwise circulation around a mountable central island. Some benefits of mini-roundabouts include its compact size, which eliminates right of way acquisition, traffic safety, traffic calming, and operational efficiency.

Common site applications for mini-roundabouts are at locations where space is constrained, and approach speeds are 30 mph or less. They are useful in and near residential areas as they constrain vehicle speeds, and when compared with a traffic signal, they require lower maintenance costs. Mini-roundabouts are typically designed with a central island is no larger than 90 feet in diameter, and they use a mountable central island in order to accommodate turning movements of larger vehicles with turning radii that may necessitate over-running the island.

To accommodate pedestrian improvements as previously discussed at the intersection of Badcock Place with Atlanta Avenue, the splitter island on the eastern approach (from Wards Road) to the intersection will include a crosswalk cut-through and pedestrian refuge. This will allow pedestrians to cross Atlanta Avenue from the existing sidewalk on the northeast corner to the proposed multiuse trail on the southeast corner. **Figure 9 – Mini-Roundabout** displays a concept for the design of a mini-roundabout at the intersection of Badcock Place with Atlanta Avenue.

Using the peak hour traffic volumes previously shown in **Figure 7** a capacity analysis of the Mini-roundabout Alternative was conducted. Synchro 8 software was used for the analysis using *2010 Highway Capacity Manual* procedures. **Table 9** summarizes the results of the analysis.

By installing a mini-roundabout, the overall delay at the intersection of Atlanta Avenue with Badcock Place improves. HCM analysis indicates that all vehicle movements in the AM peak hour exhibit decreases in delay, while the westbound left movement slightly increases in delay in the PM peak hour; however, this delay increase only results in a better than adequate LOS B. All other movements are forecast to retain or improve their respective service levels. To further analyze the intersection, SimTraffic 8 software was again used to run a microsimulation; the results of these simulations are shown in **Table 10**. The simulations show that the westbound left movement retains its LOS B, but that the side streets decrease their delay further still.



Atlanta Avenue Corridor Study



Mini-Roundabout

FIGURE 9



Table 9 Roundabout Alternative Average Vehicle Delay and Service Levels HCM 2010 Methodology						
	AM Pea	ık Hour	PM Pea	ak Hour		
Approach	Delay (sec.)	LOS	Delay (sec.)	LOS		
Atlanta Avenue @ Bad	cock Place					
EB Left/Through	4.2	А	7.4	А		
EB Right	0.0	А	0.0	Α		
WB Left/Through	5.8	Α	14.1	В		
WB Right 0.0 A 0.0 A						
NB Left/Through/Right	4.2	А	7.3	Α		
SB Left/Through/Right	4.8	А	13.5	В		

Table 10 Roundabout Alternative Average Vehicle Delay and Service Levels SimTraffic Microsimulation						
	AM Pea	ık Hour	PM Pea	ık Hour		
Approach	Delay (sec.)	LOS	Delay (sec.)	LOS		
Atlanta Avenue @ Bad	cock Place					
EB Left/Through	3.5	Α	4.0	Α		
EB Right	2.1	Α	2.4	Α		
WB Left/Through	3.3	Α	14.2	В		
WB Right 1.8 A 2.6 A						
NB Left/Through/Right						
SB Left/Through/Right	2.9	А	4.6	А		

Cost Estimates

Planning level cost estimates were developed for the two recommended improvements.

The cost for the 10 foot wide multiuse trail along the north side of Atlanta from Badcock Place to Wards Ferry Road is \$380,000.

The cost estimate for the mini-roundabout at the intersection of Atlanta Avenue and Badcock Place is \$300,000. The mini-round-about and associated pedestrian improvements could be installed in phases.



VI. PUBLIC INVOLVEMENT PROCESS

The Atlanta Avenue public involvement process was comprised of two public meetings. The first meeting was held April 23, 2015 from 3:00 PM to 6:00 PM at the Church of the Brethren located at 200 Atlanta Avenue. At this meeting preliminary findings and preliminary recommendations were presented using display boards in a town-hall style meeting. Additionally, a Federal Highway Administration (FHWA) video explaining miniroundabouts, which can be accessed at (www.youtube.com/watch?v=94h1TCK-yNs) was played during the meeting. The public was notified of the first meeting through mailings to residences on Atlanta Avenue, advertisements in the local paper, and through the use of variable message boards placed on Atlanta Avenue a week in advance of the meeting.

Sixteen people attended the first public meeting including several residents of Atlanta Avenue. Attendees also included the manager of Badcock Furniture, located in the northwest quadrant of the intersection) and the owner of the Wards Road shopping center, located in the northeast quadrant of the intersection. Material presented at the first public meeting included the following:

- Speed study on Atlanta Avenue displaying average and 85th percentile speeds
- Existing traffic volumes
- Crash diagram of the intersection of Badcock Place and Atlanta Avenue
- Summary of existing capacity analysis and forecasted capacity analysis of the intersection of Badcock Place and Atlanta Avenue
- Diagram of speed hump
- Diagram of roundabout including pedestrian connections

As expressed by attendees, opinions generally favored the proposed mini-roundabout and the speed hump. Most residents and others at the meeting agreed that making left turns from southbound Badcock Place to eastbound Atlanta Avenue was difficult, unsafe and slow during the PM peak period. There was strong public support (especially from residents of Atlanta Avenue) for pedestrian accommodations running the entire length of Atlanta Avenue. Most of the residents of Atlanta Avenue stated that speeding was a major problem on the road. Additionally, several residents of Atlanta Avenue complained of pavement edge drop-offs on the segments that have a significant vertical curve to the west of the Church of the Brethren. The pavement edge drop off-claims were verified and found to be significant - drop-offs as large as 12 inches were found.

The second public meeting was held May 21, 2015 also at the Church of the Brethren from 3:00 p.m. to 6:00 p.m. Eleven people attended the second meeting. Many of the people whom attended the first meeting attended the second meeting. The material presented at the second meeting was the same as the first with multiuse trail added to the figures displaying it along the entire length of Atlanta Avenue. Attendees reiterated

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Atlanta Avenue Corridor Study

many of the comments made at the first meeting. The only additional significant comment that was received was support for moving the speed humps to the west of the location shown at the meetings. At the meetings the display board had the speed humps located directly in front of Church of the Brethren. Residents wanted the speed humps to the hill where speeding was an issue in front of their homes. Eight residents signed a petition in support of the speed humps.



VII. FINDINGS, CONCLUSIONS AND RECOMMENDATIONS

Findings & Conclusions

This study has evaluated the safety and capacity of the Atlanta Avenue corridor from Wards Road to Wards Ferry Road. Additionally, this study examined potential multimodal accommodations along the corridor. Three issues became apparent in conducting the analysis: 1) speeding is excessive; 2) the intersection with Badcock Place exhibits capacity and safety issues; and, 3) pedestrian and bicyclist accommodations or linkages are not provided.

The intersection of Badcock Place and Atlanta Avenue exhibits a poor crash history with 20 crashes in the most recent 3 years of recorded crashes. Additionally, capacity analysis results indicate poor service levels for both the side street left turn movements on the minor street (Badcock Place) approaches. A mini-roundabout is recommended to mitigate the crash frequency and severity as well as the poor service levels.

Turning to the residential neighborhood corridor issues, a speed study was conducted just west of Church of the Brethren, and average speeds were 5-8 MPH and 85th percentile speeds were 10-13 MPH over the posted 25 MPH speed limit. The City of Lynchburg has a traffic calming program in place (*NTMP*) which outlines the specific requirements for the installation of traffic calming measures. Atlanta Avenue scores fairly high in both the basic scoring and detailed scoring. Based on the scoring Atlanta Avenue is eligible for traffic calming measures with approval of 66% of the residents of the street, which requires seven of the ten residents to sign a petition. At the second public meeting eight residents signed a petition in favor of the installation of a speed hump.

Currently Atlanta Avenue does not provide for any pedestrian or bicyclist accommodations either along the length of the corridor or south to planned linkages. Most of the residents attending the two community meetings stated that there was significant pedestrian traffic on the corridor. In response, pedestrian accommodations are recommended on the north side of Atlanta Avenue west of Badcock Place. The preferred accommodation is a 10 foot wide multiuse trail, and installation would include curb and gutter on the edge of the existing pavement with the multiuse trail located immediately adjacent back of curb.

In addition, to link to an existing trail to the Atlanta Avenue trail and to planned facilities to the south, pedestrian crossings should also be accommodated in the mini-roundabout

Two public meetings were held on this study, one on April 23, 2015 and the other on May 21, 2015. Both meetings were held at the Church of the Brethren on Atlanta Avenue from 3-6 PM. Generally most of the meeting attendees were concerned about speeding on the corridor, safety at the Badcock Place intersection, and the lack of

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pedestrian accommodations. Moreover, most of the attendees were in favor of the proposed recommendations to address their concerns for the corridor - a miniroundabout, a speed humps, and a multiuse trail along the length of Atlanta Avenue.

The cost for the 10 foot wide multiuse trail along the north side of Atlanta Avenue from Badcock Place to Wards Ferry Road is \$380,000.

The cost estimate for the mini-roundabout at the intersection of Atlanta Avenue and Badcock Place is \$300,000. The mini-round-about and associated pedestrian improvements could be installed in phases.

Recommendations

1. Install Mini-roundabout at Atlanta Avenue and Badcock Place.

- Address capacity and safety deficiencies at the intersection; and,
- Include a crosswalk on Badcock Place and a crosswalk on the east side of the intersection over Atlanta Avenue.

2. Install a temporary speed hump immediately west of Church of the Brethren.

- Evaluate on a trial basis to reduce excessive vehicular speeds on Atlanta Avenue;
- If the speed hump is effective and it receives a positive resident response, then a permanent speed hump could be evaluated; and,
- The possibility of adding increased fine zone to provide greater enforcement activity also should be evaluated.

3. Install multiuse trail (10 feet in width) on the north side of Atlanta Avenue from Badcock Place to Wards Ferry Road.

- Provide safe pedestrian and bicyclist access from the existing and planned Wards Road corridor trails to planned trail on Wards Ferry Road;
- Address safety issues associated with narrow pavement and ditches on Atlanta Avenue; and,
- Multiuse trail improvement to include installation of curb and gutter (north side of Atlanta Avenue only), with trail set immediately adjacent to the back of curb.



Technical Appendix

Traffic Count Data

Capacity Analysis

Peggy Malone & Associates SPEED SUMMARY Wed 11/5/2014

Station #: 000000020181 Site ID: 000000020181 Location: Atlanta Ave., w/o Church of Brethren Direction: EAST

Lane: 1

File: D1105001.prn City: 14-216 RS Min County: 37.34984, -79.19002

Lane. 1															
TIME	10	15	20	25	30	35	40	45	50	55	60	65	70	71+	Total
14:15	0	0	2	3	8	8	2	0	1	0	0	0	0	0	24
14:30	0	0	0	2	6	8	0	2	0	0	0	0	0	2	20
14:45 15:00	0 0	0 0	0 0	3 6	7 18	8 10	0 2	0 0	1 0	0 0	0 0	0 0	0 0	0 1	19 37
Hour Total	0	0	2	14	39	34	4	2	2	0	0	0	0	3	100
15:15	0	0	0	10	6	11	1	0	0	0	0	0	1	0	29
15:30	0	0	2	0	13	13	2	0	0	0	0	0	0	0	30
15:45	0	0 0	1	1	8	9	0	0 2	0	0	0	0	0	0	19
16:00	0 		0	4	9 	12 	2		0	0 	0	0	0	0 	29
Hour Total	0	0	3	15	36	45	5	2	0	0	0	0	1	0	107
16:15	0	0	0	1	10	10	2	0	0	0	0	0	0	0	23
16:30 16:45	0 0	0 0	0 0	3 5	11 12	10 6	4 2	0 1	0 0	0 0	0 0	0	0 0	0	28 26
17:00	0	0	1	1	13	11	2	0	0	0	0	0	0	2	30
Hour Total	0	0	1	10	46	37	10	1	0	0	0	0	0	2	107
17:15	0	0	1	5	16	2	0	0	0	0	0	0	0	0	24
17:30	1	0	6	10	6	2	0	0	0	0	0	0	0	1	26
17:45 18:00	0 0	0 0	0 1	10 5	11 13	10 5	3 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	34 25
Hour Total	1	0	8	30	46	19	4	0	0	0	0	0	0	1	109
18:15	0	0	0	1	10	11	3	0	0	0	0	0	0	0	25
18:30	0	0	0	5	14	10	3	1	1	0	0	0	0	0	34
18:45	0	0	0	5	12	15	1	0	0	0	0	0	0	0	33
19:00	0 	0	0	2	3	13 	1 	0 	0	0 	0	0	0	0 	19
Hour Total	0	0	0	13	39	49	8	1	1	0	0	0	0	0	111
19:15	0	0	0	10	11	11	3	0	0	0	0	0	0	0	35
19:30 19:45	0 0	0 0	2 1	3 2	9 5	3 8	2 1	0 0	0 0	0 0	0 0	0	0 0	0	19 17
20:00	0	0	0	1	2	5	1	1	0	0	0	0	0	0	10
Hour Total	0	0	3	16	27	27	7	1	0	0	0	0	0	0	81
20:15	0	0	0	0	5	7	2	2	0	0	0	0	0	0	16
20:30	0	0	0	0	5	4	1	0	0	0	0	0	0	0	10
20:45 21:00	0 0	0 0	0	1 1	5 6	5 7	2 1	0 0	0 0	0 0	0 0	0	0 0	0 0	13 15
Hour Total	0	0	0	2	21	23	6	2	0	0	0	0	0	0	54
21:15	0	0	0	0	2	3	0	0	0	0	0	0	0	0	5
21:30	0	0	0	0	2	2	3	0	0	0	0	0	0	0	7
21:45 22:00	0 0	0 0	0	0 1	0 0	2	0 2	1 0	0 0	0 0	0 0	0 0	0 0	0	3 6
Hour Total	 0	 0	 0	<u>-</u> 1	4	 10	5	 1	 0	 0	-	0	 0	 0	21
		0	0												
22.15			(1	1	1	3	1	0	0	0	0	0	0	0	6
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22:15 22:30 22:45	0 0 0	0	0	0	3 0	1 3	1 0	0	0 0	0 0	0 0	0 0	0 0	0	5 3 2

Page: 2

Station #: 000000020181 File: D1105001.prn City: 14-216 RS Min County: 37.34984, -79.19002 Site ID: 000000020181

Location: Atlanta Ave., w/o Church of Brethren

Direction: EAST

Lane: 1

TIME	10	15	20	25	30	35	40	45	50	55	60	65	70	71+	Total
Hour Total	0	0	0	1	6	7	2	0	0	0	0	0	0	0	16
23:15	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
23:30	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1
23:45	0	0	0	0	1	0	1	0	0	0	0	0	0	0	2
24:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hour Total	0	0	0	0	2	1	1	0	0	0	0	0	0	0	4
DAY TOTAL	 1	0	17	102	 266	 252	 52	10	3	0	0	0	1	 6	710
PERCENTS	0.2%	0.0%	2.4%	14.4%	37.5%	35.5%	7.3%	1.4%	0.4%	0.0%	0.0%	0.0%	0.1%	0.8%	100%

Statistical Information...

15th Percentile Speed 24.3 mph

Median Speed 29.4 mph

10 MPH Pace Speed 25 mph to 35 mph 518 vehicles in pace Representing 72.9% of the total vehicles 85th Percentile Speed 34.3 mph

Average Speed 29.5 mph

Vehicles > 30 MPH 324 45.6%

Page: 3

Station #: 000000020181 Site ID: 000000020181 Location: Atlanta Ave., w/o Church of Brethren Direction: EAST File: D1105001.prn City: 14-216 RS Min County: 37.34984, -79.19002

TIME	10	15	20	25	30	35	40	45	50	55	60	65	70	71+	Total
00:15	0	0	0	0	0	1	1	0	0	0	0	0	0	0	2
00:30	0	0	0	0	1	2	1	0	0	0	0	0	0	0	4
00:45 01:00	0	0 0	0 0	0 0	0 1	1 2	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0	1 3
Hour Total		 0	 0	 0	<u>-</u> 2	 6	<u>-</u>	 0	 0	 0	 0	0	 0	 0	10
01:15 01:30	0 0	0 0	0 0	0 0	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0	0 0	0	0 1
01:45	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
02:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hour Total	0	0	0	0	2	0	0	0	0	0	0	0	0	0	2
02:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:30	0	0 0	0 0	0 0	1 0	0 0	0 0	0 0	0 0	0	0 0	0 0	0 0	0	1 0
02:45 03:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hour Total	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
03:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03:45	0	0 0	1 0	0	0	0	0	0 0	0 0	0 0	0	0	0	0	1 0
04:00				0 	0	0	0				0 	0	0 	0 	
Hour Total	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
04:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:30 04:45	0	0 0	0 0	0 0	0 1	0 2	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0	0 3
05:00	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
Hour Total	0	0	0	0	2	2	0	0	0	0	0	0	0	0	4
05:15	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1
05:30	0	0	0	0	0	2	0	0	0	0	0	0	0	0	2
05:45 06:00	0	0 0	0 0	0 0	2 1	0 5	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0	2 6
	0	 0	 0	 0	 3	 7	1	 0	 0	0	 0	0	 0	 0	
Hour Total															11
06:15 06:30	0	0 0	0 0	0 0	1 2	3 3	3	0 0	0 0	0 0	0 0	0 0	0 0	0	7 7
06:45	0	0	0	1	0	1	2 3	0	0	0	0	0	0	0	5
07:00	0	0	0	0	4	3	1	0	0	0	0	0	0	0	8
Hour Total	0	0	0	1	7	10	9	0	0	0	0	0	0	0	27
07:15	0	0	0	0	1	1	2	0	0	0	0	0	0	0	4
07:30	0	0	0	5	4	6	2	0	0	0	0	0	0	0	17
07:45 08:00	0 0	0 0	0 0	3 1	5 1	7 8	3 3	0 0	18 13						
Hour Total	0	0	0	9	11	22	10	0	0	0	0	0	0	0	52
08:15	0	0	0	6	8	4	3	0	0	0	0	0	0	0	21
08:30	0	0	1	1	3	9	5	0	0	0	0	0	0	0	19
08:45	0	1	0	1	2	8	6	0	0	0	0	0	0	2	20
09:00	0	0	0	2	3	13	2	1	0	0	0	0	0	0	21

Peggy Malone & Associates SPEED SUMMARY Thu 11/6/2014

File: D1105001.prn City: 14-216 RS Min

County: 37.34984, -79.19002

Station #: 000000020181 Site ID: 000000020181

Location: Atlanta Ave., w/o Church of Brethren

Direction: EAST

16:45

17:00

Hour Total 1 0 1

41 8

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Ω

File: D1105001.prn

City: 14-216 RS Min County: 37.34984, -79.19002

Page: 5 Thu 11/6/2014

Station #: 000000020181 Site ID: 000000020181 Location: Atlanta Ave., w/o Church of Brethren Direction: EAST Lane: 1

Lane: 1															
TIME	10	15	20	25	30	35	40	45	50	55	60	65	70	71+	Total
17:15	3	0	1	5	22	7	1	0	0	0	0	0	0	0	39
17:30	1	0	1	10	7	2	2	0	0	0	0	0	0	0	23
17:45	0	0	2	4	16	9	1	0	0	0	0	0	0	0	32
18:00	0	0	0	3	13	12	2	0	0	1	0	1	0	0	32
Hour Total	4	0	4	22	58	30	6	0	0	1	0	1	0	0	126
18:15	0	0	0	5	17	10	1	0	0	0	0	0	0	0	33
18:30	0	0	0	8	11	1	0	1	0	0	0	0	0	1	22
18:45	0	0	0	4	10	7	0	0	0	0	0	0	0	0	21
19:00	0	0	0	1	10	7	1	0	0	0	0	0	0	0	19
Hour Total	0	0	0	18	48	25	2	1	0	0	0	0	0	1	95
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19:30	0	0	0	0	7	7	2	1	0	0	0	0	0	0	17
19:45	0	0	0	1	5	7	0	0	0	0	0	0	0	0	13
20:00	0	0	0	1	6	6	0	0	0	0	0	0	0	0	13
Hour Total	0	0	0	9	25	31	5	1	0	0	0	0	0	0	71
20:15	0	0	0	1	7	6	3	0	0	0	0	0	0	0	17
20:30	0	0	0	1	4	2	2	0	0	0	0	0	0	0	9
20:45	0	0	0	4	2	3	0	0	0	0	0	0	0	0	9
21:00	0	0	0	0	6	3	2	0	0	0	0	0	0	0	11
Hour Total	0	0	0	6	19	14	7	0	0	0	0	0	0	0	46
21:15	0	0	0	0	1	4	2	1	0	0	0	0	0	0	8
21:30	0	0	0	1	1	3	2	0	0	0	0	0	0	0	7
21:45	0	0	0	1	3	2	1	0	0	0	0	0	0	0	7
22:00	0	0	0	1	0	4	1	0	0	0	0	0	0	0	6
Hour Total	0	0	0	3	5	13	6	1	0	0	0	0	0	0	28
22:15	0	0	0	0	1	1	0	0	0	0	0	0	0	0	2
22:30	0	0	0	0	3	4	2	0	0	0	0	0	0	0	9
22:45	0	0	0	0	1	1	0	0	1	0	0	0	0	0	3
23:00	0	0	0	1	1	3	0	0	0	0	0	0	0	0	5
Hour Total	0	0	0	1	6	9	2	0	1	0	0	0	0	0	19
23:15	0	0	0	0	2	6	1	0	0	0	0	0	0	0	9
23:30	0	0	0	0	1	0	1	0	0	0	0	0	0	0	2
23:45	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1
24:00	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1
Hour Total	0	0	0	0	3	7	3	0	0	0	0	0	0	0	13
DAY TOTAL		6							4			1	1	7	
PERCENTS	0.4%	0.5%	1.3%	10.4%	37.2%	37.4%	11.2%	1.0%	0.2%	0.0%	0.0%	0.0%	0.0%	0.4%	100%

Page: 6

Station #: 000000020181 File: D1105001.prn City: 14-216 RS Min County: 37.34984, -79.19002 Site ID: 000000020181

Location: Atlanta Ave., w/o Church of Brethren

Direction: EAST

Lane: 1

TIME 10 15 20 25 30 35 40 45 50 55 60 65 70 71+ Total

Statistical Information...

