

TRAFFIC/TRANSPORTATION TECHNICAL MEMORANDUM





1401 EAST BROAD STREET RICHMOND, VA 23219



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ACRONYMS

AASHTO American Association of State Highway and Transportation Officials

AADT Annual Average Daily Traffic
AAWDT Annual Average Weekday Traffic

ADT Average Daily Traffic APM A.P. Moller-Maersk

EIS Environmental Impact Statement

EB East Bound

EBL Express Bus Lanes
ETL Express Toll Lanes

FHWA Federal Highway Administration
HCM Highway Capacity Manual
HCS Highway Capacity Software
HOV High Occupancy Vehicle
HOT High Occupancy Toll

HRBT Hampton Roads Bridge-Tunnel

I Interstate

LOS Level of Service
MAC Media Access Control

MMBT Monitor-Merrimac Bridge-Tunnel

MP Mile Post

MPO Metropolitan Planning Organization

NCHRP National Cooperative Highway Research Program

NEPA National Environmental Policy Act

National Highway System **NHS NIT** Norfolk International Terminal NS Norfolk Southern Railroad **PCE** Passenger car equivalent **SSD** Stopping sight distance **STRAHNET** Strategic Highway Network **SYIP** Six-Year Improvement Program **TEU** Twenty-Foot Equivalent Unit **TDM** Travel Demand Management

TPO Transportation Planning Organization
TSM Transportation Systems Management
VDOT Virginia Department of Transportation

VDRPT Virginia Department of Rail and Public Transportation

VOT Value of Time

VPA Virginia Port Authority
VPD Vehicles per Day
VPH Vehicles per Hour

WB West Bound



I. Introduction

This *Traffic and Transportation Technical Memorandum* presents a detailed description of the traffic analyses conducted to evaluate baseline 2011 and future 2040 traffic, safety and geometric conditions within the study area of the Interstate 64 (I-64) Peninsula Study. This information can also serve as a basis for the Indirect and Cumulative Impacts Analysis.

A. Description

The Virginia Department of Transportation (VDOT), in cooperation with the Federal Highway Administration (FHWA), is evaluating options to improve the 75 mile long Interstate 64 (I-64) corridor from the Interstate 95 (I-95) (Exit 190) interchange in the City of Richmond to the Interstate 664 (I-664) (Exit 264) interchange in the City of Hampton. This study is known as the Interstate 64 Peninsula Study (hereinafter referred to as the I-64 Study in this document). As shown in **Figure 1**, the study area is located within seven localities, including the City of Richmond, Henrico County, New Kent County, James City County, York County, the City of Newport News, and the City of Hampton.

The number of lanes on existing I-64 varies through the study area. In the vicinity of the City of Richmond, from Exit 190 to Exit 197, there are generally three travel lanes in each direction. Between Exit 197 and mile marker 254, there are generally two travel lanes in each direction. Beginning at mile marker 254 and continuing east to the City of Hampton area, I-64 widens to four lanes in each direction with three general purpose lanes and one 2+ person High Occupancy Vehicle (HOV 2+) lane during the AM and PM peak periods. There are some additional lanes between closely spaced interchanges at the eastern end of the corridor to provide for easier merging of traffic on and off of the I-64 mainline.

B. Alternatives

There are a number of possible solutions to address the need for improvements along the I-64 corridor, as described in detail in the *Alternatives Development Technical Memorandum*. The goals are to develop solutions that meet the project purpose and needs while avoiding and/or minimizing impacts to the human and natural environments. The following are the alternatives being carried forward in this study:

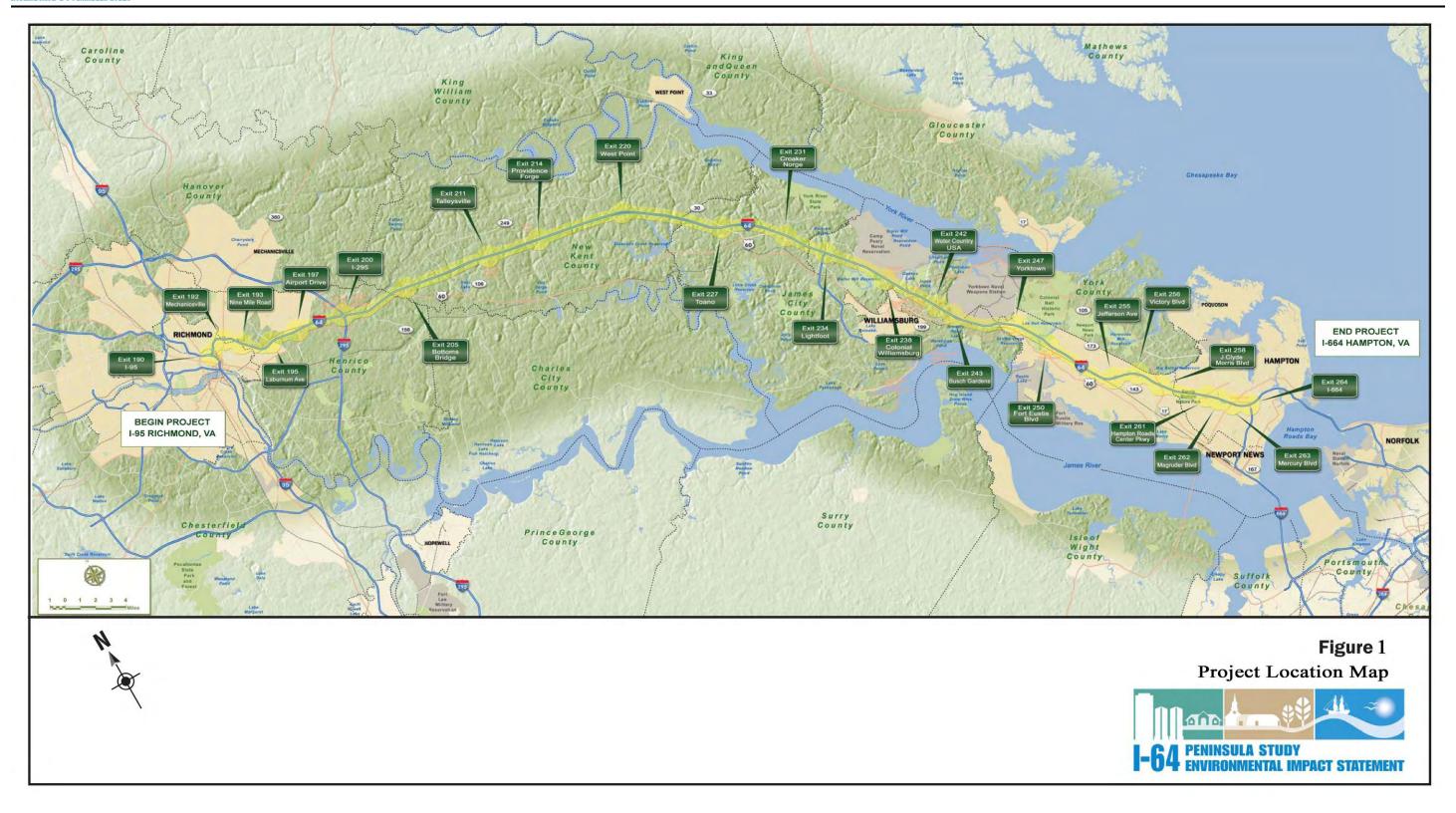
1. No-Build Alternative

The No-Build Alternative serves as a baseline for the comparison of future conditions and impacts. The No-Build Alternative assumes that the projects currently programmed and funded in the VDOT's Fiscal Year 2013 – 2018 Six-Year Improvement Program (SYIP) will be implemented. In addition to the programmed VDOT projects, the Tidewater Super-Regional Model developed by VDOT and used for this study includes other projects within the corridor that are part of the Richmond Area Metropolitan Planning Organization (MPO) or Hampton Roads Transportation Planning Organization's (TPO) Constrained Long Range Plans, as well as the Rural Long Range Transportation Plans (which are not fiscally constrained) for the Richmond and Hampton Roads Planning District Commissions. Those projects form a part of the base conditions and the effects of these projects on I-64 traffic are accounted for in all 2040 No-Build analyses.

2. Alternatives 1A/1B General Purpose Lanes

These alternatives involve adding additional general purpose travel lanes to the I-64 mainline to achieve a Level of Service (LOS) C or better in the design year 2040. Although there are numerous possible combinations for adding these lanes, the analysis focused on adding all needed lanes, within the existing right of way, to the greatest extent practicable, to either the outside of the existing lanes, which is Alternative 1A, or to the inside of the existing lanes within the median, which is Alternative 1B. For Alternative 1B, the lanes are also proposed in the median to the greatest extent practicable. However, not all sections of the corridor have sufficient median area to accommodate the needed additional lanes so in







these areas the additional lanes are proposed to the outside. For the 25 existing interchanges within the study area corridor, geometric deficiencies were examined along with design year 2040 traffic volumes and resulting LOS at each interchange location. Conceptual designs were investigated that would accommodate the future traffic and assumptions were made and applied to each interchange to establish a study footprint that would allow for enough flexibility during the final design stage to accommodate other concepts not yet examined. Further engineering and traffic analyses would be performed at each interchange as the project progresses. During the Interchange Modification Report (IMR) process, which is required by FHWA before any changes can be made to Interstate interchanges, each of these interchange configurations would serve as a starting point to be further studied and refined with a more in-depth examination of the needs at each location, in order to produce a constructible design.

3. Alternatives 2A/2B Full Toll Lanes

These alternatives evaluate the impacts of tolling the entire facility. However, as of the time of this study, there is no federal or state agreement in place that would allow for tolling I-64 from I-95 in the City of Richmond to I-664 in the City of Hampton. Therefore, these alternatives that involve tolling may or may not ultimately be possible. Notwithstanding, because tolling could be an option in the future, alternatives that involve tolling were considered in the range of possible alternatives evaluated. For the purposes of this study, it was assumed that if the facility is tolled, the tolling would be for all vehicles, in both directions, and for the entire length of the corridor from I-95 in the City of Richmond to I-664 in the City of Hampton. It was also assumed that there would be toll collection stations, using overhead gantries and all-electronic tolling, for every interchange-to interchange sections of I-64. If Alternative 2A or 2B is identified as the Preferred Alternative, subsequent studies will refine the specifics of the tolling, such as whether or not it would encompass the entire length of the I-64 corridor along with the number and placement of the toll collection stations. In order to determine the number of lanes needed for Alternatives 2A/2B, the traffic studies included a toll diversion analysis. As a result of this analysis, the tolling of I-64 is expected to have either a neutral effect or result in a decrease in traffic volumes on the I-64 mainline due to people choosing to avoid a tolled I-64 and using other parallel routes instead. The tolls are not expected to result in increased volumes at any location on the I-64 mainline. This analysis indicated possible reductions to traffic on the I-64 corridor, however these reductions are not projected to change the number of lanes needed to achieve a LOS C or better in the design year 2040 from those indicated for the General Purpose Lanes Alternatives. Therefore, the proposed disturbance limits for Alternatives 2A/2B would be the same as Alternatives 1A/1B, respectively. Although there are numerous possible combinations for adding these lanes, the analysis focused on adding all needed lanes within the existing right of way, to the greatest extent practicable, to either the outside of the existing lanes, which is Alternative 2A, or to the inside of the existing lanes within the median, which is Alternative 2B. For Alternative 2B, the lanes are also proposed in the median to the greatest extent practicable. However, not all sections of the corridor have sufficient median area to accommodate the needed additional lanes so in these areas the additional lanes are proposed to the outside. In addition to the mainline improvements, due to only modest changes in traffic volumes, as determined in the toll diversion analysis, Alternatives 2A/2B also includes the same improvements to the 25 interchanges as described with Alternatives 1A/1B.

4. Alternative 3 Managed Lanes

This alternative involves the addition of separated, managed lanes located in the median. These managed lanes were examined for the entire length of the I-64 study area from I-95 in the City of Richmond to I-664 in the City of Hampton. As previously described, not all sections of the I-64 corridor have sufficient median area to accommodate the addition of any lanes. In these areas, the facility is proposed to be widened to the outside of the existing general purpose lanes in order to accommodate the managed lanes between the eastbound and westbound general purpose travel lanes. Managed lanes can refer to many different strategies, including:



- High Occupancy Vehicle (HOV) lanes.
- High Occupancy Toll (HOT) lanes.
- Express Toll Lanes (ETL).
- Express Bus Lanes (EBL).

For any of the managed lanes that involve toll collection (HOT or ETL lanes), traditional toll plazas were not included. All toll collection would be conducted by overhead gantries with all-electronic tolling used to collect all tolls at highway speeds. The Environmental Impact Statement (EIS) study does not identify what type of managed lanes would be constructed. Based on the results of the capacity analysis, the lane configurations developed for Alternative 3 along the I-64 corridor are described in the *Alternatives Development Technical Memorandum*. If Alternative 3 is identified as the Preferred Alternative, subsequent studies would refine the specifics of the managed lanes throughout the I-64 corridor.

C. Other Adjacent Studies

There are two other ongoing VDOT traffic studies within the study area. The traffic volumes development and capacity analysis for this study were carefully coordinated with these following two studies:

- I-64 Hampton Roads Bridge-Tunnel (HRBT) EIS This ongoing VDOT study extends from I-664 in Hampton to I-564 in Norfolk. The purpose of this study is to identify the transportation needs of the corridor and to evaluate the impacts of proposed improvements to meet those needs. An EIS is being prepared for that project in accordance with the National Environmental Policy Act (NEPA).
- I-95/I-64 Overlap Study This ongoing VDOT study is a preliminary planning study of the I-95/I-64 corridor through Richmond. This study encompasses the entire I-95/I-64 overlap area (from the I-95/I-64/I-195 "Bryant Park" interchange to the I-95/I-64 eastern junction which forms the western edge of this project's study area), and also includes the interchanges bracketing that corridor (the I-64/Staples Mill Road interchange, the I-95/Hermitage Road interchange, and the I-95/Downtown Expressway interchange).

II. Data Collection

This section describes the traffic volume and travel speed data that was collected as part of the I-64 Study, along with an inventory of Park and Ride and rest area facilities along I-64. Raw data pertaining to this section can be found in **Appendix A** of this memorandum. The base year data provided necessary input parameters for traffic operations analyses of existing conditions, which is described in **Section III** – **Analysis of Existing Conditions**.

A. Traffic Data Collection

The traffic data collection effort for this study focused on weekday morning and afternoon peak hour conditions throughout the corridor, as well as summer Saturday and Sunday peak hour conditions at select locations. As described in the following sections, a variety of available data sources were used to establish Average Daily Traffic (ADT) volumes, non-summer weekday peak hour volumes, and summer weekend peak hour volumes. Traffic volumes were collected for freeway segments, on and off ramps, and intersections with nearby cross-streets. The ADT volumes and non-summer weekday AM and PM peak hour volumes were assembled for the entire I-64 corridor between Exit 190 in Richmond and Exit 264 in Hampton. Saturday and Sunday summer peak hour volumes were assembled for certain summer traffic-intensive interchanges near major tourism sites along the corridor (Exit 220 and Exits 234-243).

1. Summary of Traffic Volume Data Sources

The various sources of traffic volume data assembled for the I-64 Study are listed below. For the most part, this data was provided in "raw" format, and some degree of volume process and adjustment was



required to obtain consistent volumes for the traffic analysis. The methodology used to establish the balanced volumes for base year (2011) existing conditions is described in **Section III – Analysis of Existing Conditions.**

a. VDOT Traffic Volume Data Available From Previous Data Collection Efforts

The VDOT maintains an extensive traffic volume data collection program that tracks daily traffic volumes and vehicle types on interstate, arterial and primary routes. The program estimates annual average daily traffic (AADT) and annual average weekday traffic (AAWDT) as well as hourly volumes, peak hour volumes and directional factors that are useful in establishing design criteria. VDOT data included the following:

- AADT count data from 2010 for the following mainline segments:
 - o Between Exit 190 and 192.
 - o Between Exit 195 and 197.
 - o Between Exit 205 and 211.
 - o Between Exit 227 and 231.
 - o Between Exit 234 and 238.
 - o Between Exit 256 and 258.
 - o Between Exit 263 and 264.
- Hourly count data from April 12, 2011 (Tuesday) for the following mainline segments:
 - o Between Exit 190 and 192.
 - o Between Exit 195 and 197.
 - o Between Exit 205 and 211.
 - o Between Exit 227 and 231.
 - o Between Exit 234 and 238.
 - o Between Exit 256 and 258.
- Hourly count data from September 2008 (Tuesdays, Wednesdays, and Thursdays) for ramps from Exit 205 through Exit 231, inclusive.
- Hourly count data from August 10, 2011 (Wednesday) for I-95 through traffic at the I-64 / I-95 interchange (Exit 190), along with the ramp from 7th Street to southbound I-95.
- 2010 AADT data for I-295 through traffic at the I-64 / I-295 interchange (Exit 200).
- Weekday peak period intersection turning movement counts at seven intersections, contained in recent Traffic Impact Analysis reports for developments near Exits 195, 205, 214, 231, and 255.
- Summer Saturday and Sunday hourly count data from June 25 and July 16, 2011 and June 26 and July 17, 2011 for the I-64 mainline segment between Exits 220 and 227.
- Summer Saturday and Sunday hourly count data from June 26 and July 24, 2010 and June 27 and July 25, 2010 for the I-64 mainline segments between Exits 234 and 238 and between Exits 227 and 231.
- For certain cross-street locations at Exits 192, 193, 197, 205, 211, 214, 220, 227, and 234, daily volumes are based on 2010 AADT volumes.
- For certain cross-street locations at Exits 231, 234, 238, 242, 243, 247, 250, 255, 256, 258, 261, 262, and 263, daily volumes are based on 2010 AAWDT volumes.
- Daily volume from February 25, 2010 (Thursday) for SR 143 south of I-64 (cross street ADT volume at Exit 247).

b. Traffic Volumes Provided by Other Agencies/Studies

Traffic data provided by other agencies or coordinated with other ongoing studies in the I-64 Corridor were as follows:

• Provided by Henrico County: daily volume from October 7, 2010 (Thursday) for Laburnum Avenue south of I-64 (cross street ADT volume at Exit 195).



- Coordinated with the I-95 / I-64 Overlap Study to ensure that volumes at the I-64 / I-95 interchange (Exit 190) were consistent between the two studies.
- Coordinated with the HRBT EIS Study to ensure that volumes at the I-64 / I-664 interchange (Exit 264) were consistent between the two studies.

c. Traffic Volumes Collected by I-64 Study Team

Traffic data collected by the I-64 Study team included the following:

- Hourly count data from April and May 2011 (Tuesdays and Wednesdays) for all study area ramps other than Exit 205 through Exit 231 and the rest area at Milepost 213.
- Hourly count data from September 13-15, 2011 (Tuesday-Thursday) for ramps of the rest area at Milepost 213.
- Weekday peak period intersection turning movement counts at 24 intersections, counted in April and May 2011 (Tuesdays, Wednesdays, and Thursdays).
- Summer Saturday and Sunday hourly count data from June 25 and July 16, 2011 and June 26 and July 17, 2011 for all ramps at Exit 220 and between Exits 234 and 243.
- Summer Saturday and Sunday peak period intersection turning movement counts at 9 intersections, counted on June 25 and July 16, 2011 and June 26 and July 17, 2011.
- For certain cross-street locations at Exits 192, 193, 195, and 197, daily volumes are based on counts conducted on Tuesdays and Wednesdays in April and May 2011.

2. Traffic Speed and Travel Time

A study of travel speeds was undertaken as part of the I-64 Study, in which individual vehicle travel times were measured via Bluetooth sensors over seven segments of I-64 between Milepost 239 and Milepost 264 in the eastern end of the corridor. The travel time data was collected in two separate investigations. The first captured typical weekday travel patterns and was conducted on May 17 and 18, 2011 (Tuesday and Wednesday). The second captured weekend travel patterns during the summer tourist season and was completed on August 12-14, 2011 (Friday – Sunday). The weekend study included six segments from Milepost 244 to Milepost 264.

Time measurements were recorded as vehicles with Bluetooth-enabled devices (such as cell phones), each with a unique Media Access Control (MAC) address, traveled from one sensor to the next. These travel time measurements were subsequently analyzed using the BluSTATS software, a proprietary data processing tool produced by Traffax, Inc. Using the driving distance from one sensor to another (roadway centerline as opposed to straight-line distance), the travel times would later be converted to travel speeds. Traffic speed and travel time results are provided in **Section III – Analysis of Existing Conditions**.

There were certain limitations on sensor placement:

- Sensors could only be installed where there was room for technicians to safely pull completely off the road. At two locations at the eastern end of the corridor, the median was too narrow to safely pull off the roadway. Therefore, the devices were placed in the shoulder. These sensors were still able to detect Bluetooth-enabled devices traveling in both directions of I-64.
- It was preferred to place the sensors where they could detect both directions of traffic simultaneously.
- Sensors required line-of-sight to the vehicles being surveyed. At the western end of the corridor, sensors could only be placed in areas where there were no trees in the median (primarily at emergency crossovers).

The Bluetooth sensor devices were typically mounted to a luminaire (roadway lighting pole) or sign support, where feasible. This allowed the devices to gain better line-of-sight to all vehicles, even at



locations where the median barrier or a tall truck could obscure a passenger vehicle behind it. Specific sensor locations are provided in **Table 1**.

Table 1: Travel Speed Study Sensor Locations

| Milepost | Location | Side | Mounting | Notes |
|----------|---------------------------------|----------|------------------------------|---|
| MP 239 | Approx. 1/2 mile | WB | Variable Message | Sensor was installed for May 2011 |
| WIF 239 | West of Exit 238 | Shoulder | Sign Truss Support | Weekday Study only |
| MP 243 | Immediately East of Exit 243 | Median | Median Crossover | Sensor was installed in a different median crossover for the August 2011 Weekend Study, within the middle of the Exit 243 interchange |
| MP 248 | Immediately East of Exit 247 | Median | Median Crossover | |
| MP 251 | Immediately East of | EB | Resting on | |
| WIF 231 | Exit 250 | Shoulder | Guardrail | |
| MP 254 | West of Exit 255 | Median | Resting on Median Barrier | Sensor was located about midway through the point where I-64 WB narrows from 4 to 2 travel lanes (at a location where the WB left-hand shoulder is in excess of 15 feet) |
| MP 257 | Between Exits 256 | WB | Attached to | |
| NIF 237 | & 258 | Shoulder | Cantilever | |
| MP 259 | Between Exits 258 | WB | Attached to | |
| WIF 239 | & 261 | Shoulder | Cantilever | |
| MP 264 | I-64 / I-664 Split | Median | Resting on Median Barrier | Due to safety limitations, the sensor was installed just east of the ramps to/from I-664. This sensor likely did not capture data for vehicles going from I-64 to/from I-664 and the MMBT, only traffic continuing to/from I-64 and the HRBT. |

Data was collected throughout the entire 24-hour day, and the studies were successful in matching several hundred matches at a time between any two adjacent sensor locations. During off-peak hours, almost all five-minute intervals had at least one successful match. During peak hours, the sensors typically recorded between 25 and 30 matches in any five-minute period, with hundreds of matches made during each hour. This capture rate was an order of magnitude higher that what is typically expected by other methods of travel time data collection (e.g., manually collecting data with a test car and using GPS devices or stopwatches to record travel time), as those other methods are typically limited to 5-10 runs during any one day's peak period. Additionally, the software was set up to automatically exclude any "outlier" data – individual data points that lie well outside the median travel time in that five-minute period, which could occur for reasons such as:

- Example 1: A driver passing by Sensor A, stopping on the side of the road for 15 minutes to change a tire, and then continuing on to pass Sensor B.
- Example 2: A driver passing by Sensor A, getting off at an intermediate interchange to buy gas, and then getting back on the highway to pass Sensor B.
- Example 3: A driver exceeding the speed limit to an extreme degree.

The Bluetooth device data collection technique avoids privacy issues, since the only data collected from drivers was the Bluetooth MAC address. The sensors cannot collect or record personal data, such as the names or phone numbers associated with individual Bluetooth-enabled devices.



B. Park and Ride Inventory

The latest inventory of Park and Ride facilities in Virginia was conducted in 2012. All Park and Ride facilities that serve the I-64 Study corridor were extracted from the VDOT Transportation and Mobility Planning Division inventory and summarized in **Table 2**. In all there are four Park and Ride facilities within the I-64 corridor, collectively totaling approximately 193 parking spaces. VDOT data indicates that these lots are collectively about 53% utilized on a typical day.

All of these Park and Ride lots are operated by VDOT. One of the lots (in Newport News) is serviced by a transit route (Hampton Roads Transit). That is also the only striped lot of the four. VDOT's planning data does not indicate a need for expansion at any of these lots.

| Table 2: Park and Ride Inventory | | | | | | | | | | | | |
|----------------------------------|------|----------------------------------|---------------------------|-----|---------|--|--|--|--|--|--|--|
| Locality | Exit | Location | Location Number of Spaces | | Striped | | | | | | | |
| New Kent County | 205 | US 60 median, West of VA 249 | 37 | 76% | No | | | | | | | |
| James City County | 231 | Rochambeau Drive @ Croaker Road | 64 | 56% | No | | | | | | | |
| York County | 234 | E. Rochambeau Drive ¹ | 60 | 27% | No | | | | | | | |
| City of Newport News | 247 | VA 238 & VA 143 Intersection | 32 | 72% | Yes | | | | | | | |
| | | Totals | 193 | 53% | | | | | | | | |

Table 2: Park and Ride Inventory

C. Rest Area Inventory

There are two rest areas within the corridor. The "New Kent East Coast Gateway Safety Rest Area and Welcome Center" is located at I-64 East Milepost 213 in New Kent County. The building opened in 2003 and includes 170 car spaces and 76 truck/bus/RV spaces. The "New Kent Safety Rest Area West" is located at I-64 West Milepost 213 in New Kent County. The building opened in 2007 and includes 86 car spaces, 29 truck/bus/RV spaces, and 6 hybrid vehicle spaces.