15th Percentile Speed

25.4 mph

Median Speed 30.1 mph

10 MPH Pace Speed

25 mph to 35 mph 1096 vehicles in pace

Representing 74.5% of the total vehicles

85th Percentile Speed 34.8 mph

Average Speed 30.1 mph

Vehicles > 30 MPH 743 50.5%

Page: 7 Fri 11/7/2014

Station #: 000000020181 Site ID: 000000020181 Location: Atlanta Ave., w/o Church of Brethren Direction: EAST

Lane: 1

File: D1105001.prn City: 14-216 RS Min County: 37.34984, -79.19002

Lane: 1															
TIME	10	15	20	25	30	35	40	45	50	55	60	65	70	71+	Total
TIME	10	13	20	23	30	33	10	15	30	33	00	03	70	7	10041
00:15	0	0	0	0	0	2	0	0	0	0	0	0	0	0	2
00:15	0	0	0	0	2	0	0	0	0	0	0	0	0	0	2
00:45	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
01:00	0	0	0	0	2	0	0	0	0	0	0	0	0	0	2
Hour Total	0	0	0	0	5	2	0	0	0	0	0	0	0	0	7
01:15	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1
01:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1 0
01:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:00	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1
Hour Total	0	0	0	0	0	1	1	0	0	0	0	0	0	0	2
02:15	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1
02:30	0	0	0	0	1	0	1	0	0	0	0	0	0	0	2
02:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hour Total	0	0	0	0	1	1	1	0	0	0	0	0	0	0	3
					_		_								
03:15	0	0	0	0	1	0	1	0	0	0	0	0	0	0	2
03:30	0	0	0	0	0	0	1 0	0	0	0	0 0	0	0	0	1 0
03:45 04:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hour Total	0	0	0	0	1	0	2	0	0	0	0	0	0	0	3
04:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:15	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
04:45	0	0	0	0	1	1	0	0	0	0	0	0	0	0	2
05:00	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1
Hour Total	0	0	0	0	2	2	0	0	0	0	0	0	0	0	4
05:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:30	0	0	0	1	0	1	0	0	0	0	0	0	0	0	2
05:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06:00	0	0	0	2	2	2	0	0	0	0	0	0	0	0	6
Hour Total	0	0	0	3	2	3	0	0	0	0	0	0	0	0	8
06:15	0	0	0	0	3	1	2	0	0	0	0	0	0	0	6
06:30	0	0	0	0	3	2	2	0	0	0	0	0	0	0	7
06:45	0	0	0	0	4	3	1	0	0	0	0	0	0	0	8
07:00	0	0	0	1	1	6	2	0	0	0	0	0	0	0	10
m-+-1					11	1.0	 7								21
Hour Total	0	0	0	1	11	12	/	0	0	0	0	0	0	0	31
07:15	0	0	0	1	8	5	1	0	1	0	0	0	0	0	16
07:30	0	0	0	1	4	9	0	0	0	0	0	0	0	0	14
07:45	0	0	0	3	0	7	3	0	0	0	0	0	0	0	13
08:00	0	0	0	0	5	12	5	0	0	0	0	0	0	0	22
Hour Total	0	0	0	5	17	33	9	0	1	0	0	0	0	0	65
00.55	•	•	•	_	_	•	_	-	_	•	•	•	•	_	6.7
08:15	0	0	0	1	6	9	5	0	0	0	0	0	0	0	21
08:30 08:45	0	0 0	0	2	7 6	8 13	5 4	0 1	0 0	0 0	0 0	0 0	0 0	0	22 25
09:00	0	0	1	1 1	5	13 7	4 4	0	0	0	0	0	0	0	18
0.2.00	U	U	Τ.	Τ.	J	,	7	U	U	U	U	U	U	U	10

Peggy Malone & Associates SPEED SUMMARY Fri 11/7/2014

Station #: 000000020181 Site ID: 000000020181 Location: Atlanta Ave., w/o Church of Brethren Direction: EAST

Lane: 1

File: D1105001.prn

City: 14-216 RS Min County: 37.34984, -79.19002

TIME	10	15	20	25	30	35	40	45	50	55	60	65	70	71+	Total
Hour Total	0	 0	1	 5	24	 37	18	 1	 0	0	0	 0	 0	<u>-</u>	86
09:15	1	0	0	1	3	13	3	0	0	0	0	0	0	0	21
09:30	0	0	0	1	12	9	1	0	0	0	0	0	0	0	23
09:45 10:00	0 0	0 0	0	0 1	19 8	15 18	4	1 3	0 0	0	0	0 0	0 0	0	39 33
Hour Total	1	0	0	3	42	55	11	4	0	0	0	0	0	0	116
10:15	0	0	0	2	14	7	1	0	0	0	0	0	0	0	24
10:30	0	0	0	3	14	7	3	0	0	0	0	0	0	0	27
10:45	0	0	0	3	10	14	4	1	0	0	0	0	0	0	32
11:00	0	0	0	4	12	12	1	0	0	0	0	0	0	0	29
Hour Total	0	0	0	12	50	40	9	1	0	0	0	0	0	0	112
11:15	0	0	0	1	10	18	7	0	0	0	0	0	0	0	36
11:30	0	0	0	0	10	16	5	0	1	0	0	0	0	0	32
11:45	0	0	0	0	6	20	1	1	0	0	0	0	0	0	28
12:00	0	0	0	0	12	23	5	0	0	0	0	0	0	1	41
Hour Total	0	0	0	1	38	77	18	1	1	0	0	0	0	1	137
12:15	0	0	0	0	19	29	4	1	0	0	0	0	0	0	53
12:30	0	0	0	0	15	23	6	0	0	0	0	0	0	0	44
12:45	0	0	0	2	10	15	0	0	0	0	0	0	0	0	27
13:00	0	0	1	6	11	9	8	0	0	0	0	0	0	0	35
Hour Total	0	0	1	8	55	76	18	1	0	0	0	0	0	0	159
13:15	0	0	0	2	13	16	5	1	0	0	0	0	0	0	37
13:30	0	0	0	1	15	10	3	0	0	0	0	0	0	0	29
13:45	0	0	0	1	9	9	3	0	0	0	0	0	0	0	22
14:00	0	0	0	3	9	17	3	0	0	0	0	0	0	0	32
Hour Total	0	0	0	7	46	52	14	1	0	0	0	0	0	0	120
14:15	0	0	0	1	5	12	6	0	0	0	0	0	0	0	24
14:30	0	0	0	2	10	17	12	1	0	0	0	0	0	0	42
14:45	0	0	0	0	11	10	1	0	0	0	0	0	0	0	22
15:00	0	0	1	3	7	17	4	1	0	0	0	0	0	0	33
Hour Total	0	0	1	6	33	56	23	2	0	0	0	0	0	0	121
15:15	0	0	0	6	15	9	2	0	0	0	0	0	0	1	33
15:30	0	0	1	1	9	14	4	0	0	0	0	0	0	0	29
15:45	0	1	0	4	15	7	2	0	0	0	0	0	0	0	29
16:00	0	1	0	4	12	8	2	0	0	0	0	0	0	2	29
Hour Total	0	2	1	15	51	38	10	0	0	0	0	0	0	3	120
16:15	0	0	0	3	18	7	6	1	0	0	0	0	0	1	36
16:30	0	0	0	4	16	12	1	2	0	0	1	0	0	0	36
16:45	0	0	0	2	18	8	2	0	0	0	0	0	0	0	30
17:00	1	1	0	2	12	18	3	0	0	0	0	1	0	0	38
Hour Total	1	1	0	11	64	45	12	3	0	0	1	1	0	1	140

Page: 9 Fri 11/7/2014

> File: D1105001.prn City: 14-216 RS Min

County: 37.34984, -79.19002

Station #: 000000020181 Site ID: 000000020181 Location: Atlanta Ave., w/o Church of Brethren

Direction: EAST

Lane: 1

Page: 10

Station #: 000000020181 File: D1105001.prn City: 14-216 RS Min County: 37.34984, -79.19002 Site ID: 000000020181

Location: Atlanta Ave., w/o Church of Brethren

Direction: EAST

Lane: 1

TIME 10 15 20 25 30 35 40 45 50 55 60 65 70 71+ Total

Statistical Information...

15th Percentile Speed

25.6 mph

Median Speed 30.3 mph

10 MPH Pace Speed

25 mph to 35 mph 1386 vehicles in pace

Representing 76.3% of the total vehicles

85th Percentile Speed 34.7 mph

Average Speed 30.3 mph

Vehicles > 30 MPH 946 52.1%

Page: 11 Sat 11/8/2014

Station #: 000000020181 Site ID: 000000020181 Location: Atlanta Ave., w/o Church of Brethren Direction: EAST

Lane: 1

File: D1105001.prn City: 14-216 RS Min County: 37.34984, -79.19002

Lane. 1															
TIME	10	15	20	25	30	35	40	45	50	55	60	65	70	71+	Total
00:15 00:30 00:45 01:00	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 1 4	0 3 1 1	0 1 1 0	0 0 1 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 4 4 6
Hour Total	0	0	0	1	 5	 5	2	1	0	0	0	0	0	0	14
01:15 01:30 01:45 02:00	0 0 0	0 0 0	0 0 0	0 0 0	1 1 0 0	1 3 0 1	0 1 0 1	0 0 0	2 5 0 2						
Hour Total	0	0	0	0	2	5	2	0	0	0	0	0	0	0	9
02:15 02:30 02:45 03:00	0 0 0	0 0 0	0 0 0	0 0 0	2 0 0 0	0 0 0 1	0 0 0	2 0 0 1							
Hour Total	0	0	0	0	2	1	0	0	0	0	0	0	0	0	3
03:15 03:30 03:45 04:00	0 0 0	0 0 0	0 0 0	0 0 0	0 1 0 0	0 1 0 0	0 0 0	0 2 0 0							
Hour Total	0	0	0	0	1	1	0	0	0	0	0	0	0	0	2
04:15 04:30 04:45 05:00	0 0 0	0 0 0	0 0 0	0 0 0	0 1 1 0	0 0 0 3	0 0 0	0 1 1 3							
Hour Total	0	0	0	0	2	3	0	0	0	0	0	0	0	0	5
05:15 05:30 05:45 06:00	0 0 0 0	0 0 0	0 0 0	0 1 0 0	0 0 1 0	1 0 1 1	0 0 0	1 1 2 1							
Hour Total	0	0	0	1	1	3	0	0	0	0	0	0	0	0	5
06:15 06:30 06:45 07:00	0 0 0	0 0 0	0 0 0	0 0 1 0	0 0 3 2	1 0 3 3	0 2 0 0	0 0 0	0 0 0	0 0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	1 2 7 5
Hour Total	0	0	0	1	5	7	2	0	0	0	0	0	0	0	15
07:15 07:30 07:45 08:00	0 0 0 0	0 0 0	0 0 0 0	1 2 1 0	1 2 3 2	1 2 9 2	1 3 0 1	0 1 0 1	0 0 0	0 0 0	0 0 0 0	0 0 0	0 0 0 0	0 0 0	4 10 13 6
Hour Total	0	0	0	4	8	14	5	2	0	0	0	0	0	0	33
08:15 08:30 08:45 09:00	0 0 0 0	0 0 1 0	0 0 0	0 1 1 2	3 4 3 10	7 5 7 9	3 6 7 1	0 0 1 1	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	13 16 20 23

Page: 12 Sat 11/8/2014

Station #: 000000020181 File: D1105001.prn City: 14-216 RS Min County: 37.34984, -79.19002 Site ID: 000000020181

Location: Atlanta Ave., w/o Church of Brethren

Direction: EAST

Lane: 1

TIME	10	15	20	25	30	35	40	45	50	55	60	65	70	71+	Total
															72
Hour Total	0	1	0	4	20	28	17	2	0	0	0	0	0	0	72
09:15	0	0	2	0	4	9	2	1	0	0	0	0	1	0	19
09:30	0	0	0	0	13	14	2	2	0	0	0	0	0	0	31
09:45	0	0	0	0	5	15	6	0	0	0	0	0	0	0	26
10:00	0	0	0	4	9	18	3 	1	0	0	0	0	0	0	35
Hour Total	0	0	2	4	31	56	13	4	0	0	0	0	1	0	111
10:15	0	0	0	3	8	14	6	0	0	0	0	0	0	0	31
10:30	0	0	0	0	7	14	4	0	0	0	0	0	0	0	25
10:45	0	1	4	3	12	21	3	0	0	0	0	0	0	0	44
11:00	0	0	0	3	6	12	2	0	0	0	0	0	0	0	23
Hour Total	0	1	4	9	33	61	15	0	0	0	0	0	0	0	123
11:15	0	0	0	9	19	14	3	0	0	0	0	0	0	0	45
11:30	0	0	0	6	9	18	2	0	0	0	0	0	0	0	35
11:45	0	0	0	6	21	18	2	0	0	0	0	0	0	1	48
12:00	0	0	0	5	13	14	0	0	0	0	0	0	0	0	32
Hour Total	0	0	0	26	62	64	7	0	0	0	0	0	0	1	160
12:15	0	0	0	3	10	20	3	0	0	0	0	0	0	0	36
12:30	0	0	0	5	18	23	3	0	0	0	0	0	0	0	49
12:45	0	0	0	12	16	17	1	0	0	0	0	0	0	0	46
13:00	0	0	0	2	13	22	3	0	0	0	0	0	0	2	42
Hour Total	0	0	0	22	57	82	10	0	0	0	0	0	0	2	173
13:15	0	0	0	5	16	18	5	1	0	0	0	0	0	1	46
13:30	0	0	1	1	30	15	6	0	0	0	0	0	0	0	53
13:45	0	0	0	3	13	18	7	0	0	0	0	0	0	1	42
14:00	1	0	4	2	15	9	4	0	0	0	0	0	0	1	36
Hour Total	1	0	5	11	74	60	22	1	0	0	0	0	0	3	177
DAY TOTAL PERCENTS	1 0.2%	2 0.3%	11 1.3%	83 9.2%	303 33.5%	390 43.2%	95 10.5%	10 1.1%	0 0.0%	0 0.0%	0 0.0%	0 0.0%	1 0.1%	6 0.6%	902 100%

Statistical Information...

15th Percentile Speed 25.6 mph

Median Speed 30.7 mph

10 MPH Pace Speed 25 mph to 35 mph 693 vehicles in pace

Representing 76.8% of the total vehicles

85th Percentile Speed 34.7 mph

Average Speed 30.4 mph

Vehicles > 30 MPH 502 55.7%

______ GRAND TOTAL 11 55 1790 503 9 4 5
12 516 1903 53 2 5 12 516 1903 53 2 5 31 48

PERCENTS 0.3% 0.3% 1.2% 10.6% 36.6% 38.9% 10.2% 1.0% 0.1% 0.0% 0.0% 0.1% 0.1% 0.6% 100% 4899

Page: 13 Wed 11/5/2014

Station #: 000000020181 Site ID: 000000020181 Location: Atlanta Ave., w/o Church of Brethren Direction: WEST File: D1105001.prn City: 14-216 RS Min County: 37.34984, -79.19002

Lane: 2

Danc' Z															
TIME	10	15	20	25	30	35	40	45	50	55	60	65	70	71+	Total
14:15	0	0	0	6	22	21	11	4	0	0	0	0	0	0	64
14:30	0	0	2	3	21	19	20	2	0	1	0	0	0	0	68
14:45	0	0	0	1	24	31	14	2	0	0	0	0	0	0	72
15:00	0	0	1 	4	17 	21 	9 	3	0 	0	0	0	0	0	55
Hour Total	0	0	3	14	84	92	54	11	0	1	0	0	0	0	259
15:15	0	0	1	2	22	24	11	1	0	0	0	0	0	0	61
15:30	0	0	0	0	11	34	17	1	0	0	0	0	0	0	63
15:45	0	0	0	1	23	31	13	3	0	0	0	0	1	1	73
16:00	0	0	0	1	20	39	19	1	0	0	0	0	0	0	80
Hour Total	0	0	1	4	76	128	60	6	0	0	0	0	1	1	277
16:15	0	0	0	2	14	49	14	0	1	0	0	0	0	0	80
16:30	0	0	0	3	14	26	12	2	1	0	0	0	0	0	58
16:45	0	1	0	3	11	37	17	3	0	0	0	0	0	0	72
17:00	4	2	0	2	21	27	19	1	0	0	0	0	0	0	76
Hour Total	4	3	0	10	60	139	62	6	2	0	0	0	0	0	286
17:15	45	15	5	10	8	9	3	0	0	0	0	0	0	0	95
17:30	57	10	3	1	6	1	0	0	0	0	0	0	0	0	78
17:45	14	4	6	6	28	17	8	0	0	0	0	0	0	0	83
18:00	3	15	9	7	10	31	4	2	0	0	0	0	0	0	81
Hour Total	119	44	23	24	52	58	15	2	0	0	0	0	0	0	337
18:15	0	0	0	1	21	33	19	2	0	0	0	0	0	0	76
18:30	0	0	0	0	13	35	15	0	0	0	0	0	0	0	63
18:45	0	0	0	2	5	34	11	3	0	0	0	0	0	0	55
19:00	0	0	0	0	13	28	16	2	1	0	0	0	0	0	60
Hour Total	0	0	0	3	52	130	61	7	1	0	0	0	0	0	254
19:15	0	0	0	2	13	31	11	1	0	0	0	0	0	0	58
19:30	0	0	0	2	14	37	16	2	0	1	0	0	0	0	72
19:45	0	0	0	3	8	21	9	2	0	0	0	0	0	0	43
20:00	0	0	0	1	7	29	14	5	0	0	0	0	0	0	56
Hour Total	0	0	0	8	42	118	50	10	0	1	0	0	0	0	229
20:15	0	0	0	1	5	17	7	4	0	0	1	0	0	0	35
20:30	0	0	1	0	7	26	15	2	0	0	0	0	0	0	51
20:45	0	0	0	1	14	18	13	1	0	0	0	0	0	0	47
21:00	0	0	0	0	11	19	8	1	0	0	0	0	0	0	39
Hour Total	0	0	1	2	37	80	43	8	0	0	1	0	0	0	172
21:15	0	0	0	0	6	23	13	2	0	0	0	0	0	0	44
21:30	0	0	0	1	3	16	12	1	0	0	0	0	0	0	33
21:45	0	0	1	0	7	13		1	0	0	0	0	0	0	30
22:00	0	0	0	2	4	15	8	3	0	0	0	0	0	0	32
Hour Total	0	0	1	3	20	67	41	7	0	0	0	0	0	0	139
22:15	0	0	0	0	3	15	11	0	0	0	0	0	0	0	29
22:30	0	0	0	0	2	7	8	0	0	0	0	0	0	0	17
22:45	0	0	0	0	0	11	14	1	0	0	0	0	0	0	26
23:00	0	0	0	0	2	19	7	1	0	0	0	0	0	0	29
	J	J	0	J	_		,	_	0	J	J	0	0	J	

Page: 14 Wed 11/5/2014

Station #: 000000020181 File: D1105001.prn City: 14-216 RS Min County: 37.34984, -79.19002 Site ID: 000000020181

Location: Atlanta Ave., w/o Church of Brethren

Direction: WEST Lane: 2

TIME 10 15 20 25 30 35 40 45 50 55 60 65 70 71+ Total ______ Hour Total 0 0 0 0 7 52 40 2 0 0 0 0 0 101 0 0 0 0 1 10 10 0 1 7 6 3 0 0 0 0 23:15 0 0 0 0 0 0 0 0 14 1 1 0 0 0 0 0 0 15 1 0 0 0 0 0 23 $\begin{array}{cccc} 1 & 7 & 6 \\ 1 & 4 & 7 \end{array}$ 3 9 Hour Total 0 0 1 1 12 30 26 5 1 0 0 0 0 76

DAY TOTAL 123 47 30 69 442 894 452 64 4 2 1 0 1 1 2130 PERCENTS 5.8% 2.3% 1.5% 3.3% 20.8% 42.0% 21.2% 3.0% 0.1% 0.0% 0.0% 0.0% 0.0% 0.0% 100%

Statistical Information...

15th Percentile Speed 25.6 mph

Median Speed 32.0 mph

10 MPH Pace Speed 30 mph to 40 mph 1346 vehicles in pace Representing 63.1% of the total vehicles 85th Percentile Speed 37.3 mph

Average Speed 30.3 mph

Vehicles > 30 MPH 1419 66.6%

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Thu 11/6/2014

Station #: 000000020181 Site ID: 000000020181 Location: Atlanta Ave., w/o Church of Brethren Direction: WEST File: D1105001.prn City: 14-216 RS Min County: 37.34984, -79.19002

Lane: 2

Lane: 2															
TIME	10	15	20	25	30	35	40	45	50	55	60	65	70	71+	Total
00:15	0	0	0	0	3	11	4	0	0	0	0	0	0	0	18
00:30	0	0	0	2	3	3	4	1	0	0	0	0	0	0	13
00:45	0	0	0	1	3	3	4	1	0	0	0	0	0	0	12
01:00	0	0	0	0	1	1	2	0	0	0	0	0	0	0	4
Hour Total	0	0	0	3	10	18	14	2	0	0	0	0	0	0	47
01:15	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1
01:30	0	0	0	0	2	3	2	2	0	0	0	0	0	0	9
01:45	0	0	0	0	0	2	2	0	0	0	0	0	0	0	4
02:00	0	0	0	0	0	1 	0	0	0	0	0	0	0 	0 	1
Hour Total	0	0	0	0	2	7	4	2	0	0	0	0	0	0	15
02:15	0	0	0	0	1	0	3	0	0	0	0	0	0	0	4
02:30	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
02:45	0	0	0	0	1	1	0	0	0	0	0	0	0	0	2
03:00	0	0	0	0	0	1 	0	0	0	0	0	0	0	0	1
Hour Total	0	0	0	0	3	2	3	0	0	0	0	0	0	0	8
03:15	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
03:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03:45	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1
04:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hour Total	0	0	0	0	1	1	0	0	0	0	0	0	0	0	2
04:15	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1
04:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:45	0	0	0	0	2	0	1	0	0	0	0	0	0	0	3
05:00 	0	0	0	0	0	3	2	2 	0	0	0 	0	0 	0 	7
Hour Total	0	0	0	0	2	4	3	2	0	0	0	0	0	0	11
05:15	0	0	0	0	0	1	0	1	0	0	0	0	0	0	2
05:30	0	0	0	0	0	1	1	0	0	0	0	0	0	0	2
05:45	0	0	0	0	0	1	0	0	1	0	0	0	0	0	2
06:00	0	0	0	0	1	1 1	2	0	0	0	0	0	0	0	4
Hour Total	0	0	0	0	1	4	3	1	1	0	0	0	0	0	10
06:15	0	0	0	0	1	5	1	0	0	0	0	0	0	0	7
06:30	0	0	0	1	2	4	1	0	0	0	0	0	0	0	8
06:45	0	0	0	0	0	7	3	1	0	0	0	0	0	0	11
07:00	0	0	0	0	4	7	3	0	0	0	0	0	0	0	14
Hour Total	0	0	0	1	7	23	8	1	0	0	0	0	0	0	40
07:15	0	0	0	1	1	6	7	1	1	0	0	0	0	0	17
07:30	0	0	0	0	4	13	11	2	0	0	0	0	0	0	30
07:45	0	0	0	1	8	24	14	3	0	0	0	0	0	0	50
08:00	0	1	0	1	9	25	17	3	0	0	0	0	0	0	56
Hour Total	0	1	0	3	22	68	49	9	1	0	0	0	0	0	153
08:15	0	0	0	1	9	12	12	2	0	0	0	0	0	0	36
08:30	0	0	0	0	10	20	6	2	0	0	0	0	0	0	38
08:45	0	0	0	1	9	27	11	0	0	0	0	0	0	0	48
09:00	0	0	0	5	14	30	9	0	0	0	0	0	0	0	58

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Station #: 000000020181 Site ID: 000000020181 Location: Atlanta Ave., w/o Church of Brethren Direction: WEST File: D1105001.prn City: 14-216 RS Min County: 37.34984, -79.19002

Lane: 2

Lane: 2															
TIME	10	15	20	25	30	35	40	45	50	55	60	65	70	71+	Total
Hour Total	0	0	0	7	42	89	38	4	0	0	0	0	0	0	180
09:15	0	0	0	1	4	21	17	5	1	0	0	0	0	0	49
09:30	0	0	0	0	10	21	12	4	1	0	0	0	0	0	48
09:45	0	0	0	1	4	8	8	1	0	0	0	0	0	1	23
10:00	0	0	0	2	13 	20	8	0	0	0	0	0	0	0 	43
Hour Total	0	0	0	4	31	70	45	10	2	0	0	0	0	1	163
10:15	0	0	0	2	4	19	7	0	0	0	0	0	0	0	32
10:30	0	0	0	1	8	23	10	1	0	0	0	0	0	0	43
10:45	0	0	0	0	12	24	18	5	0	1	0	0	0	2	62
11:00	0	0	0	0	7 	33	15 	5 	0	0	0	0	0	0 	60
Hour Total	0	0	0	3	31	99	50	11	0	1	0	0	0	2	197
11:15	0	0	0	2	7	21	9	4	0	0	0	0	0	0	43
11:30	0	0	0	1	12	17	9	0	1	0	0	0	0	0	40
11:45 12:00	0	0	0	0	11 6	24 37	9 19	0 2	0 1	0	0	0 0	0	0	44 65
12.00															
Hour Total	0	0	0	3	36	99	46	6	2	0	0	0	0	0	192
12:15	0	0	0	0	15	27	29	1	0	0	0	0	0	0	72
12:30	0	0	0	0	15	40	15	2	1	0	0	0	0	0	73
12:45	0	0	0	1	17	33	29	3	0	0	0	0	0	0	83
13:00	1	0	0	4		25 	17 	6 	0	1 	0	0	0	0 	62
Hour Total	1	0	0	5	55	125	90	12	1	1	0	0	0	0	290
13:15	0	0	0	2	8	34	17	0	0	0	0	0	0	0	61
13:30	0	0	0	2	6	30	14	2	0	0	0	0	0	0	54
13:45	0	0	0	2	23	30	20	1	0	0	0	0	0	0	76
14:00	0	0	0	1	6 	32	29 	5 	0	0	0	0	0	0 	73
Hour Total	0	0	0	7	43	126	80	8	0	0	0	0	0	0	264
14:15	0	0	0	0	15	28	20	3	1	0	1	0	0	0	68
14:30	0	1	0	0	13	22	13	2	1	0	0	0	0	0	52
14:45	0	0	0	0	6	26	17	3	0	0	0	0	0	0	52
15:00	0	0	0	1	12 	32 	12	4	0	0	0	0	0	1 	62
Hour Total	0	1	0	1	46	108	62	12	2	0	1	0	0	1	234
15:15	0	0	0	2	13	28	14	3	0	0	0	0	0	1	61
15:30	0	1	1	1	17	24	16	4	0	0	0	0	0	0	64
15:45	0	0	0	3	15	41	13	3	0	0	0	0	0	0	75
16:00	0	0	0	0	26 	46 	8	1 	0	0	0	0	0	0 	81
Hour Total	0	1	1	6	71	139	51	11	0	0	0	0	0	1	281
16:15	0	1	6	2	29	22	9	2	0	0	0	0	0	0	71
16:30	0	0	0	0	14	32	16	3	0	0	0	0	0	0	65
16:45	1	0	0	0	12	22	23	2	0	0	0	0	0	0	60
17:00	14	8	4	1	14	25	14	0	0	0	0	0	0	0	80
Hour Total	15	9	10	3	69	101	62	7	0	0	0	0	0	0	276

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Station #: 000000020181 File: D1105001.prn City: 14-216 RS Min Site ID: 000000020181 County: 37.34984, -79.19002

Location: Atlanta Ave., w/o Church of Brethren

Direction: WEST Lane: 2

TIME 10 15 20 25 30 35 40 45 50 55 60 65 70 71+ Total 17:30 Ω Ω Ω Ω Ω Ω 17:45 Ω Ω Ω Λ Ω Ω _____ Hour Total 63 2.0 Ω Ο Ω 18:15 18:30 18:45 19:00 Hour Total 0 19:15 Ω Ω Ω Ω Ω Ω Ω Ω 19:30 19:45 20:00 Ω Ω Ω Ω Ω Ω Ω Ω Ω _____ Hour Total 20:15 20:30 Ω Ω Ω Ω 20:45 21:00 _____ Hour Total Ω 21:15 2.7 21:30 Ω Ω Ω Ω Ω Ω Ω Ω Ω Ω 21:45 Ω Ω Ω Ω Ω Ω Ω Ω Ω 22:00 Hour Total 0 22:15 22:30 22:45 Ω Ω Ω Ω Ω Ω Ω Ω Ω 23:00 Ω Hour Total 23:15 Ω Ω Ω Ω Ω Ω Ω Ω 23:30 23:45 0 Õ 24:00 Ο _____ _____ Hour Total DAY TOTAL 79 17 18 85 736 1683 878 133 11 2 2 0 1 5 3650 PERCENTS 2.2% 0.5% 0.5% 2.4% 20.2% 46.2% 24.0% 3.6% 0.3% 0.0% 0.0% 0.0% 0.0% 0.1% 100%

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Station #: 000000020181 File: D1105001.prn City: 14-216 RS Min County: 37.34984, -79.19002 Site ID: 000000020181

Location: Atlanta Ave., w/o Church of Brethren

Direction: WEST

Lane: 2

TIME 10 15 20 25 30 35 40 45 50 55 60 65 70 71+ Total

Statistical Information...

15th Percentile Speed

27.4 mph

Median Speed 32.7 mph

10 MPH Pace Speed

30 mph to 40 mph 2561 vehicles in pace

Representing 70.1% of the total vehicles

85th Percentile Speed 37.8 mph

Average Speed 32.2 mph

Vehicles > 30 MPH 2715 74.4%

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Fri 11/7/2014

Station #: 000000020181 Site ID: 000000020181 Location: Atlanta Ave., w/o Church of Brethren Direction: WEST Lane: 2 File: D1105001.prn City: 14-216 RS Min County: 37.34984, -79.19002

Lane: 2															
TIME	10	15	20	25	30	35	40	45	50	55	60	65	70	71+	Total
00:15	0	0	0	0	4	7	2	0	0	0	0	0	0	0	13
00:30	0	0	0	0	2	3	3	0	0	0	0	0	0	0	8
00:45	0	0	0	0	3	3	0	0	0	0	0	0	0	0	6
01:00	0	0	0	0	3	2	4	0	0	0	0	0	0	0	9
Hour Total	0	0	0	0	12	15	9	0	0	0	0	0	0	0	36
01:15	0	0	0	0	3	2	1	0	0	0	0	0	0	0	6
01:30	0	0	0	0	0	3	1	0	0	0	0	0	0	0	4
01:45	0	0	0	0	1	2	0	0	1	0	0	0	0	0	4
02:00	0	0	0	0	1	2	3	0	0	0	0	0	0	0	6
Hour Total	0	0	0	0	5	9	5	0	1	0	0	0	0	0	20
02:15	0	0	0	0	1	0	2	0	0	0	0	0	0	0	3
02:30	0	0	0	0	1	2	0	0	0	0	0	0	0	0	3
02:45	0	0	0	0	0	3	0	0	0	0	0	0	0	0	3
03:00	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1
Hour Total	0	0	0	0	2	6	2	0	0	0	0	0	0	0	10
03:15	0	0	0	0	0	1	0	0	1	0	0	0	0	0	2
03:30	0	0	0	0	1	1	0	2	0	0	0	0	0	0	4
03:45	0	0	0	0	1	1	1	0	0	0	0	0	0	0	3
04:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hour Total	0	0	0	0	2	3	1	2	1	0	0	0	0	0	9
04:15	0	0	0	0	1	1	0	0	0	0	0	0	0	0	2
04:30	0	0	0	0	0	1	1	0	0	0	0	0	0	0	2
04:45	0	0	0	0	1	1	1	0	0	0	0	0	0	0	3
05:00	0	0	0	0	0	3	1	0	0	0	0	0	0	0	4
Hour Total	0	0	0	0	2	6	3	0	0	0	0	0	0	0	11
05:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:30	0	0	0	1	1	0	2	0	0	0	0	0	0	0	4
05:45	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
06:00	0	0	0	0	0	1	2	1	0	0	0	0	0	0	4
Hour Total	0	0	0	1	1	1	4	2	0	0	0	0	0	0	9
06:15	0	0	0	0	0	2	0	0	0	0	0	0	0	0	2
06:30	0	0	0	1	0	3	1	1	0	0	0	0	0	0	6
06:45	0	0	0	0	1	2	5	0	0	0	0	0	0	0	8
07:00	0	0	0	1	3	2	3	1	0	0	0	0	0	0	10
Hour Total	0	0	0	2	4	9	9	2	0	0	0	0	0	0	26
07:15	0	0	0	0	0	11	6	1	0	0	0	0	0	0	18
07:30	0	0	0	1	6	20	17	0	0	0	0	0	0	0	44
07:45	0	0	0	0	6	22	17	3	0	0	0	0	0	0	48
08:00	0	0	0	1	3	24	16	4	0	0	0	0	0	0	48
Hour Total	0	0	0	2	 15	77	 56	8	0	0	0	0	0	0	158
00:15	^	_	•	-	_	0.5		_	^	•	•	^	^	^	4.7
08:15	0	0	0	1	2	25	11	2	0	0	0	0	0	0	41
08:30 08:45	0 0	0 0	0 0	0 0	8 3	26 28	15 11	2 5	0 0	0 0	0	0 0	0 0	0	51 47
08:45	0	0	0	1	3 6	28 24	16	5 7	1	0	0	0	0	0	4 / 55
09.00	U	U	U	Т	O	∠4	Τ0	,	Т	U	U	U	U	U	23

Page: 20 Fri 11/7/2014

Station #: 000000020181 Site ID: 000000020181 Location: Atlanta Ave., w/o Church of Brethren Direction: WEST File: D1105001.prn City: 14-216 RS Min County: 37.34984, -79.19002