III. Analysis of Existing Conditions

This section documents the evaluation of existing conditions along the I-64 study corridor by examining current traffic volumes, vehicular operations, traffic safety, and geometric conditions. The base year traffic data collection was used to establish existing 2011 conditions according to the methodologies and supporting decisions described in the following sections. Capacity and LOS traffic analyses were completed for both AM and PM peak hour conditions for the entire corridor between Exit 190 in Richmond and Exit 264 in Hampton. Additional analyses were conducted for Saturday and Sunday summer peak hour conditions for certain summer traffic-intensive interchanges serving major tourism destinations near Williamsburg and Busch Gardens.

A. Traffic Analysis Volumes

1. Selection of Peak Periods

The traffic studies for this study focused on weekday morning and afternoon peak hour periods throughout the year (i.e. typical rush hour conditions) as well as conditions during summer weekends. Starting with the existing conditions traffic data, traffic volumes representing the most critical, "peak period" traffic conditions were investigated, and the peak hours within this data was selected for use in

¹ Access to this Park & Ride requires a circuitous path through the Route 199/Mooretown Road interchange.



the traffic analysis. The following traditional peak hours—which represent the non-summer, weekday commuting peak hours—were identified for analysis throughout the corridor:

- Weekday Non-Summer AM Peak Period 7:00 AM to 8:00 AM
- Weekday Non-Summer PM Peak Period 4:00 PM to 5:00 PM or 5:00 PM to 6:00 PM

In many parts of the corridor, summer Saturday or Sunday conditions can have higher volumes and worse traffic operations than weekday morning and afternoon peak periods, due to the high levels of tourist traffic destined for tourist attractions within the corridor (e.g., Busch Gardens, Colonial Williamsburg, Water Country USA) and/or tourist attractions outside the corridor (e.g., the Northern Neck region of Virginia, Virginia Beach, the Outer Banks region of North Carolina). Therefore, seasonal traffic volumes were also investigated, and the following peak hours—which represent the summer, daytime and nighttime peak hours—were identified for analysis within a certain area of influence:

- Williamsburg Area
 - o Saturday Daytime Summer Peak Period 9:00 AM to 10:00 AM
 - o Sunday Daytime Summer Peak Period 2:00 PM to 3:00 PM
- Busch Gardens Theme Park
 - o Saturday Nighttime Summer Peak Period 10:00 PM to 11:00 PM
 - o Sunday Nighttime Summer Peak Period 9:00 PM to 10:00 PM

2. Traffic Analysis Volume Development

The traffic volume data described in the previous section were assembled to create a "network" of consistent traffic volume data for use in the analysis. Considering the various data sources, data time periods, and collection methods, volume variations between interchanges and intersections were expected, and a volume balancing process was completed to bring the volumes into agreement. ADT volumes were balanced for all mainline segments and ramps. For peak hour volumes, the balanced volumes were extended to nearby intersections. Achieving balanced volumes for existing conditions entailed the following:

- The balanced peak hour volumes were defined based on the identified system-wide peak hours, as opposed to different local peak hours for individual facilities (each mainline segment, ramp, and intersection).
- The raw volumes for the system-wide peak hours did not typically balance from one individual facility to the next, and these volumes had to be adjusted higher or lower, to establish balanced volumes.

The final network of balanced traffic volumes used in the analysis of existing conditions included 50 directional freeway segments, approximately 170 ramps, and 38 intersections.

3. Non-Summer Weekday ADT Volumes

a. Non-Summer Weekday ADT Volumes for Mainline Segments and Ramps

Base year 2011 ADT data is summarized in **Figure 2** to identify volume variations within the I-64 study corridor. Segment volumes range from less than 40,000 vehicles per day (vpd) between Exit 197/Airport Drive and Exit 200/I-295 in eastern Henrico County, to more than 150,000 at the eastern end of the corridor within the City of Hampton. In the vicinity of Williamsburg near the middle of the corridor, volumes hover near 80,000 vpd. The balanced Non-Summer Weekday ADT volumes for all freeway segments and ramps are provided in **Appendix B**.



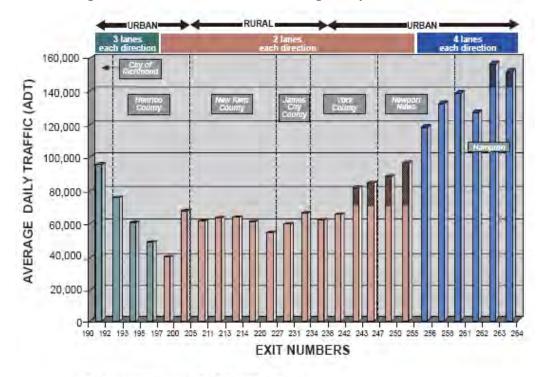


Figure 2: 2011 Base Conditions Average Daily Traffic Volumes²

- Exceeds stable traffic flow ADT ranges

b. Non-Summer Weekday Heavy Truck Volumes

Vehicle classification data from VDOT's I-64 mainline count stations were reviewed to investigate the heavy truck component of the traffic stream (**Table 3**).

| Table 5: Existing Maintine Heavy Truck Fercentages | | | | | | | | | | | |
|--|---------|----------|----------------|---------|--|--|--|--|--|--|--|
| Commont | Eastbou | ınd I-64 | Westbound I-64 | | | | | | | | |
| Segment | AM peak | PM peak | AM peak | PM peak | | | | | | | |
| Exits 190-200 | 5% | 2% | 2% | 5% | | | | | | | |
| Exits 200-227 | 13% | 4% | 5% | 11% | | | | | | | |
| Exits 227-250 | 9% | 4% | 5% | 8% | | | | | | | |
| Exits 250-264 | 3% | 3% | 4% | 3% | | | | | | | |

Table 3: Existing Mainline Heavy Truck Percentages

c. Non-Summer Weekday ADT Volumes for Cross Streets

ADT volumes for cross streets at the interchanges were also identified to aid in the travel demand modeling and traffic forecasting efforts. Cross-street volumes were checked relative to ADT volumes at the nearest interchange to ensure reasonability.

4. Non-Summer Weekday Peak Hour Volumes

The balanced Non-Summer Weekday peak hour traffic volume data for all freeway segments, ramps, and cross-street intersections is provided in **Appendix B**.

² ADT's shown as exceeding stable flow ADT ranges are based on general planning-level guides comparing ADT's with number of lanes on the freeway. The quantitative capacity analysis used for this study and detailed in this memorandum are based on peak hour volumes and other detailed inputs.



5. Summer Weekend Peak Hour Volumes

a. Summer Weekend Daytime Peak Hour Volumes

I-64 sees a substantial surge in both traffic volumes and congestion during the summer months, particularly during the weekends, due both to traffic headed to/from tourist destinations within the corridor (Busch Gardens, Colonial Williamsburg, etc.) and beach destinations east and south of the corridor (Virginia Beach, Outer Banks). Therefore, this study effort included additional traffic analysis of Saturday and Sunday summer peak hour volumes near major tourism sites along the corridor. Specifically, the summer weekend study area included Exit 220 and Exits 234-243.

Balanced Summer Weekend Daytime Peak Hour volumes for the I-64 mainline freeway segments, ramps, and cross-street intersections at Exit 220 and Exits 234-243 are given in **Appendix B**. In general, summer weekend peak hour volumes often exceed the non-summer weekday AM and PM peak hour volumes.

b. Summer Weekend Nighttime Peak Hour Volumes near Busch Gardens

A review of summer weekend volumes near Busch Gardens (Exit 243) revealed that the highest volumes on many ramps occurred at night as the theme park was closing. As such, certain existing local traffic operations were analyzed for the summer weekend nighttime peak hours of 10-11 PM on Saturday and 9-10 PM on Sunday.

Balanced Summer Weekend Nighttime Peak Hour volumes for the I-64 mainline freeway segments, ramps, and cross-street intersections at Exit 243 are given in **Appendix B**.

6. Other Factors Influencing Traffic Volumes

In addition to the daily commuting and tourist needs, there are a number of other key factors that are contributing to the capacity issues within the I-64 corridor from Richmond to Hampton, including:

- Military personnel, civilian workforce and freight movements to, from and between military facilities.
- Freight traffic in and out of the Port of Virginia.
- Economic development needs associated with new and expanding facilities along the I-64 corridor and in the region.

These factors are discussed in greater detail in the *Purpose and Need Technical Memorandum*.

B. Traffic Speeds and Travel Time

Traffic speeds and travel times in the I-64 study corridor were sampled using Bluetooth detection equipment, which read the MAC address from Bluetooth-enabled devices at two points along the corridor. (The travel time sampling technique was previously described in **Section 2 – Data Collection**.) Using the roadway driving distance from one sensor to another, the travel times are converted to travel speeds, and profiles of the travel time and travel speed were generated. As a point of reference, **Table 4** gives the posted speed limits on I-64.

Figures 3 and **4** show the I-64 eastbound and westbound travel speeds, respectively. Detailed travel time study results are included in **Appendix D**.

Travel speeds generally vary substantially throughout the eastern end of the corridor. During non-summer weekdays, I-64 Eastbound generally saw the biggest drops in travel speeds in the milepost 248-251 section, approaching the point where I-64 East opens up from two to four lanes. I-64 Westbound also



Table 4: Posted Speed Limits on I-64, Exits 190 to Exit 264

| Beginning Point | Ending Point | Posted Speed Limit | | | | | | |
|---|-----------------------|-----------------------|--|--|--|--|--|--|
| Exit 190 | Exit 193 | 55 mph | | | | | | |
| Exit 193 | Henrico/New Kent Line | 65 mph | | | | | | |
| Henrico/New Kent Line | Exit 234 | 70 mph | | | | | | |
| Exit 234 | Just west of Exit 255 | 65 mph | | | | | | |
| Just west of Exit 255 | Exit 264 | 60 mph * | | | | | | |
| * Posted speed limit was increased from 55 mph to 60 mph between Exits 261-264 in March 2012. | | | | | | | | |

has almost uniformly slow travel speeds the entire length from I-664 to past the Exit 247/Lee Hall interchange during the afternoon (2:00-4:00 pm) period.

Summer weekend peak period traffic speeds drop substantially greater than non-summer weekdays. During summer Saturdays, the segment between mileposts 248-251 sees average travel speeds drop to as low as 30-35 mph in the eastbound and westbound direction. Summer Saturdays are even worse in the westbound direction, with average speeds approaching 20 mph in the section between mileposts 257-254 (in other words, approaching the point where I-64 narrows from four to two westbound lanes). There is also a dramatic drop in travel speeds during Summer Friday conditions on I-64 east between mileposts 259-264, most likely due to backups from the HRBT extending all the way back to and beyond the I-64/I-664 interchange.

It is important to note that these travel speed measurements represent "typical" congestion. They do not account for the additional delays that result from non-recurring traffic congestion due to events like crashes or work zones. However, given the frequency of crashes within the corridor, non-recurring traffic congestion occurs at multiple times throughout the year.

C. 2011 Existing Capacity/LOS Analysis

The analyses of capacity and LOS for 2011 Existing traffic conditions were conducted according to the methodologies of the 2010 Highway Capacity Manual (HCM), published by the federal Transportation Research Board, and implemented using Highway Capacity Software (HCS) 2010 software. The HCM establishes a consistent methodology for use in evaluating the quality of service provided by highway and street facilities.

Vehicular traffic "capacity" is formally defined as "the maximum number of vehicles that can pass a given point during a specified period under prevailing roadway, traffic and control conditions. Capacity establishes a threshold, beyond which traffic flow typically begins to break down. LOS is a letter grade (A-F) which represents a qualitative measure of operational conditions within a traffic stream, generally in terms of such measures as speed and travel time, freedom to maneuver and traffic interruptions. **Figure 5** provides generalized descriptions of the LOS grades. According to FHWA and VDOT, acceptable LOS grades for the I-64 corridor are LOS C or better for interstate facilities. The *HCM* establishes LOS grades according to measures of effectiveness (e.g., vehicular density, delay), which are defined according to the facility being analyzed. LOS E is used to designate operations at capacity. ³

³ Transportation Research Board, National Research Council, *Highway Capacity Manual, HCM 2010*, Transportation Research Board, Washington, DC, 2010.



80 70 Average Speed (mph) 60 50 40 30 20 Weekday AM Peak (6:30-9am) Summer Friday Afternoon (3-5pm) Weekday Afternoon Peak (2-4pm) Summer Saturday Afternoon (12-6pm) 10 Weekday PM Peak (4-6pm) Summer Sunday Morning (9am-12pm) Posted Speed Limit From 239 244 248 251 254 257 259 244 248 257 259 264 **Mileposts**

Figure 3: I-64 Eastbound Travel Speeds, May and August 2011

Source: McCormick Taylor, Inc., I-64 Travel Time Study, 2011

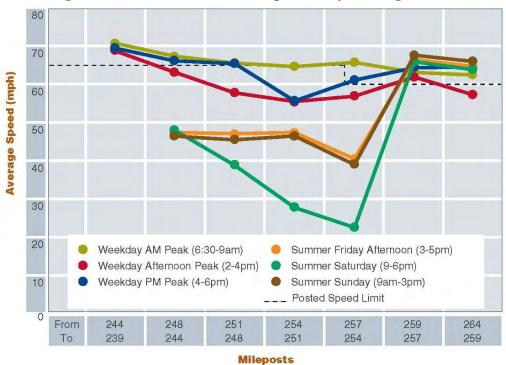


Figure 4: I-64 Westbound Travel Speeds, May and August 2011

Source: McCormick Taylor, Inc., I-64 Travel Time Study, 2011

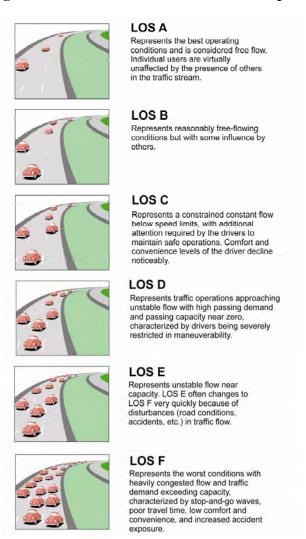


Operational analysis of capacity and LOS for the I-64 study corridor were conducted for the following types of facilities:

- Basic Freeway Segments.
- Ramp Merges and Diverges.
- Weaving Segments.
- Signalized Intersections.
- Unsignalized Intersections.

Analyses for each of these types of facilities depend on numerous parameters relating to the configuration of the facility, the geometric and traffic control conditions, and the characteristics of the traffic stream. Inputs for many of the parameters are based on collected data, while others are assumed for the purpose of analysis. Documentation of the Existing Conditions Capacity Analysis Methodology, including traffic analysis parameter assumptions, was detailed in a technical memo finalized on December 21, 2011 (**Appendix C**).

Figure 5: Generalized Level of Service Descriptions





1. Basic Freeway Segments

In general terms, a basic freeway segment is the part of a limited access highway that extends from one interchange to the next. Each direction of a freeway operates independently of the other; therefore, segments are defined separately for each direction—i.e., eastbound lanes are one segment; westbound lanes are a separate segment. For the analysis of I-64 freeway segments, the corridor was divided into 27 eastbound segments and 27 westbound segments. **Table 5** summarizes the freeway segment analysis of Weekday Non-Summer AM and PM peak hours for the entire corridor. **Table 6** summarizes the freeway segment analysis of Summer Daytime Saturday and Sunday peak hours in the vicinity of Williamsburg. **Table 7** summarizes the freeway segment analysis of Summer Nighttime Saturday and Sunday Peak hours in the vicinity of Busch Gardens.

The left side of each table describes exits, number of lanes, and traffic volumes that characterize each segment. The right side gives the LOS determined by applying the HCM methodology. **Table 8** defines the LOS for basic freeway segments according to vehicular density, which is given in terms of passenger cars, per mile, per lane (pc/mi/ln).

| Density (pc/mi/ln) | Level of Service |
|------------------------------|------------------|
| ≤11 | A |
| > 11-18 | В |
| > 18-26 | С |
| > 26-35 | D |
| > 35-45 | E |
| Demand exceeds capacity > 45 | F |

Table 8: Level of Service Definitions for Basic Freeway Segments

Source: Transportation Research Board, National Research Council, *Highway Capacity Manual, HCM 2010*, Transportation Research Board, Washington, DC, 2010.

It is important to note that traditional freeway capacity may not always be an accurate picture of the actual congestion that drivers experience, particularly when there are downstream capacity constraints. For example, I-64 West approaching I-95 in the City of Richmond (going over the Shockoe Valley Bridge) routinely experience peak hour congestion. However, these delays are primarily not due to capacity constraints on I-64 itself, but rather capacity constraints further downstream on I-95. The I-64/I-95 interchange is being also being studied as a part of the VDOT I-95/I-64 Overlap Study.

a. Freeway Segment Performance

During the non-summer Weekday AM peak hour, eight of the 50 segments operated at deficient LOS D or E. All eight deficient segments are clustered between Williamsburg (Exit 242) and Hampton Roads Center Pkwy (Exit 261), and six of the eight segments were in the eastbound direction. During the non-summer Weekday PM peak hour, 12 of the 50 segments operated at deficient LOS D or E. Eight of the 12 deficient segments were clustered between Williamsburg (Exit 242) and Hampton Roads Center Pkwy (Exit 261), with six of these eight segments in the westbound direction. With the exception of one westbound segment of LOS D during the PM peak hour, the segments from Richmond to Williamsburg operate at acceptable LOS.

Considering the directional deficiencies in opposite directions during the AM versus the PM, operational issues are likely related to commuter traffic in the eastern portion of the corridor, with traffic flows



approaching capacity on the 4-lane section between Exits 242 and 255. The most congested segments were Exits 250-255 Eastbound in the AM (LOS E) and Exits 261-258 Westbound in the PM (LOS E).

During the Summer Daytime peaks, all of the 16 segments analyzed between Exits 214 and 247 operated at deficient LOS during the Saturday peak (10 segments at LOS E), and 14 of the 16 segments operated at deficient LOS during the Sunday peak (2 segments at LOS E). Essentially, Summer Saturday peak hour conditions are worse than Summer Sunday peak hour conditions. During the Summer Nighttime peaks, only one of the four segments analyzed between Exits 242 and 247 operated at deficient LOS D (during the Sunday night peak).

b. Freeway Segments with HOV Lanes

For segments in the eastern end of the corridor, special consideration was given for evaluating freeway segments with HOV lanes. From west of Exit 255 (Jefferson Ave) to the eastern end of the corridor at Exit 264 (I-664), the left-most lane in both directions is a paint-separated HOV lane which is reserved for vehicles with two or more occupants (HOV 2+) during weekday AM and PM peak hours. A typical capacity analysis of freeway segments assumes that traffic uses all available lanes equally; however, this is not the case with segments that include HOV lanes. Generally, the general purpose lanes have substantially greater densities and lower travel speeds than the adjacent HOV lanes.

Table 9 indicates the share of the total traffic volume that typically uses the HOV lanes on I-64, based on counts conducted by VDOT in July 2010 near the Exit 258/J Clyde Morris Blvd interchange. To account for volume in the HOV lanes, these percentages were applied to estimate the amount of traffic in the HOV lanes, and the HOV volume was then reduced from the traffic using the "general-purpose" (non-HOV) lanes. The analysis of the freeway segment considered the only the volume and capacity of the general-purpose lanes. For example, if there are 5,000 vehicles per hour (vph) total on a segment of I-64 Eastbound, and 5% (250 vph) of those vehicles were in the HOV lanes, then that segment would be analyzed assuming three travel lanes and 4,750 vph in the three general purpose travel lanes.

Table 9: Percentage of Freeway Traffic using HOV Lanes

| Travel Lanes | AM Peak Hour | PM Peak Hour | | | | | | | |
|---|--------------|--------------|--|--|--|--|--|--|--|
| I-64 Eastbound | 7% | 5% | | | | | | | |
| I-64 Westbound 4% 8% | | | | | | | | | |
| Source: VDOT traffic count data, July 21, 2010 near Exit 258/J Clyde Morris Boulevard | | | | | | | | | |

The operation of the HOV lanes was investigated according to the hourly traffic volumes in the HOV lane. The ideal capacity of a single lane on a freeway is approximately 2400 passenger cars per hour, as per the 2010 HCM (note that HOV lanes, by definition, have negligible truck/bus volumes). The existing peak hour volumes in the HOV lane are approximately 200-600 vph, well below that threshold, meaning that the HOV lanes are only operating at 10-25% capacity. This is borne out by current conditions, when the HOV lanes are generally free-flowing even when there are heavy densities and/or reduced speeds in the adjacent general-purpose lanes.



Table 5: 2011 Existing Freeway Segment Level of Service – Non-Summer Weekday Peak

| | | | | | 2011 Eastbound | | | | | 2011 Westbound | | | | | | |
|---------|-----------|-----------|-------|--------------------|----------------------|-----|----------|----------------------|-----|---------------------|----------------------|-----|---------------------|----------------------|-----|--|
| Segment | From Exit | To Exit | Lanes | | AM Peak | | | PM Peak | | | AM Peak | | | PM Peak | | |
| | | | | Volume 1 | Density ² | LOS | Volume 1 | Density ² | LOS | Volume ¹ | Density ² | LOS | Volume ¹ | Density ² | LOS | |
| 01 | 190 | 192 | 3 | 3,101 | 16.0 | В | 5,022 | 26.9 | D | 4,874 | 25.9 | C | 3,629 | 18.7 | С | |
| 02 | 192 | 193 | 3 | 2,264 | 11.9 | В | 3,891 | 19.8 | С | 4,012 | 20.5 | С | 2,845 | 14.7 | В | |
| 03 | 193 | 195 | 3 | 1,684 | 9.2 | A | 3,359 | 17.0 | В | 3,137 | 15.9 | В | 2,174 | 11.5 | В | |
| 04 | 195 | 197 | 3 | 1,165 | 6.7 | A | 2,842 | 14.5 | В | 2,624 | 13.4 | В | 1,656 | 9.1 | A | |
| 05 | 197 | 200 | 2 | 831 | 7.1 | A | 2,132 | 16.2 | В | 1,879 | 14.4 | В | 1,188 | 9.7 | A | |
| 06 | 200 | 205 | 2 | 1,721 | 13.9 | В | 2,981 | 25.0 | С | 2,801 | 23.1 | С | 2,182 | 17.7 | В | |
| 07 | 205 | 211 | 2 | 1,609 | 13.0 | В | 2,319 | 18.2 | С | 1,882 | 14.6 | В | 1,968 | 15.8 | В | |
| 08 | 211 | rest area | 2 | 1,736 | 14.0 | В | 2,338 | 18.4 | С | 1,894 | 14.7 | В | 2,023 | 16.3 | В | |
| 9 | rest area | 214 | 2 | 1,736 | 14.0 | В | 2,338 | 18.4 | С | 1,894 | 14.7 | В | 2,023 | 16.3 | В | |
| 10 | 214 | 220 | 2 | 1,671 | 13.5 | В | 2,260 | 17.7 | В | 1,740 | 13.5 | В | 1,988 | 16.0 | В | |
| 11 | 220 | 227 | 2 | 1,496 | 12.1 | В | 1,817 | 14.0 | В | 1,290 | 10.1 | A | 1,780 | 14.2 | В | |
| 12 | 227 | 231 | 2 | 1,889 | 15.0 | В | 1,938 | 15.0 | В | 1,391 | 10.9 | A | 2,101 | 16.7 | В | |
| 13 | 231 | 234 | 2 | 2,390 | 19.4 | C | 2,160 | 16.8 | В | 1,608 | 12.5 | В | 2,521 | 20.6 | C | |
| 14 | 234 | 238 | 2 | 2,315 | 18.7 | С | 2,002 | 15.5 | В | 1,440 | 11.2 | В | 2,481 | 20.2 | С | |
| 15 | 238 | 242 | 2 | 2,329 | 18.3 | С | 2,166 | 16.6 | В | 1,658 | 13.0 | В | 2,526 | 19.9 | C | |
| 16 | 242 | 243 | 2 | 3,258 | 27.2 | D | 2,789 | 21.7 | С | 2,456 | 19.0 | С | 3,246 | 26.9 | D | |
| 17 | 243 | 247 | 2 | 3,286 | 27.5 | D | 2,797 | 21.8 | C | 2,743 | 21.4 | С | 3,559 | 30.7 | D | |
| 18 | 247 | 250 | 2 | 3,818 | 34.6 | D | 3,053 | 24.2 | C | 2,841 | 22.3 | С | 3,638 | 31.7 | D | |
| 19 | 250 | 255 | 2 | 4,069 | 36.8 | E | 3,891 | 34.1 | D | 3,496 | 29.0 | D | 3,893 | 34.1 | D | |
| 20 | 255 | 256 | 4* | 4,704 ³ | 24.9 | С | 4,570 4 | 24.0 | С | 4,105 5 | 21.2 | С | 4,640 ⁶ | 24.4 | С | |
| 21 | 256 | 258 | 4* | 5,841 ³ | 34.1 | D | 5,049 4 | 27.3 | D | 4,308 5 | 22.5 | C | 5,604 ⁶ | 31.9 | D | |
| 22 | 258 | 261 | 4* | 5,003 ³ | 27.0 | D | 4,450 4 | 23.2 | С | 5,350 ⁵ | 29.9 | D | 6,692 6 | 44.3 | E | |
| 23E | 261 | 262 | 5* | 4,607 ³ | 17.6 | В | 4,106 4 | 15.7 | В | | | | | | | |
| 23W | 261 | 262 | 4* | | | | | | | 4,661 5 | 24.7 | С | 5,825 6 | 33.9 | D | |
| 24 | 262 | 263 | 5* | 5,644 ³ | 21.9 | С | 5,147 4 | 19.7 | С | 5,776 ⁵ | 22.6 | С | 7,055 6 | 29.2 | D | |
| 25E | 263 | 264 | 5 | 5,695 | 17.4 | В | 4,653 | 14.3 | В | | | | | | | |
| 25W | 263 | 264 | 5* | | | | | | | 5,254 ⁵ | 20.3 | С | 6,818 6 | 27.8 | D | |

Notes

- Eastbound I-64, AM peak hour: 7%
- Eastbound I-64, PM peak hour: 5%
- Westbound I-64, AM peak hour: 4%
- Westbound I-64, PM peak hour: 8%

^{*} The number of lanes includes one HOV lane. Analysis on the non-HOV portion of these segments was conducted by reducing the number of lanes by one. Traffic volumes in the remaining through lanes were reduced as follows, according to VDOT traffic data:

¹ Volume is given as "vehicles per hour" (vph). AM Peak = Weekday morning peak hour (7:00 AM to 8:00 AM). PM Peak = Weekday afternoon peak hour (4:00 PM to 5:00 PM to 6:00 PM, whichever hourly volume was higher)

² Density is given as "vehicles per mile per lane" (pc/mi/ln).