Lane: 2

13:15	Lane. Z															
09:15 0 0 0 0 0 6 17 13 2 0 0 0 0 0 0 38 09:30 0 0 0 1 11 19 13 2 0 0 0 0 0 0 0 0 0 41 10:00 0 0 0 1 15 27 19 1 0 0 0 0 0 0 0 41 10:00 0 0 0 0 1 15 27 19 1 0 0 0 0 0 0 0 63 Nour Total 0 0 0 0 0 6 2 1 20 1 2 0 0 0 0 0 0 0 0 0 53 Nour Total 0 0 0 0 0 6 2 1 20 1 2 0 0 0 0 0 0 0 0 0 53 Nour Total 0 0 0 0 0 6 2 1 20 1 2 0 0 0 0 0 0 0 0 53 Nour Total 0 0 0 0 0 6 2 1 20 0 0 0 0 0 0 0 0 0 59 Nour Total 0 0 0 0 0 18 21 13 1 0 0 0 0 0 0 0 0 59 Nour Total 0 0 0 0 18 21 13 1 0 0 0 0 0 0 0 0 59 Nour Total 0 0 1 1 1 5 53 89 66 3 3 0 0 0 0 0 0 0 0 59 Nour Total 0 1 1 5 53 89 66 3 3 0 0 0 0 0 0 0 0 22 Nour Total 0 1 1 5 53 89 66 3 3 0 0 0 0 0 0 0 0 0 22 Nour Total 0 1 1 5 53 89 66 3 3 0 0 0 0 0 0 0 0 22 Nour Total 0 1 1 5 53 89 66 3 3 0 0 0 0 0 0 0 0 0 22 Nour Total 0 1 1 5 53 89 66 3 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	TIME	10	15	20	25	30	35	40	45	50	55	60	65	70	71+	Total
09:15 0 0 0 0 0 6 17 13 2 0 0 0 0 0 0 38 09:30 0 0 0 1 11 19 13 2 0 0 0 0 0 0 0 0 0 41 10:00 0 0 0 1 15 27 19 1 0 0 0 0 0 0 0 41 10:00 0 0 0 0 1 15 27 19 1 0 0 0 0 0 0 0 63 Nour Total 0 0 0 0 0 6 2 1 20 1 2 0 0 0 0 0 0 0 0 0 53 Nour Total 0 0 0 0 0 6 2 1 20 1 2 0 0 0 0 0 0 0 0 0 53 Nour Total 0 0 0 0 0 6 2 1 20 1 2 0 0 0 0 0 0 0 0 53 Nour Total 0 0 0 0 0 6 2 1 20 0 0 0 0 0 0 0 0 0 59 Nour Total 0 0 0 0 0 18 21 13 1 0 0 0 0 0 0 0 0 59 Nour Total 0 0 0 0 18 21 13 1 0 0 0 0 0 0 0 0 59 Nour Total 0 0 1 1 1 5 53 89 66 3 3 0 0 0 0 0 0 0 0 59 Nour Total 0 1 1 5 53 89 66 3 3 0 0 0 0 0 0 0 0 22 Nour Total 0 1 1 5 53 89 66 3 3 0 0 0 0 0 0 0 0 0 22 Nour Total 0 1 1 5 53 89 66 3 3 0 0 0 0 0 0 0 0 22 Nour Total 0 1 1 5 53 89 66 3 3 0 0 0 0 0 0 0 0 0 22 Nour Total 0 1 1 5 53 89 66 3 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0																
09:30 0 0 0 0 1 11 199 13 2 0 0 0 0 0 0 0 0 0 0 4 10:10 199 110 20 1 10:00 0 0 0 0 0 1 15 27 199 1 0 0 0 0 0 0 0 0 0 188 10:10 0 0 0 0 0 1 15 27 199 1 0 0 0 0 0 0 0 0 0 0 188 10:15 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Hour Total	0	0	0	2	19	103	53	16	1	0	0	0	0	0	194
09:45	09:15	0	0	0	0	6	17	13	2	0	0	0	0	0	0	38
Hour Total 0 0 0 0 1 15 27 19 1 0 0 0 0 0 0 0 188 10:15	09:30	0	0	0	1	11	19	13	2	0	0	0	0	0	0	46
Hour Total 0 0 0 0 2 36 85 56 8 0 1 0 0 0 0 188 10:15 0 0 0 0 0 0 6 21 20 1 2 0 0 0 0 0 0 59 10:30 0 1 0 4 13 26 15 0 0 0 0 0 0 0 59 10:45 0 0 0 0 1 8 21 13 1 0 0 0 0 0 0 59 11:00 0 1 1 1 16 21 18 1 1 0 0 0 0 0 0 59 Hour Total 0 1 1 5 53 89 66 3 3 0 0 0 0 0 0 0 221 11:15 0 0 0 0 0 7 22 7 1 0 0 0 0 0 0 1 38 11:30 0 0 0 0 0 1 9 29 12 2 1 0 0 0 0 0 0 0 63 11:45 0 0 0 0 0 3 9 29 12 1 10 0 0 0 0 0 0 63 11:45 0 0 0 0 0 2 7 31 17 2 0 0 0 0 0 0 0 59 Hour Total 0 0 0 2 39 121 50 8 1 0 0 0 0 0 0 0 59 Hour Total 0 0 0 2 39 121 50 8 1 0 0 0 0 0 0 1 59 Hour Total 0 0 0 0 0 9 23 21 2 0 0 0 0 0 0 0 1 56 12:30 0 0 0 0 0 0 2 45 19 3 0 0 0 0 0 0 0 87 12:45 0 0 0 0 0 1 3 3 21 20 22 1 0 0 0 0 0 0 0 1 56 12:30 0 0 0 0 0 1 3 3 21 20 22 1 0 0 0 0 0 0 0 0 68 Hour Total 0 0 1 3 61 125 79 8 0 0 0 0 0 0 0 0 68 Hour Total 0 0 1 1 3 61 125 79 8 0 0 0 0 0 0 0 0 74 14:45 0 0 0 0 0 1 3 2 29 29 4 0 0 0 0 0 0 0 0 74 14:40 0 0 0 0 1 1 3 61 125 19 1 0 0 0 0 0 0 0 0 74 14:40 0 0 0 0 0 1 1 40 117 103 18 0 0 0 0 0 0 0 74 14:40 0 0 0 0 0 1 1 22 2 2 3 3 1 2 2 0 0 0 0 0 0 0 0 74 14:40 0 0 0 0 0 1 1 40 117 103 18 0 0 0 0 0 0 0 78 13:45 0 0 0 0 0 1 1 40 117 103 18 0 0 0 0 0 0 0 78 13:45 0 0 0 0 0 1 1 2 29 24 3 1 0 0 0 0 0 0 0 74 14:30 0 0 0 0 1 1 12 29 24 3 1 0 0 0 0 0 0 0 74 14:30 0 0 0 0 1 1 12 29 24 3 1 0 0 0 0 0 0 0 78 13:45 0 0 0 0 0 1 1 2 29 24 3 1 0 0 0 0 0 0 0 78 13:45 0 0 0 0 0 1 1 40 117 103 18 0 0 0 0 0 0 0 78 13:45 0 0 0 0 0 1 1 40 117 103 18 0 0 0 0 0 0 0 77 14:30 0 0 0 0 0 1 1 12 29 24 3 1 0 0 0 0 0 0 0 78 13:45 0 0 0 0 0 1 1 12 29 24 3 1 0 0 0 0 0 0 0 77 14:50 0 0 0 0 0 1 1 12 29 24 3 1 0 0 0 0 0 0 0 78 15:15 0 0 0 0 0 1 1 12 29 24 3 1 0 0 0 0 0 0 0 0 78 15:15 0 0 0 0 0 1 1 12 29 24 3 1 0 0 0 0 0 0 0 0 78 15:15 0 0 0 0 0 1 1 1 2 29 24 3 1 0 0 0 0 0 0 0 0 78 15:15 0 0 0 0 0 0 1 1 1 2 27 17 3 0 0 0 0 0 0 0 0 73 14:45 0 0 0 0 0 0 1 1 1 1 29 24 3 1 0 0 0 0 0 0 0 0 73 16:15 0 0 0 0 0 0 1 1 1 1 29 24 3 1 0 0 0 0 0 0 0 0 0 73 16:15 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1	09:45	0	0	0	0	4	22	11	3	0	1	0	0	0	0	41
10:15 0 0 0 0 0 6 21 20 1 2 0 0 0 0 0 0 55 10:30 0 1 0 4 13 26 15 0 0 0 0 0 0 0 59 10:45 0 0 0 0 1 1 1 16 21 18 1 1 0 0 0 0 0 0 59 11:00 0 0 1 1 1 16 21 18 1 1 0 0 0 0 0 0 0 59 Hour Total 0 1 1 5 53 89 66 3 3 0 0 0 0 0 0 1 3 138 11:30 0 0 0 0 0 7 22 7 1 0 0 0 0 0 0 1 38 11:45 0 0 0 0 0 1 9 29 12 2 1 0 0 0 0 0 0 0 63 11:45 0 0 0 0 0 2 7 31 17 2 0 0 0 0 0 0 0 59 Hour Total 0 0 0 0 2 7 31 17 2 0 0 0 0 0 0 0 59 Hour Total 0 0 0 0 2 7 31 17 2 0 0 0 0 0 0 0 59 Hour Total 0 0 1 3 17 2 2 7 1 0 0 0 0 0 0 0 0 59 12:00 0 0 0 0 0 2 7 31 17 2 0 0 0 0 0 0 0 0 59 12:00 0 0 0 0 0 6 39 14 3 0 0 0 0 0 0 0 59 Hour Total 0 0 1 3 21 50 8 1 0 0 0 0 0 0 0 59 Hour Total 0 0 0 0 2 39 121 50 8 1 0 0 0 0 0 0 0 1 222 12:15 0 0 0 0 0 0 2 45 19 3 0 0 0 0 0 0 0 0 1 56 12:30 0 0 0 0 1 3 21 20 22 1 0 0 0 0 0 0 0 0 87 13:00 0 0 1 3 3 1 177 2 0 0 0 0 0 0 0 0 87 13:00 0 0 1 3 3 1 177 2 0 0 0 0 0 0 0 0 87 13:00 0 0 0 1 3 21 20 22 1 0 0 0 0 0 0 0 0 68 Hour Total 0 0 1 3 61 125 79 8 0 0 0 0 0 0 0 0 68 Hour Total 0 0 1 3 61 125 79 8 0 0 0 0 0 0 0 0 0 68 Hour Total 0 0 1 1 3 61 125 79 8 0 0 0 0 0 0 0 0 0 78 13:45 0 0 0 0 0 1 3 21 20 22 1 0 0 0 0 0 0 0 0 78 13:45 0 0 0 0 0 1 3 81 177 2 0 0 0 0 0 0 0 0 0 78 13:45 0 0 0 0 0 1 3 21 20 22 1 0 0 0 0 0 0 0 0 78 13:45 0 0 0 0 0 1 1 40 117 103 18 0 0 0 0 0 0 0 78 13:45 0 0 0 0 0 1 1 40 117 103 18 0 0 0 0 0 0 0 78 13:45 0 0 0 0 0 1 1 40 117 103 18 0 0 0 0 0 0 0 77 14:30 0 0 0 0 0 1 1 40 117 103 18 0 0 0 0 0 0 0 0 78 13:45 0 0 0 0 0 1 1 11 29 24 3 1 0 0 0 0 0 0 0 77 14:30 0 0 0 0 0 1 1 11 29 24 3 1 0 0 0 0 0 0 0 0 78 15:15 0 0 0 0 0 1 1 11 29 24 3 1 0 0 0 0 0 0 0 0 78 15:15 0 0 0 0 0 1 1 11 29 24 3 1 0 0 0 0 0 0 0 0 0 78 15:15 0 0 0 0 0 1 1 11 29 17 73 0 0 0 0 0 0 0 0 0 78 15:15 0 0 0 0 0 1 1 11 29 24 3 3 1 0 0 0 0 0 0 0 0 78 15:15 0 0 0 0 0 0 1 1 11 29 17 73 0 0 0 0 0 0 0 0 0 78 15:15 0 0 0 0 0 0 1 1 11 29 17 73 0 0 0 0 0 0 0 0 0 0 78 15:15 0 0 0 0 0 0 1 1 11 29 17 73 0 0 0 0 0 0 0 0 0 0 78 15:15 0 0 0 0 0 0 1 1 1 1 29 14 0 0 0 0 0 0 0 0 0 0 0 0 0 78 15:15 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	10:00	0	0	0	1	15	27	19	1	0	0	0	0	0	0	63
10:30	Hour Total	0	0	0	2	36	85	56	8	0	1	0	0	0	0	188
10:45 0 0 0 0 1 18 21 13 1 0 0 0 0 0 0 53 11:00 0 0 0 1 1 1 1 6 21 18 1 1 0 0 0 0 0 0 0 59 Hour Total 0 1 1 5 5 53 89 66 3 3 3 0 0 0 0 0 0 0 221 11:15 0 0 0 0 0 19 29 12 2 1 0 0 0 0 0 0 1 38 11:30 0 0 0 0 2 7 31 17 2 0 0 0 0 0 0 0 59 12:00 0 0 0 0 0 6 39 14 3 0 0 0 0 0 0 0 0 59 12:00 0 0 0 0 0 0 6 39 14 3 0 0 0 0 0 0 0 0 62 Hour Total 0 0 0 0 0 9 23 21 50 8 1 0 0 0 0 0 0 1 222 12:15 0 0 0 0 0 0 2 23 21 2 0 0 0 0 0 0 1 222 12:15 0 0 0 0 0 0 9 23 21 50 8 1 0 0 0 0 0 0 0 87 12:45 0 0 0 0 0 2 27 39 121 50 8 1 0 0 0 0 0 0 0 68 12:45 0 0 0 0 0 2 25 14 31 37 17 2 0 0 0 0 0 0 0 0 87 13:00 0 0 0 1 3 61 125 79 8 0 0 0 0 0 0 0 68 Hour Total 0 0 1 3 61 125 79 8 0 0 0 0 0 0 0 0 68 Hour Total 0 0 0 1 4 24 20 4 0 0 0 0 0 0 0 68 13:30 0 0 0 0 0 9 32 30 7 0 0 0 0 0 78 13:45 0 0 0 0 0 0 9 32 30 7 0 0 0 0 0 78 13:45 0 0 0 0 0 18 29 24 3 0 0 0 0 0 0 0 78 13:45 0 0 0 0 0 18 29 24 3 0 0 0 0 0 0 0 78 13:45 0 0 0 0 0 1 2 28 Hour Total 0 0 0 1 2 40 117 103 18 0 0 0 0 0 0 0 0 78 14:45 0 0 0 0 0 1 1 40 117 103 18 0 0 0 0 0 0 0 0 78 14:45 0 0 0 0 0 1 1 12 29 19 1 0 0 0 0 0 0 0 0 78 14:45 0 0 0 0 0 1 1 12 29 19 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	10:15	0			0	6	21					0	0	0	0	
11:00	10:30	0	1	0	4	13	26	15	0	0	0	0	0	0	0	59
Hour Total 0 1 1 5 53 89 66 3 3 0 0 0 0 0 0 221 11:15 0 0 0 0 0 7 22 7 1 0 0 0 0 0 0 1 38 11:30 0 0 0 0 0 19 29 12 2 1 0 0 0 0 0 0 63 11:45 0 0 0 0 2 7 31 17 2 0 0 0 0 0 0 63 12:00 0 0 0 0 6 39 14 3 0 0 0 0 0 0 6 Hour Total 0 0 0 0 9 23 21 2 0 0 0 0 0 0 1 56 12:30 0 0 0 0 0 2 45 19 3 0 0 0 0 0 0 0 7 13:00 0 0 0 1 3 21 20 22 1 0 0 0 0 0 0 0 68 Hour Total 0 0 1 3 61 125 79 8 0 0 0 0 0 0 0 68 Hour Total 0 0 1 3 61 125 79 8 0 0 0 0 0 0 0 1 278 13:15 0 0 0 1 3 61 125 79 8 0 0 0 0 0 0 0 74 13:45 0 0 0 0 1 4 24 20 4 0 0 0 0 0 0 74 13:45 0 0 0 0 0 9 32 30 7 0 0 0 0 0 74 13:45 0 0 0 0 1 1 3 61 125 79 8 0 0 0 0 0 0 0 0 0 74 13:45 0 0 0 0 1 1 3 61 125 79 8 0 0 0 0 0 0 0 0 78 13:45 0 0 0 0 1 1 4 24 20 4 0 0 0 0 0 0 1 278 13:45 0 0 0 0 1 1 4 24 20 4 0 0 0 0 0 0 74 13:40 0 0 0 0 1 1 4 24 20 4 0 0 0 0 0 0 74 13:45 0 0 0 0 0 1 1 4 24 20 4 0 0 0 0 0 0 0 74 14:00 0 0 0 0 1 1 4 29 19 1 0 0 0 0 0 0 74 14:15 0 0 0 0 1 1 4 29 19 1 0 1 0 0 0 0 0 73 14:45 0 0 0 0 0 1 14 29 19 1 0 1 0 0 0 0 0 73 14:45 0 0 0 0 0 1 14 29 19 1 0 1 0 0 0 0 73 14:45 0 0 0 0 0 1 14 29 19 1 0 1 0 0 0 0 73 14:45 0 0 0 0 0 1 1 27 17 3 0 0 0 0 0 0 73 14:45 0 0 0 0 0 1 1 27 17 3 0 0 0 0 0 0 0 78 15:15 0 0 0 0 0 1 1 27 17 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	10:45	0	0	0	0	18	21	13	1	0	0	0	0	0	0	53
11:15	11:00	0	0	1	1	16	21	18	1	1	0	0	0	0	0	59
11:30	Hour Total	0	1	1	5	53	89	66	3	3	0	0	0	0	0	221
11:45	11:15	0	0	0	0	7			1	0	0	0	0	0	1	
12:00	11:30	0	0	0	0	19	29	12	2	1	0	0	0	0	0	63
Hour Total 0 0 0 0 2 39 121 50 8 1 0 0 0 0 1 222 12:15 0 0 0 0 0 9 23 21 2 0 0 0 0 0 0 1 56 12:30 0 0 0 0 0 20 45 19 3 0 0 0 0 0 0 0 0 87 12:45 0 0 0 0 1 3 21 20 22 1 0 0 0 0 0 0 0 68 13:00 0 0 1 3 321 20 22 1 0 0 0 0 0 0 0 0 68 Hour Total 0 0 1 3 61 125 79 8 0 0 0 0 0 1 278 13:15 0 0 0 1 4 24 20 4 0 0 0 0 1 0 54 13:30 0 0 0 0 0 9 32 30 7 0 0 0 0 0 7 8 13:45 0 0 0 0 0 1 8 29 24 3 0 0 0 0 0 0 0 73 14:00 0 0 0 1 14 29 19 1 0 0 0 0 0 1 75 Hour Total 0 0 0 1 14 29 19 1 0 0 0 0 0 0 0 73 14:45 0 0 0 0 1 14 29 19 1 0 0 0 0 0 0 0 0 73 14:45 0 0 0 0 1 14 29 19 1 0 0 0 0 0 0 0 0 73 14:45 0 0 0 0 1 14 29 19 1 0 0 0 0 0 0 0 0 68 Hour Total 0 0 0 1 1 281 13:15 0 0 0 0 1 1 281 14:15 0 0 0 0 1 1 281 14:15 0 0 0 0 1 1 281 14:15 0 0 0 0 1 1 281 15:15 0 0 0 0 1 1 29 24 3 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	11:45	0	0	0	2	7			2	0	0	0	0	0	0	59
12:15 0 0 0 0 9 23 21 2 0 0 0 0 0 0 1 56 12:30 0 0 0 0 0 20 45 19 3 0 0 0 0 0 0 0 87 12:45 0 0 0 0 11 37 17 2 0 0 0 0 0 0 0 67 13:00 0 0 1 3 21 20 22 1 0 0 0 0 0 0 0 68 Hour Total 0 0 1 3 61 125 79 8 0 0 0 0 0 1 0 54 13:330 0 0 0 0 0 1 4 24 20 4 0 0 0 0 1 0 54 13:30 0 0 0 0 0 9 32 30 7 0 0 0 0 0 0 78 13:45 0 0 0 0 0 9 32 29 4 0 0 0 0 0 0 74 14:00 0 0 0 0 1 40 117 103 18 0 0 0 0 0 1 75 Hour Total 0 0 1 1 4 29 19 1 0 0 0 0 0 1 28 14:15 0 0 0 0 1 14 29 19 1 0 0 0 0 0 0 68 Hour Total 0 0 0 1 1 4 29 19 1 0 0 0 0 0 0 68 14:45 0 0 0 0 0 20 32 19 1 0 1 0 0 0 0 68 15:00 0 0 0 1 11 29 24 3 1 0 0 0 0 0 0 69 Hour Total 0 0 0 7 60 114 83 9 1 1 0 0 0 0 0 69 Hour Total 0 0 0 7 46 19 40 0 0 0 0 0 0 0 0 0 69 Hour Total 0 0 0 1 1 1 1 29 24 3 1 0 0 0 0 0 0 0 0 0 69 Hour Total 0 0 0 8 38 15 3 0 0 0 0 0 0 0 73 16:45 0 0 0 1 1 1 1 23 36 21 2 0 0 0 0 0 0 0 0 73 16:30 0 0 0 0 1 1 1 1 27 17 3 0 0 0 0 0 0 0 74 16:00 0 0 0 1 3 48 154 76 15 1 0 1 0 0 0 0 73 16:45 0 0 0 1 3 3 20 48 15 3 0 0 0 0 0 0 0 0 0 0 99 Hour Total 0 0 0 1 3 48 154 76 15 1 0 1 0 0 0 0 0 99 Hour Total 0 0 0 1 3 20 48 15 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	12:00	0	0	0	0	6	39	14	3	0	0	0	0	0	0	62
12:30	Hour Total	0	0	0	2	39	121	50	8	1	0	0	0	0	1	222
12:45 0 0 0 1 1 3 21 20 22 1 0 0 0 0 0 0 68 Hour Total 0 0 1 3 61 125 79 8 0 0 0 0 0 0 1 278 13:15 0 0 0 1 4 24 20 4 0 0 0 0 1 0 54 13:30 0 0 0 0 9 32 30 7 0 0 0 0 0 0 7 45 19 6 1 0 0 0 0 0 0 68 Hour Total 0 0 1 14 29 19 1 0 0 0 0 0 0 0 69 Hour Total 0 0 0 1 14 29 19 1 0 0 0 0 0 0 78 14:45 0 0 0 0 0 20 32 19 1 0 0 0 0 0 0 78 14:45 0 0 0 0 0 1 14 29 19 1 0 0 0 0 0 0 73 14:45 0 0 0 0 0 1 11 29 24 3 1 0 0 0 0 0 0 73 15:15 0 0 0 0 1 11 29 24 3 1 0 0 0 0 0 0 0 78 Hour Total 0 0 0 1 11 29 24 3 1 0 0 0 0 0 0 0 78 Hour Total 0 0 0 1 11 29 24 3 1 0 0 0 0 0 0 0 78 Hour Total 0 0 0 1 11 29 24 3 1 0 0 0 0 0 0 0 78 Hour Total 0 0 0 7 60 114 83 9 1 1 0 0 0 0 0 0 78 15:15 0 0 0 0 11 1 27 17 3 0 0 0 0 0 0 78 15:15 0 0 0 0 11 1 13 36 21 2 0 0 0 0 0 74 16:00 0 0 1 1 1 13 36 21 2 0 0 0 0 0 0 74 16:00 0 0 0 2 27 17 46 19 4 0 0 1 0 0 0 0 74 16:10 0 0 0 0 3 20 48 18 2 1 0 0 0 0 0 0 73 17:00 0 0 2 5 14 31 19 4 0 0 0 0 0 0 73 17:00 0 0 2 5 14 31 19 4 0 0 0 0 0 0 0 73		0	0	0	0	9	23	21	2	0	0	0	0	0	1	56
13:00 0 0 1 3 21 20 22 1 0 0 0 0 0 0 0 0 68 Hour Total 0 0 1 3 61 125 79 8 0 0 0 0 0 0 1 278 13:15 0 0 0 0 1 4 24 24 20 4 0 0 0 0 0 0 1 0 54 13:30 0 0 0 0 0 9 32 30 7 0 0 0 0 0 0 78 13:45 0 0 0 0 0 9 32 29 4 0 0 0 0 0 0 74 14:00 0 0 0 0 1 82 29 24 3 0 0 0 0 0 0 1 75 Hour Total 0 0 0 1 14 29 19 1 0 0 0 0 0 0 1 281 14:15 0 0 0 0 1 14 29 19 1 0 0 0 0 0 0 73 14:45 0 0 0 0 20 32 19 1 0 1 0 0 0 0 73 14:45 0 0 0 0 5 15 24 21 4 0 0 0 0 0 0 0 73 14:45 0 0 0 0 1 11 29 24 3 1 0 0 0 0 0 0 69 Hour Total 0 0 0 7 60 114 83 9 1 1 0 0 0 0 0 0 0 69 Hour Total 0 0 0 7 45 19 6 1 0 0 0 0 0 78 15:15 0 0 0 0 1 1 1 27 17 3 0 0 0 0 0 78 15:45 0 0 0 1 1 1 13 36 21 2 0 0 0 0 0 0 74 16:00 0 0 0 2 17 46 19 4 0 0 1 0 0 0 0 74 16:15 0 0 0 0 1 1 1 13 36 21 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	12:30	0	0	0	0	20	45	19	3	0	0	0	0	0	0	87
Hour Total 0 0 1 3 61 125 79 8 0 0 0 0 0 1 278 13:15 0 0 0 1 4 24 20 4 0 0 0 0 0 1 0 54 13:30 0 0 0 0 9 32 30 7 0 0 0 0 0 0 78 13:45 0 0 0 0 0 18 29 24 3 0 0 0 0 0 0 74 14:00 0 0 0 1 40 117 103 18 0 0 0 0 0 1 281 Hour Total 0 0 0 1 14 29 19 1 0 0 0 0 0 0 1 281 14:15 0 0 0 0 1 14 29 19 1 0 0 0 0 0 64 14:30 0 0 0 0 20 32 19 1 0 1 0 0 0 0 73 14:45 0 0 0 0 5 15 24 21 4 0 0 0 0 0 0 0 69 15:00 0 0 0 1 11 29 24 3 1 0 0 0 0 0 69 Hour Total 0 0 0 7 45 19 6 1 0 0 0 0 0 78 15:15 0 0 0 0 0 11 27 17 3 0 0 0 0 0 78 15:30 0 0 0 0 1 2 17 46 19 4 0 0 0 0 0 0 0 78 15:45 0 0 1 1 13 36 21 2 0 0 0 0 74 16:00 0 0 0 1 3 48 154 76 15 1 0 1 0 0 0 0 299 Hour Total 0 0 0 8 38 15 3 0 0 0 0 0 0 0 0 992 16:15 0 0 0 0 0 3 20 48 18 2 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	12:45	0	0	0	0	11	37	17	2	0	0	0	0	0	0	67
13:15	13:00	0	0	1	3	21	20	22	1	0	0	0	0	0	0	68
13:30	Hour Total	0	0	1	3	61	125	79	8	0	0	0	0	0	1	278
13:45	13:15	0	0	0	1	4	24	20	4	0	0	0	0	1	0	54
14:00 0 0 0 18 29 24 3 0 0 0 0 0 1 75 Hour Total 0 0 0 1 40 117 103 18 0 0 0 0 1 1 281 14:15 0 0 0 0 1 14 29 19 1 0 0 0 0 0 0 64 14:30 0 0 0 0 0 20 32 19 1 0 0 0 0 0 73 14:45 0 0 0 0 5 15 24 21 4 0 0 0 0 0 69 Hour Total 0 0 0 7 60 114 83 9 1 1 0 0 0 0 275 15:15 0 0 0 0 7 45 19 6 1 0 0	13:30	0	0	0	0	9	32	30	7	0	0	0	0	0	0	78
Hour Total 0 0 0 1 40 117 103 18 0 0 0 0 1 1 281 14:15 0 0 0 0 1 14 29 19 1 0 0 0 0 0 0 0 0 64 14:30 0 0 0 0 20 32 19 1 0 1 0 0 0 0 0 0 73 14:45 0 0 0 0 5 15 24 21 4 0 0 0 0 0 0 0 69 15:00 0 0 0 1 11 29 24 3 1 0 0 0 0 0 69 Hour Total 0 0 0 7 60 114 83 9 1 1 0 0 0 0 0 0 0 69 15:15 0 0 0 0 7 45 19 6 1 0 0 0 0 78 15:30 0 0 0 0 11 27 17 3 0 0 0 0 0 78 15:45 0 0 1 1 1 23 36 21 2 0 0 0 0 0 58 15:45 0 0 1 1 1 13 36 21 2 0 0 0 0 0 74 16:00 0 0 0 2 17 46 19 4 0 0 1 0 0 89 Hour Total 0 0 0 8 38 15 3 0 0 0 0 0 0 299 16:15 0 0 0 0 0 8 38 15 3 0 0 0 0 0 0 0 0 92 16:45 0 0 0 0 3 23 24 18 5 0 0 0 0 0 0 0 75 17:00 0 0 2 5 14 31 19 4 0 0 0 0 0 0 75	13:45	0	0	0	0	9	32	29	4	0	0	0	0	0	0	74
14:15 0 0 0 0 1 14 29 19 1 0 0 0 0 0 0 0 64 14:30 0 0 0 0 0 20 32 19 1 0 1 0 0 0 0 0 0 73 14:45 0 0 0 0 5 15 24 21 4 0 0 0 0 0 0 0 69 15:00 0 0 0 1 11 29 24 3 1 0 0 0 0 0 69 Hour Total 0 0 0 7 60 114 83 9 1 1 0 0 0 0 0 0 78 15:30 0 0 0 0 11 27 17 3 0 0 0 0 0 78 15:30 0 0 0 0 11 27 17 3 0 0 0 0 0 58 15:45 0 0 0 1 1 1 13 36 21 2 0 0 0 0 0 0 74 16:00 0 0 0 2 17 46 19 4 0 0 1 0 0 0 89 Hour Total 0 0 0 8 38 15 3 0 0 0 0 0 299 16:15 0 0 0 0 8 38 15 3 0 0 0 0 0 0 299 16:45 0 0 0 0 3 20 48 18 2 1 0 0 0 0 0 0 0 92 16:45 0 0 0 3 23 24 18 5 0 0 0 0 0 75 17:00 0 0 2 5 14 31 19 4 0 0 0 0 0 0 75	14:00	0	0	0	0	18	29	24	3	0	0	0	0	0	1	75
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14:45	14:15	0	0	0	1	14	29	19	1	0	0	0	0	0	0	64
15:00 0 0 0 1 11 29 24 3 1 0 0 0 0 0 0 69 Hour Total 0 0 0 7 60 114 83 9 1 1 0 0 0 0 0 7 15:15 0 0 0 0 7 45 19 6 1 0 0 0 0 7 15:30 0 0 0 0 11 27 17 3 0 0 0 0 0 58 15:45 0 0 1 1 1 13 36 21 2 0 0 0 0 0 0 0 7 16:00 0 0 0 2 17 46 19 4 0 0 1 0 0 0 8 Hour Total 0 0 0 8 38 15 3 0 0 0 0 0 0 299 16:15 0 0 0 0 8 38 15 3 0 0 0 0 0 0 299 16:30 0 0 0 0 3 20 48 18 2 1 0 0 0 0 0 0 0 22 16:45 0 0 0 0 3 23 24 18 5 0 0 0 0 0 0 0 73 17:00 0 0 2 5 14 31 19 4 0 0 0 0 0 0 75	14:30	0	0	0	0	20	32	19	1	0	1	0	0	0	0	73
15:00 0 0 0 1 11 29 24 3 1 0 0 0 0 0 0 69 Hour Total 0 0 0 7 60 114 83 9 1 1 0 0 0 0 0 7 15:15 0 0 0 0 7 45 19 6 1 0 0 0 0 7 15:30 0 0 0 0 11 27 17 3 0 0 0 0 0 58 15:45 0 0 1 1 1 13 36 21 2 0 0 0 0 0 0 0 7 16:00 0 0 0 2 17 46 19 4 0 0 1 0 0 0 8 Hour Total 0 0 0 8 38 15 3 0 0 0 0 0 0 299 16:15 0 0 0 0 8 38 15 3 0 0 0 0 0 0 299 16:30 0 0 0 0 3 20 48 18 2 1 0 0 0 0 0 0 0 22 16:45 0 0 0 0 3 23 24 18 5 0 0 0 0 0 0 0 73 17:00 0 0 2 5 14 31 19 4 0 0 0 0 0 0 75	14:45	0	0	0	5	15	24	21	4	0	0	0	0	0	0	69
15:15		0	0	0					3	1	0	0	0	0	0	
15:30	Hour Total	0	0	0	7	60	114	83	9	1	1	0	0	0	0	275
15:45 0 0 0 1 1 1 13 36 21 2 0 0 0 0 0 0 0 74 16:00 0 0 0 1 3 48 154 76 15 1 0 1 0 0 0 299 Hour Total 0 0 0 8 38 15 3 0 0 0 0 0 0 299 16:15 0 0 0 0 8 38 15 3 0 0 0 0 0 0 64 16:30 0 0 0 3 20 48 18 2 1 0 0 0 0 0 92 16:45 0 0 0 3 23 24 18 5 0 0 0 0 0 0 0 73 17:00 0 0 2 5 14 31 19 4 0 0 0 0 0 0 75	15:15	0	0	0	0	7	45	19	6	1	0	0	0	0	0	78
15:45 0 0 0 1 1 1 13 36 21 2 0 0 0 0 0 0 0 74 16:00 0 0 0 1 3 48 154 76 15 1 0 1 0 0 0 299 Hour Total 0 0 0 8 38 15 3 0 0 0 0 0 0 299 16:15 0 0 0 0 8 38 15 3 0 0 0 0 0 0 64 16:30 0 0 0 3 20 48 18 2 1 0 0 0 0 0 92 16:45 0 0 0 3 23 24 18 5 0 0 0 0 0 0 0 73 17:00 0 0 2 5 14 31 19 4 0 0 0 0 0 0 75					0							0	0	0	0	
16:00 0 0 0 2 17 46 19 4 0 0 1 0 0 0 89 Hour Total 0 0 1 3 48 154 76 15 1 0 1 0 0 0 299 16:15 0 0 0 0 8 38 15 3 0 0 0 0 0 0 64 16:30 0 0 0 3 20 48 18 2 1 0 0 0 0 0 92 16:45 0 0 0 0 3 23 24 18 5 0 0 0 0 0 0 0 73 17:00 0 0 2 5 14 31 19 4 0 0 0 0 0 75																
16:15		0	0											0	0	
16:30 0 0 0 3 20 48 18 2 1 0 0 0 0 0 92 16:45 0 0 0 3 23 24 18 5 0 0 0 0 0 73 17:00 0 0 2 5 14 31 19 4 0 0 0 0 0 75	Hour Total	0	0	1	3	48	154	76	15	1	0	1	0	0	0	299
16:30	16:15	0	0	0	0	8	38	15	3	0	0	0	0	0	0	64
16:45 0 0 0 3 23 24 18 5 0 0 0 0 0 73 17:00 0 0 2 5 14 31 19 4 0 0 0 0 0 75	16:30	0	0	0	3	20	48	18	2	1	0	0	0	0	0	92
		0	0	0					5	0	0	0	0	0	0	
Hour Total 0 0 2 11 65 141 70 14 1 0 0 0 0 304	17:00	0	0	2	5	14	31	19	4	0	0	0	0	0	0	75
	Hour Total	0	0	2	11	65	141	70	14	1	0	0	0	0	0	304

Page: 21 Fri 11/7/2014

Station #: 000000020181 Site ID: 000000020181 Location: Atlanta Ave., w/o Church of Brethren Direction: WEST File: D1105001.prn City: 14-216 RS Min County: 37.34984, -79.19002

Lane: 2

TIME	10	15	20	25	30	35	40	45	50	55	60	65	70	71+	Total
TIME	10	13	20	23	30	33	40	13	30	33	00	03	70	711	iocai
17:15	0	0	0	1	25	40	22	3	0	0	0	0	0	0	91
17:30	0	0	0	10	15	40	14	2	1	0	0	0	0	0	82
17:45	13	3	4	12	22	16	8	4	2	0	0	0	0	0	84
18:00	2 	2	23	12	13 	12 	11 	0	0	1	0	0	0	0	76
Hour Total	15	5	27	35	75	108	55	9	3	1	0	0	0	0	333
18:15	1	0	0	3	23	31	10	0	0	0	0	0	0	0	68
18:30	0	0	0	0	24	25	18	3	0	0	0	0	0	0	70
18:45	0	0	0	1	16	31	14	3	0	0	0	0	0	0	65
19:00	0 	0	0	5 	15 	38	11 	0	0	0	0	0	0	0	69
Hour Total	1	0	0	9	78	125	53	6	0	0	0	0	0	0	272
19:15	0	0	0	3	19	27	10	4	0	0	0	0	0	0	63
19:30	0	0	1	1	15	28	15	3	0	0	0	0	0	0	63
19:45	0	0	0	1	18	40	15	0	0	0	0	0	0	0	74
20:00	0	0	0	1	20	28	5	3	1	0	0	0	0	1	59
Hour Total	0	0	1	6	72	123	45	10	1	0	0	0	0	1	259
20:15	2	0	0	0	21	27	12	0	0	0	0	0	0	0	62
20:30	0	0	0	0	8	20	9	3	0	0	0	0	0	0	40
20:45	0	0	0	0	10	22	10	0	0	0	0	0	0	0	42
21:00	0	0	2	5	10	30	8	1	0	0	0	0	0	0	56
Hour Total	2	0	2	5	49	99	39	4	0	0	0	0	0	0	200
21:15	0	0	0	1	12	21	20	2	0	0	0	0	0	0	56
21:30	0	0	0	2	8	22	9	2	1	0	0	0	0	0	44
21:45	0	0	0	1	13	26	9	5	0	0	0	0	0	0	54
22:00	0	0	1	1	7	19	14	3	0	0	0	0	0	0	45
Hour Total	0	0	1	5	40	88	52	12	1	0	0	0	0	0	199
22:15	0	0	0	0	4	13	12	1	0	0	0	0	0	0	30
22:30	0	0	0	0	12	18	9	2	0	0	0	0	0	0	41
22:45	0	0	0	1	1	20	7	2	1	0	0	0	0	0	32
23:00	0	0	0	1	2	15	5	2	0	0	0	0	0	0	25
Hour Total	0	0	0	2	19	66	33	7	1	0	0	0	0	0	128
23:15	0	0	0	1	2	9	11	3	0	0	0	0	0	0	26
23:30	0	0	0	0	5	15	6	1	0	0	0	0	0	0	27
23:45	0	0	0	0	4	10	4	1	1	0	0	0	0	0	20
24:00	0	0	0	0	5	9	4	2	0	0	0	0	0	0	20
Hour Total	0	0	0	1	16	43	25	7	1	0	0	0	0	0	93
DAY TOTAL PERCENTS	 18 0.5%		36 0.9%	104 2.6%			1027 25.6%	168 4.2%	17 0.4%			 0 0.0%	1 0.0%	4 0.0%	4025 100%

Page: 22

Station #: 000000020181 File: D1105001.prn City: 14-216 RS Min County: 37.34984, -79.19002 Site ID: 000000020181

Location: Atlanta Ave., w/o Church of Brethren

Direction: WEST

Lane: 2

TIME 10 15 20 25 30 35 40 45 50 55 60 65 70 71+ Total

Statistical Information...