³ Volume shown is a 7% reduction of the total directional segment volume, to account for removal of HOV lane traffic for purpose of analysis.

⁴ Volume shown is a 5% reduction of the total directional segment volume, to account for removal of HOV lane traffic for purpose of analysis.

⁵ Volume shown is a 4% reduction of the total directional segment volume, to account for removal of HOV lane traffic for purpose of analysis.

⁶ Volume shown is a 8% reduction of the total directional segment volume, to account for removal of HOV lane traffic for purpose of analysis.



Table 6: 2011 Existing Freeway Segment Level of Service – Summer Peak, Daytime near Williamsburg

| | | | | 2011 Eastbound | | | | | | | 2011 Westbound | | | | | |
|---------|-----------|---------|-------|----------------|----------------------|-----|------------------|----------------------|-----|------------------|----------------------|-----|---------------------|----------------------|---------|--|
| Segment | From Exit | To Exit | Lanes | S | SAT Daytime Peak | | SUN Daytime Peak | | | SAT Daytime Peak | | | SUN Daytime Peak | | | |
| | | | | Volume 1 | Density ² | LOS | Volume 1 | Density ² | LOS | Volume 1 | Density ² | LOS | Volume ¹ | Density ² | LOS | |
| 10 | 214 | 220 | 2 | 3,515 | 43.8 | E | 2,616 | 25.6 | С | 3,275 | 37.6 | E | 3,182 | 35.2 | ${f E}$ | |
| 11 | 220 | 227 | 2 | 3,207 | 36.1 | E | 2,407 | 22.8 | С | 3,046 | 32.8 | D | 2,896 | 29.9 | D | |
| 12 | 227 | 231 | 2 | 3,170 | 35.3 | E | 2,786 | 28.1 | D | 3,150 | 34.9 | D | 3,154 | 34.7 | D | |
| 13 | 231 | 234 | 2 | 3,339 | 39.1 | E | 3,000 | 31.7 | D | 3,180 | 35.5 | E | 3,252 | 36.7 | E | |
| 14 | 234 | 238 | 2 | 3,194 | 35.8 | E | 2,675 | 26.4 | D | 2,951 | 31.1 | D | 3,084 | 33.3 | D | |
| 15 | 238 | 242 | 2 | 3,244 | 32.7 | D | 2,836 | 26.6 | D | 2,980 | 28.7 | D | 3,039 | 29.3 | D | |
| 16 | 242 | 243 | 2 | 3,467 | 36.7 | E | 3,197 | 31.7 | D | 3,379 | 35.0 | E | 3,173 | 31.3 | D | |
| 17 | 243 | 247 | 2 | 3,250 | 32.8 | D | 3,070 | 29.8 | D | 3,726 | 42.2 | E | 3,369 | 34.6 | D | |

Notes:

Table 7: 2011 Existing Freeway Segment Level of Service – Summer Peak, Nighttime near Busch Gardens

| | | | | 2011 Eastbound | | | | | | 2011 Westbound | | | | | | |
|---------|-----------|---------|-------|----------------|----------------------|-----|----------|----------------------|-----|----------------|----------------------|-----|----------|----------------------|-----|--|
| Segment | From Exit | To Exit | Lanes | SA | SAT Nighttime Peak | | | SUN Nighttime Peak | | | SAT Nighttime Peak | | | SUN Nighttime Peak | | |
| | | | | Volume 1 | Density ² | LOS | Volume 1 | Density ² | LOS | Volume 1 | Density ² | LOS | Volume 1 | Density ² | LOS | |
| 16 | 242 | 243 | 2 | 1,542 | 13.8 | В | 1,951 | 17.4 | В | 1,840 | 16.4 | В | 2,091 | 18.7 | С | |
| 17 | 243 | 247 | 2 | 2,269 | 20.4 | C | 2,829 | 26.7 | D | 1,498 | 13.4 | В | 1,791 | 16.0 | В | |

Notes:

¹ Volume is given as "vehicles per hour" (vph). SAT Daytime Peak = Saturday Daytime peak hour (9:00 AM to 10:00 AM). SUN Daytime Peak = Sunday Daytime peak hour (2:00 PM to 3:00 PM).

² Density is given as "vehicles per mile per lane" (pc/mi/ln).

Volume is given as "vehicles per hour" (vph). SAT Nighttime Peak = Saturday Nighttime peak hour (10:00 PM to 11:00 PM). SUN Nighttime Peak = Sunday Nighttime peak hour (9:00 PM to 10:00 PM).

² Density is given as "vehicles per mile per lane" (pc/mi/ln).



2. Ramp Merges and Diverges

Ramp merges and diverges are the areas where traffic from on-ramps enter a freeway (merge) or traffic from the freeway accesses an off-ramp (diverge). **Table 10** summarizes the merge and diverge analysis of Weekday Non-Summer AM and PM peak hours for the entire corridor. **Table 11** summarizes the merge and diverge analysis of Summer Daytime Saturday and Sunday peak hours in the vicinity of Williamsburg. **Table 12** summarizes the merge and diverge analysis of Summer Nighttime Saturday and Sunday Peak hours in the vicinity of Busch Gardens.

The left side of each table describes the exit number, type of ramp, and traffic volumes that characterize each ramp. The right side gives the Density and LOS determined by applying the HCM methodology.

Table 13 defines the LOS for ramp merges and diverges according to vehicular density, which is given in terms of passenger cars, per mile, per lane (pc/mi/ln).

Table 13: Level of Service Definitions for Ramp Merges and Diverges

| Density (pc/mi/ln) | Level of Service |
|-------------------------|------------------|
| ≤ 10 | A |
| > 10-20 | В |
| > 20-28 | С |
| > 28-35 | D |
| > 35 | E |
| Demand exceeds capacity | F |

Source: Transportation Research Board, National Research Council, *Highway Capacity Manual, HCM 2010*, Transportation Research Board, Washington, DC, 2010.

A procedure similar to that for the freeway capacity analysis was used when analyzing weaving and merging/diverging areas where there are HOV lanes. For short weaving sections, it was assumed that there would be minimal numbers of drivers weaving from the HOV lane across three lanes of traffic to the downstream off-ramp; in other words, most drivers would anticipate their downstream off-ramp and would have already exited the HOV lane in advance of the weaving section.

During the Non-Summer Weekday peaks, ramps at the eastern end of the corridor displayed the most operational issues. Particularly, both on and off ramps at Exit 247 and 250 operated at LOS D or E during the AM and PM peaks. More intensive operational issues were noted during the PM peak at Exits 258 and 261, with ramps in the westbound direction operating at LOS F. In the western portion of the corridor, Exit 192 was the only interchange where ramps operated at deficient LOS D. All ramps at all other interchanges west of Exit 243 operated at LOS C or better during both AM and PM peaks.

During the Summer Weekend Daytime peaks, each of the five interchanges analyzed for summer conditions had ramps that operated at LOS D or E during one or both peaks. In the eastbound direction, Saturday conditions were generally worse than Sunday conditions, and ramps at Exits 234 and 238 operated at the highest densities with LOS E during the Saturday peak. In the westbound direction, ramps at Exit 243 operated at LOS E during both the Saturday and Sunday Daytime peaks. None of the ramps analyzed operated at deficient LOS during the Weekend Nighttime peaks.



Table 10: 2011 Existing Merge and Diverge Ramp Level of Service – Non-Summer Weekday Peak

| | | | 2011 Ea | stbound | _ | | | 2011 Westbound | | | | | | | |
|------|----------|---------------------|----------------------|---------|----------|----------------------|-----|----------------|-------------------|----------|----------------------|-----|----------|----------------------|-----|
| Exit | Ramp | | AM Peak ³ | | | PM Peak ⁴ | | Exit | Ramp | | AM Peak ³ | | | PM Peak ⁴ | |
| LAIL | катр | Volume ¹ | Density ² | LOS | Volume 1 | Density ² | LOS | Exit | Kamp | Volume 1 | Density ² | LOS | Volume 1 | Density ² | LOS |
| 192 | OFF RAMP | 1,017 | 19.6 | В | 1,451 | 29.5 | D | 192 | Е | 1,219 | 28.2 | D | 1,005 | 21.7 | С |
| 172 | ON RAMP | 180 | 10.7 | В | 319 | 19.1 | В | 172 | F | 357 | 22.2 | С | 221 | 16.1 | В |
| _ | A | 126 | 13.3 | В | 75 | 21.9 | С | | D | 955 | 20.1 | C | 657 | 14.2 | В |
| 193 | В | 528 | 14.3 | В | 686 | 23.5 | С | 193 | G | 52 | 16.3 | В | 46 | 11.1 | В |
| | С | 75 | 6.1 | A | 229 | 14.3 | В | | | | | | | | |
| - | A | 702 | 11.8 | В | 870 | 21.3 | С | | С | 71 | 14.6 | В | 57 | 9.9 | A |
| 195 | В | 183 | 6.4 | A | 353 | 15.2 | В | 195 | D | 588 | 13.4 | В | 645 | 8.9 | A |
| | | | | | | | | | Е | 147 | 14.8 | В | 184 | 9.3 | A |
| 197 | A | 308 | 5.2 | A | 527 | 20.3 | С | 197 | Е | 601 | 15.8 | В | 290 | 10.2 | В |
| 177 | D | 145 | 6.1 | A | 243 | 16.8 | В | 177 | Н | 64 | 16.5 | В | 67 | 10.3 | В |
| | OFF RAMP | 225 | 0* | A | 485 | 10.4 | В | | OFF RAMP | 1,389 | 16.7 | В | 1,241 | 11.6 | В |
| 200 | ON RAMP | 1,109 | 4.6 | A | 1,335 | 14.3 | В | 200 | ON RAMP | 467 | 5.7 | A | 246 | 0.0 | A |
| 200 | A | 196 | 0* | A | 412 | 0.0 | A | 200 | F | 31 | 2.9 | A | 35 | 1.1 | A |
| | D/E | 287 | 10.4 | В | 325 | 11.6 | В | | I - Major Diverge | 970 | 8.8 | A | 826 | 8.1 | A |
| _ | A | 249 | 15.2 | В | 760 | 27.0 | С | | С | 574 | 22.4 | C | 172 | 17.6 | В |
| 205 | В | 137 | 14.5 | В | 98 | 20.3 | С | 205 | D | 441 | 19.9 | В | 141 | 18.6 | В |
| | | | | | | | | | Е | 95 | 17.3 | В | 98 | 18.8 | В |
| 211 | A | 53 | 15.2 | В | 72 | 21.6 | C | 211 | С | 115 | 16.9 | В | 145 | 18.8 | В |
| 211 | В | 180 | 14.5 | В | 91 | 19.3 | В | 211 | D | 103 | 15.6 | В | 90 | 17.0 | В |
| 213 | A | 163 | 15.9 | В | 141 | 21.1 | С | 213 | С | 102 | 17.8 | В | 117 | 19.7 | В |
| 213 | В | 163 | 16.2 | В | 141 | 21.0 | C | 213 | D | 102 | 16.5 | В | 117 | 18.2 | В |
| 214 | A | 165 | 17.0 | В | 160 | 22.2 | С | 214 | С | 73 | 14.9 | В | 90 | 18.0 | В |
| 214 | В | 100 | 13.9 | В | 82 | 18.6 | В | 214 | D | 227 | 16.1 | В | 125 | 17.9 | В |
| 220 | A | 233 | 14.1 | В | 483 | 19.2 | В | 220 | С | 47 | 10.4 | В | 44 | 15.9 | В |
| 220 | В | 58 | 14.3 | В | 39 | 16.7 | В | 220 | D | 497 | 13.0 | В | 252 | 15.9 | В |
| | A | 108 | 13.4 | В | 106 | 16.0 | В | | С | 213 | 12.3 | В | 426 | 19.8 | В |
| 227 | В | 44 | 15.9 | В | 65 | 15.6 | В | 227 | D | 112 | 9.7 | A | 106 | 14.3 | В |
| | Е | 457 | 14.4 | В | 163 | 14.3 | В | | | | | | | | |
| 221 | A | 48 | 17.2 | В | 50 | 17.3 | В | 221 | Е | 50 | 13.6 | В | 109 | 23.1 | С |
| 231 | D | 450 | 19.0 | В | 223 | 16.6 | В | 231 | Н | 41 | 10.1 | В | 37 | 16.8 | В |

Notes:

¹ Volume is given as "vehicles per hour"

² Density is given as "passenger cars, per mile, per lane"

³ AM Peak = Weekday morning peak hour (7:00 AM to 8:00 AM)

⁴ PM Peak = Weekday afternoon peak hour (4:00 PM to 5:00 PM or 5:00 PM to 6:00 PM, whichever hourly volume was higher)



Table 10: 2011 Existing Merge and Diverge Ramp Level of Service – Non-Summer Weekday Peak (continued)

| | 2011 Eastbound | | | | | | | | | | |
|------|----------------|---------------------|----------------------|-----|---------------------|----------------------|-----|--|--|--|--|
| Exit | Down | | AM Peak ³ | | | PM Peak ⁴ | | | | | |
| EXIL | Ramp | Volume ¹ | Density ² | LOS | Volume ¹ | Density ² | LOS | | | | |
| 234 | A | 574 | 21.9 | С | 594 | 19.0 | В | | | | |
| 234 | В | 499 | 19.4 | В | 436 | 16.1 | В | | | | |
| | A | 337 | 22.8 | С | 250 | 19.5 | В | | | | |
| 238 | В | 352 | 22.3 | С | 414 | 20.3 | С | | | | |
| | | | | | | | | | | | |
| 242 | A | 202 | 19.2 | В | 144 | 17.1 | В | | | | |
| 243 | В | 16 | 24.5 | С | 15 | 19.4 | В | | | | |
| 243 | С | 159 | 11.6 | В | 153 | 6.9 | A | | | | |
| | A | 151 | 33.5 | D | 114 | 28.2 | D | | | | |
| 247 | С | 296 | 31.0 | D | 199 | 25.8 | C | | | | |
| | D | 387 | 31.3 | D | 171 | 24.2 | С | | | | |
| 250 | A | 644 | 37.0 | E | 436 | 29.0 | D | | | | |
| 230 | Е | 728 | 34.9 | D | 1,349 | 32.2 | D | | | | |
| | OFF RAMP | 668 | 22.2 | С | 705 | 21.8 | С | | | | |
| 255 | ON RAMP | 1,658 | 26.5 | С | 1,626 | 25.6 | С | | | | |
| 255 | A | 502 | 0.9 | A | 502 | 1.3 | A | | | | |
| | Е | 160 | 14.6 | В | 276 | 14.3 | В | | | | |
| 256 | A | 247 | 25.3 | С | 460 | 25.0 | C | | | | |
| 230 | Е | 783 | 28.8 | D | 396 | 23.5 | С | | | | |
| 258 | A | 1,154 | 31.4 | D | 768 | 27.2 | C | | | | |
| 250 | Е | 535 | 23.1 | С | 504 | 20.2 | С | | | | |
| | A | 381 | 28.2 | С | 576 | 25.8 | С | | | | |
| 261 | В | 849 | 26.5 | С | 425 | 22.0 | С | | | | |
| | D | 804 | 21.4 | С | 638 | 18.5 | В | | | | |
| 263 | Е | 626 | 18.9 | В | 526 | 15.7 | В | | | | |

| | | | 2011 West | bound | | | |
|------|----------|----------|----------------------|-------|----------|----------------------|-----|
| Exit | Ramp | | AM Peak ³ | | | PM Peak ⁴ | |
| Exit | Kamp | Volume 1 | Density ² | LOS | Volume 1 | Density ² | LOS |
| 234 | С | 27 | 12.6 | В | 101 | 23.3 | C |
| 234 | F | 37 | 12.3 | В | 24 | 20.9 | C |
| | С | 394 | 13.7 | В | 414 | 22.8 | С |
| 238 | D | 171 | 14.2 | В | 310 | 23.4 | C |
| | Е | 4 | 13.5 | В | 58 | 23.3 | C |
| 242 | Н | 77 | 11.7 | В | 119 | 19.3 | В |
| 243 | D | 149 | 3.8 | A | 103 | 11.1 | В |
| 243 | Е | 273 | 26.4 | С | 346 | 34.4 | D |
| | В | 222 | 19.6 | В | 279 | 26.9 | С |
| 247 | Е | 321 | 26.7 | С | 358 | 34.6 | D |
| | | | | | | | |
| 250 | С | 331 | 33.1 | D | 556 | 37.5 | E |
| 230 | G | 475 | 21.3 | C | 461 | 28.5 | D |
| | OFF RAMP | 1,396 | 24.3 | С | 1,729 | 27.8 | С |
| 255 | ON RAMP | 616 | 18.7 | В | 578 | 19.1 | В |
| 233 | С | 1,239 | 6.0 | A | 1,344 | 9.0 | A |
| | G | 192 | 3.7 | A | 154 | 3.4 | A |
| 256 | С | 579 | 23.7 | C | 897 | 30.2 | D |
| 230 | G | 132 | 18.9 | В | 233 | 21.5 | C |
| 258 | С | 1,187 | 23.4 | C | 1,024 | ** | F |
| 236 | G | 396 | 19.4 | В | 432 | 25.6 | C |
| | F | 772 | 28.8 | D | 1,238 | ** | F |
| 261 | | | | | | | |
| | | | | | | | |
| 263 | D | 460 | 19.8 | В | 592 | 25.5 | C |

Notes

¹ Volume is given as "vehicles per hour"

² Density is given as "passenger cars, per mile, per lane"

³ AM Peak = Weekday morning peak hour (7:00 AM to 8:00 AM)

⁴ PM Peak = Weekday afternoon peak hour (4:00 PM to 5:00 PM or 5:00 PM to 6:00 PM, whichever hourly volume was higher)

^{**} Volume exceeds capacity. Density is undefined. Level of service is "F"



Table 11: 2011 Existing Merge and Diverge Ramp Level of Service – Summer Peak, Daytime near Williamsburg

| | | | 2011 Ea | stbound | | | | | | | 2011 Westl | oound | | | |
|------|------|---------------------|-----------------------|---------|---------------------|-----------------------|-----|------|----------|-----------------------|----------------------|-------|-----------------------|----------------------|-----|
| Exit | Damn | | SAT Peak ³ | | | SUN Peak ⁴ | | Exit | zit Domn | SAT Peak ³ | | | SUN Peak ⁴ | | |
| EXIL | Ramp | Volume ¹ | Density ² | LOS | Volume ¹ | Density ² | LOS | EXIL | t Ramp | Volume 1 | Density ² | LOS | Volume 1 | Density ² | LOS |
| 220 | A | 380 | 31.4 | D | 251 | 22.4 | С | 220 | С | 33 | 27.6 | С | 110 | 25.9 | С |
| 220 | В | 72 | 28.9 | D | 42 | 21.7 | C | 220 | D | 262 | 26.6 | C | 396 | 25.6 | C |
| 234 | A | 498 | 36.3 | E | 621 | 32.2 | D | 234 | С | 47 | 32.4 | D | 82 | 33.8 | D |
| 234 | В | 353 | 31.7 | D | 296 | 26.1 | C | 234 | F | 40 | 31.2 | D | 35 | 31.8 | D |
| | A | 302 | 36.7 | E | 252 | 30.5 | D | | С | 306 | 31.7 | D | 288 | 32.3 | D |
| 238 | В | 352 | 34.9 | D | 413 | 30.4 | D | 238 | D | 268 | 32.1 | D | 326 | 33.3 | D |
| | | | | | | | | | E | 9 | 31.5 | D | 7 | 32.8 | D |
| 242 | A | 142 | 32.0 | D | 152 | 27.5 | С | 242 | Н | 52 | 26.9 | С | 157 | 27.2 | С |
| 243 | В | 12 | 28.7 | D | 16 | 26.1 | C | 243 | D | 323 | 19.5 | В | 313 | 16.0 | В |
| 243 | С | 106 | 15.2 | В | 160 | 13.2 | В | 243 | Е | 136 | 41.0 | E | 88 | 37.0 | E |

Notes:

Table 12: 2011 Existing Merge and Diverge Ramp Level of Service – Summer Peak, Nighttime near Busch Gardens

| | 2011 Eastbound | | | | | | | | 2011 Westbound | | | | | | | |
|------|----------------|-----------------------|----------------------|-----------------------|----------|----------------------|-----|-----------|----------------|-----------------------|----------|-----------------------|-----|----------|----------------------|-----|
| E | Ramp | SAT Peak ³ | | SUN Peak ⁴ | | | E:4 | Exit Ramp | | SAT Peak ³ | | SUN Peak ⁴ | | | | |
| Exit | | Volume 1 | Density ² | LOS | Volume 1 | Density ² | LOS | ŀ | EXIL | Kamp | Volume 1 | Density ² | LOS | Volume 1 | Density ² | LOS |
| 243 | В | 4 | 10.5 | В | 7 | 14.7 | В | | 242 | D | 108 | 0 * | A | 136 | 0 * | A |
| 243 | С | 812 | 5.2 | A | 987 | 10.6 | В | | 243 | E | 86 | 16.1 | В | 123 | 20.2 | С |

Notes:

¹ Volume is given as "vehicles per hour"

² Density is given as "passenger cars, per mile, per lane"

³ SAT Peak = Saturday Daytime peak hour (9:00 AM to 10:00 AM)

⁴ SUN Peak = Sunday Daytime peak hour (2:00 PM to 3:00 PM)

¹ Volume is given as "vehicles per hour"

² Density is given as "passenger cars, per mile, per lane"

³ SAT Peak = Saturday Night peak hour (10:00 PM to 11:00 PM)

⁴ SUN Peak = Sunday Night peak hour (9:00 PM to 10:00 PM)

^{*} The calculated density for ramps with long acceleration or deceleration lanes is negative, due to the nature of the HCM 2010 density equation. Density is shown as zero in this summary.



3. Weaving Segments

Weaving segments are areas where two traffic streams moving in the same direction must cross and/or change lanes to continue to their destination. Weaving segments are formed when a merge is closely followed by a diverge, for example, where an on-ramp is followed closely by an off-ramp and the two are joined by an auxiliary lane. Table 14 summarizes the weaving segment analysis of Weekday Non-Summer AM and PM peak hours for the entire corridor. Table 15 summarizes the weaving segment analysis of Summer Daytime Saturday and Sunday peak hours in the vicinity of Williamsburg. Table 16 summarizes the weaving segment analysis of Summer Nighttime Saturday and Sunday Peak hours in the vicinity of Busch Gardens.

The left side of each table describes the various weaving areas in the I-64 study corridor, according to the exit number and direction of travel. The right side gives the density and LOS, determined by applying the HCM methodology. **Table 17** defines the LOS for weaving segments according to vehicular density, which is given in terms of passenger cars, per mile, per lane (pc/mi/ln).

Table 17: Level of Service Definitions for Weaving Segments

| Density (pc/mi/ln) | Level of Service |
|-------------------------|------------------|
| 0-10 | A |
| > 10-20 | В |
| > 20-28 | C |
| > 28-35 | D |
| > 35 | E |
| Demand exceeds capacity | F |

Source: Transportation Research Board, National Research Council, *Highway Capacity Manual*, *HCM 2010*, Transportation Research Board, Washington, DC, 2010.

During the Non-Summer Weekday peaks, weaving areas generally operated acceptably, except in the eastern-most parts of the corridor in Hampton during the PM peak. The westbound weave areas at Exit 258 and Exit 261 operated at LOS D. Weave areas between Exits 262 and 263 in both directions operated at LOS D (westbound) and LOS F (eastbound), and the westbound weave area between Exit 264 and 263 operated at LOS F.

During the Summer Weekend Daytime peaks, weave areas Westbound at Exit 234 and Eastbound between Exits 242 and 243 operated at LOS D. All others operated acceptably during both the Daytime and Nighttime peaks.

_

⁴ Transportation Research Board, National Research Council, *Highway Capacity Manual*, *HCM* 2010, Transportation Research Board, Washington, DC, 2010.



Table 14: 2011 Existing Weaving Area Level of Service - Non-Summer Weekday Peak

| | Direction | | Peak | PM Peak | | | |
|-------------------------|-----------|---------|------|---------|---------|--|--|
| Exit | Direction | Density | LOS | Density | LOS | | |
| 192 | Eastbound | 12.5 | В | 16.6 | В | | |
| 193 | Westbound | 13.0 | В | 9.3 | A | | |
| 197 | Eastbound | 5.1 | A | 13.9 | В | | |
| 197 | Westbound | 12.1 | В | 8.5 | A | | |
| 200 | Eastbound | 0.2 | A | 0.4 | A | | |
| 200 | Westbound | 5.1 | A | 3.8 | A | | |
| 231 | Eastbound | 11.8 | В | 11.4 | В | | |
| 231 | Westbound | 9.8 | A | 15.8 | В | | |
| 234 | Westbound | 12.5 | В | 21.6 | С | | |
| 242 | Eastbound | 12.6 | В | 12.2 | В | | |
| 242 | Westbound | 14.5 | В | 21.9 | С | | |
| 242 TO 243 | Eastbound | 21.2 | С | 16.9 | В | | |
| 243 TO 242 | Westbound | 14.0 | В | 19.0 | В | | |
| 250 | Eastbound | 23.8 | С | 17.7 | В | | |
| 250 | Westbound | 23.7 | С | 25.5 | С | | |
| 255 | Eastbound | 11.1 | В | 10.2 | В | | |
| 233 | Westbound | 3.5 | A | 5.0 | A | | |
| 256 | Eastbound | 26.4 | С | 22.8 | С | | |
| 230 | Westbound | 21.1 | С | 25.9 | С | | |
| 258 | Eastbound | 23.2 | С | 20.2 | С | | |
| 238 | Westbound | 20.6 | С | 29.2 | D | | |
| 261 | Westbound | 23.8 | С | 31.0 | D | | |
| 262 TO 263 | Eastbound | 21.7 | С | ** | ${f F}$ | | |
| 263 TO 262 | Westbound | 22.1 | С | 27.4 | D | | |
| 263 TO 264 ¹ | Eastbound | 23.0 | С | 18.9 | В | | |
| 264 TO 263 ¹ | Westbound | 24.4 | С | ** | F | | |

Notes:

¹ Density is given as "vehicles per mile per lane"

² AM Peak = Weekday morning peak hour (7:00 AM to 8:00 AM)

³ PM Peak = Weekday afternoon peak hour (4:00 PM to 5:00 PM or 5:00 PM to 6:00 PM, whichever hourly volume was higher)

^{**} Demand exceeds capacity. Density is undefined. Level of service is "F"



| Table 15: | 2011 Existing Weaving Area Level of Service – Summer Peak, |
|------------------|--|
| | Daytime near Williamsburg |

| Exit | Direction | SAT | Peak | SUN Peak | | |
|------------|-----------|---------|------|----------|-----|--|
| EXIL | Direction | Density | LOS | Density | LOS | |
| 234 | Westbound | 28.2 | D | 31.9 | D | |
| 242 | Eastbound | 21.9 | С | 19.4 | В | |
| 242 | Westbound | 23.5 | С | 22.1 | C | |
| 242 TO 243 | Eastbound | 29.1 | D | 25.0 | C | |
| 243 TO 242 | Westbound | 23.3 | С | 21.8 | C | |

Notes:

Table 16: 2011 Existing Weaving Area Level of Service – Summer Peak, Nighttime near Busch Gardens

| Exit | Direction | SAT | Peak | SUN Peak | | |
|------------|-----------|---------|------|----------|-----|--|
| EXIL | Direction | Density | LOS | Density | LOS | |
| 242 TO 243 | Eastbound | 10.2 | В | 13.1 | В | |
| 243 TO 242 | Westbound | 12.6 | В | 14.7 | В | |

Notes:

4. Signalized and Unsignalized Intersections

The intersections evaluated in this study generally include locations where I-64 ramps intersect cross-streets at interchanges. A limited number of additional intersections were included where the intersections are located in such close proximity to the interchange that capacity at the intersection has the potential to affect movements entering or exiting the interstate. Note that many cross streets have traffic signals that are part of larger coordinated systems, which were not analyzed as a part of this network.

Table 18 summarizes the intersection analysis of Weekday Non-Summer AM and PM peak hours for the entire corridor. Table 19 summarizes the intersection analysis of Summer Daytime Saturday and Sunday peak hours in the vicinity of Williamsburg.

The left side of each table locates the various intersections according to the exit, ramp designation, and the cross-streets involved. The control type (signalized or unsignalized) is given, and the critical intersection movement is given for all unsignalized intersections. The right side of the table gives the overall intersection delay for signals or the critical movement delay for unsignalized intersections⁵, as well as the LOS determined by applying the HCM methodology. **Tables 20 and 21** define the LOS for

¹ Density is given as "vehicles per mile per lane"

² SAT Peak = Saturday Daytime peak hour (9:00 AM to 10:00 AM)

³ SUN Peak = Sunday Daytime peak hour (2:00 PM to 3:00 PM)

¹ Density is given as "vehicles per mile per lane"

² SAT Peak = Saturday Night peak hour (10:00 PM to 11:00 PM)

³ SUN Peak = Sunday Night peak hour (9:00 PM to 10:00 PM)

⁵ For unsignalized intersections, the HCM does not define delay or Level of Service for the intersection as a whole. The higher volume major street movements have no delay, which makes total intersection delay imprecise as a measure of performance. Delay and Level of Service for the minor street movements are meaningful, with the critical movement (i.e., highest delay movement) being the single-most indicative measure of effectiveness.



signalized and unsignalized intersections, respectively, according to vehicular control delay, which is given in terms of seconds per vehicle (sec/veh).

Table 20: Level of Service Definitions for Signalized Intersections

| Control Delay (sec/veh) | Level of Service $v/c \le 1.00$ | Level of Service v/c > 1.00 |
|-------------------------|---------------------------------|--------------------------------|
| ≤ 10 | A | F |
| > 10-20 | В | F |
| > 20-35 | С | F |
| > 35-55 | D | F |
| > 55-80 | E | F |
| > 80 | F | F |

Source: Transportation Research Board, National Research Council, *Highway Capacity Manual, HCM 2010*, Transportation Research Board, Washington, DC, 2010.

Table 21: Level of Service Definitions for Unsignalized Intersections

| Control Delay (sec/veh) | Level of Service $v/c \le 1.00$ | Level of Service v/c > 1.00 | |
|-------------------------|---------------------------------|--------------------------------|--|
| 0-10 | A | F | |
| > 10-15 | В | F | |
| > 15-25 | С | F | |
| > 25-35 | D | F | |
| > 35-50 | E | F | |
| > 50 | F | F | |

Source: Transportation Research Board, National Research Council, *Highway Capacity Manual, HCM 2010*, Transportation Research Board, Washington, DC, 2010.

During the Non-Summer Weekday peaks, a LOS E or F was displayed at one of the 38 intersections during the AM peak and one intersection during the PM peak. At the unsignalized I-64 EB off-ramp at Jefferson Avenue (Exit 247) intersection, the critical movement (off-ramp approach) operates at LOS F in the AM and LOS D in the PM. At the signalized Jefferson Avenue at Brick Kiln Blvd/Wal-Mart Way intersection (Exit 255), the signal operates at a LOS D in the AM peak hour and a LOS E in the PM peak hour.

No delay-related LOS issues were noted during the Summer Weekend Daytime peaks for the intersections that were included in this analysis (at Exits 234, 238, and 243). No intersection capacity analysis was completed for the Summer Nighttime peaks.



Table 18: 2011 Existing Intersection Level of Service – Non-Summer Weekday Peak

| Exit - Ramp Intersection | | rol Intersection | G ::: 1M 41 | 2011 AM Peak Hour ¹ | | 2011 PM Peak Hour ² | |
|--------------------------|----------------------|---|--------------------------------|--------------------------------|------------------|--------------------------------|------------------|
| | Intersection Control | | Critical Movement ¹ | Delay ³ | LOS ³ | Delay ³ | LOS ³ |
| 190-A | Unsignalized | 5th Street & I-95 NB On-ramp | SB 5th Street L | 7.7 | A | 8.2 | A |
| 190-B | Unsignalized | 3rd Street & I-95 SB Off-ramp | 3rd Street L | 18.7 | С | 11.4 | В |
| 192-A | Signal | I-64 WB Off-ramp/Magnolia Street & US 360 | Intersection | 45.1 | D | 26.3 | С |
| 192-B | Unsignalized | I-64 EB Off-ramp & US 360 4 | I-64 Off-ramp R ⁴ | 12.1 | В | 10.2 | В |
| 193-A | Unsignalized | I-64 EB Ramps & Nine Mile Road | I-64 Off-ramp R | 10.9 | В | 9.8 | A |
| 193-B | Signal | Route 33 & Gordon's Lane | Intersection | 15.9 | В | 14.0 | В |
| 193-C | Unsignalized | I-64 WB Off-ramp & Nine Mile Road | I-64 Off-ramp R | 10.3 | В | 13.3 | В |
| 195-A | Signal | I-64 EB Ramps & Laburnum Avenue | Intersection | 29.4 | С | 45.9 | D |
| 195-B | Signal | I-64 WB Ramps & Laburnum Avenue | Intersection | 8.4 | A | 8.7 | A |
| 205-A | Signal | I-64 EB Ramps & New Kent Highway | Intersection | 8.6 | A | 12.3 | В |
| 205-В | Unsignalized | I-64 WB Ramps & New Kent Highway | I-64 Off-ramp LR | 10.9 | В | 21.3 | С |
| 211-A | Unsignalized | I-64 EB Ramps & Emmans Church Road | I-64 Off-ramp LTR | 10.5 | В | 10.8 | В |
| 211-B | Unsignalized | I-64 WB Ramps & Emmans Church Road | I-64 Off-ramp LTR | 12.3 | В | 12.8 | В |
| 214-A | Unsignalized | I-64 EB Ramps & Courthouse Road | I-64 Off-ramp LTR | 16.8 | C | 11.4 | В |
| 214-B | Unsignalized | I-64 WB Ramps & Courthouse Road | I-64 Off-ramp LTR | 20.2 | C | 13.3 | В |
| 227-A | Unsignalized | I-64 EB Ramps & Old Stage Road | I-64 Off-ramp L | 11.6 | В | 11.2 | В |
| 227-B | Unsignalized | I-64 WB Ramps & Old Stage Road | I-64 Off-ramp L | 16.6 | C | 18.3 | C |
| 231-A | Signal | Croaker Road & Rochambeau Drive | Intersection | 41.2 | D | 33.8 | C |
| 231-B | Unsignalized | Croaker Road & Fenton Mill Road | WB Fenton Mill LTR | 12.7 | В | 13.5 | В |
| 231-C | Unsignalized | I-64 WB Off-ramp & Croaker Road | I-64 Off-ramp R | 8.7 | A | 9.4 | A |
| 231-D | Unsignalized | I-64 EB Off-ramp & Croaker Road | I-64 Off-ramp R | 9.8 | A | 10.2 | В |
| 234-A | Unsignalized | I-64 EB Ramps & Newman Road | I-64 Off-ramp LT | 21.0 | C | 20.7 | C |
| 234-B | Unsignalized | Newman Road & Fenton Mill Road | NB Fenton Mill LTR | 11.5 | В | 12.9 | В |
| 234-C | Unsignalized | I-64 WB Off-ramp & Newman Road | I-64 Off-ramp R | 8.6 | A | 9.5 | A |
| 238-A | Unsignalized | I-64 EB Off-ramp (left turn) & Merrimac Trail | I-64 Off-ramp L | 18.4 | C | 15.8 | C |
| 238-B | Signal | I-64 EB On-ramp, Merrimac Trail, & Rochambeau Drive | Intersection | 19.6 | В | 17.5 | В |
| 238-C | Unsignalized | I-64 WB Off-ramp (left turn) & Merrimac Trail | I-64 Off-ramp L | 14.2 | В | 12.8 | В |
| 238-D | Unsignalized | I-64 EB Off-ramp (right turn) & Merrimac Trail | I-64 Off-ramp R | 12.4 | В | 12.2 | В |
| 243-A | Signal | Busch Gardens Boulevard NB ramps & US Route 60 | Intersection | 8.7 | A | 8.9 | A |
| 243-B | Signal | Busch Gardens Boulevard SB ramps & US Route 60 | Intersection | 8.0 | A | 8.4 | A |
| 247-A | Unsignalized | I-64 EB Off-ramp & Jefferson Avenue | I-64 Off-ramp LR | 67.7 | F | 31.4 | D |
| 247-B | Signal | Jefferson Ave & Yorktown Road | Intersection | 29.0 | C | 40.6 | D |
| 247-C | Unsignalized | I-64 EB On-ramp & Yorktown Road | SB Yorktown L | 9.2 | A | 9.0 | A |
| 247-D | Unsignalized | I-64 WB Off-ramp & Yorktown Road | I-64 Off-ramp L | 12.2 | В | 12.0 | В |
| 250-A | Signal | I-64 WB Off-ramp & Jefferson Avenue | Intersection | 10.9 | В | 18.3 | В |
| 250-R | Signal | Jefferson Avenue & Fort Eustis Boulevard | Intersection | 53.9 | D | 43.1 | D |
| 255-A | Signal | Jefferson Avenue & Freedom Way/Clair Lane | Intersection | 16.4 | В | 42.3 | D |
| 255-B | Signal | Jefferson Avenue & Brick Kiln Blvd/Wal-Mart Way | Intersection | 49.8 | D | 80.0 | E |

Notes:

¹ AM Peak = Weekday morning peak hour (7:00 AM to 8:00 AM)

² PM Peak = Weekday afternoon peak hour (4:00 PM to 5:00 PM or 5:00 PM to 6:00 PM, whichever hourly volume was higher)

³ Delay is given as "seconds per vehicle," per HCS 2010 analysis. Delay and LOS for signalized intersections apply to the overall intersection. Delay and LOS for unsignalized intersections are for the critical movement (major street left or minor street approach with highest delay)

⁴ Approach is controlled by a yield sign but operates as stop-controlled and was analyzed accordingly.



Table 19: 2011 Existing Intersection Level of Service – Summer Peak, Daytime near Williamsburg

| Exit - Ramp Intersecti | Interception Control | trol Intersection | Critical Movement ¹ | 2011 SAT Peak Hour ¹ | | 2011 SUN Peak Hour ² | |
|------------------------|-----------------------------|---|--------------------------------|---------------------------------|------------------|---------------------------------|------------------|
| | Intersection Control | | | Delay ³ | LOS ³ | Delay ³ | LOS ³ |
| 234-A | Unsignalized | I-64 EB Ramps & Newman Road | I-64 Off-ramp LT | 16.3 | С | 17.9 | С |
| 234-В | Unsignalized | Newman Road & Fenton Mill Road | NB Fenton Mill LTR | 12.1 | В | 13.5 | В |
| 234-C | Unsignalized | I-64 WB Off-ramp & Newman Road | I-64 Off-ramp R | 8.9 | A | 9.2 | A |
| 238-A | Unsignalized | I-64 EB Off-ramp (left turn) & Merrimac Trail | I-64 Off-ramp L | 12.5 | В | 12.4 | В |
| 238-В | Signal | I-64 EB On-ramp, Merrimac Trail, & Rochambeau Drive | Intersection | 12.8 | В | 14.3 | В |
| 238-C | Unsignalized | I-64 WB Off-ramp (left turn) & Merrimac Trail | I-64 Off-ramp L | 10.8 | В | 10.1 | В |
| 238-D | Unsignalized | I-64 EB Off-ramp (right turn) & Merrimac Trail | I-64 Off-ramp R | 11.8 | В | 10.9 | В |
| 243-A | Signal | Busch Gardens Boulevard NB ramps & US Route 60 | Intersection | 7.9 | A | 9.5 | A |
| 243-B | Signal | Busch Gardens Boulevard SB ramps & US Route 60 | Intersection | 10.6 | В | 9.8 | A |

Notes:

¹ SAT Peak = Saturday Daytime peak hour (9:00 AM to 10:00 AM)

² SUN Peak = Sunday Daytime peak hour (2:00 PM to 3:00 PM)

³ Delay is given as "seconds per vehicle," per HCS 2010 analysis. Delay and LOS for signalized intersections apply to the overall intersection. Delay and LOS for unsignalized intersections are for the critical movement (major street left or minor street approach with highest delay)

⁴ Approach is controlled by a yield sign but operates as stop-controlled and was analyzed accordingly.



D. Traffic Safety

A safety analysis of the I-64 corridor was conducted to examine crash locations along the corridor. Three years of VDOT crash data from January 2008 to December 2010 was analyzed and plotted. This data does not include minor "fender-bender" crashes that were not reported to police and are therefore not included in VDOT's Statewide Crash Database.

The results of this analysis revealed that there were 3,802 crashes over the three year period from mile marker 191, just east of Exit 190 (I-95), to mile marker 264, east of Exit 264 (I-664). While 31% of crashes resulted in injuries, 68% of the crashes resulted only in property damage. There were 20 fatal crashes in that period, representing 0.5% of total crashes. The 20 fatal crashes were spread throughout the corridor, however a majority (15 of 20) occurred within the rural four-lane section of the corridor between I-295 (Exit 200) and Busch Gardens Boulevard (Exit 243).

The crash analysis indicated that the collision types included the following:

- 48% of the crashes were rear end.
- 30% of the crashes involved a fixed object.
- 10% of the crashes were sideswipe crashes involving vehicles traveling in the same direction.
- 3% of the crashes were angle, non-collision, and deer incidents, each with approximately 125 crashes per type.
- 3% of the crashes were considered miscellaneous.

Crash rates were calculated for the I-64 corridor and compared to the statewide average for other interstate facilities. The most recent statewide average available (2008) for interstate roads indicated a rate of 72 crashes per 100 million vehicle miles traveled. **Table 22** lists the crash rates calculated by direction for each one-mile long segment. The "Percentage Comparison to Statewide Average" is the segment crash rate divided by the statewide average (72). Rates above the statewide average are bolded in **Table 22** and shown in **Figure 6**.

Table 22: Crash Rates above the Statewide Average per Mile Segment

| Segment | Locality | Crash Rate (per 100 million vehicle miles traveled) | | Percentage Comparison to Statewide Average | | |
|--------------|------------------|---|-----------|---|-----------|--|
| | | Eastbound | Westbound | Eastbound | Westbound | |
| MP 191 - 192 | Richmond | 85 | 261 | 1.2 | 3.6 | |
| MP 192 - 193 | Richmond/Henrico | 79 | 161 | 1.1 | 2.2 | |
| MP 193 - 194 | Richmond/Henrico | 88 | 67 | 1.2 | 0.9 | |
| MP 194 - 195 | Henrico | 43 | 52 | 0.6 | 0.7 | |
| MP 195 - 196 | Henrico | 48 | 51 | 0.7 | 0.7 | |
| MP 196 - 197 | Henrico | 51 | 34 | 0.7 | 0.5 | |
| MP 197 - 198 | Henrico | 115 | 85 | 1.6 | 1.2 | |
| MP 198 - 199 | Henrico | 47 | 48 | 0.7 | 0.7 | |
| MP 199 - 200 | Henrico | 43 | 29 | 0.6 | 0.4 | |
| MP 200 - 201 | Henrico | 52 | 52 | 0.7 | 0.7 | |
| MP 201 - 202 | Henrico | 47 | 27 | 0.7 | 0.4 | |
| MP 202 - 203 | Henrico | 64 | 33 | 0.9 | 0.5 | |
| MP 203 - 204 | Henrico | 56 | 46 | 0.8 | 0.6 | |
| MP 204 - 205 | New Kent | 33 | 51 | 0.5 | 0.7 | |
| MP 205 - 206 | New Kent | 52 | 113 | 0.7 | 1.6 | |
| MP 206 - 207 | New Kent | 30 | 54 | 0.4 | 0.8 | |



| Segment | Locality | | n Rate hicle miles traveled) | | omparison to e Average |
|------------------------------|--------------|-----------|------------------------------|-----------|---------------------------|
| | | Eastbound | Westbound | Eastbound | Westbound |
| MP 207 - 208 | New Kent | 24 | 45 | 0.3 | 0.6 |
| MP 208 - 209 | New Kent | 30 | 33 | 0.4 | 0.5 |
| MP 209 - 210 | New Kent | 12 | 45 | 0.2 | 0.6 |
| MP 210 - 211 | New Kent | 48 | 24 | 0.7 | 0.3 |
| MP 211 - 212 | New Kent | 39 | 57 | 0.5 | 0.8 |
| MP 212 - 213 | New Kent | 32 | 30 | 0.4 | 0.4 |
| MP 213 - 214 | New Kent | 26 | 33 | 0.4 | 0.5 |
| MP 214 - 215 | New Kent | 42 | 78 | 0.6 | 1.1 |
| MP 215 - 216 | New Kent | 18 | 37 | 0.3 | 0.5 |
| MP 216 - 217 | New Kent | 12 | 21 | 0.2 | 0.3 |
| MP 217 - 218 | New Kent | 21 | 31 | 0.3 | 0.4 |
| MP 218 - 219 | New Kent | 15 | 34 | 0.2 | 0.5 |
| MP 219 - 220 | New Kent | 15 | 70 | 0.2 | 1.0 |
| MP 220 - 221 | New Kent | 19 | 36 | 0.3 | 0.5 |
| MP 221 - 222 | New Kent | 21 | 21 | 0.3 | 0.3 |
| MP 222 - 223 | New Kent | 21 | 28 | 0.3 | 0.4 |
| MP 223 - 224 | New Kent | 31 7 | 35 | 0.4 | 0.5 |
| MP 224 - 225 | York | · | 21 | 0.1 | 0.3 |
| MP 225 - 226 MP 226 - 227 | York York | 34 27 | 21 24 | 0.5 | 0.3 |
| MP 226 - 227 MP 227 - 228 | York | 25 | 47 | 0.4 | 0.3 |
| MP 228 - 229 | York | 28 | 13 | 0.4 | 0.7 |
| MP 229 - 230 | York | 38 | 22 | 0.5 | 0.3 |
| MP 230 - 231 | York | 34 | 22 | 0.5 | 0.3 |
| MP 231 - 232 | York | 53 | 36 | 0.7 | 0.5 |
| MP 232 - 233 | York | 39 | 34 | 0.5 | 0.5 |
| MP 233 - 234 | York | 14 | 11 | 0.2 | 0.2 |
| MP 234 - 235 | York | 27 | 48 | 0.4 | 0.7 |
| MP 235 - 236 | York | 6 | 21 | 0.1 | 0.3 |
| MP 236 - 237 | York | 35 | 36 | 0.5 | 0.5 |
| MP 237 - 238 | York | 68 | 30 | 0.9 | 0.4 |
| MP 238 - 239 | York | 104 | 65 | 1.4 | 0.9 |
| MP 239 - 240 | York | 26 | 98 | 0.4 | 1.4 |
| MP 240 - 241 | York | 14 | 40 | 0.2 | 0.6 |
| MP 241 - 242 | York | 88 | 26 | 1.2 | 0.4 |
| MP 242 - 243 | York | 90 | 105 | 1.3 | 1.5 |
| MP 243 - 244 | York | 72 | 43 | 1.0 | 0.6 |
| MP 244 - 245 | James City | 54 | 81 | 0.8 | 1.1 |
| MP 245 - 246 | James City | 52 | 102 | 0.7 | 1.4 |
| MP 246 - 247 | James City | 122 | 98 | 1.7 | 1.4 |
| MP 247 - 248 | Newport News | 188 | 168 | 2.6 | 2.3 |
| MP 248 - 249 | Newport News | 89 | 73 | 1.2 | 1.0 |
| MP 249 - 250 | Newport News | 156 | 36 | 2.2 | 0.5 |



| Segment | Locality | | n Rate hicle miles traveled) | Percentage Comparison to Statewide Average | | |
|-------------------|-----------------------------|-----------|------------------------------|---|-----------|--|
| | | Eastbound | Westbound | Eastbound | Westbound | |
| MP 250 - 251 | Newport News | 317 | 268 | 4.4 | 3.7 | |
| MP 251 - 252 | Newport News | 87 | 175 | 1.2 | 2.4 | |
| MP 252 - 253 | Newport News | 55 | 68 | 0.8 | 0.9 | |
| MP 253 - 254 | Newport News | 38 | 103 | 0.5 | 1.4 | |
| MP 254 - 255 | Newport News | 36 | 103 | 0.5 | 1.4 | |
| MP 255 - 256 | Newport News | 39 | 198 | 0.5 | 2.8 | |
| MP 256 - 257 | Newport News | 42 | 43 | 0.6 | 0.6 | |
| MP 257 - 258 | Newport News | 21 | 63 | 0.3 | 0.9 | |
| MP 258 - 259 | Newport News | 71 | 99 | 1.0 | 1.4 | |
| MP 259 - 260 | Hampton | 34 | 43 | 0.5 | 0.6 | |
| MP 260 - 261 | Hampton | 46 | 24 | 0.6 | 0.3 | |
| MP 261 - 262 | Hampton | 75 | 63 | 1.0 | 0.9 | |
| MP 262 - 263 | Hampton | 153 | 49 | 2.1 | 0.7 | |
| MP 263 - 264 | Hampton | 52 | 98 | 0.7 | 1.4 | |
| Course VDOT State | wide Creek Detahase 2008 20 | 010 | | | | |

Source: VDOT Statewide Crash Database, 2008-2010

Higher crash rates predominately occurred in the areas of the corridor with deficient LOS, including the Richmond area and the section from Williamsburg east to Exit 264. Nearly 50% of the crashes along the entire corridor were rear-end crashes, with an even higher percentage of rear-ends, 50 to 85%, in the segments with deficient LOS. Changes in speed and stop and go traffic are often contributing factors to rear-end crashes.