15th Percentile Speed

27.7 mph

Median Speed 32.8 mph

10 MPH Pace Speed

30 mph to 40 mph 2854 vehicles in pace

Representing 70.9% of the total vehicles

85th Percentile Speed 38.0 mph

Average Speed 32.7 mph

Vehicles > 30 MPH 3048 75.7%

Page: 23 Sat 11/8/2014

Station #: 000000020181 Site ID: 00000020181 Location: Atlanta Ave., w/o Church of Brethren Direction: WEST

Lane: 2

File: D1105001.prn City: 14-216 RS Min County: 37.34984, -79.19002

Lane: 2															
TIME	10	15	20	25	30	35	40	45	50	55	60	65	70	71+	Total
11110	10	13	20	23	30	33	10	13	30	33	00	03	, 0	,	10041
00:15	0	0	0	0	1	7	6	3	0	0	0	0	0	0	17
00:30	0	0	0	0	2	6	3	2	0	0	0	0	0	0	13
00:45	0	0	0	1	3	5	6	0	1	0	0	0	0	0	16
01:00	0	0	0	1	1	5	3	2	0	0	0	0	0	0	12
							1.0								
Hour Total	0	0	0	2	7	23	18	7	1	0	0	0	0	0	58
01:15	0	0	0	0	2	2	5	1	0	0	0	0	0	0	10
01:30	0	0	0	0	2	5	4	2	0	0	0	0	0	0	13
01:45	0	0	0	0	0	3	4	0	0	0	0	0	0	0	7
02:00	0	0	0	1	0	1	4	1	0	0	0	0	0	0	7
Hour Total	0	0	0	1	4	11	17	4	0	0	0	0	0	0	37
02:15	0	0	0	0	1	1	1	2	0	0	0	0	0	0	5
02:30	0	0	0	0	0	1	1	0	0	0	0	0	0	0	2
02:45	0	0	0	0	2	1	0	0	0	0	0	0	0	0	3
03:00	0	0	0	0	0	2	0	0	0	0	0	0	0	0	2
Hour Total	0	0	0	0	3	5	2	2	0	0	0	0	0	0	12
03:15	0	0	0	1	2	6	2	0	0	0	0	0	0	0	11
03:30	0	0	0	0	1	1	0	0	0	0	0	0	0	0	2
03:45	0	0	0	0	2	0	1	0	0	0	0	0	0	0	3
04:00	0	0	0	0	0	1	1	0	0	0	0	0	0	0	2
Hour Total	0	0	0	1	5	8	4	0	0	0	0	0	0	0	18
04:15	0	0	0	0	0	2	3	1	0	0	0	0	0	0	6
04:30	0	0	0	0	1	0	1	0	0	0	0	0	0	0	2
04:45	0	0	0	1	0	1	0	0	0	0	0	0	0	0	2
05:00	0	0	0	0	1	4	0	0	0	0	0	0	0	0	5
Hour Total	0	0	0	1	2	7	4	1	0	0	0	0	0	0	15
05:15	0	0	0	0	0	0	2	0	0	0	0	0	0	0	2
05:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:45	0	0	0	1	0	1	0	0	0	0	0	0	0	0	2
06:00	0	0	0	0	0	1	1	0	0	0	0	0	0	0	2
Hour Total	0	0	0	1	0	2	3	0	0	0	0	0	0	0	6
06:15	0	0	0	0	1	0	0	1	0	0	0	0	0	0	2
06:30	0	0	0	1	0	1	2	0	0	0	0	0	0	0	4
06:45	0	0	0	0	2	1	3	0	0	1	0	0	0	0	7
07:00	0	0	0	1	0	1	3	0	0	0	0	0	0	0	5
Hour Total	0	0	0	2	3	3	8	1	0	1	0	0	0	0	18
07:15	0	0	0	0	2	_	2	1	0	0	0	0	0	0	11
07:15	0	0	0	1	2 0	5 2	3 2	1 0	0	0	0	0	0	0	5
07:45	0	0	0	0	3	5	2	3	0	0	0	0	0	0	13
08:00	0	0	0	0	3	4	5	1	0	0	0	0	0	0	13
Hour Total	0	0	0	1	8	16	12	5	0	0	0	0	0	0	42
00.15	0	0	0	1	_	4	_	0	0	0	0	0	0	0	1.0
08:15 08:30	0	0 0	0 0	1 0	5 2	4 9	6 5	0	0	0 0	0 0	0 0	0 0	0	16 16
08:45	0	0	0	0	5	8	9	2	0	0	0	0	0	0	24
09:00	0	0	0	0	10	8	16	6	0	0	0	0	0	0	40
02.00	0	J	J	J		J		J	J	J	J	J	J	J	10

Sat 11/8/2014

Station #: 000000020181 File: D1105001.prn City: 14-216 RS Min County: 37.34984, -79.19002 Site ID: 000000020181

Location: Atlanta Ave., w/o Church of Brethren

Direction: WEST Lane: 2

TIME 10 15 20 25 30 35 40 45 50 55 60 65 70 71+ Total Hour Total 0 0 0 1 22 29 36 0 0 0 09:15 09:30 09:45 Ω Ω Ω 2.2 Ω Ω Ω Ω Ω Ω 10:00 Ω Ω Ω Hour Total 0 0 0 18 62 0 0 111 10:15 Ω 10:30 10:45 11:00 Hour Total 11:15 Ω Ω Ω Ω Ω Ω Ω Ω Ω Ω 11:30 Ω Ω 2.0 Ω Ω Ω Ω Ω 11:45 12:00 2.4 _____ ___ ____ ____ ____ ____ ____ Hour Total 0 0 1 12 12:15 Ω Ω 12:30 Ω Ω Ω Ω Ω Ω Ω Ω 12:45 Λ Ω Ω 13:00 Hour Total 0 0 0 11 64 118 1 247 49 3 0 Ω 13:15 13:30 Ω 3 13:45 14:00 58 4 2 0 Hour Total 0 3 DAY TOTAL 0 3 1 57 272 601 300 40 4 1 1 3 0 2 1285

PERCENTS 0.0% 0.3% 0.1% 4.5% 21.2% 46.8% 23.4% 3.1% 0.3% 0.0% 0.0% 0.2% 0.0% 0.1% 100%

Statistical Information...

15th Percentile Speed 27.4 mph

Median Speed 32.6 mph

10 MPH Pace Speed 30 mph to 40 mph 901 vehicles in pace

Representing 70.1% of the total vehicles

85th Percentile Speed 37.6 mph

Page: 24

Average Speed 32.6 mph

Vehicles > 30 MPH 74.1%

GRAND TOTAL 220 85 2263 2657 36 5 3 73 315 5005 405 8 3 PERCENTS 2.0% 0.7% 0.8% 2.9% 20.5% 45.2% 23.9% 3.6% 0.3% 0.0% 0.0% 0.0% 0.0% 0.1% 100%

File Name: Badcock Place and Atlanta Ave. SAT

Site Code : 00003398 Start Date : 11/8/2014

Page No : 1

Groups Printed- Car

Start Time Right Thru Left Thru											•											
Start Time Right Thru Left Consumation App. Total Right Thru Left Right App. Total Right Thru Left Right App. Total Right Thru Left Right App. Total Right App. Total Right Thru Left Right App. Total Righ			So	uthbo	und			W	estbo	und			No	orthbo	und			E	astbou	ınd		
11:15 AM 17 24 5 0 46 20 29 91 0 140 41 21 4 0 66 12 9 23 1 45 297 11:30 AM 27 23 10 0 60 27 34 88 4 153 35 20 6 0 61 14 12 20 0 46 320 11:45 AM 29 16 8 0 53 14 26 61 0 101 42 24 7 0 73 14 7 7 2 30 257 Total 89 79 26 0 194 76 108 304 7 495 163 93 27 1 284 53 42 60 3 158 1131 12:00 PM 24 26 8 2 60 13 20 83 0 116 46 29 9 0 84 10 12 16 4 42 302 12:15 PM 33 26 16 2 77 22 28 77 3 130 46 24 8 0 78 15 9 23 1 48 333 12:30 PM 34 20 4 0 58 19 24 84 0 127 42 28 11 0 81 18 12 18 0 48 314 12:45 PM 22 26 5 0 53 19 27 78 2 126 36 39 8 0 83 24 8 23 2 57 319 Total 113 98 33 4 248 73 99 322 5 499 170 120 36 0 326 67 41 80 7 195 1268 01:00 PM 31 31 6 1 69 18 31 96 11 156 43 26 8 0 77 13 11 17 3 44 346 01:30 PM 29 38 5 0 72 18 25 101 0 144 46 31 11 0 77 18 18 16 0 52 348 01:30 PM 29 38 5 0 72 18 25 101 0 144 46 31 11 0 88 16 11 21 1 49 353 Total 105 144 32 1 282 71 102 391 15 579 189 101 40 0 330 66 53 65 4 188 1379 Grand Total 307 321 91 5 724 220 309 1017 27 1573 522 314 103 1 940 186 136 205 14 541 3778 Grand Total 307 321 91 5 724 220 309 1017 27 1573 555 334 11 0.1 34.4 25.1 37.9 2.6	Start Time	Right	Thru	Left	on	App. Total	Right	Thru	Left	on	App. Total	Right	Thru	Left	on	App. Total	Right	Thru	Left	on	App. Total	Int. Total
11:30 AM 27 23 10 0 60 27 34 88 4 153 35 20 6 0 61 14 12 20 0 46 320 11:45 AM 29 16 8 0 53 14 26 61 0 101 42 24 7 0 73 14 7 7 2 30 257 Total 89 79 26 0 194 76 108 304 7 495 163 93 27 1 284 53 42 60 3 158 1131 12:00 PM 24 26 8 2 60 13 20 83 0 116 46 29 9 0 84 10 12 16 4 42 302 12:15 PM 33 26 16 2 77 22 28 77 3 130 46 24 8 0 78 15 9 23 1 48 333 12:30 PM 34 20 4 0 58 19 24 84 0 127 42 28 11 0 81 18 12 18 0 48 314 12:45 PM 22 26 5 0 53 19 27 78 2 126 36 39 8 0 83 24 8 23 2 57 319 Total 113 98 33 4 248 73 99 322 5 499 170 120 36 0 326 67 41 80 7 195 1268 01:00 PM 31 31 6 1 69 18 31 96 11 156 43 26 8 0 77 18 18 16 0 52 348 01:30 PM 29 38 5 0 72 18 25 101 0 144 46 31 11 0 88 16 11 21 1 49 353 01:45 PM 20 33 9 0 62 14 23 98 4 139 56 22 10 0 88 19 13 11 0 43 332 Total 105 144 32 1 282 71 102 391 15 579 189 101 40 0 330 66 53 65 4 188 1379 Grand Total 307 321 91 5 724 220 309 1017 27 1573 522 314 103 1 940 186 136 205 14 541 3778 Grand Total 307 321 91 5 724 220 309 1017 27 1573 522 314 103 1 940 186 136 205 14 541 3778 Grand Total 307 321 91 5 724 220 309 1017 27 1573 555 33.4 11 0.1 34.4 25.1 37.9 2.6	11:00 AM	16	16	3	0	35	15	19	64	3	101	45	28	10	1	84	13	14	10	0	37	257
Total Reference Referenc	11:15 AM	17	24	5	0	46	20	29	91	0	140	41	21	4	0	66	12	9	23	1	45	297
Total 89 79 26 0 194 76 108 304 7 495 163 93 27 1 284 53 42 60 3 158 1131 12:00 PM 24 26 8 2 60 13 20 83 0 116 46 29 9 0 84 10 12 16 4 42 302 12:15 PM 33 26 16 2 77 22 28 77 3 130 46 24 8 0 78 15 9 23 1 48 333 12:30 PM 34 20 4 0 58 19 24 84 0 127 42 28 11 0 81 18 12 18 0 48 314 12:45 PM 22 26 5 0 53 19 27 78 2 126 36 39 8 0 83 24 8 23 2 57 319 Total 113 98 33 4 248 73 99 322 5 499 170 120 36 0 326 67 41 80 7 195 1268 01:00 PM 31 31 31 6 1 69 18 31 96 11 156 43 26 8 0 77 18 18 18 10 17 3 44 346 01:15 PM 25 42 12 0 79 21 23 96 0 140 44 22 11 0 77 18 18 18 16 0 52 348 01:30 PM 29 38 5 0 72 18 25 101 0 144 46 31 11 0 88 16 11 21 1 49 353 01:45 PM 20 33 9 0 62 14 23 98 4 139 56 22 10 0 88 19 13 11 0 43 332 Total 105 144 32 1 282 71 102 391 15 579 189 101 40 0 330 66 53 65 4 188 1379 Grand Total 307 321 91 5 724 220 309 1017 27 1573 522 314 103 1 940 186 136 205 14 541 378 Apprch % 42.4 44.3 12.6 0.7 14 19.6 64.7 1.7 55.5 33.4 11 0.1 34.4 25.1 37.9 2.6	11:30 AM	27	23	10	0	60	27	34	88	4	153	35	20	6	0	61	14	12	20	0	46	320
12:00 PM	11:45 AM	29	16	8	0	53	14	26	61	0	101	42	24	7	0	73	14	7	7	2	30	257
12:15 PM 33 26 16 2 77 22 28 77 3 130 46 24 8 0 78 15 9 23 1 48 333 333 12:30 PM 34 20 4 0 58 19 24 84 0 127 42 28 11 0 81 18 12 18 0 48 314 12:45 PM 22 26 5 0 53 19 27 78 2 126 36 39 8 0 83 24 8 23 2 57 319 319 313 31 31 31 31	Total	89	79	26	0	194	76	108	304	7	495	163	93	27	1	284	53	42	60	3	158	1131
12:15 PM 33 26 16 2 77 22 28 77 3 130 46 24 8 0 78 15 9 23 1 48 333 333 12:30 PM 34 20 4 0 58 19 24 84 0 127 42 28 11 0 81 18 12 18 0 48 314 12:45 PM 22 26 5 0 53 19 27 78 2 126 36 39 8 0 83 24 8 23 2 57 319 319 313 31 31 31 31																						
12:30 PM 34 20 4 0 58 19 24 84 0 127 42 28 11 0 81 18 12 18 0 48 314 12:45 PM 22 26 5 0 53 19 27 78 2 126 36 39 8 0 83 24 8 23 2 57 319 Total 113 98 33 4 248 73 99 322 5 499 170 120 36 0 326 67 41 80 7 195 1268 113 113 11 17 3 44 346 01:15 PM 25 42 12 0 79 21 23 96 0 140 44 22 11 0 77 18 18 18 16 0 52 348 01:30 PM 29 38 5 0 72 18 25 101 0 144 46 31 11 0 88 16 11 21 1 49 353 01:45 PM 20 33 9 0 62 14 23 98 4 139 56 22 10 0 88 19 13 11 0 43 332 Total 105 144 32 1 282 71 102 391 15 579 189 101 40 0 330 66 53 65 4 188 1379 1378 Apprch % 42.4 44.3 12.6 0.7 14 19.6 64.7 1.7 55.5 33.4 11 0.1 34.4 25.1 37.9 2.6	12:00 PM	24	26	8	2	60	13	20	83	0	116	46	29	9	0	84	10	12	16	4	42	302
12:45 PM 22 26 5 0 53 19 27 78 2 126 36 39 8 0 83 24 8 23 2 57 319 Total 113 98 33 4 248 73 99 322 5 499 170 120 36 0 326 67 41 80 7 195 1268 01:00 PM 31 31 6 1 69 18 31 96 11 156 43 26 8 0 77 13 11 17 3 44 346 01:15 PM 25 42 12 0 79 21 23 96 0 140 44 22 11 0 77 18 18 16 0 52 348 01:30 PM 29 38 5 0 72 18 25 101 0 144 46 31 11 0 88 16 11 21 1 49 353 01:45 PM 20 33 9 0 62 14 23 98 4 139 56 22 10 0 88 19 13 11 0 43 332 Total 105 144 32 1 282 71 102 391 15 579 189 101 40 0 330 66 53 65 4 188 1379 Grand Total 307 321 91 5 724 220 309 1017 27 1573 522 314 103 1 940 186 136 205 14 541 3778 Apprch % 42.4 44.3 12.6 0.7 14 19.6 64.7 1.7 55.5 33.4 11 0.1 34.4 25.1 37.9 2.6	12:15 PM	33	26	16	2	77	22	28	77	3	130	46	24	8	0	78	15	9	23	1	48	333
Total 113 98 33 4 248 73 99 322 5 499 170 120 36 0 326 67 41 80 7 195 1268 01:00 PM 31 31 6 1 69 18 31 96 11 156 43 26 8 0 77 13 11 17 3 44 346 01:15 PM 25 42 12 0 79 21 23 96 0 140 44 22 11 0 77 18 18 16 0 52 348 01:30 PM 29 38 5 0 72 18 25 101 0 144 46 31 11 0 88 16 11 21 1 49 353 01:45 PM 20 33 9 0 62 14 23 98<	12:30 PM	34	20	4	0	58	19	24	84	0	127	42	28	11	0	81	18	12	18	0	48	314
01:00 PM 31 31 6 1 69 18 31 96 11 156 43 26 8 0 77 13 11 17 3 44 346 3	12:45 PM	22	26	5	0	53	19	27	78	2	126	36	39	8	0	83	24	8	23	2	57	319
01:15 PM 25 42 12 0 79 21 23 96 0 140 44 22 11 0 77 18 18 16 0 52 348 01:30 PM 29 38 5 0 72 18 25 101 0 144 46 31 11 0 88 16 11 21 1 49 353 01:45 PM 20 33 9 0 62 14 23 98 4 139 56 22 10 0 88 16 11 21 1 49 353 Total 105 144 32 1 282 71 102 391 15 579 189 101 40 0 330 66 53 65 4 188 1379 Grand Total 307 321 91 5 724 220 309	Total	113	98	33	4	248	73	99	322	5	499	170	120	36	0	326	67	41	80	7	195	1268
01:15 PM 25 42 12 0 79 21 23 96 0 140 44 22 11 0 77 18 18 16 0 52 348 01:30 PM 29 38 5 0 72 18 25 101 0 144 46 31 11 0 88 16 11 21 1 49 353 01:45 PM 20 33 9 0 62 14 23 98 4 139 56 22 10 0 88 16 11 21 1 49 353 Total 105 144 32 1 282 71 102 391 15 579 189 101 40 0 330 66 53 65 4 188 1379 Grand Total Apprich % 42.4 44.3 12.6 0.7 12.4 12.0 309 1017 27 1573 522 314 103 101 101 40 103 104 105 104 105 105 105 105 107 107 107 107		'									'											'
01:30 PM 29 38 5 0 72 18 25 101 0 144 46 31 11 0 88 16 11 21 1 49 353 01:45 PM 20 33 9 0 62 14 23 98 4 139 56 22 10 0 88 19 13 11 0 43 332 Total 105 144 32 1 282 71 102 391 15 579 189 101 40 0 330 66 53 65 4 188 1379 Grand Total 307 321 91 5 724 220 309 1017 27 1573 522 314 103 1 940 186 136 205 14 541 3778 Apprch 42.4 44.3 12.6 0.7 14 19.6 64.7 1.7 55.5 33.4 11 0.1 34.4 25.1 37.9 2.6	01:00 PM	31	31	6	1	69	18	31	96	11	156	43	26	8	0	77	13	11	17	3	44	346
01:45 PM 20 33 9 0 62 14 23 98 4 139 56 22 10 0 88 19 13 11 0 43 332 Total 105 144 32 1 282 71 102 391 15 579 189 101 40 0 330 66 53 65 4 188 1379 Grand Total 307 321 91 5 724 220 309 1017 27 1573 522 314 103 1 940 186 136 205 14 541 3778 Apprich % 42.4 44.3 12.6 0.7 14 19.6 64.7 1.7 55.5 33.4 11 0.1 34.4 25.1 37.9 2.6 14	01:15 PM	25	42	12	0	79	21	23	96	0	140	44	22	11	0	77	18	18	16	0	52	348
Total 105 144 32 1 282 71 102 391 15 579 189 101 40 0 330 66 53 65 4 188 1379 Grand Total Apprich 307 321 91 5 724 220 309 1017 27 1573 522 314 103 1 940 186 136 205 14 541 3778 Apprich 42.4 44.3 12.6 0.7 14 19.6 64.7 1.7 55.5 33.4 11 0.1 34.4 25.1 37.9 2.6	01:30 PM	29	38	5	0	72	18	25	101	0	144	46	31	11	0	88	16	11	21	1	49	353
Grand Total 307 321 91 5 724 220 309 1017 27 1573 522 314 103 1 940 186 136 205 14 541 3778 Apprch 42.4 44.3 12.6 0.7 14 19.6 64.7 1.7 55.5 33.4 11 0.1 34.4 25.1 37.9 2.6	01:45 PM	20	33	9	0	62	14	23	98	4	139	56	22	10	0	88	19	13	11	0	43	332
Apprch 42.4 44.3 12.6 0.7 14 19.6 64.7 1.7 55.5 33.4 11 0.1 34.4 25.1 37.9 2.6	Total	105	144	32	1	282	71	102	391	15	579	189	101	40	0	330	66	53	65	4	188	1379
Apprch 42.4 44.3 12.6 0.7 14 19.6 64.7 1.7 55.5 33.4 11 0.1 34.4 25.1 37.9 2.6		'																				,
Apprch 42.4 44.3 12.6 0.7 14 19.6 64.7 1.7 55.5 33.4 11 0.1 34.4 25.1 37.9 2.6	Grand Total	307	321	91	5	724	220	309	1017	27	1573	522	314	103	1	940	186	136	205	14	541	3778
11	Apprch %	42.4	44.3	12.6	0.7		14	19.6	64.7	1.7		55.5	33.4	11	0.1		34.4	25.1	37.9	2.6		ĺ
			8.5			19.2	5.8	8.2	26.9	0.7	41.6	13.8	8.3	2.7	0	24.9	4.9	3.6		0.4	14.3	