In addition to the mainline crashes, each interchange and associated at-grade intersection was reviewed to identify where high numbers of crashes were occurring. **Table 23** notes ramps and intersections where a high number of crashes (greater than 10) occurred over the three year period from 2008 to 2010.

Similar to the I-64 mainline data, the higher crashes occurred in the congested areas of the corridor. Exits 250 and 255 had mainline crashes more than twice the statewide average and a high number of ramp/intersection crashes. Based on VDOT's Statewide Crash Database (2008-2010), the majority of ramp crashes occurred at the merge/diverge area with I-64 mainline or with the merge/diverge of the adjacent street.

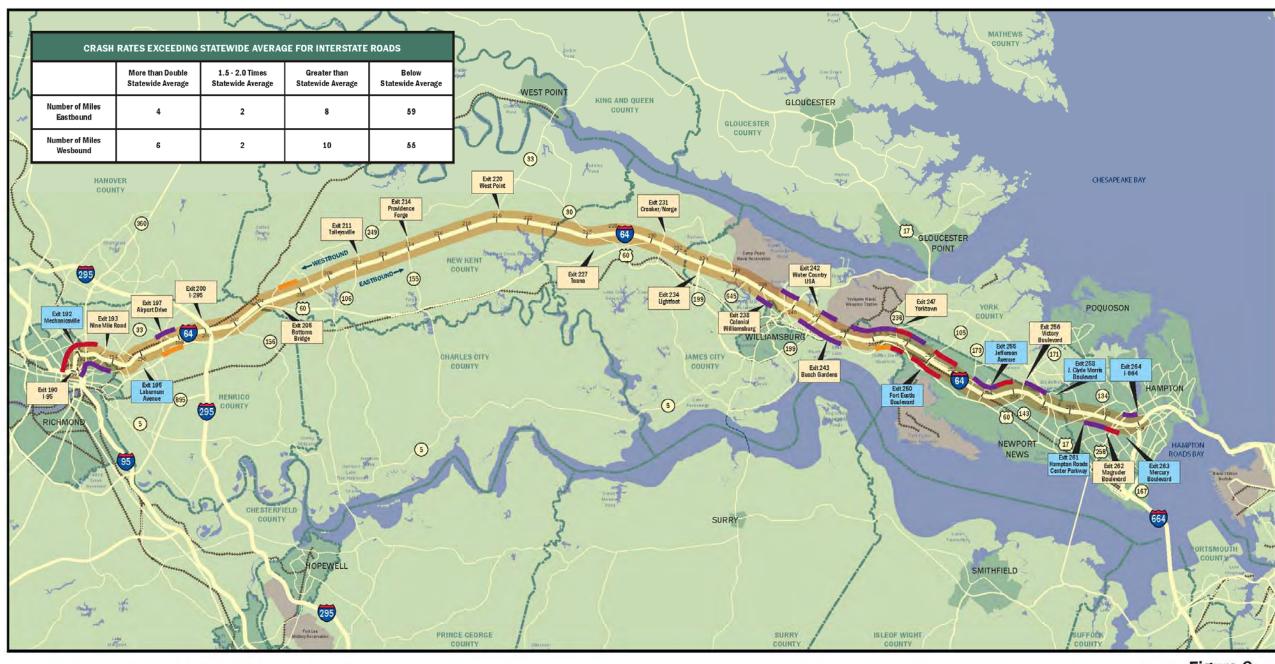


Table 23: Ramps and Intersections with a High Number of Crashes (Greater than 10)

| Exit | Locality | Ramp/Intersection | Number of Crashes | Comments |
|------|-----------------|--|----------------------|---|
| 192 | Richmond | Route 360 and I-64 WB off- ramp/Magnolia St intersection | 17 | |
| 195 | Henrico | Laburnum Ave and I-64 EB ramps | 17 | |
| 195 | Henrico | Laburnum Ave and I-64 WB ramps | 13 | |
| 250 | Newport News | I-64 EB to Route 105 EB off-ramp (loop ramp) | 15 | Majority of crashes fixed object – off road |
| 250 | Newport News | Ft. Eustis Blvd (Route 105) and Jefferson Ave (Route 143) intersection | 20 | High proportion of rear- end crashes |
| 255 | Newport News | I-64 WB off-ramp to Route 143 WB | 24 | |
| 255 | Newport News | Jefferson Ave (Route 143) and Wal-Mart Way/Brick Kiln Blvd intersection | 47 | |
| 258 | Newport News | On-ramp from US 17 NB to I-64 WB | 11 | |
| 261 | Hampton | I-64 EB off-ramp to Hampton Roads Center Pkwy WB (loop ramp) | 11 | |
| 261 | Hampton | I-64 WB off-ramp to Hampton Roads Center Pkwy WB (loop ramp) | 17 | |
| 263 | Hampton | I-64 EB off-ramp to Route 258 EB | 19 | |
| 263 | Hampton | I-64 WB on-ramp from Route 258 WB | 32 | 25 crashes at the diverge point |
| 264 | Hampton | I-64 EB to I-664 SB ramp | 16 | |
| 264 | Hampton | I-664 NB to I-64 EB ramp | 15 | |
| 264 | Hampton | I-664 NB to I-64 WB ramp | 13 | |

Source: VDOT Statewide Crash Database, 2008-2010







Ramps/Intersections with > 10 crashes from 2008 - 2010

Notes:

- Crashes data provided by VDOT from statewide database. Does not include crashes not reported to the state system.
- Statewide average crash rate is based on VDOT analysis of crashes that occurred on all Virginia interstates in the year 2008.
- 3. Crash rates calculated per one-mile segment.

Figure 6
Crash Rates Above the
Statewide Average per Direction
2008 – 2010 Crashes





E. Geometric Conditions Review

When I-64 was constructed in the 1960s, it was designed for considerably less traffic than it currently experiences and was based on the roadway design standards of that time. At the time, little was known about safety requirements for high-capacity and high-speed facilities. As time has passed, the data has accumulated and roadway design standards have been revised based on the knowledge gained.

For this reason, there are areas of the I-64 corridor which are deficient based on today's standards for clear zone widths, side slope grading requirements, and shoulder widths. For example, the clear zone requirements for a road which services 5,000 vehicles per day is less than a road which services 100,000 vehicles per day, due to the nature of the traffic flow. Also, as speeds increase along the corridor, sight distance requirements grow substantially, which leads to deficiencies based on current design standards compared to design standards at the time I-64 was initially constructed in the 1960s.

The following sections further describe the identified roadway deficiencies for the I-64 mainline, the 25 existing interchange locations and the major bridge structures which are on or cross over I-64.

1. I-64 Mainline

Due to changes in design standards since the corridor was constructed, there are a few locations along the I-64 corridor which do not meet the current <u>American Association of State Highway and Transportation Officials</u> (AASHTO) and VDOT requirements for mainline interstate geometry. In particular, there are a few existing vertical curve deficiencies, as shown in 22, however, there are no horizontal curves along the corridor that currently fall below the minimum radius threshold. It should be noted, however, that several crest vertical curves narrowly meet the minimum requirements for stopping sight distance (SSD) of 820 feet for a 75 mph design speed (rural interstate), or 730 feet for a 70 mph design speed (urban interstate). **Table 24** includes the tabulation of vertical geometry deficiencies throughout the corridor.

Table 24: Locations with Deficient Vertical Geometry

| Mile Marker | Design Speed (mph) | Curve Length (feet) | Curve Type | Required SSD (feet) | Actual SSD (feet) | Notes |
|-------------------|--------------------------|---------------------------|---------------|------------------------|----------------------|-----------------|
| 238 EB | 75 | 700 | Sag | NA | NA | - |
| 243 EB | 70 | 1000 | Crest | 730 | 699 | - |
| 258.5 EB | 70 | 1400 | Crest | 730 | 720 | I-64 over US 17 |
| 258.5 WB | 70 | 1400 | Crest | 730 | 719 | I-64 over US 17 |
| Source: Data meas | sured from VDOT C | GIS Mapping, 2011 | | | | |







LEGEND

= Substandard Vertical Clearance

♦ = Substandard Interchange

= Substandard Vertical Curve

Figure 7 Roadway Deficiencies





2. Interchanges

As with the mainline, due to similar changes in design standards over the past number of years, there are several interchanges which also do not meet the current AASHTO and VDOT requirements for interchange geometry. As depicted in **Figure 7**, 24 of the 25 interchanges are considered substandard according to today's standards. **Table 25** summarizes the geometric features of the existing interchanges which do not meet the current design criteria. If left unimproved, these deficiencies combined with increased traffic volumes will lead to additional back ups and safety concerns at interchange locations.

It should be noted that required SSD for interchange ramps is dependent on several factors, including ramp design speed, vertical and horizontal curvature, and stopping conditions at the ramp terminal (i.e. full-stop vs. free-flow). The interchanges along the corridor were evaluated on a case-by-case basis, and the results for SSD deficiencies are shown in the **Table 25**.

Table 25: Interchanges with Deficient Geometry

| Deficient Feature | Minimum Standard (feet) | Number of Locations with Deficiencies | Exit Number |
|------------------------|-------------------------------|---|---|
| Acceleration Length | 1200 | 40 | 192, 193, 195, 197, 200, 205, 211, 214, 220, 227, 231, 234, 238, 242, 247, 250, 255, 256, 258, 261, 263 |
| Deceleration Length | 800 | 36 | 192, 193, 195, 197, 200, 205, 211, 214, 220, 227, 231, 234, 238, 242, 243, 247, 250, 256, 258, 261 |
| Taper Length | 300 | 15 | 197, 238, 247, 250, 258, 261, 263 |
| Weave Length | 1200 | 37 | 190, 192, 193, 197, 200, 231, 234, 242, 250, 255, 256, 258, 261 |
| Ramp SSD | Varies | 28 | 190, 193, 195, 197, 200, 205, 211, 214, 220, 227, 231, 234, 238, 242, 247, 250 |

Source: Data measured from VDOT GIS Mapping, 2011

3. Structures

There are 109 major bridge structures along the I-64 study corridor. Of this total, 47 are located on the I-64 mainline and 62 cross over the interstate. The oldest structures were constructed in 1964 with the newest structure constructed in 2005. In addition, 24 of these structures have been reconstructed during the timeframe of 1977 to 2006. Older bridges were constructed with the expectation that after approximately 30 years they would be in need of reconstruction (refurbishment) and that in approximately another 20 to 30 years, the structure would then need to be totally replaced.

Bridges are evaluated using a measurement called the sufficiency rating. This measurement is represented by a percentage varying from 0-100, with 100 being excellent condition. The sufficiency rating takes into account aspects of the structure such as its structural adequacy and safety, necessity of the structure to the surrounding community, and serviceability and functional obsolescence. A bridge is typically considered eligible for federal funds for reconstruction if its sufficiency rating falls below 80 and is typically eligible for funds for replacement when the sufficiency rating falls below 50.

Due to the current traffic volumes creating wear and tear on the infrastructure within the I-64 study corridor, there are a number of structures that are continuing to deteriorate. The average rating is 80.1, which indicates that a number of the structures may be at or nearing the point of needing reconstruction.



In addition, there are several bridges crossing over the interstate which do not have the required vertical clearances per AASHTO and VDOT interstate design standards which require that a minimum of 16.5 feet of vertical clearance be present for overhead structures. **Table 26** summarizes which structures do not meet the required standards and **Figure 7** indicates each structure's approximate location.

Table 26: Existing Bridges with Deficient Vertical Clearances

| Clearance | Number of Structures Over I-64 | Virginia Structure Number |
|---------------------|--------------------------------------|---|
| <16.5 feet | 12 | 063-1031(2), 063-1034, 063-1035, 047-6026, 047-1030, 047-1031, 099-6004, 099-6002, 121-2202, 114-8000, 099-1027 |
| Source: VDOT Bridge | Inspection Reports, 201 | 1 |

IV. Analysis of Future No-Build Conditions

A. Future Traffic Conditions

The demand for travel between and within the Richmond and Hampton Roads areas is expected to continue to increase over the coming years. This increase in demand is projected to lead to an increased number of vehicles using the I-64 corridor, exacerbating the potential for delays and crashes already experienced under the current conditions. The following factors, many of which are interrelated, contribute to the future needs for improvements to the study corridor:

- Projected increases in traffic volumes.
- Continued aging of the mainline and structures along the corridor.
- Increased safety considerations resulting from increased traffic volumes.
- Access to, from and between military facilities and installations during peak hours of travel and times of emergency.
- Future port expansion increasing the demand for freight transportation.
- Local and regional plans for economic development.

Documentation of the methodologies used to model future travel demand and estimate I-64 growth rates was detailed in a technical memo finalized on November 11, 2011 (**Appendix E**). The 2040 No-Build Balanced volumes for the I-64 mainline freeway segments, ramps, and cross-street intersections are given in **Appendix F**.

As previously stated in the base conditions section, it was determined that multiple conditions exist that create numerous needs for improvements within the I-64 corridor. These identified needs will continue into the future and are projected to worsen over time. Further descriptions of each of these identified needs are presented as follows.

1. Development of Non-Summer Conditions No-Build Forecasts

2040 traffic volumes were developed using the Tidewater Super-Regional travel demand model. The Tidewater model combines models from three areas:

- The Richmond Area and Tri-Cities (Petersburg/Hopewell/Colonial Heights) Metropolitan Planning Organization (MPO) Areas.
- The Hampton Roads TPO Area.
- The region between the two MPO/TPO areas, including much of Southside Virginia and the area surrounding the I-64 corridor between Richmond and Newport News.



This Tidewater model is used to assign "end-to-end" trips along the area's major roadways, including I-64 between Richmond and Hampton Roads. The model has a 2000 base year and 2034 horizon year, although the Richmond component of the model uses 2031 land use. The 2031 land use for the Richmond area was extrapolated to 2034 in order to have a consistent 2034 land use scenario.

The Tidewater model developed by VDOT and used for this study includes all other projects within the corridor that are on the Richmond or Hampton Roads MPO/TPO's Constrained Long Range Plans, as well as the Rural Long Range Transportation Plans for the Richmond and Hampton Roads Planning District Commissions. Those projects form a part of the Base conditions and the effects of these projects on I-64 traffic are accounted for in all 2040 No-Build analyses. Some of the major projects included on these Long-Range Plans include the following:

- The US 460 Bypass, a proposed toll road paralleling existing US 460 between Petersburg and Chesapeake.
- The proposed Stoney Run Parkway interchange on I-64 in Henrico County between Exits 193 (Nine Mile Road) and Exit 195 (Laburnum Avenue). (This project was deleted in the 2035 Constrained Long-Range Plan recently adopted by the Richmond Area MPO in July 2012. However this project is still included in the Tidewater model being used for this project.)
- Widening of I-64 between Exit 197 and Exit 220. (This project was deleted in the 2035 Constrained Long-Range Plan recently adopted by the Richmond Area MPO in July 2012. However this project is still included in the Tidewater model being used for this project.)
- The proposed Richmond-Hampton Roads passenger rail improvements, including the new rail service from Richmond through Petersburg to Norfolk.

Projects which are not included on the Constrained Long Range Plans are not included under the No-Build analyses for this study. Some major projects not included are:

- Potential widening of the Hamptons Road Bridge-Tunnel.
- Potential Patriot's Crossing or Third Crossing of the Hampton Roads Harbor.
- Potential I-64/Bland Blvd interchange.

While the Tidewater model horizon year is 2034, the design year for the I-64 Study is 2040. Therefore, additional steps were necessary to develop 2040 forecasts from the 2034 model output. The 2040 forecasts were developed from 2034 model output by applying simple growth rates.

Growth rates were developed by comparing link output from the base (2000) models to the future (2034) models. An annual growth rate was computed from these link comparisons, which was then be applied to the 2034 Average Daily Volumes to project to 2040. Historic traffic volume growth along the I-64 corridor was also evaluated by reviewing the official VDOT traffic volume publications for the years 1975 through 2010 (at five-year intervals). Annual growth for each five-year interval was computed for major links within the study area, as well as overall annual growth for the entire period. These historic reviews served as a reasonableness check on growth rates developed from other sources.

Approximate boundaries of urban and rural areas were identified. The urban areas were selected from I-95 to I-295 in the Richmond area, and from US 17 (Victory Boulevard) to the HRBT in the Hampton Roads area. These areas were also selected as the threshold for urban and rural growth areas.

After the three areas were selected, the growth rates projected by the Tidewater model were averaged and rounded to the nearest 0.1 percent. The model was selected as the primary source for the overall growth rates, because it is a forward-looking tool (unlike the historic growth rates), and incorporates approved land use forecasts and accepted modeling protocols. Historic growth rates should be used with caution, in



particular along extended projects such as the I-64 Peninsula Study EIS, because they are less able to factor in future development patterns, capacity constraints and diversion to other facilities, new roadway projects, and other factors that influence traffic patterns (such as tolls). However, they serve as a reasonableness check on growth rates developed from other sources.

The procedure outlined above yielded the following proposed annual growth rates for the mainline links:

Richmond urban area: 0.7%/year
 Peninsula rural area: 1.5%/year
 Hampton Roads urban area: 1.1%/year

Upon computing the raw 2034 volumes, link volumes were post-processed using the methods described in NCHRP Report 255⁶ to obtain refined daily link volumes. Using the K-factors⁷ established for existing conditions as a starting point, peak hour volumes for future conditions were developed. In addition, manual adjustments were made to the daily volumes for consistency with volume projections from other studies in the area, most notably the I-95/I-64 Overlap Study and VDOT's statewide planning projections. These projections were also compared for consistency with 2040 Projections from the I-64 HRBT EIS at the eastern end of the study area.

Both daily forecasts as well as peak hour forecasts were balanced for the 2040 No-Build scenario. The 2040 No-Build Balanced Non-Summer Weekday volumes for the I-64 mainline freeway segments, ramps, and cross-street intersections are given in **Appendix F**.

As shown in **Figure 8**, 2040 No-Build traffic volumes on I-64 are projected to range from 55,300 ADT between Exits 197 and 200 to 199,200 ADT between Exits 262 and 263. Traffic volumes are generally highest between Exits 190 and 192 in the City of Richmond and between Exits 255 and 264 in Newport News and Hampton.

2. Development of Summer Conditions No-Build Forecast

Summer volumes were developed for those segments where summer Saturday and Sunday peak counts were conducted in the eastern portion of the corridor. Because summer daily volumes were not available for these locations, and because the Tidewater model does not forecast summer conditions, an alternate approach was taken to estimate 2040 summer volumes.

I-64 mainline traffic data available in the vicinity of the areas for which summer volumes were developed were reviewed to estimate historic Saturday and Sunday daily volume growth. These growth rates were applied to the 2011 weekend data. In addition, future summer volumes were estimated by applying the difference in 2011 peak and summer volumes to the 2040 No-Build peak data. The results from these two approaches were averaged and manually balanced as necessary to obtain final 2040 No-Build summer volumes.

The 2040 No-Build Balanced Summer Weekend Daytime and Nighttime volumes for the I-64 mainline freeway segments, ramps, and cross-street intersections at Exit 220 and Exists 234-243 are given in **Appendix F**.

National Cooperative Highway Research Program (NCHRP) Report 255, <u>Highway Traffic Data For Urbanized Area Project Planning And Design</u>
 A "K-Factor" is defined as the ratio of the volume during the peak hour of the day to the volume over the course of

⁷ A "K-Factor" is defined as the ratio of the volume during the peak hour of the day to the volume over the course of the entire 24-hour day. So if the volume is 2,200 vehicles/hour (vph) during the PM peak hour and 25,000 vehicles/day (vpd) during the whole day, the K-Factor would be 8.8%.



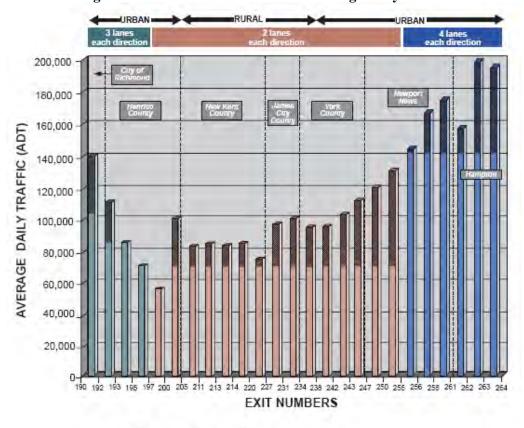


Figure 8: 2040 No-Build Conditions Average Daily Traffic

Exceeds stable traffic flow ADT ranges

B. Existing and Projected Freight Volumes

1. Summary of Findings

Railroad and freight barge services are among the most important factors that would affect truck as well as all vehicular traffic on I-64. Based on available resources, this study synthesized the potential impacts of these factors in the No-Build alternative and Build Alternative. **Table 27** defines the existing trips along the CSX Peninsula Branch and the I-64 Barge service, the estimated increase in trips due to the findings of this study, and the projected daily trips that would be removed from I-64. Findings from the study include:

- An improved passenger rail service between Richmond and Newport News would reduce passenger car traffic on I-64.
- The freight train traffic on the CSX Peninsula Branch is projected to increase by 70% between 2010 and 2040. This increase may affect the potential of improving passenger service on this line, but would have a limited impact on truck traffic on I-64.
- The Port of Virginia would potentially see an increase of cargo traffic by 400% 450% in 2040, partially caused by the Panama Canal Expansion. Though Norfolk Southern's Heartland Corridor and CSX's National Gateway would carry a substantial amount of container traffic from the Port, considerable increases in truck traffic would still happen on I-64.
- The expanding container barge service would reduce truck traffic on I-64.
- Other factors, such as improvements on US-460, would potentially share the burden of increasing truck traffic. But their impacts are not specified unless they are designated as No-Build projects.



| Mode | Service | | of Daily s/Barge | Number of Daily Trips |
|----------------------------|--------------------------------|-----------------------|---------------------|-------------------------------|
| | | Existing | 2040 | Reduced on I-64 (2040) |
| CSX Peninsula | Freight Rail (Coal) | 12 - 15 | 21 - 26 | NA* |
| Branch | Passenger Rail | 4 | 6 | 1,783 cars |
| Freight Barge | To Richmond and Baltimore | 1 | 4 | 285 trucks |
| * The CSX Peninsula Branch | carries approximately 99% of c | oal, which isn't tran | sported by truck | |

Table 27: Number of Daily Trains and Barge Trips in 2010 and 2040

2. CSX Peninsula Branch Passenger and Freight Improvements

The CSX Peninsula Branch parallels I-64 and is mostly a single track corridor. The branch currently operates four (4) Amtrak passenger rail trains per day between Richmond and Newport News, 12-15 CSX freight trains between Fulton and Newport News, and mainly handles coal trains that are up to 1.5 miles in length and move far slower than Amtrak.

In the Richmond/Hampton Roads Passenger Rail Project Tier I Final EIS (adopted in August 2012), the No Action alternative would provide a total of three round-trip trains that operate on the Peninsula/CSX route. This scenario was adopted as the condition of passenger rail service along the I-64 corridor in the 2040 No Build alternative. The No Action alternative proposes only minor capacity improvements, as well as the third additional round-trip as is in the Status Quo, on the Peninsula Branch, with no costs associated with the Tier I FEIS. Passenger trains would run at 79 mph, with 72% of on-time performance.

The Tier I Final EIS projected substantial growth of ridership (2025) over the Status Quo and No Action alternatives; however, the ridership projections combined both the Peninsula and Southside corridors together as well as broke the two corridors out. As shown in **Table 28**, the Tier I Final EIS projects a growth in the Peninsula corridor when adding a third daily round-trip. The ridership model projected that the Peninsula corridor, with a 3rd daily round-trip train, increased ridership by a range of 180,200 to 202,500 per year. This equates to be approximately 1,166 daily riders (2025).

Based on the license plate survey conducted as part of the Tier I Final EIS, it would require 1,750 passengers to remove 1,000 cars from the congested highway network. The number of passenger cars reduced on the I-64 corridor would be 90,605 in 2007, 108,392 in 2010, and 650,815 in 2040, or 248, 297, and 1,783 cars per day respectively. Approximately, it means that in 2007, 0.2% of total average daily traffic across the Hampton/Newport News city limit was diverted to passenger rail. It should be noted that these numbers can be seen as the reduction of vehicle traffic in every segment of I-64 between Richmond and Hampton Roads.

Freight Rail Investing In Virginia (CSX and NS, 2005) shows that both the CSX and NS carry export coal to/from Hampton and Norfolk Region. According to FAF3, in 2007, 99.9% of export coal was shipped to the region by rail. This proportion would not be changed in 2040, whereas the total tonnage of export coal increases from 36.9 million tons to 62.7 million tons. The analysis assumes both CSX and NS would improve their freight service along the two corridors (CSX Peninsula and NS "N" Line), and thus keeping the Class I railroad market share unchanged in 2040. Most of CSX Peninsula trains carry export coal. It means CSX's freight trains on the Peninsula Branch would increase by 70% between 2007 and 2040, from 12-15 trains per day to 21-26 trains per day. Figure 9 displays the CSX export coal route from the Hampton Roads area, while Figure 10 displays the NS export coal route from the Hampton Roads area.

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⁸ Freight Rail Investing In Virginia, Pete Shudtz and Dave Brown, CSX and NS, 2005



| | Status Quo 79 | No Action 79 mph | Preferred Alternative |
|------------------------|------------------|---------------------|--------------------------|
| | mph | /> mpn | 90 mph |
| Peninsula/CSXT high | 262,300 | 464,800 | 223,400 |
| Peninsula/CSXT low | 245,500 | 425,700 | 212,500 |
| Southside/NS high | 0 | 0 | 886,700 |
| Southside/NS low | 0 | 0 | 727,100 |
| Total High | 262,300 | 464,800 | 1,110,100 |
| Total Low | 245,500 | 425,700 | 939,600 |
| Difference fro | m 79 mph S | tatus Quo Alt | ternative |
| High | | 202,500 | 847,800 |
| Low | | 180,200 | 694,100 |
| Difference fro | om 79 mph N | No Action Alt | ernative |
| High | | | 645,300 |
| Low | | | 513,900 |

Table 28: Estimated Range of Probable Passenger Rail Ridership (2025)

Source: Tier I Final EIS Richmond/Hampton Roads Passenger Rail Project, Chapter 3 Affected Environment and Environmental Consequences.

As the figures show, these Class I railroads transport coal across Virginia from the heart of coal producing regions.

However, because export coal would not be carried by trucks in the future, this market would be exclusively shipped by rail, thus not providing a reduction in truck traffic on the I-64 corridor. No diversion between rail and truck is expected, which means rail improvements on the Peninsula Branch would have little impact on the I-64 truck traffic.

3. Norfolk Southern "N" Line Improvements

The Norfolk Southern "N" Line parallels US-460 and is mostly a double track corridor. The branch currently carries approximately 50 daily freight trains operating between Petersburg and Newport News.

Freight rail service along the NS "N" Line is a heavily utilized corridor. In order to add passenger rail service, Norfolk Southern and the Virginia Department of Rail and Public Transportation have agreed upon a Multi-Year Funding Agreement for infrastructure improvements relating to a proposed passenger rail service between Norfolk and Petersburg, VA.

Due to the planned passenger rail service between Norfolk, Petersburg, and Richmond, the route will be an additional passenger rail service for Amtrak in Virginia. The improvements include upgrading signaling, track extensions and connections, passenger train turning and servicing facilities, and a track and platform near Norfolk's Harbor Park for the passenger train. In addition, a new connection between Norfolk Southern and CSXT tracks near Petersburg will be constructed. Once the improvements are completed, the passenger rail service will provide one round trip per day operating at speeds up to 79 mph.



As the analysis shows, the NS "N" Line would not have a direct correlation with truck traffic along I-64. With the introduction of passenger rail service to an existing heavily utilized freight rail service, the capacity along the NS "N" Line would not have much expansion capability.

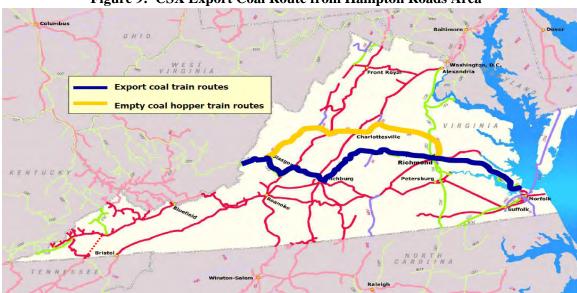
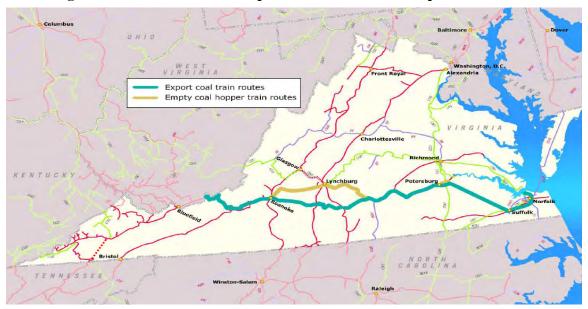


Figure 9: CSX Export Coal Route from Hampton Roads Area







4. Port of Virginia Improvements

The major ports facilities in Virginia are owned and operated by the Virginia Port Authority (VPA), an agency of the Commonwealth of Virginia. VPA owns four general cargo terminals: Norfolk International Terminals, Portsmouth Marine Terminal, Newport News Marine Terminal, and the Virginia Inland Port in Front Royal. According to the VPA, the Port of Virginia (Port) is one of the largest ports on the east coast. The Port is the third busiest container port on the east coast, and the eighth largest in the U.S. VPA is served by more than 75 steamship lines with sailings to over 250 ports in 100 overseas locations, and is within a one-day drive of over 2/3 of the U.S. population.

Containers make up approximately 97% to 98.5% of general cargo tonnage at Port of Virginia and represent the trend of traffic at the Port. In the Virginia Port Authority 2040 Master Plan, a 5.2% of average growth of US containerized trade is cited (provided by Global Insight 2007 Cargo Forecast). It is expected that Virginia will be ahead of the national forecast, due to the factors such as the opening of the Heartland Corridor. In 2011, 30% of the Port of Virginia cargo was moved via rail, 66% by truck, and 4% by barge.

a. Barge Service

The barge traffic from the Port is mainly to the Port of Baltimore. Based on the VPA 2040 Master Plan, the VPA worked with private interests to launch a new barge service in December 2008 between Norfolk and Richmond. When fully operational, the 64 Express barge service was expected to remove 58,000 trucks from Virginia's roads. It means approximately there are 160 less trucks on the roads every day.

Based on the Port Authority figures⁹, in 2011, 4% of cargo was moved by barges, which are approximately 43,200 TEU¹⁰ and equivalent to 28,800 trucks per year or 79 trucks per day (1.5 TEU/truck). If the barge service continues to grow in line with the total demand, in 2040, more than 191,000 TEU would be moved by barges, which is equivalent to 343 trucks per day.

A VPA presentation on port-related truck traffic shows that, among the two competitive routes, 83% of port trucks choose I-64 while 17% use US 460. The study assumes that the trucks carrying commodities diverted by barge would use the same proportions, and the barge service would reduce 66 trucks on I-64 and 13 trucks on US-460 on a daily basis in 2011. In 2040, approximately 285 trucks would be eliminated on I-64, and 58 trucks on US 460. Respectively, the frequency of barge service would be increased from one trip per weekday to four per weekday.

b. Rail Improvements

In 2010 Norfolk Southern opened the Heartland Corridor, providing a faster double stack rail route to serve the Midwest. CSX is working to increase the speed and capacity of its north-south rail routes that are served from Virginia through their National Gateway project.

The A.P. Moller-Maersk (APM) Terminal in Portsmouth and the Norfolk International Terminal (NIT) in Norfolk transport the majority of container shipments. CSX ships mostly coal and bulk materials, with very limited containers and box cars for double stacking. This is due to the limited container capability at Newport News Marine Termal.

NIT's Rail Yard Expansion project includes the construction of new railroad track. Phase I will add approximately 12,000 feet of new track and will increase the rail capacity by 50%. The estimated

 $^{^9~}http://blog.portofvirginia.com/my-blog/2010/08/64-express-barge-service-marks-100th-sailing.html$

¹⁰ Twenty-Foot Equivalent Units (TEUs) is a unit of measurement used to describe freight tonnage. One TEU generally equals the capacity of one standard 20-foot container that is used throughout the freight industry to facility intermodal shipping of containers on cargo ships, freight trains, and trucks.



completion date of phase I was August 2008 with an estimated total project cost of \$16.5 million. Phase 2 will add an additional 12,000 feet of track and will be complete by summer 2010.

VPA's Marketing Department has been working in coordination with Norfolk Southern to market and establish a daily intermodal service linking the Port of Virginia to Harrisburg, PA, where a major intermodal center is located. This service is close to becoming operational as pricing is now being put in the Norfolk Southern contracts with the various shipping lines. Once established, this service will allow the Port of Virginia to expand its geographic market reach into central Pennsylvania, which today is primarily served by truck to/from the ports of NY/NJ and Baltimore.

The Craney Island Terminal will open in 2025 and is intended to be built out by 2040, operating at a maximum 5,000 TEU's. Commonwealth Rail provides service from APM, NIT and the future Craney Island Terminal and transfers to either CSX or NS, depending on the final destination.

In 2014, the Panama Canal is expected to open the new "third set of locks" which will enable the world's largest container ships more direct access from Asia to the U.S. East Coast. The Port of Virginia will become a first port of call and a major international hub with rail service east-west on Norfolk Southern and north-south on CSX. Containerized cargo demand was forecasted to increase by more than 400% by 2040.

With all these developments, it is expected that railroad improvements would enable NS and CSX to divert more intermodal traffic through the Heartland Corridor and the National Gateway, and thus mitigate the increase of truck traffic on the region's roads.

A large portion of truck traffic to/from the port and heading northwest would still use I-64. The VPA truck study projected 645 port trucks per day on I-64 west of Williamsburg in 2030. Based on this information and the VPA growth rate, this study estimates that, in 2040, there would be 1,071 port trucks on I-64, 222 trucks on US 460, and 1,097 trucks on US 58 on a daily basis. Unless the railroads could divert more trucks to rail, the truck traffic would substantially affect the LOS on these roads.

C. 2040 No-Build Capacity/LOS Analysis

The analyses of capacity and LOS for 2040 No-Build traffic conditions were conducted according to the methodologies of the HCM, as implemented using the HCS 2010 companion software. As stated previously, acceptable LOS grades for the I-64 corridor are LOS C or better for interstate facilities.

Operational analysis of capacity and LOS for the I-64 Study corridor were conducted for the following types of facilities:

- Basic Freeway Segments.
- Ramp Merges and Diverges.
- Weaving Segments.
- Signalized Intersections.
- Unsignalized Intersections.

A detailed technical memo outlining the selection of input parameters (**Appendix C**) was finalized on December 21, 2011.

1. Basic Freeway Segments

In general terms, a basic freeway segment is the part of a limited access highway that extends from one interchange to the next. Each direction of a freeway operates independently of the other; therefore, segments are defined separately for each direction—i.e., eastbound lanes are one segment; westbound



lanes are a separate segment. For the analysis of I-64 freeway segments, the corridor was divided into 27 eastbound segments and 27 westbound segments. **Table 8** defines the LOS for basic freeway segments according to vehicular density, which is defined in terms of passenger cars, per mile, per lane (pc/mi/ln). **Table 29** summarizes the freeway segment analysis of Weekday Non-Summer AM and PM peak hours for the entire corridor. **Table 30** summarizes the freeway segment analysis of Summer Daytime Saturday and Sunday peak hours in the vicinity of Williamsburg. **Table 31** summarizes the freeway segment analysis of Summer Nighttime Saturday and Sunday Peak hours in the vicinity of Busch Gardens.

The left side of each table describes exits, number of lanes, and traffic volumes that characterize each segment. The right side gives the LOS determined by applying the HCM methodology.

Compared to the existing levels of service, traffic operating conditions decline along the mainline during the 2040 design peak hour. During the Non-Summer Weekday AM peak hour, 24 of the 50 segments are expected to operate at a deficient LOS. In Eastbound direction, all 12 deficient segments are grouped between Toano (Exit 227) and Mercury Boulevard (Exit 263). Three of these segments are expected to exceed capacity and operate at a LOS F and are between Exit 247 and Exit 258. In the Westbound direction there are also deficient segments between Exit 190 and 193 as well as between Exit 200 and 205.

During the Non-Summer Weekday PM peak hour there are more intensive operational issues. Of the 50 segments analyzed, 35 are expected to operate at a deficient LOS. In the Eastbound direction, the three segments between Exit 190 and Exit 192, Exit 200 and 205, and Exit 250 and 255 exceed capacity and operate at a LOS F. In the Westbound direction, the most congested section is between Exit 243 and Exit 262 which predominantly operates at a LOS F and exceeds capacity.

Taking into account the direction deficiencies in opposite directions during the AM versus the PM peak hours, operational issues are likely due to commuter traffic. This problem is seen in the existing condition and only exacerbated by the increase in volume from 2011 to 2040. The most congested segments are between Exits 190-192 and Exits 200-205 Westbound in the AM and then returning Eastbound in the PM. This occurrence can be observed in the opposite direction between Exits 243-262 Eastbound in the AM and Westbound in the PM.

During the Summer Daytime peaks near Williamsburg, all of the 14 segments analyzed between Exits 214 and 247 operated at a LOS F during the Saturday peak. During the Sunday Daytime peak, all 14 segments analyzed operated at a deficient LOS, with 11 segments operating at a LOS F. During the Summer Nighttime peaks, 2 of the segments analyzed between Exits 242 and 247 operate at a deficient LOS. The segment between Exit 243 and Exit 247 Eastbound operates at a LOS D during the Saturday and a LOS E during the Sunday Peak.



Table 29: 2040 No-Build Freeway Segment Level of Service – Non-Summer Weekday Peak

| | | | | | 2040 No-Build Eastbound | | | | | | | 2040 No-Bui | ld Westbound | | |
|---------|-----------|-----------|-------|---------------------|-------------------------|---------|----------|----------------------|-----|--------------------|----------------------|-------------|--------------------|----------------------|--------------|
| Segment | From Exit | To Exit | Lanes | | AM Peak | | | PM Peak | | | AM Peak | | | PM Peak | |
| | | | | Volume ¹ | Density ² | LOS | Volume 1 | Density ² | LOS | Volume 1 | Density ² | LOS | Volume 1 | Density ² | LOS |
| 01 | 190 | 192 | 3 | 4,425 | 23.3 | С | 7,445 | 57.4 | F | 6,920 | 47.3 | ${f F}$ | 4,935 | 26.8 | D |
| 02 | 192 | 193 | 3 | 3,170 | 16.3 | В | 5,860 | 34.0 | D | 5,765 | 33.1 | D | 3,875 | 20.0 | C |
| 03 | 193 | 195 | 3 | 2,455 | 12.6 | В | 5,185 | 28.1 | D | 4,725 | 24.8 | C | 3,080 | 15.8 | В |
| 04 | 195 | 197 | 3 | 1,930 | 9.9 | A | 4,620 | 24.2 | С | 4,185 | 21.5 | C | 2,480 | 12.7 | В |
| 05 | 197 | 200 | 2 | 1,175 | 9.1 | A | 3,090 | 24.3 | C | 2,850 | 22.0 | C | 1,745 | 13.4 | В |
| 06 | 200 | 205 | 2 | 2,805 | 23.0 | C | 4,615 | 48.5 | F | 4,315 | 41.6 | E | 3,290 | 27.8 | D |
| 07 | 205 | 211 | 2 | 2,355 | 24.4 | С | 3,170 | 60.8 | D | 2,655 | 50.6 | C | 2,720 | 30.6 | C |
| 08 | 211 | rest area | 2 | 2,490 | 19.5 | С | 3,180 | 27.3 | D | 2,670 | 21.6 | C | 2,805 | 23.1 | С |
| 9 | rest area | 214 | 2 | 2,490 | 20.9 | C | 3,180 | 27.5 | D | 2,670 | 21.7 | C | 2,805 | 24.1 | C |
| 10 | 214 | 220 | 2 | 2,565 | 20.9 | C | 3,205 | 27.5 | D | 2,600 | 21.7 | C | 2,955 | 24.1 | C |
| 11 | 220 | 227 | 2 | 2,305 | 21.7 | C | 2,530 | 27.8 | C | 1,915 | 21.0 | В | 2,635 | 25.9 | C |
| 12 | 227 | 231 | 2 | 3,305 | 19.0 | D | 3,175 | 20.2 | D | 2,390 | 14.9 | C | 3,565 | 22.2 | D |
| 13 | 231 | 234 | 2 | 3,800 | 30.3 | ${f E}$ | 3,340 | 27.4 | D | 2,485 | 19.0 | C | 3,995 | 34.3 | ${f E}$ |
| 14 | 234 | 238 | 2 | 3,620 | 39.2 | ${f E}$ | 3,075 | 29.6 | D | 2,245 | 19.9 | В | 3,955 | 43.3 | ${f E}$ |
| 15 | 238 | 242 | 2 | 3,635 | 35.6 | D | 3,410 | 26.1 | D | 2,635 | 17.7 | C | 4,000 | 42.3 | \mathbf{E} |
| 16 | 242 | 243 | 2 | 4,055 | 31.9 | E | 3,535 | 28.0 | D | 3,070 | 20.5 | C | 4,110 | 37.3 | ${f E}$ |
| 17 | 243 | 247 | 2 | 4,165 | 38.7 | ${f E}$ | 3,605 | 29.5 | D | 3,660 | 24.5 | D | 4,665 | 39.3 | ${f F}$ |
| 18 | 247 | 250 | 2 | 5,040 | 40.8 | F | 4,105 | 30.4 | E | 3,970 | 31.3 | E | 4,970 | 52.4 | \mathbf{F} |
| 19 | 250 | 255 | 2 | 5,405 | 67.1 | F | 5,170 | 37.8 | F | 4,835 | 35.9 | ${f F}$ | 5,345 | 63.0 | \mathbf{F} |
| 20 | 255 | 256 | 4* | 5,599 ³ | 78.1 | D | 5,429 4 | 66.2 | D | 5,189 5 | 54.8 | D | 5,870 ⁶ | 74.7 | D |
| 21 | 256 | 258 | 4* | 7,329 ³ | 31.8 | F | 6,270 4 | 30.3 | E | 5,443 5 | 28.6 | D | 7,144 6 | 34.4 | \mathbf{F} |
| 22 | 258 | 261 | 4* | 6,231 ³ | 55.6 | ${f E}$ | 5,505 4 | 38.8 | D | 6,624 5 | 30.7 | E | 8,492 6 | 51.9 | F |
| 23E | 261 | 262 | 5* | 5,538 ³ | 38.3 | С | 4,793 4 | 31.0 | С | | 43.8 | | | 96.3 | |
| 23W | 261 | 262 | 4* | | 21.4 | | | 18.3 | | 5,582 5 | | D | 7,153 ⁶ | | F |
| 24 | 262 | 263 | 5* | $7,003^{\ 3}$ | | D | 6,223 4 | | C | 7,166 5 | 31.9 | D | 8,662 6 | 52.1 | ${f E}$ |
| 25E | 263 | 264 | 5 | 6,533 | 28.9 | С | 5,249 | 24.6 | В | | 30.1 | | | 41.6 | |
| 25W | 263 | 264 | 5* | | 19.9 | | | 16.0 | | 6,600 ⁵ | | D | 8,487 6 | | E |

Notes:

- Eastbound I-64, AM peak hour: 7%
- Eastbound I-64, PM peak hour: 5%
- Westbound I-64, AM peak hour: 4%
- Westbound I-64, PM peak hour: 8%

^{*} The number of lanes includes one HOV lane. Analysis on the non-HOV portion of these segments was conducted by reducing the number of lanes by one. Traffic volumes in the remaining through lanes were reduced as follows, according to VDOT traffic data.

¹ Volume is given as "vehicles per hour" (vph). AM Peak = Weekday morning peak hour (7:00 AM to 8:00 AM). PM Peak = Weekday afternoon peak hour (4:00 PM to 5:00 PM to 6:00 PM, whichever hourly volume was higher)

² Density is given as "vehicles per mile per lane" (pc/mi/ln).

³ Volume shown is a 7% reduction of the total directional segment volume, to account for removal of HOV lane traffic for purpose of analysis.

⁴ Volume shown is a 5% reduction of the total directional segment volume, to account for removal of HOV lane traffic for purpose of analysis.

⁵ Volume shown is a 4% reduction of the total directional segment volume, to account for removal of HOV lane traffic for purpose of analysis.

⁶ Volume shown is a 8% reduction of the total directional segment volume, to account for removal of HOV lane traffic for purpose of analysis.



Table 30: 2040 No-Build Freeway Segment Level of Service – Summer Peak, Daytime near Williamsburg

| | | | | 2040 No-Build Eastbound | | | | | 2040 No-Build Westbound | | | | | | |
|---------|---------------------------|-----|-------|-------------------------|----------------------|-----|------------------|----------------------|-------------------------|------------------|----------------------|-----|------------------|----------------------|---------|
| Segment | Segment From Exit To Exit | | Lanes | SAT Daytime Peak | | | SUN Daytime Peak | | | SAT Daytime Peak | | | SUN Daytime Peak | | |
| | | | | Volume 1 | Density ² | LOS | Volume 1 | Density ² | LOS | Volume 1 | Density ² | LOS | Volume 1 | Density ² | LOS |
| 10 | 214 | 220 | 2 | 4,670 | | F | 3,435 | | E | 4,365 | | F | 4,240 | | ${f E}$ |
| 11 | 220 | 227 | 2 | 4,260 | | F | 3,155 | | D | 3,970 | | F | 3,795 | | F |
| 12 | 227 | 231 | 2 | n/a | | n/a | n/a | | n/a | n/a | | n/a | n/a | | n/a |
| 13 | 231 | 234 | 2 | 4,455 | | F | 4,130 | | F | 4,105 | | F | 4,145 | | F |
| 14 | 234 | 238 | 2 | 4,255 | | F | 3,705 | | \mathbf{F} | 3,795 | | F | 3,915 | | ${f F}$ |
| 15 | 238 | 242 | 2 | 4,290 | | F | 3,890 | | F | 3,910 | | F | 3,950 | | F |
| 16 | 242 | 243 | 2 | 4,305 | | F | 4,050 | | F | 4,205 | | F | 3,915 | | F |
| 17 | 243 | 247 | 2 | 4,085 | | F | 3,945 | | F | 4,780 | | F | 4,305 | | F |

Notes

Table 31: 2040 No-Build Freeway Segment Level of Service – Summer Peak, Nighttime near Busch Gardens

| | | | | 2040 No-Build Eastbound | | | | | 2040 No-Build Westbound | | | | | | |
|---------|-----------|---------|-------|-------------------------|----------------------|--------------------|----------|----------------------|-------------------------|----------|----------------------|-----|---------------------|----------------------|-----|
| Segment | From Exit | To Exit | Lanes | SAT Nighttime Peak | | SUN Nighttime Peak | | SAT Nighttime Peak | | | SUN Nighttime Peak | | | | |
| | | | | Volume ¹ | Density ² | LOS | Volume 1 | Density ² | LOS | Volume 1 | Density ² | LOS | Volume ¹ | Density ² | LOS |
| 16 | 242 | 243 | 2 | 2,230 | | С | 2,600 | | С | 2,615 | | С | 2,820 | | D |
| 17 | 243 | 247 | 2 | 3,130 | | D | 3,635 | | E | 2,355 | | С | 2,600 | | C |

Notes:

¹ Volume is given as "vehicles per hour" (vph). SAT Daytime Peak = Saturday Daytime peak hour (9:00 AM to 10:00 AM). SUN Daytime Peak = Sunday Daytime peak hour (2:00 PM to 3:00 PM).

² Density is given as "vehicles per mile per lane" (pc/mi/ln).

 $^{^{3}}$ n/a = Data not available.

¹ Volume is given as "vehicles per hour" (vph). SAT Nighttime Peak = Saturday Nighttime peak hour (10:00 PM to 11:00 PM). SUN Nighttime Peak = Sunday Nighttime peak hour (9:00 PM to 10:00 PM).

² Density is given as "vehicles per mile per lane" (pc/mi/ln).



2. Ramp Merges and Diverges

Ramp merges and diverges are the areas where traffic from on-ramps enter a freeway (merge) or traffic from the freeway accesses an off-ramp (diverge). **Table 13** defines the LOS for ramp merges and diverges according to vehicular density, which is defined in terms of passenger cars, per mile, per lane (pc/mi/ln). **Table 32** summarizes the merge and diverge analysis of Weekday Non-Summer AM and PM peak hours for the entire corridor. **Table 33** summarizes the merge and diverge analysis of Summer Daytime Saturday and Sunday peak hours in the vicinity of Williamsburg. **Table 34** summarizes the merge and diverge analysis of Summer Nighttime Saturday and Sunday Peak hours in the vicinity of Busch Gardens.

The left side of each table describes the exit number, type of ramp, and traffic volumes that characterize each ramp. The right side gives the Density and LOS determined by applying the HCM methodology.

During the Non-Summer Weekday peaks, there are operational issues throughout the whole corridor at merge and diverge segments. The far ends of the corridor, both in the City of Richmond and near the ports, displayed the most operational issues.

During the Weekday AM peak hour, in the eastbound direction operational issues at merge and diverge ramps start at Exit 227 and extend east to Exit 261. There is a cluster of 6 ramps expected to operate at a LOS F between Exits 247 and 258. In the westbound direction there are 3 merge and diverge ramps at Exits 192, 200 and 205 that exceed capacity on the western end of the corridor. There are 3 additional on and off ramps that are expected to exceed capacity on the eastern end at Exits 250, 258 and 261.

During the Weekday PM peak hour, in the eastbound direction there are deficient ramps the entire length of the study corridor with a concentration of segments operating at a LOS F at the far eastern and western ends. Of the 52 merge and diverge ramps analyzed, 29 of them operate at a deficient LOS, 5 of which are a LOS F. There are both on and off ramps that exceed capacity at Exits 192, 197, 200, 205 and 250. In the westbound direction major operational issues start at Exit 227 and extend east to the end of the I-64 study corridor. Between exits 243 and 263 there are 11 ramps that are expected to exceed capacity and operate at a LOS F. This is the highest concentration of ramps expected to exceed capacity.

During the Summer Weekend Daytime peaks, all of the ramps analyzed at each of the five interchanges are expected to operate at a deficient LOS. During the Saturday peak 18 of the 19 ramps analyzed are expected to exceed capacity and operate at a LOS F. The only ramp not to exceed capacity is the Exit 220 westbound off-ramp which operates at a LOS E. During the Sunday Peak, 14 of the 19 ramps analyzed are expected to operate at a LOS F. The only Ramp that operates at an acceptable LOS is the westbound off ramp at Exit 243. During the Summer Nighttime peaks, only one of the four ramps analyzed at Exit 243 is expected to operate at a deficient LOS. The westbound off ramp at Exit 243 operates at a LOS D during the Sunday Peak.