		South	oound			Westh	ound			North	bound			Easth	oound		
Start Time	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Int. Total
Peak Hour Analysis Fro	om 11:00 AN	I to 01:45 P	M - Peak 1	of 1													
Peak Hour for Entire	Intersection	on Begins a	t 01:00 PM	M													
01:00 PM	31	31	6	68	18	31	96	145	43	26	8	77	13	11	17	41	331
01:15 PM	25	42	12	79	21	23	96	140	44	22	11	77	18	18	16	52	348
01:30 PM	29	38	5	72	18	25	101	144	46	31	11	88	16	11	21	48	352
01:45 PM	20	33	9	62	14	23	98	135	56	22	10	88	19	13	11	43	328
Total Volume	105	144	32	281	71	102	391	564	189	101	40	330	66	53	65	184	1359
% App. Total	37.4	51.2	11.4		12.6	18.1	69.3	I	57.3	30.6	12.1	I	35.9	28.8	35.3		
PHF	.847	.857	.667	.889	.845	.823	.968	.972	.844	.815	.909	.938	.868	.736	.774	.885	.965

File Name: Badcock Place and Atlanta Ave. SAT

Site Code : 00003398 Start Date : 11/8/2014

Page No : 1
Groups Printed- Truck

								0.00	PO 1 11110	<u> </u>	uoi.									1
	So	uthbo	und			W	estbo	und			No	orthbo	und			E	astbou	ınd		
Right	Thru	Left	Peds/Bikes on Crosswalk	App. Total	Right	Thru	Left	Peds/Bikes on Crosswalk	App. Total	Right	Thru	Left	Peds/Bikes on Crosswalk	App. Total	Right	Thru	Left	Peds/Bikes on Crosswalk	App. Total	Int. Total
0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	1
0	0	1	0	1	0	0	1	0	1	0	0	0	0	0	1	0	0	0	1	3
0	0	1	0	1	2	0	1	0	3	0	0	0	0	0	0	0	0	0	0	4
0	1	2	0	3	2	0	2	0	4	0	1	0	0	1	1	0	0	0	1	9
				'																,
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1	1	0	0	2	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	3
0	0	0	0	0	0	0	1	0	1	0	0	1	0	1	0	0	0	0	0	2
0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	1
1	1	0	0	2	1	0	2	0	3	0	0	1	0	1	0	0	0	0	0	6
				'																1
0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	1
0	1	0	0	1	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	2
0	0	2	0	2	0	1	1	0	2	0	0	0	0	0	0	0	0	0	0	4
0	1	2	0	3	1	1	3	0	5	0	0	0	0	0	0	0	0	0	0	8
				'																1
1	3	4	0	8	4	1	7	0	12	0	1	1	0	2	1	0	0	0	1	23
12.5	37.5	50	0		33.3	8.3	58.3	0		0	50	50	0		100	0	0	0		
4.3	13	17.4	0	34.8	17.4	4.3	30.4	0	52.2	0	4.3	4.3	0	8.7	4.3	0	0	0	4.3	
	0 0 0 0 0 0 1 0 0 0 1 0 0 0 0 0	Right Thru 0 1 0 0 0 0 0 0 0 1 0 0 1 1 0 0 0 0 1 1 1 0 0 0 0	Right Thru Left 0 1 0 0 0 0 0 0 1 0 0 1 0 0 1 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 2 0 1 2 1 3 4 12.5 37.5 50	Right Thru Left co 0 1 0 0 0 0 0 0 0 0 1 0 0 0 1 0 0 0 1 0 0 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 2 0 1 1 2 0 1 <t< td=""><td>Right Thru Left Peds/Biles on Crosswalk App. Total 0 1 0 0 1 0 0 0 0 0 0 0 1 0 1 0 0 1 0 1 0 0 0 0 1 0 0 0 0 0 1 1 0 0 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td><td>Right Thru Left PedeBlases on company App. Total on the properties of consostal on the properties of the properties of</td><td>Right Thru Left Pest-Biles on consolar App. Total Right Thru 0 1 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 1 2 0</td><td>Right Thru Left Pest-Biles on consolar App. Total Right Thru Left 0 1 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 1 0 0 1 0 0 1 0 0 1 0 1 1 2 0 1 1 0 0 1 0 <</td><td> Southbound Southbound Right Thru Left Peds Pikless Crosswalk App. Total Right Thru Left Peds Pikless Crosswalk O</td><td> Southbound Southbound Right Thru Left Peds-Bilders Crosswalk App. Total Right Thru Left Peds-Bilders Crosswalk App. Total Right Thru Left Peds-Bilders App. Total O</td><td> Southbound Southbound Right Thru Left Pede Bilders App. Total Right Thru Left Pede Bilders Crosswalk App. Total Right Thru Left Pede Bilders App. Total Right </td><td>Right Thru Left PedsBlaes on Crosswalk App. Total on D Right Thru Left PedsBlaes on Crosswalk App. Total on D Right Thru Left PedsBlaes on D App. Total on D Right Thru 0 1 0</td><td> Southbound Southbound Right Thru Left Pedestrates App. Total Right Thru Left Consovalit Consovalit Thru Left Pedestrates App. Total Right Pedestrates App. Total Pedestrates</td><td> Northbound Right Thru Left PederBlace Consequent PederBlace PederBlace Consequent PederBlace PederBl</td><td> Southbound Right Thru Left PederBlases Crosswalk Right Thru Left PederBlases Right Right Right Thru Left PederBlases Right Right Right Thru Left PederBlases Right Rig</td><td> Southbound Right Thru Left Polymer Polymer Right Thru Left Polymer Polymer Right Thru Left Polymer Right Thru Right Right Thru Left Polymer Right Right Right Thru Left Polymer Right Right Thru Left Polymer Right Right Thru Left Polymer Right Right Right Thru Left Polymer Right Right Right Thru Left Polymer Right Right Thru Left Polymer Right Right Right Thru Left Polymer Right Right Right Right Thru Left Polymer Right Right Right Right Right Right Thru Left Polymer Right Righ</td><td> Southbound Suthbound Sut</td><td> Southbound Sou</td><td> Southbound Sou</td><td> Southbound Sou</td></t<>	Right Thru Left Peds/Biles on Crosswalk App. Total 0 1 0 0 1 0 0 0 0 0 0 0 1 0 1 0 0 1 0 1 0 0 0 0 1 0 0 0 0 0 1 1 0 0 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Right Thru Left PedeBlases on company App. Total on the properties of consostal on the properties of	Right Thru Left Pest-Biles on consolar App. Total Right Thru 0 1 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 1 2 0	Right Thru Left Pest-Biles on consolar App. Total Right Thru Left 0 1 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 1 0 0 1 0 0 1 0 0 1 0 1 1 2 0 1 1 0 0 1 0 <	Southbound Southbound Right Thru Left Peds Pikless Crosswalk App. Total Right Thru Left Peds Pikless Crosswalk O	Southbound Southbound Right Thru Left Peds-Bilders Crosswalk App. Total Right Thru Left Peds-Bilders Crosswalk App. Total Right Thru Left Peds-Bilders App. Total O	Southbound Southbound Right Thru Left Pede Bilders App. Total Right Thru Left Pede Bilders Crosswalk App. Total Right Thru Left Pede Bilders App. Total Right	Right Thru Left PedsBlaes on Crosswalk App. Total on D Right Thru Left PedsBlaes on Crosswalk App. Total on D Right Thru Left PedsBlaes on D App. Total on D Right Thru 0 1 0	Southbound Southbound Right Thru Left Pedestrates App. Total Right Thru Left Consovalit Consovalit Thru Left Pedestrates App. Total Right Pedestrates App. Total Pedestrates	Northbound Right Thru Left PederBlace Consequent PederBlace PederBlace Consequent PederBlace PederBl	Southbound Right Thru Left PederBlases Crosswalk Right Thru Left PederBlases Right Right Right Thru Left PederBlases Right Right Right Thru Left PederBlases Right Rig	Southbound Right Thru Left Polymer Polymer Right Thru Left Polymer Polymer Right Thru Left Polymer Right Thru Right Right Thru Left Polymer Right Right Right Thru Left Polymer Right Right Thru Left Polymer Right Right Thru Left Polymer Right Right Right Thru Left Polymer Right Right Right Thru Left Polymer Right Right Thru Left Polymer Right Right Right Thru Left Polymer Right Right Right Right Thru Left Polymer Right Right Right Right Right Right Thru Left Polymer Right Righ	Southbound Suthbound Sut	Southbound Sou	Southbound Sou	Southbound Sou

		South	oound			Westk	oound			North	bound			Eastb	ound		
Start Time	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Int. Total
Peak Hour Analysis Fro	om 11:00 AM	I to 01:45 P	M - Peak 1	of 1													
Peak Hour for Entire	e Intersection	n Begins a	t 11:30 A	M													
11:30 AM	0	0	1	1	0	0	1	1	0	0	0	0	1	0	0	1	3
11:45 AM	0	0	1	1	2	0	1	3	0	0	0	0	0	0	0	0	4
12:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12:15 PM	1	1	0	2	1	0	0	1	0	0	0	0	0	0	0	0	3
Total Volume	1	1	2	4	3	0	2	5	0	0	0	0	1	0	0	1	10
% App. Total	25	25	50		60	0	40		0	0	0	i	100	0	0		
PHF	.250	.250	.500	.500	.375	.000	.500	.417	.000	.000	.000	.000	.250	.000	.000	.250	.625

File Name: Badcock Place and Atlanta Ave. SAT

Site Code : 00003398 Start Date : 11/8/2014

Page No Groups Printed- Bicycles on Roadway

													,								1
		Sc	outhbo	und			W	estbo	und			No	orthbo	und			E	astbou	ınd		
Start Time	Right	Thru	Left	Peds/Bikes on Crosswalk	App. Total	Right	Thru	Left	Peds/Bikes on Crosswalk	App. Total	Right	Thru	Left	Peds/Bikes on Crosswalk	App. Total	Right	Thru	Left	Peds/Bikes on Crosswalk	App. Total	Int. Total
11:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
01:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
01:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
01:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
01:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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 %																					

		South	ound			West	oound			North	bound			Eastb	ound		
Start Time	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Int. Total
Peak Hour Analysis Fro	om 11:00 AM	I to 01:45 P	M - Peak	1 of 1													
Peak Hour for Entire	Intersection	n Begins a	t 11:00 A	AM													
11:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11:45 AM	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
% App. Total	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

File Name: Badcock Place and Atlanta Ave. SAT

Site Code : 00003398 Start Date : 11/8/2014

Page No : 1
Groups Printed- Combined

		Sc	uthbo	und			W	estbo	und			No	orthbo	und			E	astbou	ınd		
Start Time	Right	Thru	Left	Peds/Bikes on Crosswalk	App. Total	Right	Thru	Left	Peds/Bikes on Crosswalk	App. Total	Right	Thru	Left	Peds/Bikes on Crosswalk	App. Total	Right	Thru	Left	Peds/Bikes on Crosswalk	App. Total	Int. Total
11:00 AM	16	17	3	0	36	15	19	64	3	101	45	28	10	1	84	13	14	10	0	37	258
11:15 AM	17	24	5	0	46	20	29	91	0	140	41	22	4	0	67	12	9	23	1	45	298
11:30 AM	27	23	11	0	61	27	34	89	4	154	35	20	6	0	61	15	12	20	0	47	323
11:45 AM	29	16	9	0	54	16	26	62	0	104	42	24	7	0	73	14	7	7	2	30	261
Total	89	80	28	0	197	78	108	306	7	499	163	94	27	1	285	54	42	60	3	159	1140
										•											
12:00 PM	24	26	8	2	60	13	20	83	0	116	46	29	9	0	84	10	12	16	4	42	302
12:15 PM	34	27	16	2	79	23	28	77	3	131	46	24	8	0	78	15	9	23	1	48	336
12:30 PM	34	20	4	0	58	19	24	85	0	128	42	28	12	0	82	18	12	18	0	48	316
12:45 PM	22	26	5	0	53	19	27	79	2	127	36	39	8	0	83	24	8	23	2	57	320
Total	114	99	33	4	250	74	99	324	5	502	170	120	37	0	327	67	41	80	7	195	1274
01:00 PM	31	31	6	1	69	19	31	96	11	157	43	26	8	0	77	13	11	17	3	44	347
01:15 PM	25	42	12	0	79	21	23	97	0	141	44	22	11	0	77	18	18	16	0	52	349
01:30 PM	29	39	5	0	73	18	25	102	0	145	46	31	11	0	88	16	11	21	1	49	355
01:45 PM	20	33	11	0	64	14	24	99	4	141	56	22	10	0	88	19	13	11	0	43	336
Total	105	145	34	1	285	72	103	394	15	584	189	101	40	0	330	66	53	65	4	188	1387
Grand Total	308	324	95	5	732	224	310	1024	27	1585	522	315	104	1	942	187	136	205	14	542	3801
Apprch %	42.1	44.3	13	0.7		14.1	19.6	64.6	1.7		55.4	33.4	11	0.1		34.5	25.1	37.8	2.6		
Total %	8.1	8.5	2.5	0.1	19.3	5.9	8.2	26.9	0.7	41.7	13.7	8.3	2.7	0	24.8	4.9	3.6	5.4	0.4	14.3	

		South	oound			West	bound			North	bound			Easth	oound		
Start Time	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Int. Total
Peak Hour Analysis Fro	m 11:00 AN	I to 01:45 P	M - Peak	1 of 1													
Peak Hour for Entire	Intersection	on Begins a	t 01:00 I	PM													
01:00 PM	31	31	6	68	19	31	96	146	43	26	8	77	13	11	17	41	332
01:15 PM	25	42	12	79	21	23	97	141	44	22	11	77	18	18	16	52	349
01:30 PM	29	39	5	73	18	25	102	145	46	31	11	88	16	11	21	48	354
01:45 PM	20	33	11	64	14	24	99	137	56	22	10	88	19	13	11	43	332
Total Volume	105	145	34	284	72	103	394	569	189	101	40	330	66	53	65	184	1367
% App. Total	37	51.1	12		12.7	18.1	69.2		57.3	30.6	12.1		35.9	28.8	35.3		
PHF	.847	.863	.708	.899	.857	.831	.966	.974	.844	.815	.909	.938	.868	.736	.774	.885	.965

File Name: Badcock Place and Atlanta Ave. AM

Site Code:

Start Date : 11/6/2014

											O	ait	Jaic		1/0/20	, ı 					
											Pa	age I	No	: 1							
									Gro	ups Prir											
		Bad	cock F	Place			Atl	lanta A	ve.			Bad	lcock F	Place			At	lanta A	ve.		
		So	uthbou	und			W	estbo	und			No	orthboo	und			E	astbou	ınd		
Start Time	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Int. Total
07:00 AM	0	1	0	0	1	1	1 16 3 0 20 1 4 0 0 5 0 1 2 0 3 1 22 3 0 26 1 6 2 0 9 0 15 4 0 19 1 47 2 0 50 5 2 0 0 7 2 2 12 2 0 16														29
07:15 AM	3	2	0	0	5	1	1 22 3 0 26 1 6 2 0 9 0 15 4 0 19 1 47 2 0 50 5 2 0 0 7 2 12 2 0 16														59
07:30 AM	2	1	1	0	4	1	1 22 3 0 26 1 6 2 0 9 0 15 4 0 1 47 2 0 50 5 2 0 0 7 2 12 2 0														77
07:45 AM	4	1	0	0	5	2	1 47 2 0 50 5 2 0 0 7 2 12 2 0 16 2 49 11 0 62 3 3 0 0 6 3 7 2 0 12														85
Total	9	5	1	0	15	5	134	19	0	158	10	15	2	0	27	5	35	10	0	50	250
08:00 AM	3	3	0	0	6	l 1	38	8	0	47	6	1	1	1	15	3	10	5	0	18	86
08:15 AM	6	2	0	0	8	4	25	7	0	36	4	9	2	0	15	1	12	5	0	18	77
08:30 AM	7	3	0	0	10	0	43	15	0	58	6	9	1	0	16	4	12	3	0	19	103
08:45 AM	6	4	2	0	12	1	49	19	0	69	5	5	5	0	15	6	12	5	0	23	119
Total	22	12	2	0	36	6	155	49	0	210	21	27	12	1	61	14	46	18	0	78	
Grand Total	31	17	3	0	51	11	289	68	0	368	31	42	14	1	88	19	81	28	0	128	635
Apprch %	60.8	33.3	5.9	0		3	78.5	18.5	0		35.2	47.7	15.9	1.1		14.8	63.3	21.9	0		
Total %	4.9	2.7	0.5	0	8	1.7	45.5	10.7	0	58	4.9	6.6	2.2	0.2	13.9	3	12.8	4.4	0	20.2	

		Badcocl Southl		Э		Atlanta Westk				Badcoc Northl)			a Ave. oound		
Start Time	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Int. Total
Peak Hour Analysis Fro	om 07:00 AN	I to 08:45 A	M - Peak	1 of 1													
Peak Hour for Entire	Intersection	n Begins a	it 08:00 A	AM													
08:00 AM	3	3	0	6	1	38	8	47	6	4	4	14	3	10	5	18	85
08:15 AM	6	2	0	8	4	25	7	36	4	9	2	15	1	12	5	18	77
08:30 AM	7	3	0	10	0	43	15	58	6	9	1	16	4	12	3	19	103
08:45 AM	6	4	2	12	1	49	19	69	5	5	5	15	6	12	5	23	119
Total Volume	22	12	2	36	6	155	49	210	21	27	12	60	14	46	18	78	384
% App. Total	61.1	33.3	5.6		2.9	73.8	23.3		35	45	20		17.9	59	23.1		
PHF	.786	.750	.250	.750	.375	.791	.645	.761	.875	.750	.600	.938	.583	.958	.900	.848	.807

File Name: Badcock Place and Atlanta Ave. AM

Site Code:

Start Date : 11/6/2014

Page No : 1
Groups Printed-Truck

									Olou	parmi	cu- iii	uck									
		Bad	cock F	Place			Atl	anta A	ve.			Bad	cock F	Place			Atl	anta A	ve.		
		So	uthboo	und			W	estbou	und			No	orthbo	und			E	astbou	nd		
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
07:00 AM	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	1
07:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:30 AM	0	1	0	0	1	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	2
07:45 AM	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	1
Total	0	1	0	0	1	0	0	2	0	2	1	0	0	0	1	0	0	0	0	0	4
08:00 AM	0	0	0	0	0	0	2	1	0	3	0	0	0	0	0	0	0	0	0	0	3
08:15 AM	0	0	0	0	0	0	1	1	0	2	1	0	0	0	1	0	1	0	0	1	4
08:30 AM	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	1
08:45 AM	0	0	0	0	0	0	0	2	0	2	0	0	0	0	0	0	0	0	0	0	2
Total	0	0	0	0	0	0	3	5	0	8	1	0	0	0	1	0	1	0	0	1	10
Grand Total	0	1	0	0	1	0	3	7	0	10	2	0	0	0	2	0	1	0	0	1	14
Apprch %	0	100	0	0		0	30	70	0		100	0	0	0		0	100	0	0		
Total %	0	7.1	0	0	7.1	0	21.4	50	0	71.4	14.3	0	0	0	14.3	0	7.1	0	0	7.1	

		Badcocl	k Place	9		Atlant	a Ave.			Badcoc	k Place	•		Atlant	ta Ave.		
		South	oound			West	bound			North	bound			East	bound		
Start Time	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Int. Total
Peak Hour Analysis Fro	om 07:00 AN	I to 08:45 A	M - Peak	1 of 1													
Peak Hour for Entire	Intersection	n Begins a	t 07:30 A	AM													
07:30 AM	0	1	0	1	0	0	1	1	0	0	0	0	0	0	0	0	2
07:45 AM	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	1
08:00 AM	0	0	0	0	0	2	1	3	0	0	0	0	0	0	0	0	3
08:15 AM	0	0	0	0	0	1	1	2	1	0	0	1	0	1	0	1	4
Total Volume	0	1	0	1	0	3	3	6	2	0	0	2	0	1	0	1	10
% App. Total	0	100	0		0	50	50		100	0	0		0	100	0		
PHF	.000	.250	.000	.250	.000	.375	.750	.500	.500	.000	.000	.500	.000	.250	.000	.250	.625

File Name: Badcock Place and Atlanta Ave. AM

Site Code:

Start Date : 11/6/2014

: 1

Page No Groups Printed- Bicycles on Road

										IIIEU- DI	Cyclcs										i
		Bad	cock F	Place			Atl	anta A	ve.			Bad	cock F	Place			Atl	anta A	ve.		
		So	uthbou	und			W	estbou	ınd			No	orthboo	und			Ea	astbou	nd		
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
07:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
08:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
08:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
08:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
08:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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 %																					

		Badcocl Southb		Э		Atlanta				Badcoc	k Place bound)			a Ave.		
Start Time	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Int. Total
Peak Hour Analysis Fro	om 07:00 AN	I to 08:45 A	M - Peak	1 of 1													
Peak Hour for Entire	e Intersection	n Begins a	t 07:00 A	ΑM													
07:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:45 AM	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
% App. Total	0	0	0		0	0	0		0	0	0	1	0	0	0		
PHF	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

File Name: Badcock Place and Atlanta Ave. AM

Site Code:

Start Date : 11/6/2014

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Groups Printed- Car + Truck

								0	Oupo	i illittoa	Oui i	TTUOK									_
		Bad	cock F	Place			Atl	anta A	ve.			Bad	cock F	Place			Atl	anta A	ve.		
		So	uthbou	und			W	estbou	ınd			No	orthboo	und			E	astbou	nd		
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
07:00 AM	0	1	0	0	1	1	16	4	0	21	1	4	0	0	5	0	1	2	0	3	30
07:15 AM	3	2	0	0	5	1	22	3	0	26	1	6	2	0	9	0	15	4	0	19	59
07:30 AM	2	2	1	0	5	1	47	3	0	51	5	2	0	0	7	2	12	2	0	16	79
07:45 AM	4	1	0	0	5	2	49	11	0	62	4	3	0	0	7	3	7	2	0	12	86
Total	9	6	1	0	16	5	134	21	0	160	11	15	2	0	28	5	35	10	0	50	254
08:00 AM	3	3	0	0	6	1	40	9	0	50	6	4	4	1	15	3	10	5	0	18	89
08:15 AM	6	2	0	0	8	4	26	8	0	38	5	9	2	0	16	1	13	5	0	19	81
08:30 AM	7	3	0	0	10	0	43	16	0	59	6	9	1	0	16	4	12	3	0	19	104
08:45 AM	6	4	2	0	12	1	49	21	0	71	5	5	5	0	15	6	12	5	0	23	121
Total	22	12	2	0	36	6	158	54	0	218	22	27	12	1	62	14	47	18	0	79	395
Grand Total	31	18	3	0	52	11	292	75	0	378	33	42	14	1	90	19	82	28	0	129	649
Apprch %	59.6	34.6	5.8	0		2.9	77.2	19.8	0		36.7	46.7	15.6	1.1		14.7	63.6	21.7	0		
Total %	4.8	2.8	0.5	0	8	1.7	45	11.6	0	58.2	5.1	6.5	2.2	0.2	13.9	2.9	12.6	4.3	0	19.9	

		Badcocl Southb				Atlanta Westk	a Ave. oound				k Place bound)		Atlanta Eastb	a Ave. oound		
Start Time	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Int. Total
Peak Hour Analysis Fro	om 07:00 AN	I to 08:45 A	M - Peak	l of 1													
Peak Hour for Entire	e Intersection	n Begins a	t 08:00 A	M													
08:00 AM	3	3	0	6	1	40	9	50	6	4	4	14	3	10	5	18	88
08:15 AM	6	2	0	8	4	26	8	38	5	9	2	16	1	13	5	19	81
08:30 AM	7	3	0	10	0	43	16	59	6	9	1	16	4	12	3	19	104
08:45 AM	6	4	2	12	1	49	21	71	5	5	5	15	6	12	5	23	121
Total Volume	22	12	2	36	6	158	54	218	22	27	12	61	14	47	18	79	394
% App. Total	61.1	33.3	5.6		2.8	72.5	24.8	I	36.1	44.3	19.7	I	17.7	59.5	22.8		
PHF	.786	.750	.250	.750	.375	.806	.643	.768	.917	.750	.600	.953	.583	.904	.900	.859	.814

File Name: Badcock Place and Atlanta Ave. PM

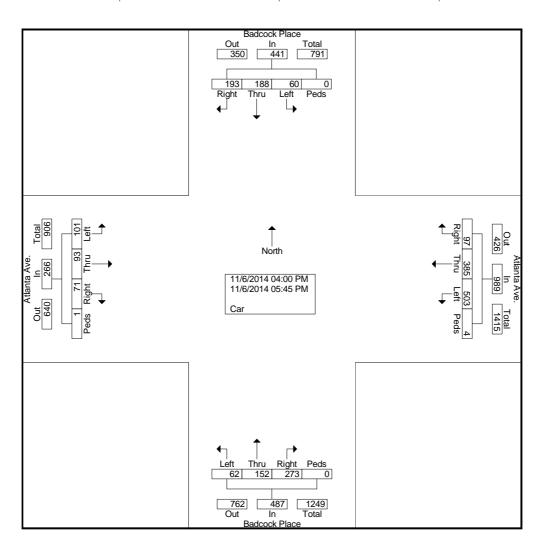
Site Code:

Start Date : 11/6/2014

Page No : 1

Groups Printed- Car

										<u> </u>											
		Bad	cock F	Place			Atl	anta A	ve.			Bad	lcock F	Place			Atl	anta A	ve.		
		So	uthboo	und			W	estbou	und			No	orthboo	und			E	astbou	ınd		
Start Time	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Int. Total
04:00 PM	22	17	10	0	49	11	42	57	1	111	37	25	9	0	71	5	7	10	0	22	253
04:15 PM	19	21	7	0	47	19	43	53	1	116	35	19	5	0	59	8	8	14	0	30	252
04:30 PM	23	27	6	0	56	13	39	79	0	131	43	22	4	0	69	7	14	12	0	33	289
04:45 PM	27	23	4	0	54	9	53	78	0	140	37	20	6	0	63	11	9	8	0	28	285
Total	91	88	27	0	206	52	177	267	2	498	152	86	24	0	262	31	38	44	0	113	1079
05:00 PM	30	20	4	0	54	11	53	75	2	141	35	23	11	0	69	9	13	14	1	37	301
05:15 PM	28	22	9	0	59	10	56	57	0	123	38	14	10	0	62	18	15	16	0	49	293
05:30 PM	21	33	7	0	61	11	52	54	0	117	26	14	10	0	50	3	16	17	0	36	264
05:45 PM	23	25	13	0	61	13	47	50	0	110	22	15	7	0	44	10	11	10	0	31	246
Total	102	100	33	0	235	45	208	236	2	491	121	66	38	0	225	40	55	57	1	153	1104
Grand Total	193	188	60	0	441	97	385	503	4	989	273	152	62	0	487	71	93	101	1	266	2183
Apprch %	43.8	42.6	13.6	0		9.8	38.9	50.9	0.4		56.1	31.2	12.7	0		26.7	35	38	0.4		
Total %	8.8	8.6	2.7	0	20.2	4.4	17.6	23	0.2	45.3	12.5	7	2.8	0	22.3	3.3	4.3	4.6	0	12.2	



File Name: Badcock Place and Atlanta Ave. PM

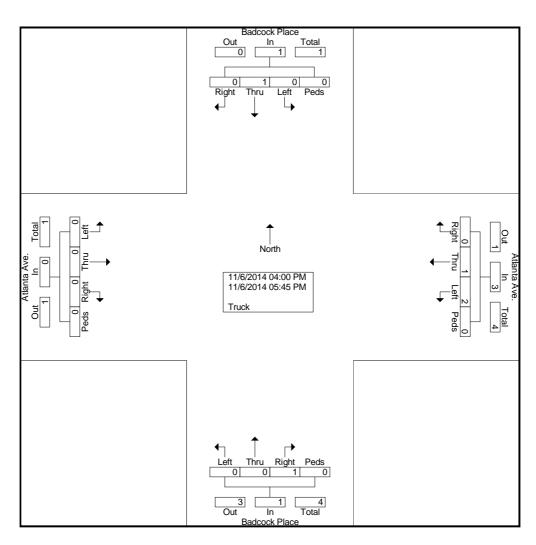
Site Code:

Start Date : 11/6/2014

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Groups Printed- Truck

			cock F uthboo					anta A estbou					lcock F orthboo					anta A astbou			
Start Time	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Int. Total
04:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:15 PM	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
04:30 PM	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	1
04:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	1	0	0	1	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	2
05:00 PM	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	1
05:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:30 PM	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	1
05:45 PM	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	1
Total	0	0	0	0	0	0	1	2	0	3	0	0	0	0	0	0	0	0	0	0	3
Grand Total	0	1	0	0	1	0	1	2	0	3	1	0	0	0	1	0	0	0	0	0	5
Apprch %	0	100	0	0		0	33.3	66.7	0		100	0	0	0		0	0	0	0		
Total %	0	20	0	0	20	0	20	40	0	60	20	0	0	0	20	0	0	0	0	0	



File Name: Badcock Place and Atlanta Ave. PM

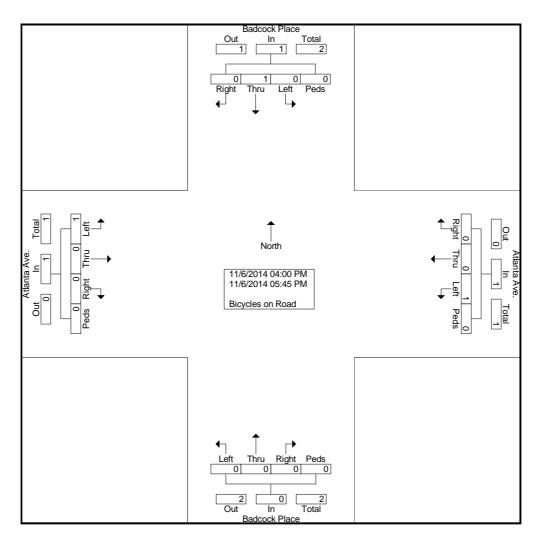
Site Code:

Start Date : 11/6/2014

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Groups	Printed-	Bicycles	on	Road

		Bad	cock F	Place			Atl	anta A	ve.			Bad	cock F	Place			Atl	anta A	ve.		
		So	uthbo	und			W	estbo	und			No	rthbou	und			E	astbou	nd		
Start Time	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Int. Total
04:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:15 PM	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
04:30 PM	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	1	0	1	2
04:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	1	0	0	1	0	0	1	0	1	0	0	0	0	0	0	0	1	0	1	3
05:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0_
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Grand Total	0	1	0	0	1	0	0	1	0	1	0	0	0	0	0	0	0	1	0	1	3
Apprch %	0	100	0	0		0	0	100	0		0	0	0	0		0	0	100	0		
Total %	0	33.3	0	0	33.3	0	0	33.3	0	33.3	0	0	0	0	0	0	0	33.3	0	33.3	



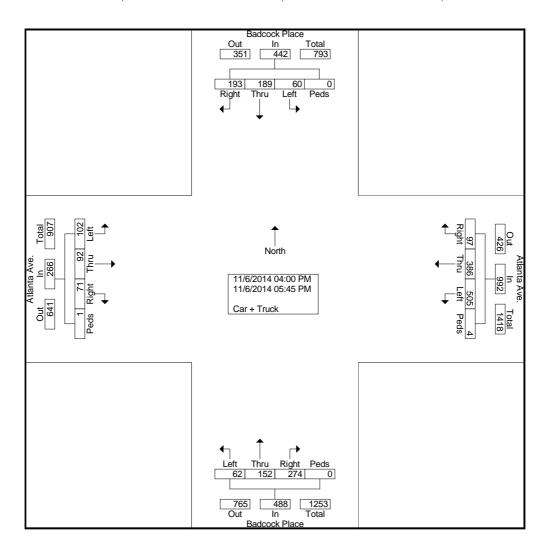
File Name: Badcock Place and Atlanta Ave. PM

Site Code:

Start Date : 11/6/2014

Page No : 1
Groups Printed- Car + Truck

									_		Ou										ı
		Bad	cock F	'lace			Atl	anta A	we.			Bad	cock F	Place			Atl	anta A	ve.		
		So	uthbou	und			W	estbou	ınd			No	orthboo	und			E	astbou	nd		
Start Time	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Int. Total
04:00 PM	22	17	10	0	49	11	42	57	1	111	37	25	9	0	71	5	7	10	0	22	253
04:15 PM	19	22	7	0	48	19	43	53	1	116	35	19	5	0	59	8	8	14	0	30	253
04:30 PM	23	27	6	0	56	13	39	79	0	131	44	22	4	0	70	7	13	13	0	33	290
04:45 PM	27	23	4	0	54	9	53	78	0	140	37	20	6	0	63	11	9	8	0	28	285
Total	91	89	27	0	207	52	177	267	2	498	153	86	24	0	263	31	37	45	0	113	1081
										,						'					
05:00 PM	30	20	4	0	54	11	53	76	2	142	35	23	11	0	69	9	13	14	1	37	302
05:15 PM	28	22	9	0	59	10	56	57	0	123	38	14	10	0	62	18	15	16	0	49	293
05:30 PM	21	33	7	0	61	11	52	55	0	118	26	14	10	0	50	3	16	17	0	36	265
05:45 PM	23	25	13	0	61	13	48	50	0	111	22	15	7	0	44	10	11	10	0	31	247
Total	102	100	33	0	235	45	209	238	2	494	121	66	38	0	225	40	55	57	1	153	1107
					,					,											
Grand Total	193	189	60	0	442	97	386	505	4	992	274	152	62	0	488	71	92	102	1	266	2188
Apprch %	43.7	42.8	13.6	0		9.8	38.9	50.9	0.4		56.1	31.1	12.7	0		26.7	34.6	38.3	0.4		
Total %	8.8	8.6	2.7	0	20.2	4.4	17.6	23.1	0.2	45.3	12.5	6.9	2.8	0	22.3	3.2	4.2	4.7	0	12.2	



Intersection												
Int Delay, s/veh	4											
<i>J.</i>												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NI	BL NB	NBR	SBL	SBT	SBR
Traffic Vol, veh/h	18	47	14	54	158	6		12 2		2	12	22
Future Vol, veh/h	18	47	14	54	158	6		12 2		2	12	22
Conflicting Peds, #/hr	0	0	0	0	0	0		0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	St	op Sto	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None		-	- None	-	-	None
Storage Length	-	-	-	0	-	-		30		-	-	25
Veh in Median Storage, #	-	0	-	-	0	-		-) -	-	0	-
Grade, %	-	0	-	-	U	-) -	-	0	-
Peak Hour Factor	92	92	92	92	92	92	(92 9		92	92	92
Heavy Vehicles, %	2	2	2	2		2			2 2	2	2	2
Mvmt Flow	20	51	15	59	172	7		13 2	9 24	2	13	24
Major/Minor	Major1			Major2			Mino	r1		Minor2		
Conflicting Flow All	178	0	0	66	0	0	3'	97 39	1 33	371	397	175
Stage 1	-	-	-	-	-	-		98 9	} -	292	292	-
Stage 2	-	-	-	-	-	-	2'	99 29	, -	79	105	-
Critical Hdwy	4.12	-	-	4.14	-	-	7.	33 6.5	6.93	7.33	6.53	6.23
Critical Hdwy Stg 1	-	-	-	-	-	-	6.	53 5.5	-	6.13	5.53	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.	13 5.5	-	6.53	5.53	-
Follow-up Hdwy	2.218	-	-	2.22	-	-	3.5			3.519	4.019	3.319
Pot Cap-1 Maneuver	1398	-	-	1534	-	-		50 54		573	540	868
Stage 1	-	-	-	-	-	-		98 81		715	670	-
Stage 2	-	-	-	-	-	-	7	09 66	-	921	808	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	1398	-	-	1534	-	-		03 51		514	511	868
Mov Cap-2 Maneuver	-	-	-	-	-	-		03 51		514	511	-
Stage 1	-	-	-	-	-	-		35 80		704	644	-
Stage 2	-	-	-	-	-	-	6	50 64	_	854	796	-
Approach	EB			WB			1	I B		SB		
HCM Control Delay, s	1.7			1.8			11	.2		10.5		
HCM LOS								В		В		
Minor Lane/Major Mvmt	NBLn1 N	IBLn2	EBL	EBT EBR	WBL	WBT	WBR SBL	า1 SBLn	<u>)</u>			
Capacity (veh/h)	503	663	1398		1534	-		11 86				
HCM Lane V/C Ratio	0.026		0.014		0.038	-		03 0.02				
HCM Control Delay (s)	12.3	10.9	7.6	0 -	7.4	-	- 12					
HCM Lane LOS	В	В	А	Α -		-	-	В				
HCM 95th %tile Q(veh)	0.1	0.3	0			-	- (.1 0.				
. , ,												

Int Delay, s/veh	1.8													
Movement	EBL	EBT	EBR		WBL	WBT	WBR		NBL	NBT	NBR	SBL	SBT	SBR
Traffic Vol., veh/h	3	4	3		7	0	43		3	290	30	33	120	2
Future Vol, veh/h	3	4	3		7	0	43		3	290	30	33	120	2
Conflicting Peds, #/hr	0	0	0		0	0	0		0	0	0	0	0	0
Sign Control	Stop	Stop	Stop		Stop	Stop	Stop		Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None		-	-	None		-	-	None	-	-	None
Storage Length	-	-	-		-	-	-		-	-	-	-	-	-
Veh in Median Storage,	# -	0	-		-	0	-		-	0	-	-	0	-
Grade, %	-	0	-		-	0	-		-	0	-	-	0	-
Peak Hour Factor	92	92	92		92	92	92		92	92	92	92	92	92
Heavy Vehicles, %	2	2	2		2	2	2		2	2	2	2	2	2
Mvmt Flow	3	4	3		8	0	47		3	315	33	36	130	2
Major/Minor	Minor2			N	/linor1			Ma	ajor1			Major2		
		557	132			542	332			0	0		0	0
			_				-		-	_	-	-	_	_
•			-				-		-	-	_	-	-	-
			6.22				6.22		4.12	-	-	4.12	-	-
•			-				-		-	-	-	-	-	-
, ,			-				-		-	-	-	-	-	-
	3.518	4.018	3.318		3.518	4.018	3.318	2	.218	-	-	2.218	-	-
	436	439	917		449	447	710	1	1452	-	-	1211	-	-
•	799	733	-		676	641	-		-	-	-	-	-	-
	657	630	-		795	733	-		-	-	-	-	-	-
Platoon blocked, %										-	-		-	-
Mov Cap-1 Maneuver	396	424	917		432	431	710	1	1452	-	-	1211	-	-
•	396	424	-		432	431	-		-	-	-	-	-	-
•	797	710	-		674	639	-		-	-	-	-	-	-
· ·	612	628	-		762	710	-		-	-	-	-	-	-
ŭ														
Approach	EB				WB				NB			SB		
					11				0.1			1.7		
	В				В									
Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1W	/BLn1	SBL	SBT	SBR						
Capacity (veh/h)	1452	-	-	493	651	1211	-	-						
		-	-	0.022		0.03	-	-						
		0	-				0	-						
		A	-				A	-						
HCM 95th %tile Q(veh)	0	-	-	0.1	0.3	0.1	-	-						
Major/Minor Conflicting Flow All Stage 1 Stage 2 Critical Hdwy Critical Hdwy Stg 1 Critical Hdwy Stg 2 Follow-up Hdwy Pot Cap-1 Maneuver Stage 1 Stage 2 Platoon blocked, % Mov Cap-1 Maneuver Mov Cap-2 Maneuver Stage 1 Stage 2 Platoon blocked, % Mov Cap-1 Maneuver Mov Cap-2 Maneuver Mov Cap-2 Maneuver Stage 1 Stage 2 Approach HCM Control Delay, s HCM LOS Minor Lane/Major Mvmt Capacity (veh/h) HCM Lane V/C Ratio HCM Control Delay (s) HCM Lane LOS	Minor2 564 203 361 7.12 6.12 6.12 3.518 436 799 657 396 396 797 612 EB 12.5 B NBL 1452 0.002 7.5 A	557 203 354 6.52 5.52 4.018 439 733 630 424 710 628 NBT	132 	EBLn1W 493 0.022 12.5 B	Minor1 545 338 207 7.12 6.12 6.12 3.518 449 676 795 432 432 674 762 WB 11 B /BLn1 651 0.083 11 B	542 338 204 6.52 5.52 4.018 447 641 733 431 431 639 710 SBL 1211 0.03 8.1 A	332	2 1 1 1 SBR	133 - 4.12 - 218 1452 - - - NB	0 - - - - - - -	0	Major2 348 - 4.12 - 2.218 1211 - 1211 - SB	0 - - - - - - - -	

Intersection												
Int Delay, s/veh	25.7											
j												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Traffic Vol, veh/h	51	50	45	290	201	43	31	79	154	23	92	108
Future Vol, veh/h	51	50	45	290	201	43	31	79	154	23	92	108
Conflicting Peds, #/hr	C	0	0	0	0	0	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	-	-	-	0	-	-	80	-	-	-	-	25
Veh in Median Storage,	# -	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	55	54	49	315	218	47	34	86	167	25	100	117
Major/Minor	Major1			Major2			Minor1			Minor2		
Conflicting Flow All	265	0	0	103	0	0	1112	1086	52	1053	1086	242
Stage 1		-	-	-	-	-	190	190	-	872	872	-
Stage 2		-	-	-	-	-	922	896	-	181	214	-
Critical Hdwy	4.12	-	-	4.14	-	-	7.33	6.53	6.93	7.33	6.53	6.23
Critical Hdwy Stg 1		-	-	-	-	-	6.53	5.53	-	6.13	5.53	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.13	5.53	-	6.53	5.53	-
Follow-up Hdwy	2.218	-	-	2.22	-	-	3.519	4.019	3.319	3.519	4.019	3.319
Pot Cap-1 Maneuver	1299	-	-	1487	-	-	174	216	1005	192	216	796
Stage 1		-	-	-	-	-	794	742	-	344	367	-
Stage 2		-	-	-	-	-	323	358	-	804	725	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	1299	-	-	1487	-	-	63	163	1005	77	163	796
Mov Cap-2 Maneuver	-	-	-	-	-	-	63	163	-	77	163	-
Stage 1	-	-	-	-	-	-	758	709	-	329	289	-
Stage 2	-	-	-	-	-	-	142	282	-	562	692	-
Approach	EB			WB			NB			SB		
HCM Control Delay, s	2.8			4.4			43.8			70.2		
HCM LOS							Е			F		
Minor Lane/Major Mvmt	NBLn1	NBLn2	EBL	EBT EBR	WBL	WBT	WBR SBLn1	SBLn2				
Capacity (veh/h)	63		1299		1487		- 133	796				
HCM Lane V/C Ratio		0.694			0.212	_		0.147				
HCM Control Delay (s)	114.7		7.9	0.1 -	0.4	-	- 126.4	10.3				
HCM Lane LOS	F		Α.,	Α -		_	- F	В				
HCM 95th %tile Q(veh)	2.2		0.1		0.0	-	- 6.4	0.5				
	۷.۲	- 3	5.1		0.0		0.7	0.0				