Table 32: 2040 No-Build Merge and Diverge Ramp Level of Service – Non-Summer Weekday Peak

| | | | 2040 No-Bui | ld Eastbound | | | | | |
|------|----------|--------|-------------|--------------|--------|---------|-----|----------|-------------------|
| Exit | Ramp | | AM Peak | | | PM Peak | | Exit | Ramp |
| LAIL | Kamp | Volume | Density | LOS | Volume | Density | LOS | LAIL | Kamp |
| 192 | OFF RAMP | 1,485 | 27.3 | С | 1,995 | 42.9 | F | 192 | E |
| 192 | ON RAMP | 230 | 15.5 | В | 410 | 29.3 | D | 192 | F |
| | A | 155 | 18.5 | В | 90 | 31.1 | D | | D |
| 193 | В | 680 | 19.6 | В | 885 | 32.6 | D | 193 | G |
| | C | 120 | 10.0 | В | 285 | 22.5 | С | <u> </u> | |
| | A | 905 | 17.4 | В | 1,200 | 31.2 | D | | С |
| 195 | В | 275 | 10.6 | В | 475 | 24.4 | С | 195 | D |
| | | | | | | | | | E |
| 197 | A | 580 | 12.3 | В | 995 | 36.6 | F | 197 | E |
| 197 | D | 185 | 9.0 | A | 305 | 24.7 | С | 197 | Н |
| | OFF RAMP | 285 | 2.1 | A | 655 | 19.3 | В | | OFF RAMP |
| 200 | ON RAMP | 1,910 | 13.9 | В | 2,180 | 27.7 | F | 200 | ON RAMP |
| 200 | A | 240 | 0* | A | 510 | 1.5 | A | 200 | F |
| | D/E | 705 | 17.5 | В | 705 | 18.6 | В | | I - Major Diverge |
| | A | 660 | 26.5 | С | 1,595 | 43.3 | F | | С |
| 205 | В | 210 | 21.5 | C | 150 | 28.0 | С | 205 | D |
| | | | | | | | | | E |
| 211 | A | 145 | 23.0 | С | 135 | 30.1 | D | 211 | С |
| 211 | В | 280 | 21.6 | С | 145 | 26.9 | С | 211 | D |
| 213 | A | 250 | 23.7 | С | 220 | 29.5 | D | 213 | С |
| 213 | В | 250 | 23.3 | С | 220 | 28.5 | D | 213 | D |
| 21.4 | A | 270 | 24.9 | С | 260 | 30.6 | D | 214 | С |
| 214 | В | 345 | 22.1 | С | 285 | 27.0 | С | 214 | D |
| 220 | A | 350 | 23.4 | С | 735 | 28.6 | D | 220 | С |
| 220 | В | 90 | 22.0 | С | 60 | 23.1 | С | 220 | D |
| | A | 150 | 21.9 | С | 150 | 23.1 | С | | С |
| 227 | В | 275 | 29.1 | D | 100 | 24.0 | С | 227 | D |
| | Е | 875 | 25.2 | С | 385 | 22.2 | С |] | |
| 221 | A | 365 | 31.7 | D | 275 | 29.6 | D | 221 | Е |
| 231 | D | 935 | 31.6 | D | 550 | 27.0 | С | 231 | Н |

| 2040 No-Build Westbound | | | | | | | | | |
|-------------------------|-------------------|--------|---------|-----|--------|---------|-----|--|--|
| T724 | Down | | AM Peak | | | PM Peak | | | |
| Exit | Ramp | Volume | Density | LOS | Volume | Density | LOS | | |
| 192 | Е | 1,675 | 28.7 | F | 1,385 | 29.3 | D | | |
| 192 | F | 520 | 30.4 | D | 325 | 21.8 | С | | |
| | D | 1,145 | 28.9 | D | 790 | 19.3 | В | | |
| 193 | G | 75 | 24.3 | С | 65 | 16.3 | В | | |
| | | | | | | | | | |
| | С | 105 | 24.5 | С | 85 | 16.2 | В | | |
| 195 | D | 720 | 22.1 | С | 790 | 14.1 | В | | |
| | Е | 180 | 23.0 | C | 230 | 14.3 | В | | |
| 197 | Е | 900 | 24.4 | С | 435 | 14.9 | В | | |
| 177 | Н | 150 | 25.4 | С | 140 | 15.5 | В | | |
| | OFF RAMP | 2,155 | 32.0 | F | 1,935 | 22.2 | С | | |
| 200 | ON RAMP | 690 | 14.0 | В | 390 | 4.7 | A | | |
| | F | 125 | 4.7 | A | 85 | 2.3 | A | | |
| | I - Major Diverge | 1,420 | 13.7 | В | 1,935 | 12.3 | В | | |
| | С | 1,085 | 35.4 | F | 360 | 26.4 | C | | |
| 205 | D | 680 | 28.4 | D | 215 | 25.7 | С | | |
| | Е | 150 | 25.1 | C | 150 | 26.5 | C | | |
| 211 | С | 175 | 24.7 | C | 225 | 26.9 | C | | |
| 211 | D | 160 | 22.6 | C | 140 | 24.0 | В | | |
| 213 | С | 155 | 25.6 | С | 180 | 27.8 | C | | |
| 213 | D | 155 | 23.5 | С | 180 | 25.5 | C | | |
| 214 | С | 275 | 23.5 | С | 340 | 28.0 | C | | |
| 214 | D | 345 | 23.1 | C | 190 | 25.1 | C | | |
| 220 | С | 70 | 16.7 | В | 65 | 24.7 | С | | |
| 220 | D | 755 | 20.7 | С | 385 | 24.8 | C | | |
| | С | 635 | 22.3 | С | 1,080 | 34.6 | D | | |
| 227 | D | 160 | 15.3 | В | 150 | 22.2 | С | | |
| | | | | | | | | | |
| 231 | Е | 65 | 22.4 | С | 140 | 38.1 | E | | |
| 231 | Н | 220 | 19.0 | В | 200 | 30.2 | D | | |

Notes

¹ Volume is given as "vehicles per hour"



Table 32: 2040 No-Build Merge and Diverge Ramp Level of Service – Non-Summer Weekday Peak (continued)

| | | 2040 No-Build Eastbound | | | | | | | 2040 No-Build Westbound | | | | | | | |
|------|----------|-------------------------|---------|--------------|--------|---------|---------|----|-------------------------|----------|--------|---------|-----|--------|---------|-----|
| Exit | Domn | | AM Peak | | | PM Peak | | T. | xit | Down | | AM Peak | | | PM Peak | |
| EXIL | Ramp | Volume | Density | LOS | Volume | Density | LOS | E | XII | Ramp | Volume | Density | LOS | Volume | Density | LOS |
| 234 | A | 885 | 36.3 | E | 915 | 30.8 | D | | .34 | С | 40 | 20.6 | С | 155 | 38.3 | E |
| 234 | В | 705 | 31.4 | D | 650 | 25.7 | C | | .54 | F | 55 | 20.2 | С | 35 | 34.5 | D |
| | A | 725 | 35.8 | E | 530 | 30.2 | D | | | С | 800 | 23.5 | С | 835 | 37.8 | E |
| 238 | В | 740 | 34.2 | D | 865 | 31.3 | D | 2 | 38 | D | 390 | 21.3 | С | 700 | 36.5 | E |
| | | | | | | | | | | Е | 20 | 20.8 | С | 90 | 36.9 | E |
| 242 | A | 655 | 31.5 | D | 460 | 28.6 | D | 2 | 42 | Н | 405 | 19.8 | В | 585 | 31.7 | D |
| 243 | В | 105 | 30.7 | D | 100 | 24.8 | C | | 43 | D | 465 | 10.9 | В | 320 | 19.7 | В |
| 243 | С | 480 | 19.0 | В | 460 | 13.5 | В | | 43 | Е | 420 | 34.9 | D | 535 | 44.8 | F |
| | A | 300 | 41.8 | E | 150 | 35.7 | E | | | В | 320 | 27.3 | С | 400 | 36.3 | F |
| 247 | С | 535 | 39.2 | F | 360 | 33.5 | D | 2 | 47 | Е | 630 | 37.2 | E | 705 | 47.2 | F |
| | D | 640 | 41.7 | ${f F}$ | 290 | 33.0 | D | | | | | | | | | |
| 250 | A | 805 | 48.5 | F | 545 | 38.7 | E | 2 | .50 | С | 495 | 45.5 | F | 830 | 51.2 | F |
| 230 | E | 910 | 46.3 | \mathbf{F} | 1,690 | 42.8 | ${f F}$ | 2 | .50 | G | 680 | 30.6 | D | 665 | 39.8 | F |
| | OFF RAMP | 1,175 | 29.2 | D | 1,235 | 28.8 | D | | | OFF RAMP | 1,665 | 29.6 | D | 2,070 | 33.7 | F |
| 255 | ON RAMP | 1,790 | 31.5 | D | 1,780 | 30.4 | D | | .55 | ON RAMP | 1,095 | 26.7 | С | 1,035 | 29.1 | D |
| 233 | A | 905 | 5.6 | A | 905 | 6.2 | A | | | С | 1,450 | 7.2 | A | 1,575 | 10.9 | В |
| | Е | 205 | 15.7 | В | 355 | 15.6 | В | | | G | 310 | 7.7 | A | 295 | 27.4 | C |
| 256 | A | 300 | 29.3 | D | 565 | 29.0 | D | | 56 | C | 740 | 29.1 | D | 1,145 | 41.0 | F |
| 230 | Е | 1,280 | 37.7 | F | 715 | 30.5 | D | | .50 | G | 210 | 23.9 | С | 295 | 27.4 | C |
| 258 | A | 1,500 | 42.3 | F | 985 | 32.6 | D | | .58 | С | 1,365 | 29.4 | F | 1,265 | 47.2 | F |
| 236 | Е | 695 | 29.5 | D | 660 | 25.8 | C | | .50 | G | 520 | 25.2 | С | 570 | 33.5 | F |
| | A | 550 | 34.1 | D | 835 | 31.0 | D | | | F | 1,160 | 36.2 | F | 1,875 | 47.8 | F |
| 261 | В | 1,300 | 32.0 | D | 780 | 26.5 | C | 2 | 61 | | | | | | | |
| | D | 1,105 | 26.4 | C | 865 | 22.3 | C | | | | | | | | | |
| 263 | Е | 845 | 22.1 | С | 720 | 18.4 | В | 2 | .63 | D | 625 | 26.3 | С | 800 | 39.8 | F |

Notes

¹ Volume is given as "vehicles per hour"

^{**} Volume exceeds capacity. Density is undefined. Level of service is "F"



Table 33: 2040 No-Build Merge and Diverge Ramp Level of Service – Summer Peak, Daytime near Williamsburg

| | | | 2040 No-Bui | ld Eastbound | | | | | |
|------|------|----------|-----------------------|--------------|---------------------|-----------------------|-----|------|-----|
| Exit | Down | | SAT Peak ² | | | SUN Peak ³ | | Exit | Don |
| EXIL | Ramp | Volume 1 | Density | LOS | Volume ¹ | Density | LOS | EXIL | Ran |
| 220 | A | 515 | 42.8 | F | 345 | 30.4 | D | 220 | С |
| 220 | В | 345 | 38.4 | F | 65 | 28.3 | D | 220 | D |
| 234 | A | 760 | 49.2 | F | 865 | 45.2 | F | 234 | C |
| 234 | В | 530 | 42.4 | F | 440 | 36.8 | F | 234 | F |
| | A | 555 | 48.6 | F | 485 | 42.4 | F | | C |
| 238 | В | 620 | 45.8 | F | 670 | 41.3 | F | 238 | D |
| | | | | | | | | | Е |
| 242 | A | 400 | 43.3 | F | 400 | 38.8 | F | 242 | Н |
| 243 | В | 60 | 36.3 | F | 65 | 34.0 | D | 243 | D |
| 243 | С | 290 | 23.2 | F | 345 | 21.6 | F | 243 | Е |

| | | 20 | 040 No-Build | Westbound | | | |
|------|------|----------|-----------------------|--------------|----------|-----------------------|--------------|
| Exit | Ramp | | SAT Peak ² | | | SUN Peak ³ | |
| Exit | Kamp | Volume 1 | Density | LOS | Volume 1 | Density | LOS |
| 220 | С | 50 | 36.7 | E | 140 | 34.8 | D |
| 220 | D | 445 | 36.3 | F | 585 | 34.9 | \mathbf{F} |
| 234 | С | 65 | 42.2 | F | 100 | 43.4 | \mathbf{F} |
| 234 | F | 60 | 40.9 | F | 50 | 41.1 | \mathbf{F} |
| | С | 570 | 42.6 | F | 535 | 42.8 | \mathbf{F} |
| 238 | D | 430 | 40.7 | F | 485 | 41.8 | \mathbf{F} |
| | Е | 25 | 40.4 | F | 15 | 41.5 | ${f F}$ |
| 242 | Н | 230 | 35.8 | \mathbf{F} | 345 | 36.0 | \mathbf{F} |
| 243 | D | 550 | 29.7 | F | 530 | 21.3 | С |
| 443 | Е | 240 | 52.3 | ${f F}$ | 175 | 47.0 | F |

Notes:

Table 34: 2040 No-Build Merge and Diverge Ramp Level of Service – Summer Peak, Nighttime near Busch Gardens

| | 2040 No-Build Eastbound | | | | | | | | | 20 | 040 No-Build | Westbound | | | | |
|------|-------------------------|-----------------------|---------|-----|-----------------------|---------|-----|------|-----------|---------------------|-----------------------|-----------|-----------------------|---------|------|---|
| Exit | Domn | SAT Peak ² | | | SUN Peak ³ | | | E:4 | Exit Ramp | | SAT Peak ² | | SUN Peak ³ | | | |
| EXIL | Ramp | Volume 1 | Density | LOS | Volume 1 | Density | LOS | EXIL | Ramp | Volume ¹ | Density | LOS | Volume 1 | Density | LOS | |
| 243 | В | 50 | 16.9 | В | 50 | 20.7 | С | | 242 | D | 240 | 4.0 | A | 265 | 6.3 | A |
| 243 | С | 1,130 | 13.4 | В | 1280 | 18.3 | В | | 243 | E | 200 | 26.3 | С | 235 | 28.9 | D |

Notes:

¹ Volume is given as "vehicles per hour"

² SAT Peak = Saturday Daytime peak hour (9:00 AM to 10:00 AM)

³ SUN Peak = Sunday Daytime peak hour (2:00 PM to 3:00 PM)

¹ Volume is given as "vehicles per hour"

² SAT Peak = Saturday Night peak hour (10:00 PM to 11:00 PM)

³ SUN Peak = Sunday Night peak hour (9:00 PM to 10:00 PM)

^{*} The calculated density for ramps with long acceleration or deceleration lanes is negative, due to the nature of the HCM 2010 density equation. Density is shown as zero in this summary.



3. Weaving Segments

Weaving segments are areas where two traffic streams moving in the same direction must cross and/or change lanes to continue to their destination. Weaving segments are formed when a merge is closely followed by a diverge, for example, where an on-ramp is followed closely by an off-ramp and the two are joined by an auxiliary lane. ¹¹ **Table 17** defines the LOS for weaving segments according to vehicular density, which is defined in terms of passenger cars, per mile, per lane (pc/mi/ln). **Table 35** summarizes the weaving segment analysis of Weekday Non-Summer AM and PM peak hours for the entire corridor. **Table 36** summarizes the weaving segment analysis of Summer Daytime Saturday and Sunday peak hours in the vicinity of Williamsburg. **Table 37** summarizes the weaving segment analysis of Summer Nighttime Saturday and Sunday Peak hours in the vicinity of Busch Gardens.

The left side of each table describes the various weaving areas in the I-64 study corridor, according to the exit number and direction of travel. The right side gives the density and LOS, determined by applying the HCM methodology.

During the Non-Summer Weekday peaks, weaving areas in the I-64 corridor operate acceptably on the western-most end of the corridor between Exits 192 and 200. In the AM peak hour, 10 of the 26 weaving segments analyzed operate at a deficient LOS between Exits 242 and 263. Four segments between Exits 262 to 263 exceed capacity and operate at a LOS F. In the PM peak hour, 11 of the 26 segments analyzed operate at a deficient LOS. Three segments between Exits 262 and 263 operate at LOS F.

During Summer Saturday peak, the Exit 234 westbound weave is the most congested. During the Saturday peak it operates at a LOS E and during the Sunday peak at a LOS F. During the Saturday peak all weaves between Exits 242 and 234 operate at a deficient LOS D. During the Sunday peak, the Exit 242 westbound weave and both weaves between Exits 242 and 243 operate at a LOS D. The only weave to operate at an acceptable LOS is the Exit 242 eastbound weave during the Sunday peak.

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¹¹ Transportation Research Board, National Research Council, *Highway Capacity Manual*, *HCM* 2010, Transportation Research Board, Washington, DC, 2010.



Table 35: 2040 No-Build Weaving Area Level of Service – Non-Summer Weekday Peak

| | Direction | AM I | | PM P | v |
|-------------------------|-----------|----------------------|---------|----------------------|---------|
| Exit | Direction | Density ³ | LOS | Density ³ | LOS |
| 192 | Eastbound | 15.9 | В | 21.6 | В |
| 193 | Westbound | 20.2 | С | 11.5 | В |
| 107 | Eastbound | 8.4 | A | 19.7 | В |
| 197 | Westbound | 20.3 | С | 10.7 | В |
| 200 | Eastbound | 0.3 | A | 0.6 | A |
| 200 | Westbound | 8.0 | A | 5.7 | A |
| 221 | Eastbound | 20.0 | В | 18.5 | В |
| 231 | Westbound | 18.7 | В | 31.4 | D |
| 234 | Westbound | 20.4 | С | 37.4 | ${f E}$ |
| 242 | Eastbound | 19.7 | В | 20.1 | С |
| 242 | Westbound | 22.3 | С | 35.0 | E |
| 242 TO 243 | Eastbound | 28.4 | D | 23.0 | С |
| 243 TO 242 | Westbound | 18.8 | В | 25.9 | С |
| 250 | Eastbound | 34.9 | С | 25.9 | С |
| 230 | Westbound | 35.5 | E | 37.4 | E |
| 255 | Eastbound | 12.6 | В | 11.8 | В |
| 233 | Westbound | 6.3 | A | 8.4 | A |
| 256 | Eastbound | 33.9 | D | 28.8 | D |
| 230 | Westbound | 28.2 | D | 35.6 | ${f E}$ |
| 258 | Eastbound | 30.7 | D | 26.4 | С |
| 238 | Westbound | 27.4 | С | 40.1 | E |
| 261 | Westbound | 31.0 | D | 42.4 | ${f E}$ |
| 262 TO 263 | Eastbound | ** | ${f F}$ | ** | ${f F}$ |
| 263 TO 262 | Westbound | ** | ${f F}$ | ** | ${f F}$ |
| 263 TO 264 ¹ | Eastbound | ** | ${f F}$ | 20.1 | С |
| 264 TO 263 ¹ | Westbound | ** | F | ** | F |

Notes:

¹ AM Peak = Weekday morning peak hour (7:00 AM to 8:00 AM).

 $^{^{2}}$ PM Peak = Weekday afternoon peak hour (4:00 PM to 5:00 PM or 5:00 PM to 6:00 PM, whichever hourly volume was higher).

³ Density is given as "passenger cars per mile per lane" (pc/mi/ln).

^{**} Demand exceeds capacity. Density is undefined. Level of service is "F"



Table 36: 2040 No-Build Weaving Area Level of Service – Summer Peak,
Daytime near Williamsburg

| E-::4 | Direction | SAT | Peak ¹ | SUN Peak ² | | |
|------------|-----------|----------------------|-------------------|-----------------------|-----|--|
| Exit | Direction | Density ³ | LOS | Density ³ | LOS | |
| 234 | Westbound | 40.2 | E | ** | F | |
| 242 | Eastbound | 30.0 | D | 26.6 | C | |
| 242 | Westbound | 33.4 | D | 30.8 | D | |
| 242 TO 243 | Eastbound | 33.5 | D | 30.7 | D | |
| 243 TO 242 | Westbound | 30.6 | D | 28.2 | D | |

Notes:

Table 37: 2040 No-Build Weaving Area Level of Service – Summer Peak, Nighttime near Busch Gardens

| Exit | Direction | SAT I | Peak ¹ | SUN Peak ² | | |
|------------|-----------|----------------------|-------------------|-----------------------|-----|--|
| | Direction | Density ³ | LOS | Density ³ | LOS | |
| 242 TO 243 | Eastbound | n/a | n/a | n/a | n/a | |
| 243 TO 242 | Westbound | n/a | n/a | n/a | n/a | |

Notes:

4. Signalized and Unsignalized Intersections

The intersections evaluated in this study generally include locations where I-64 ramps intersect cross-streets at interchanges. **Tables 20 and 21** define the LOS for signalized and unsignalized intersections, respectively, according to vehicular control delay, which is defined in terms of seconds per vehicle (sec/veh). **Table 38** summarizes the intersection analysis of Weekday Non-Summer AM and PM peak hours for the entire corridor. **Table 39** summarizes the intersection analysis of Summer Daytime Saturday and Sunday peak hours in the vicinity of Williamsburg.

The left side of each table locates the various intersections according to the exit, ramp designation, and the cross-streets involved. The control type (signalized or unsignalized) is given, and the critical intersection movement is given for all unsignalized intersections. The right side of the table gives the overall intersection delay for signals or the critical movement delay for unsignalized intersections, as well as the LOS determined by applying the HCM methodology.

For signalized intersections, **Tables 38** and **39** also show the capacity analysis with optimized traffic signal timings. VDOT and local jurisdictions typically periodically update their traffic signal timings on a regular basis, and so thus these signals would be expected to operate with the "best" timings possible given their no-build configurations in future no-build conditions.

¹ SAT Peak = Saturday Daytime peak hour (9:00 AM to 10:00 AM).

² SUN Peak = Sunday Daytime peak hour (2:00 PM to 3:00 PM).

³ Density is given as "passenger cars per mile per lane" (pc/mi/ln).

^{**} Demand exceeds capacity. Density is undefined. Level of service is "F".

¹ SAT Peak = Saturday Daytime peak hour (9:00 AM to 10:00 AM).

² SUN Peak = Sunday Daytime peak hour (2:00 PM to 3:00 PM).

³ Density is given as "passenger cars per mile per lane" (pc/mi/ln).

n/a = Data not available.



During the Non-Summer Weekday peaks, many of the intersections throughout the entire corridor are projected to operate at LOS E or F, including 14 of the 38 intersections during the AM peak. Five of the deficient intersections are signalized, four of which are projected to operate at a LOS F even when the signals are optimized. There are 13 deficient unsignalized intersections during the AM Peak, of which 8 are projected to operate at a LOS F.

During the PM peak, 16 of the 38 intersections analyzed are projected to operate at LOS E or F. Eight of the deficient intersections are signalized, 7 of which operate at a LOS F. When signal optimization is applied to these intersections, 5 intersections continue to operate at a LOS E or F, 4 of which operate at a LOS F. There are 8 LOS E or F unsignalized intersections during the PM peak hour.

During the Summer Daytime peaks, all signalized intersections analyzed between Exits 234 and 243 are expected to operate at an acceptable LOS. During the Saturday peak hour, the unsignalized intersections of the I-64 Eastbound Ramps and Newman Road and the intersection of Newman Road and Fenton Road at Exit 234 operate at a LOS E. The unsignalized intersection of I-64 Eastbound off-ramp and Merrimac Trail operates at a LOS D. During the Sunday peak hour, the unsignalized intersection of Newman Road and Fenton Mill Road at Exit 234 operates at a LOS E.