Intersection														
Int Delay, s/veh	5.7													
пи регау, з/чеп	J. <i>I</i>													
Movement	EBL	EBT	EBR		WBL	WBT	WBR	NI	BL N	NBT	NBR	SBL	SBT	SBR
Traffic Vol, veh/h	LDL	0	9		48	2	174	IN		309	24	94	432	5
Future Vol, veh/h	1	0	9		48	2	174			309	24	94	432	5
Conflicting Peds, #/hr	0	0	0		40	0	0		0	309	0	0	432	0
Sign Control		Stop				Stop	Stop	Er		ree	Free	Free	Free	Free
RT Channelized	Stop	310p -	Stop None		Stop	Siup -	None	ГІ	ee r	iee -	None	riee -	riee -	None
	-	-	None		-	-	None		-	-	None -	-	-	None
Storage Length	- ! -	0	-		-	0	-			0		-	0	-
Veh in Median Storage, # Grade, %	-	0	-		-	0	-		-	0	-	-	0	-
Peak Hour Factor	92	92	92		92	92	92		92	92	92	92	92	92
	2	2	2		2	2	2		2	2	2	2	2	2
Heavy Vehicles, % Mvmt Flow	1	0	10		52	2	189			336	26	102	470	5
IVIVIIIL FIOW	I	U	10		52	2	189		1	330	20	102	470	5
N 4 a i a u /N 4 i a a u	Minano			N /	!!1			Maia	1			Malan		
Major/Minor	Minor2				linor1			Majo				Major2		
Conflicting Flow All	1135	1052	472		1044	1041	349	4	75	0	0	362	0	0
Stage 1	677	677	-		362	362	-		-	-	-	-	-	-
Stage 2	458	375	-		682	679	-		-	-	-	-	-	-
Critical Hdwy	7.12	6.52	6.22		7.12	6.52	6.22	4.	12	-	-	4.12	-	-
Critical Hdwy Stg 1	6.12	5.52	-		6.12	5.52	-		-	-	-	-	-	-
Critical Hdwy Stg 2	6.12	5.52	-		6.12	5.52			-	-	-		-	-
Follow-up Hdwy	3.518	4.018	3.318		3.518	4.018		2.2		-	-	2.218	-	-
Pot Cap-1 Maneuver	179	227	592		207	230	694	10	87	-	-	1197	-	-
Stage 1	443	452	-		657	625	-		-	-	-	-	-	-
Stage 2	583	617	-		440	451	-		-	-	-	-	-	-
Platoon blocked, %										-	-		-	-
Mov Cap-1 Maneuver	117	199	592		184	202	694	10	87	-	-	1197	-	-
Mov Cap-2 Maneuver	117	199	-		184	202	-		-	-	-	-	-	-
Stage 1	439	400	-		652	620	-		-	-	-	-	-	-
Stage 2	419	612	-		383	399	-		-	-	-	-	-	-
Approach	EB				WB			ľ	NB			SB		
HCM Control Delay, s	13.8				23.7			().1			1.5		
HCM LOS	В				С									
Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1W	BLn1	SBL	SBT	SBR						
Capacity (veh/h)	1087	-	-	421	430	1197	-	-						
HCM Lane V/C Ratio		-	-				-	-						
			-					-						
			-					-						
		-	-				-	-						
	0.006 8.3 A	0 A	- - -	0.026 (13.8 B 0.1			0 A	-						

Intersection												
Int Delay, s/veh	4.1											
int Dolay, Siven	7.1											
Movement	EBL	EBT	EBR	WE	L WBT	WBR	NB	L NBT	NBR	SBL	SBT	CDD
												SBR
Traffic Vol, veh/h	18	47	14		4 158	6	1		22	2	12	22
Future Vol, veh/h	18	47	14	5	4 158	6	1		22	2	12	22
Conflicting Peds, #/hr	0	0	0	Гии	0 0			0 0	0	0	0	0
Sign Control	Free	Free	Free	Fre		Free	Sto		Stop	Stop	Stop	Stop
RT Channelized	-	-	None		 0	None	8	 O -	None	-	-	None 25
Storage Length	- !	0			0 - - 0	-	Ö	- 0	-	-	0	25
Veh in Median Storage, # Grade, %	-	0	-		- 0	-		- 0	-	-	0	-
Peak Hour Factor	92	92	92	(2 92	92	9		92	92	92	92
Heavy Vehicles, %	2	2	2	7	2 9 2 2 2	2		2 92	2	2	2	2
Mymt Flow	22	56	17	4	z z 5 189	7	1		26	2	14	26
WWITH FIOW	22	50	17	C	5 109	I	ı	4 32	20	2	14	20
					_							
Major/Minor	Major1			Majoi			Minor			Minor2		
Conflicting Flow All	196	0	0	7	3 0	0	43		36	409	438	193
Stage 1	-	-	-			-	10		-	322	322	-
Stage 2	-	-	-			-	32		-	87	116	-
Critical Hdwy	4.12	-	-	4.1	4 -	-	7.3		6.93	7.33	6.53	6.23
Critical Hdwy Stg 1	-	-	-			-	6.5		-	6.13	5.53	-
Critical Hdwy Stg 2	-	-	-			-	6.1		-	6.53	5.53	-
Follow-up Hdwy	2.218	-	-	2.2		-	3.51		3.319	3.519	4.019	
Pot Cap-1 Maneuver	1377	-	-	152		-	51		1029	540	512	848
Stage 1	-	-	-			-	88		-	689	650	-
Stage 2	-	-	-			-	68	3 648	-	911	799	-
Platoon blocked, %	4077	-	-	450	-	-	4.7	7 405	4000	477	400	0.40
Mov Cap-1 Maneuver	1377	-	-	152		-	46		1029	477	482	848
Mov Cap-2 Maneuver	-	-	-			-	46		-	477	482	-
Stage 1	-	-	-			-	87		-	677	622	-
Stage 2	-	-	-			-	61	9 620	-	837	785	-
Approach	EB			W	В		N	В		SB		
HCM Control Delay, s	1.7			1	8		11.	6		10.7		
HCM LOS								В		В		
Minor Lane/Major Mvmt	NBLn1	NBLn2	EBL	EBT EB	R WBL	WBT	WBR SBLn	1 SBLn2				
Capacity (veh/h)	467	636	1377	-	- 1525	_	- 48					
HCM Lane V/C Ratio	0.031	0.092		-	- 0.042	_		5 0.031				
HCM Control Delay (s)	13	11.2	7.7	0	- 7.5	-	- 12.					
HCM Lane LOS	В	В	A	A	- A	-		В А				
HCM 95th %tile Q(veh)	0.1	0.3	0	-	- 0.1	-	- 0.					
2(1011)	J.1	0.0			0.11			J. 1				

Intersection														
Int Delay, s/veh	1.9													
Movement	EBL	EBT	EBR		WBL	WBT	WBR	N	IBL	NBT	NBR	SBL	SBT	SBR
Traffic Vol, veh/h	3	4	3		7	0	43		3	290	30	33	120	2
Future Vol, veh/h	3	4	3		7	0	43		3	290	30	33	120	2
Conflicting Peds, #/hr	0	0	0		0	0	0		0	0	0	0	0	0
Sign Control	Stop	Stop	Stop		Stop	Stop	Stop	F	ree	Free	Free	Free	Free	Free
RT Channelized	-	-	None		-	-	None		-	-	None	-	-	None
Storage Length	-	-	-		-	-	-		-	-	-	-	-	-
Veh in Median Storage, #	<u>.</u>	0	-		-	0	-		-	0	-	-	0	-
Grade, %	-	0	-		-	0	-		-	0	-	-	0	-
Peak Hour Factor	92	92	92		92	92	92		92	92	92	92	92	92
Heavy Vehicles, %	2	2	2		2	2	2		2	2	2	2	2	2
Mvmt Flow	4	5	4		8	0	51		4	347	36	39	143	2
Major/Minor	Minor2			N	Minor1			Maj	or1			Major2		
Conflicting Flow All	622	614	145		600	597	365		146	0	0	383		0
Stage 1	224	224	-		372	372	-		-	_	-	-		_
Stage 2	398	390	-		228	225	_		-	_	_	_	-	-
Critical Hdwy	7.12	6.52	6.22		7.12	6.52	6.22	4	.12	_	-	4.12	-	-
Critical Hdwy Stg 1	6.12	5.52	_		6.12	5.52	-		-	-	_	-	-	-
Critical Hdwy Stg 2	6.12	5.52	-		6.12	5.52	-		-	_	-	-	-	-
Follow-up Hdwy	3.518	4.018	3.318		3.518	4.018	3.318	2.2	218	-	-	2.218	-	-
Pot Cap-1 Maneuver	399	407	902		413	416	680		436	-	-	1175		-
Stage 1	779	718	-		648	619	-		-	-	-	-	-	-
Stage 2	628	608	-		775	718	-		-	_	-	-	-	-
Platoon blocked, %										-	-		-	-
Mov Cap-1 Maneuver	358	391	902		395	399	680	14	436	-	-	1175	-	-
Mov Cap-2 Maneuver	358	391	-		395	399	-		-	-	-	-	-	-
Stage 1	776	692	-		645	617	-		-	-	-	-	-	-
Stage 2	578	606	-		739	692	-		-	-	-	-	-	-
J														
Approach	EB				WB				NB			SB		
HCM Control Delay, s	13.1				11.4				0.1			1.7		
HCM LOS	В				В									
	_				_									
Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1V	VBLn1	SBL	SBT	SBR						
Capacity (veh/h)	1436	-	-	456	618	1175	-	-						
HCM Lane V/C Ratio	0.002	-	-	0.026			-	-						
HCM Control Delay (s)	7.5	0	-	13.1	11.4	8.2	0	-						
HCM Lane LOS	A	A	-	В	В	A	A	-						
HCM 95th %tile Q(veh)	0	-	-	0.1	0.3	0.1	-	-						
					0.0	0.1								

Intersection												
	58.2											
Int Delay, s/veh	06.2											
Movement	EBL	EBT	EBR	WB	L WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Traffic Vol, veh/h	51	50	45	29	0 201	43	31	79	154	23	92	108
Future Vol, veh/h	51	50	45	29	0 201	43	31	79	154	23	92	108
Conflicting Peds, #/hr	0	0	0		0 0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Fre	e Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None			None	-	-	None	-	-	None
Storage Length	-	-	-		0 -	-	80	-	-	-	-	25
Veh in Median Storage, #	! _	0	-		- 0	-	-	0	-	-	0	-
Grade, %	-	0	-		- 0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	9	2 92	92	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2		2 2		2	2	2	2	2	2
Mvmt Flow	61	60	54	34		51	37	94	184	28	110	129
					•					1.41		
Major/Minor	Major1			Major			Minor1			Minor2		
Conflicting Flow All	292	0	0	11	4 0	0	1224	1194	57	1159	1196	266
Stage 1	-	-	-			-	209	209	-	960	960	-
Stage 2	-	-	-			-	1015	985	-	199	236	-
Critical Hdwy	4.12	-	-	4.1	4 -	-	7.33	6.53	6.93	7.33	6.53	6.23
Critical Hdwy Stg 1	-	-	-			-	6.53	5.53	-	6.13	5.53	-
Critical Hdwy Stg 2	-	-	-			-	6.13	5.53	-	6.53	5.53	-
Follow-up Hdwy	2.218	-	-	2.2	2 -	-	3.519	4.019	3.319	3.519	4.019	3.319
Pot Cap-1 Maneuver	1270	-	-	147	3 -	-	145	186	998	161	185	772
Stage 1	-	-	-			-	774	729	-	308	334	-
Stage 2	-	-	-			-	286	325	-	785	709	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	1270	-	-	147	3 -	-	~ 31	135	998	46	134	772
Mov Cap-2 Maneuver	-	-	-			-	~ 31	135	-	46	134	-
Stage 1	-	-	_			_	734	691	-	292	255	-
Stage 2	_	_	_			_	104	248	_	524	672	_
olago 2							101	210		021	0,2	
Approach	EB			W			NB			SB		
HCM Control Delay, s	2.8			4.	5		104.5			168.2		
HCM LOS							F			F		
Minor Lane/Major Mvmt	NBLn1	MRI n2	EBL	EBT EBI	R WBL	WBT	WBR SBLn1	SRI n2				
Capacity (veh/h)	31	315	1270	-	- 1473	WDI	- 97	772				
HCM Lane V/C Ratio						-	- 1.418					
	1.196		0.048	- 0.1	- 0.235							
HCM Long LOS	\$ 419		8	0.1	- 8.2		-\$ 316.3	10.6				
HCM OF the Office to Office to	F	F	A	Α	- A	-	- F	В				
HCM 95th %tile Q(veh)	4.1	8.2	0.2	-	- 0.9	-	- 10.1	0.6				
Notes												
~: Volume exceeds capac	city \$ D	elay exc	ceeds 30	00s +: Co	mputatio	n Not D	efined *· AI	l maior	volume	in platoon		
	,	z.aj one		00				ajoi	. 5.61110	p.a		

Intersection													
Int Delay, s/veh	7.7												
Movement	EBL	EBT	EBR		WBL	WBT	WBR	NB	L NBT	NBR	SBL	SBT	SBR
Traffic Vol, veh/h	1	0	9		48	2	174		6 309	24	94	432	5
Future Vol, veh/h	1	0	9		48	2	174		6 309	24	94	432	5
Conflicting Peds, #/hr	0	0	0		0	0	0		0 0	0	0	0	0
Sign Control	Stop	Stop	Stop		Stop	Stop	Stop	Fre		Free	Free	Free	Free
RT Channelized	-	-	None		-	-	None			None	-	-	None
Storage Length	-	-	-		-	-	-			-	-	-	-
Veh in Median Storage,	# -	0	-		-	0	-		- 0	-	-	0	-
Grade, %	-	0	-		-	0	-		- 0	-	-	0	-
Peak Hour Factor	92	92	92		92	92	92	9	2 92	92	92	92	92
Heavy Vehicles, %	2	2	2		2	2	2		2 2	2	2	2	2
Mvmt Flow	1	0	11		57	2	208		7 369	29	112	517	6
Major/Minor	Minor2			N	Minor1			Major	1		Major2		
		1157	520			1145	384			0		0	0
			-				-			-	-	-	-
· ·			-				-			-	-	-	_
			6.22				6.22	4.1	2 -	_	4.12	-	-
			-				-			-	-	-	_
, ,			_				-			_	-	-	-
			3.318				3.318	2.21	8 -	-	2.218	-	-
										-		-	-
•			-				-			-	-	-	-
			-				-			-	-	-	-
									-	-		-	-
	91	168	556		154	171	664	104	3 -	-	1161	-	-
•	91	168	-		154	171	-			-	-	-	-
•	403	364	-		622	598	-			-	-	-	-
	373	589	-		341	363	-			-	-	-	-
J													
Approach	EB				WB			N	В		SB		
					D								
	_				_								
Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1V	VBLn1	SBL	SBT	SBR					
Capacity (veh/h)	1043	-	-	368	383	1161	-						
		-	-	0.032			-	-					
		0	-				0	-					
		A	-	С	D	А	A	-					
HCM 95th %tile Q(veh)	0			0.1	5.1	0.3	-						
Conflicting Flow All Stage 1 Stage 2 Critical Hdwy Critical Hdwy Stg 1 Critical Hdwy Stg 2 Follow-up Hdwy Pot Cap-1 Maneuver Stage 1 Stage 2 Platoon blocked, % Mov Cap-1 Maneuver Mov Cap-2 Maneuver Stage 1 Stage 2 Platoon blocked, % Mov Cap-1 Maneuver Mov Cap-2 Maneuver Stage 1 Stage 2 Approach HCM Control Delay, s HCM LOS Minor Lane/Major Mvmt Capacity (veh/h) HCM Lane V/C Ratio HCM Control Delay (s) HCM Lane LOS	1247 744 503 7.12 6.12 6.12 3.518 150 407 551 91 91 403 373 EB 15.1 C NBL 1043 0.007 8.5 A	364 589 NBT - 0	6.22 - - 3.318 556 - - 556 - - - NBR	EBLn1V 368 0.032 15.1 C	1148 398 750 7.12 6.12 3.518 176 628 403 154 154 622 341 WB 33.5 D	\$88 363 \$BL 1161 0.097 8.4 A	6.22 - - 3.318 664 - - 664 - - - SBT - 0 A	52 4.1 2.21 104 104 N 0.	3 0 2 8 - 3 3 3		398 - 4.12 - 2.218 1161 - - 1161		

4.9 A									
А									
	EB			WB			NB		SB
	1			1			1		1
	1			1			1		1
	95			261			72		42
	96			266			74		43
	82			69			81		273
	234			86			80		55
	3.186			3.186			3.186		3.186
	0			0			0		0
	1.000			1.000			1.000		1.000
	3.4			5.7			4.2		4.8
	Α			А			Α		А
Left		Bypass	Left		Bypass	Left		Left	
LT		R	LT		R	LTR		LTR	
LT		R	LT		R	LTR		LTR	
		Free			Free				
1.000			1.000			1.000		1.000	
5.193			5.193					5.193	
79		17	259		7			43	
1041		1938	1055		1938			860	
0.986									
78		17	254		7	72		42	
1026		1900	1035		1900	1019		835	
0.076		0.009	0.246		0.004	0.071		0.050	
4.2		0.0	5.8		0.0	4.2		4.8	
Α		Α	Α		Α	Α		А	
						0			
(LT LT 1.000 5.193 79 1041 0.986 78 1026 0.076 4.2	95 96 82 234 3.186 0 1.000 3.4 A Left LT LT 1.000 5.193 79 1041 0.986 78 1026 0.076 4.2	95 96 82 234 3.186 0 1.000 3.4 A Left Bypass LT R LT R LT R 1.000 5.193 79 17 1041 1938 0.986 0.980 78 17 1026 1900 0.076 0.009 4.2 0.0	95 96 82 234 3.186 0 1.000 3.4 A Left Bypass Left LT R LT LT R LT Free 1.000 1.000 5.193 5.193 79 17 259 1041 1938 1055 0.986 0.980 0.982 78 17 254 1026 1900 1035 0.076 0.009 0.246 4.2 0.0 5.8	95 261 96 266 82 69 234 86 3.186 3.186 0 0 1.000 1.000 3.4 5.7 A A Left Bypass Left LT R LT LT R LT Free 1.000 1.000 5.193 5.193 79 17 259 1041 1938 1055 0.986 0.980 0.982 78 17 254 1026 1900 1035 0.076 0.009 0.246 4.2 0.0 5.8	95 261 96 266 82 69 234 86 3.186 3.186 0 0 1.000 1.000 3.4 5.7 A A Left Bypass Left Bypass LT R LT R LT R LT R LT R LT R Free Free 1.000 1.000 5.193 5.193 79 17 259 7 1041 1938 1055 1938 0.986 0.980 0.982 0.980 78 17 254 7 1026 1900 1035 1900 0.076 0.009 0.246 0.004 4.2 0.0 5.8 0.0	95 261 96 266 82 69 234 86 3.186 3.186 0 0 1.000 1.000 3.4 5.7 A A Left Bypass Left Bypass Left LT R LT R LT R LTR LT R LT R LTR LT R LT R	95 261 72 96 266 74 82 69 81 234 86 80 3.186 3.186 3.186 0 0 0 0 0 1.000 1.000 1.000 3.4 5.7 4.2 A A A A Left Bypass Left Bypass Left LT R LT R LTR LT R LT R LTR LT R LTR Free Free 1.000 1.000 1.000 5.193 5.193 5.193 79 17 259 7 74 1041 1938 1055 1938 1042 0.986 0.980 0.982 0.980 0.978 78 17 254 7 72 1026 1900 1035 1900 1019 0.076 0.009 0.246 0.004 0.071 4.2 0.0 5.8 0.0 4.2	95 261 72 96 266 74 82 69 81 234 86 80 3.186 3.186 3.186 0 0 0 0 0 1.000 1.000 1.000 3.4 5.7 4.2 A A A A Left Bypass Left Bypass Left Left LT R LT R LTR LT R LT R LTR LT R LT R L

Intersection							
Intersection Delay, s/veh	10.8						
Intersection LOS	В						
Approach		EB		WB	NB		SB
Entry Lanes		1		1	1		1
Conflicting Circle Lanes		1		1	1		1
Adj Approach Flow, veh/h		175		638	315		267
Demand Flow Rate, veh/h		178		651	322		273
Vehicles Circulating, veh/h		495		196	152		637
Vehicles Exiting, veh/h		415		278	466		158
Follow-Up Headway, s		3.186		3.186	3.186	3.	186
Ped Vol Crossing Leg, #/h		0		0	0		0
Ped Cap Adj		1.000		1.000	1.000	1.	000
Approach Delay, s/veh		5.1		12.9	7.3	•	13.5
Approach LOS		Α		В	A		В
Lane	Left	Bypass	Left	Bypass	Left	Left	
Designated Moves	LT	R	LT	_	LTD		
		11	LI	R	LTR	LTR	
Assumed Moves	LT	R	LT	R R	LTR	LTR LTR	
Assumed Moves RT Channelized							
RT Channelized		R		R			
RT Channelized Lane Util	LT	R	LT	R	LTR	LTR	
	LT 1.000	R	LT 1.000	R	LTR 1.000	LTR 1.000	
RT Channelized Lane Util Critical Headway, s	1.000 5.193	R Free	1.000 5.193	R Free	1.000 5.193	LTR 1.000 5.193	
RT Channelized Lane Util Critical Headway, s Entry Flow, veh/h	1.000 5.193 123	R Free 55	1.000 5.193 599	R Free 52	1.000 5.193 322	LTR 1.000 5.193 273 598 0.977	
RT Channelized Lane Util Critical Headway, s Entry Flow, veh/h Cap Entry Lane, veh/h Entry HV Adj Factor	1.000 5.193 123 689	Free 55 1938	1.000 5.193 599 929	R Free 52 1938	1.000 5.193 322 971	LTR 1.000 5.193 273 598	
RT Channelized Lane Util Critical Headway, s Entry Flow, veh/h Cap Entry Lane, veh/h Entry HV Adj Factor Flow Entry, veh/h	1.000 5.193 123 689 0.982	Free 55 1938 0.980	1.000 5.193 599 929 0.980	Free 52 1938 0.980	1.000 5.193 322 971 0.979	LTR 1.000 5.193 273 598 0.977	
RT Channelized Lane Util Critical Headway, s Entry Flow, veh/h Cap Entry Lane, veh/h Entry HV Adj Factor Flow Entry, veh/h Cap Entry, veh/h	1.000 5.193 123 689 0.982 121 676 0.179	Free 55 1938 0.980 54	1.000 5.193 599 929 0.980 587	Free 52 1938 0.980 51	1.000 5.193 322 971 0.979 315 950 0.332	LTR 1.000 5.193 273 598 0.977 267	
RT Channelized Lane Util Critical Headway, s Entry Flow, veh/h Cap Entry Lane, veh/h Entry HV Adj Factor Flow Entry, veh/h Cap Entry, veh/h V/C Ratio	1.000 5.193 123 689 0.982 121 676	Free 55 1938 0.980 54 1900	1.000 5.193 599 929 0.980 587 911	Free 52 1938 0.980 51 1900	1.000 5.193 322 971 0.979 315 950	LTR 1.000 5.193 273 598 0.977 267 584	
RT Channelized Lane Util Critical Headway, s Entry Flow, veh/h Cap Entry Lane, veh/h Entry HV Adj Factor	1.000 5.193 123 689 0.982 121 676 0.179	Free 55 1938 0.980 54 1900 0.028	1.000 5.193 599 929 0.980 587 911 0.645	Free 52 1938 0.980 51 1900 0.027	1.000 5.193 322 971 0.979 315 950 0.332	1.000 5.193 273 598 0.977 267 584 0.457	
RT Channelized Lane Util Critical Headway, s Entry Flow, veh/h Cap Entry Lane, veh/h Entry HV Adj Factor Flow Entry, veh/h Cap Entry, veh/h V/C Ratio Control Delay, s/veh	1.000 5.193 123 689 0.982 121 676 0.179 7.4	Free 55 1938 0.980 54 1900 0.028 0.0	1.000 5.193 599 929 0.980 587 911 0.645 14.1	52 1938 0.980 51 1900 0.027 0.0	1.000 5.193 322 971 0.979 315 950 0.332 7.3	1.000 5.193 273 598 0.977 267 584 0.457	