Table 38: 2040 No-Build Intersection Level of Service – Non-Summer Weekday Peak

| | T.4 | | | | 2040 N | lo-Build | | 2040 N | o-Build - Opt | imized Signa | l Timing |
|-------------|--------------|---|--------------------------------|--------------------|------------------|--------------------|------------------|--------------------|------------------|--------------------|------------------|
| Exit – Ramp | Intersection | Intersection | Critical Movement ¹ | AM | Peak | PM | Peak | AM | Peak | PM | Peak |
| _ | Control | | | Delay ³ | LOS ³ |
| 190-A | Unsignalized | 5 th Street & I-95 NB On-ramp | SB 5 th Street L | 7.8 | A | 8.5 | A | 11 | | | |
| 190-B | Unsignalized | 3 rd Street & I-95 SB Off-ramp | 3 rd Street L | 35.5 | Е | 12.4 | В | | | | |
| 192-A | Signal | I-64 WB Off-ramp/Magnolia Street & US 360 | Intersection | 130.0 | F | 41.9 | D | 42.5 | D | 25.6 | С |
| 192-B | Unsignalized | I-64 EB Off-ramp & US 360 ⁴ | I-64 Off-ramp R ⁴ | 13.9 | В | 10.7 | В | | | | |
| 193-A | Unsignalized | I-64 EB Ramps & Nine Mile Road | I-64 Off-ramp R | 11.9 | В | 10.2 | В | | | | |
| 193-B | Signal | Route 33 & Gordon's Lane | Intersection | 17.6 | В | 18.3 | В | 14.4 | В | 18.0 | В |
| 193-C | Unsignalized | I-64 WB Off-ramp & Nine Mile Road | I-64 Off-ramp R | 12.8 | В | 15.9 | С | | | | |
| 195-A | Signal | I-64 EB Ramps & Laburnum Avenue | Intersection | 52.3 | D | 243.8 | F | 26.6 | С | 76.3 | E |
| 195-B | Signal | I-64 WB Ramps & Laburnum Avenue | Intersection | 8.5 | A | 9.1 | A | | | | |
| 205-A | Signal | I-64 EB Ramps & New Kent Highway | Intersection | 10.3 | В | 21.8 | С | 8.9 | A | 13.4 | В |
| 205-В | Unsignalized | I-64 WB Ramps & New Kent Highway | I-64 Off-ramp LR | 13.4 | В | 170.6 | F | | | | |
| 211-A | Unsignalized | I-64 EB Ramps & Emmans Church Road | I-64 Off-ramp LTR | 14.1 | В | 14.0 | В | | | | |
| 211-B | Unsignalized | I-64 WB Ramps & Emmans Church Road | I-64 Off-ramp LTR | 18.3 | С | 21.0 | С | | | | |
| 214-A | Unsignalized | I-64 EB Ramps & Courthouse Road | I-64 Off-ramp LTR | 218.4 | F | 23.8 | С | | | | |
| 214-B | Unsignalized | I-64 WB Ramps & Courthouse Road | I-64 Off-ramp LTR | 395.8 | F | 76.2 | F | 1 | | | |
| 227-A | Unsignalized | I-64 EB Ramps & Old Stage Road | I-64 Off-ramp L | 13.8 | В | 13.2 | В | 1 | | | |
| 227-В | Unsignalized | I-64 WB Ramps & Old Stage Road | I-64 Off-ramp L | 243.6 | F | 129.5 | F | 1 | | | |
| 231-A | Signal | Croaker Road & Rochambeau Drive | Intersection | 374.3 | F | 294.6 | F | 154.8 | F | 81.7 | F |
| 231-В | Unsignalized | Croaker Road & Fenton Mill Road | WB Fenton Mill LTR | 27.0 | D | 28.7 | D | 1 | | | |
| 231-C | Unsignalized | I-64 WB Off-ramp & Croaker Road | I-64 Off-ramp R | 9.8 | A | 10.6 | В | | | | |
| 231-D | Unsignalized | I-64 EB Off-ramp & Croaker Road | I-64 Off-ramp R | 20.3 | С | 21.1 | С | | | | |
| 234-A | Unsignalized | I-64 EB Ramps & Newman Road | I-64 Off-ramp LT | ** | F | 53.4 | F | | | | |
| 234-B | Unsignalized | Newman Road & Fenton Mill Road | NB Fenton Mill LTR | 14.2 | В | 19.7 | С | | | | |
| 234-C | Unsignalized | I-64 WB Off-ramp & Newman Road | I-64 Off-ramp R | 9.0 | A | 11.0 | В | 1 | | | |
| 238-A | Unsignalized | I-64 EB Off-ramp (left turn) & Merrimac Trail | I-64 Off-ramp L | 313.7 | F | 47.4 | E | 1 | | | |
| 238-В | Signal | I-64 EB On-ramp, Merrimac Trail, & Rochambeau Drive | Intersection | 140.6 | F | 203.6 | F | 78.0 | E | 45.5 | D |
| 238-C | Unsignalized | I-64 WB Off-ramp (left turn) & Merrimac Trail | I-64 Off-ramp L | 150.2 | F | 65.5 | F | 1 | | | |
| 238-D | Unsignalized | I-64 EB Off-ramp (right turn) & Merrimac Trail | I-64 Off-ramp R | 93.4 | F | 57.4 | F | | | | |
| 243-A | Signal | Busch Gardens Boulevard NB ramps & US Route 60 | Intersection | 10.4 | В | 11.7 | В | 6.6 | A | 8.9 | A |
| 243-B | Signal | Busch Gardens Boulevard SB ramps & US Route 60 | Intersection | 13.0 | В | 10.8 | В | 10.3 | В | 7.1 | A |
| 247-A | Unsignalized | I-64 EB Off-ramp & Jefferson Avenue | I-64 Off-ramp LR | 1300.0 | F | 970.5 | F | | | | |
| 247-В | Signal | Jefferson Ave & Yorktown Road | Intersection | 58.1 | E | 308.8 | F | 56.2 | E | 87.7 | F |
| 247-C | Unsignalized | I-64 EB On-ramp & Yorktown Road | SB Yorktown L | 14.0 | В | 11.7 | В | | | | |
| 247-D | Unsignalized | I-64 WB Off-ramp & Yorktown Road | I-64 Off-ramp L | 19.5 | С | 19.6 | C | 1 | | | |
| 250-A | Signal | I-64 WB Off-ramp & Jefferson Avenue | Intersection | 14.6 | В | 69.2 | E | 17.2 | В | 31.7 | С |
| 250-В | Signal | Jefferson Avenue & Fort Eustis Boulevard | Intersection | 436.9 | F | 281.0 | F | 34.1 | С | 27.9 | С |
| 255-A | Signal | Jefferson Avenue & Freedom Way/Clair Lane | Intersection | 19.5 | В | 246.5 | F | 24.8 | С | 233.8 | F |
| 255-B | Signal | Jefferson Avenue & Brick Kiln Blvd/Wal-Mart Way | Intersection | 163.3 | F | 472.0 | F | 55.9 | Е | 313.9 | F |

Notes

³ Delay is given as "seconds per vehicle" (sec/veh). For signalized intersections, the delay and LOS apply to the overall intersections, the delay and LOS apply to the single critical movement (major street left or minor street approach) with highest delay.

⁴ Approach is controlled by a yield sign but operates as stop-controlled and was analyzed accordingly.

^{**} Delay exceeds range of model.



Table 39: 2040 No-Build Intersection Level of Service – Summer Peak, Daytime near Williamsburg

| | | | | | 2040 N | o-Build | |
|-------------|----------------------|---|--------------------------------|--------------------|-----------------------|-------------------------------|------------------|
| Exit - Ramp | Intersection Control | Intersection | Critical Movement ¹ | SAT Dayt | ime Peak ¹ | SUN Daytime Peak ² | |
| | | | | Delay ³ | LOS ³ | Delay ³ | LOS ³ |
| 234-A | Unsignalized | I-64 EB Ramps & Newman Road | I-64 Off-ramp LT | 48.0 | ${f E}$ | 28.3 | D |
| 234-B | Unsignalized | Newman Road & Fenton Mill Road | NB Fenton Mill LTR | 37.9 | ${f E}$ | 35.9 | E |
| 234-C | Unsignalized | I-64 WB Off-ramp & Newman Road | I-64 Off-ramp R | 9.2 | A | 9.5 | A |
| 238-A | Unsignalized | I-64 EB Off-ramp (left turn) & Merrimac Trail | I-64 Off-ramp L | 23.1 | С | 22.4 | C |
| 238-В | Signal | I-64 EB On-ramp, Merrimac Trail, & Rochambeau Drive | Intersection | 19.0 | В | 21.0 | C |
| 238-C | Unsignalized | I-64 WB Off-ramp (left turn) & Merrimac Trail | I-64 Off-ramp L | 19.6 | С | 13.8 | В |
| 238-D | Unsignalized | I-64 EB Off-ramp (right turn) & Merrimac Trail | I-64 Off-ramp R | 27.5 | D | 18.7 | C |
| 243-A | Signal | Busch Gardens Boulevard NB ramps & US Route 60 | Intersection | 9.3 | A | 11.0 | В |
| 243-B | Signal | Busch Gardens Boulevard SB ramps & US Route 60 | Intersection | 13.6 | В | 13.9 | В |

Notes

¹ SAT Peak = Saturday Daytime peak hour (9:00 AM to 10:00 AM).

² SUN Peak = Sunday Daytime peak hour (2:00 PM to 3:00 PM).

³ Delay is given as "seconds per vehicle" (sec/veh). For signalized intersections, the delay and LOS apply to the overall intersections, the delay and LOS apply to the single critical movement (major street left or minor street approach) with highest delay.



D. 2040 Future No-Build Capacity

For the purpose of this EIS, acceptable LOS grades are LOS C or better for interstate facilities and LOS D or better for cross-street facilities. Figure 10 shows that there are a greater number of mainline segments, ramps, weaving areas, and intersections within the corridor that are projected to operate below those acceptable LOS thresholds during the weekday morning and evening peak hour periods, as compared to base conditions. **Table 40** summarizes the corridor components that are experiencing a LOS D or worse during all peak periods.

As previously noted, there are numerous future development and growth factors included in the Tidewater traffic model that will result in continued future growth within the I-64 corridor and within the region. This growth will result in increased traffic volumes that are anticipated to cause future capacity issues and projected increased congestion throughout the I-64 corridor.

Table 40: Corridor Facilities Projected to Operate at Deficient LOS, 2040 No-Build Conditions

| Facility | Deficiency | Deficient l Faci | |
|--|------------------------------------|---------------------|-----------|
| I-64 Mainline | 67 of 75 miles Eastbound direction | 89% | 83% |
| (LOS D/E/F) | 58 of 75 miles Westbound direction | 77% | (average) |
| Interchanges (LOS D/E/F) | 24 of 25 interchanges | 96 | % |
| Cross Street Intersections (LOS E/F) ¹² | 13 of 38 intersections | 34 | % |

Also described in the Analysis of Existing Conditions section, there are a number of other key factors contributing to the capacity issues within the I-64 Study corridor which are expected to be maintained and/or increase in future conditions, including: military personnel, civilian workforce and freight movements to/from/between military facilities; a wide variety of freight traffic in and out of the Port of Virginia; and economic development needs associated with new and expanding facilities along the I-64 corridor and in the region. Specifically, freight traffic is expected to increase within the region by 50% ¹³ mainly as a result from the Port of Virginia expansions and improvements discussed in the Intermodal Study. Furthermore, future development of residential, commercial, and industrial facilities is expected to continue to increase in future years according to the data in the Tidewater traffic model. Overall, each of these components is anticipated to add to the existing capacity issues and will thus result in continued and additional unacceptable LOS for the I-64 mainline and the interchanges.

¹³ Hampton Roads Transportation Planning Organization, *Traffic Impact of an Inland Port in Hampton Roads*, September 2011

¹² The analysis of future no-build conditions includes optimization of existing signal phasing or timing. It is the standing operating purpose of VDOT and of localities that maintain their own signals to periodically optimize their traffic signal operations. However, any improvements beyond that, such as signalizing existing stop-controlled intersections or installing additional turn lanes, are not included as a part of the No-Build analysis.



V. Analysis of Future Build Conditions

A. Transportation Systems Management (TSM) / Travel Demand Management (TDM) Strategies

TSM/TDM strategies would involve only minor work to the existing I-64 corridor. TSM strategies improve traffic flow, improve signalization, implement managed lanes, improve intersections, and implement traveler information programs. TDM encourages new driving habits through staggered commuting hours, telecommuting, car and vanpooling, ridesharing, and the creation of park and ride facilities. Possible TSM/TDM opportunities for the I-64 corridor include:

- Optimizing traffic signal timings, and pursuing strategies to better coordinate traffic signals such as adaptive signal control
- Encouraging commuters to carpool/vanpool to work by expanding park and ride lots, using
 educational campaigns to promote carpooling, and working with major regional employers (e.g.
 the Navy in Hampton Roads area and state government in the Richmond area) to promote
 staggered work hours and/or telecommuting
- Making minor geometric improvements to improve safety and capacity, such as correcting
 existing geometric deficiencies and providing weaving lanes between closely-spaced interchanges
 where none exist
- Encouraging transit as an alternative to driving, by enhancing existing transit options within the corridor, particular in the urban areas at either end of the corridor
- Preserving and improving pedestrian/bicyclist accommodations for roads crossing over or under I-64

As described in the *Alternatives Development Technical Memorandum*, the TSM/TDM strategies are not expected to have any meaningful impact to either the volumes or the capacity of mainline I-64. Therefore, they have been eliminated from further study as an individual stand-alone alternative. However, TSM/TDM improvements can be pursued independently or as part of one of the build alternatives to provide for additional low-cost options for improving the transportation conditions within the I-64 study area.

B. Alternatives 1A/1B – Additional General Purpose Lanes

Alternatives 1A/1B involve constructing additional general purpose travel lanes along the I-64 mainline. The number of lanes proposed to be added to I-64 mainline along with typical sections showing the lane configurations are shown in **Figure 11** for Alternative 1A and in **Figure 12** for Alternative 1B.

Although there are numerous possible combinations for adding these lanes, Alternative 1A involves widening exclusively to the outside, while Alternative 1B involves widening into the median to the greatest extent practicable. Further discussion of the differences between Alternative 1A and 1B, including the anticipated footprints of those Alternatives, can be found in the *Alternatives Development Technical Memorandum*. However, for the purposes of the development of travel demand forecasts and capacity analysis, these two alternatives are identical.

The starting point for the development of Alternatives 1A/1B volumes was the 2040 No-Build capacity analysis. Alternatives 1A/1B intend to provide additional roadway capacity to mitigate the inadequate levels of service projected in the No-Build scenario by providing one or more additional general purpose lanes in each direction along the entire length of I-64 between I-95 and I-664. **Table 41** compares the 2040 projected ADT volumes for the I-64 mainline links for the No-Build, 1A/1B, 2A/2B, and 3 Alternatives.



Table 41: Comparison of ADTs

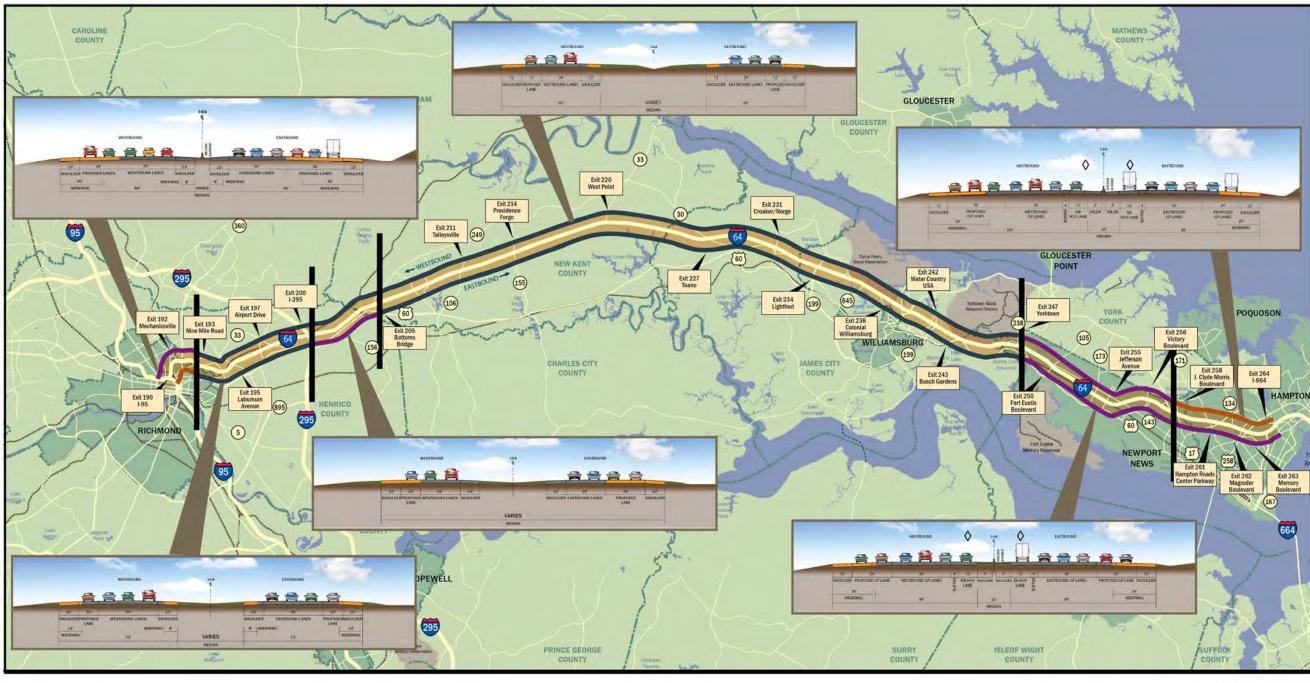
| Segment | From Exit | To Exit | 2011 (Existing) | 2040 No- Build | 2040 Alternative 1A/1B | 2040 Alternative 2A/2B | 2040 Alternative 3 |
|---------|--------------|-----------|--------------------|-------------------|------------------------------|------------------------------|--------------------------|
| 01 | 190 | 192 | 95,400 | 140,800 | 164,100 | 160,000 | 149,500 |
| 02 | 192 | 193 | 74,900 | 111,400 | 129,300 | 125,000 | 116,000 |
| 03 | 193 | 194 | 59,400 | 89,200 | 103,300 | 98,900 | 90,700 |
| 03A | 194 | 195 | 59,400 | 91,900 | 106,200 | 101,600 | 93,000 |
| 04 | 195 | 197 | 47,300 | 73,500 | 78,600 | 74,200 | 66,700 |
| 05 | 197 | 200 | 38,500 | 55,300 | 70,400 | 67,700 | 61,900 |
| 06 | 200 | 205 | 66,500 | 102,200 | 113,200 | 106,600 | 97,700 |
| 07 | 205 | 211 | 60,800 | 84,300 | 102,500 | 96,200 | 85,800 |
| 08 | 211 | rest area | 62,000 | 85,700 | 107,000 | 100,400 | 90,400 |
| 9 | rest area | 214 | 62,000 | 85,700 | 107,000 | 100,400 | 90,400 |
| 10 | 214 | 220 | 60,200 | 86,900 | 104,600 | 97,200 | 87,000 |
| 11 | 220 | 227 | 53,000 | 76,100 | 81,700 | 75,000 | 68,300 |
| 12 | 227 | 231 | 58,200 | 95,400 | 98,600 | 85,000 | 80,300 |
| 13 | 231 | 234 | 64,900 | 99,900 | 102,500 | 88,000 | 82,600 |
| 14 | 234 | 238 | 61,300 | 94,800 | 107,900 | 102,000 | 96,600 |
| 15 | 238 | 242 | 64,000 | 99,500 | 107,200 | 100,500 | 96,700 |
| 16 | 242 | 243 | 81,700 | 103,100 | 111,500 | 106,800 | 102,100 |
| 17 | 243 | 247 | 83,300 | 111,300 | 119,500 | 113,300 | 108,600 |
| 18 | 247 | 250 | 87,600 | 121,200 | 132,400 | 127,000 | 122,400 |
| 19 | 250 | 255 | 95,200 | 131,200 | 142,800 | 138,700 | 130,800 |
| 20 | 255 | 256 | 117,400 | 145,100 | 155,600 | 149,500 | 143,500 |
| 21 | 256 | 258 | 131,800 | 167,100 | 175,500 | 167,100 | 162,900 |
| 22 | 258 | 261 | 138,200 | 174,600 | 194,100 | 188,000 | 182,900 |
| 23 | 261 | 262 | 126,000 | 156,900 | 167,100 | 154,900 | 149,300 |
| 24 | 262 | 263 | 155,800 | 199,200 | 212,100 | 198,600 | 193,600 |
| 25 | 263 | 264 | 151,800 | 195,800 | 208,300 | 195,000 | 184,200 |

As a starting point, one additional lane in each direction was coded in the Tidewater model used to develop the No-Build forecasts. Link volumes were obtained using the same procedures used to develop the 2040 No-Build forecast. Link output was post-processed using the methods described in the NCHRP 255 report to estimate daily traffic volumes for each link.

Daily ramp volumes were estimated by factoring the difference between the projected No-Build and Alternatives 1A/1B daily link volumes on the adjacent freeway links; side street daily volumes were similarly estimated by factoring the difference between the No-Build and Build forecasts to the total ramp volumes to and from the side streets. Daily volumes were manually adjusted for balance between intersections.

Peak volumes were estimated by applying the K-factors used in the No-Build forecast to the post-processed 2040 Build Alternatives 1A/1B daily volumes. Peak volumes were manually adjusted for balance. The 2040 Alternatives 1A/1B balanced volumes for the I-64 mainline freeway segments, ramps, and cross-street intersections are given in **Appendix G.**





LEGEND

= One Additional Lane

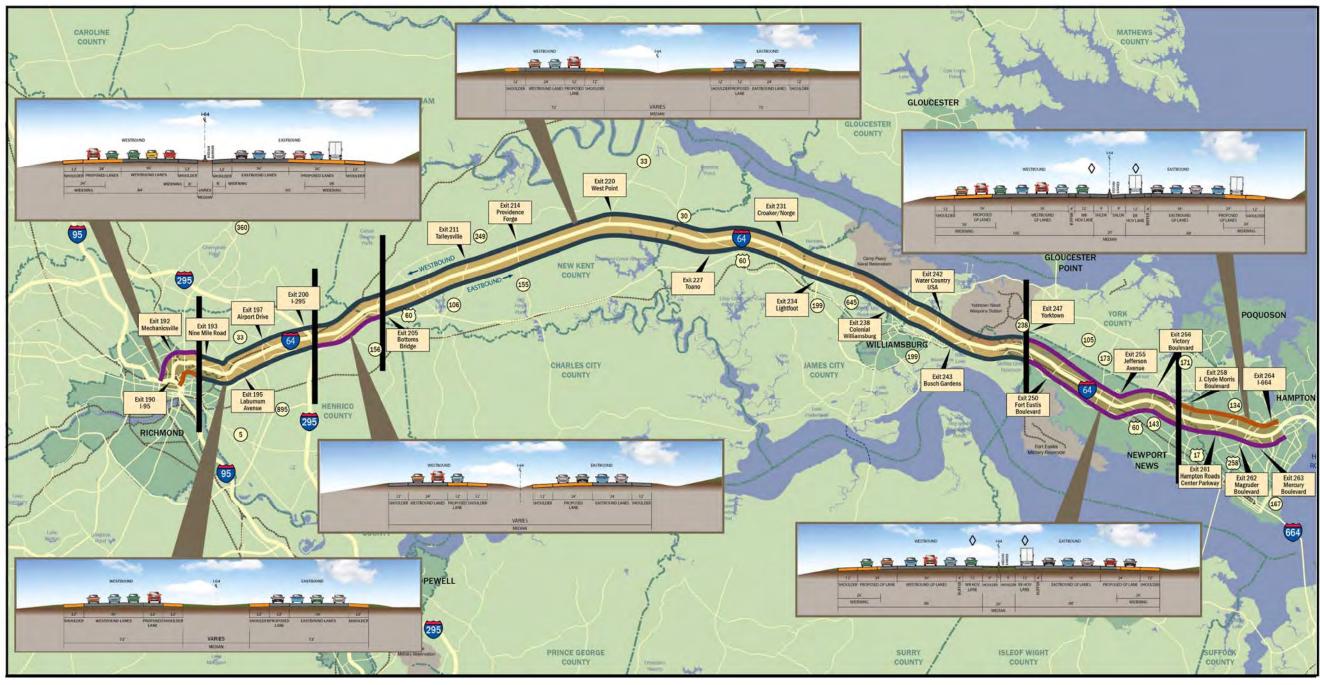
= Two Additional Lanes

Three Additional Lanes

Figure 11
Proposed Number of Additional Lanes for
Build Alternatives 1A and 2A









* Not all sections of the I-64 corridor have sufficient median area to accommodate the addition of any lanes. In these areas, the facility is proposed to be widened to the outside in order to accommodate the managed lanes in between the eastbound and westbound general purpose travel lanes.

Figure 12
Proposed Number of Additional Lanes for
Build Alternatives 1B and 2B





The initial development of the Alternatives 1A/1B volumes using the Tidewater travel demand model evaluated addition of one lane of capacity in each direction. However, adding additional capacity to I-64 attracts additional traffic to that road. Initial capacity analysis of Alternatives 1A/1B with one additional lane of capacity showed that some freeway segments would operate below a LOS C. As a result, Alternatives 1A/1B were modified to provide additional widening at those locations in order to achieve a LOS C on all segments of the I-64 Study corridor, as shown in **Figure 11 and 12**.

Comparison of the Alternatives 1A/1B volumes with the No-Build volumes shows that provision of additional mainline capacity attracts higher volumes of traffic, with both daily and peak hour volumes generally higher than the 2040 No-Build volumes. Compared to the No-Build scenario, Alternatives 1A/1B daily volumes are substantially higher in the Richmond area (as much as 27 percent), with smaller changes on the eastern end of the study area (between 6 and 14 percent east of Exit 234). Peak hour volumes show similar trends.

C. Alternative 2A/2B Volumes – Full Tolling

The difference between these alternatives and Alternatives 1A/1B are that the Full Toll Lanes Alternatives include tolling of the entire facility. However, as of the time of this study, there is no Federal or State agreement in place that would allow for the tolling of this existing interstate facility. Therefore, based on the legislation governing tolling, these alternatives may or may not be possible in the future. Because tolling could be a future option, these alternatives were considered in the range of possible alternatives evaluated.

For the purposes of this study, it was assumed that if the facility is tolled, the tolling will be for all vehicles, in both directions, and for the entire length of the corridor from I-95 in Richmond to I-664 in Hampton. It was also assumed that for maximum collection purposes, that there will be toll collection stations, using overhead gantries and all-electronic tolling (i.e. all tolls will be collected at highway speeds), for every interchange-to-interchange segment of I-64. However, it is expected that if Alternative 2A or 2B is identified as the Preferred Alternative, subsequent studies will refine the specifics of the tolling and develop the financial projections for tolling operations. Those financial studies may determine that it makes more sense to toll only a portion of the I-64 corridor or to only place gantries within certain segments.

Development of traffic forecasts for this alternative assumed that the same distance-based toll would be charged to all users of I-64. Due to limitations of the Tidewater Model it was only possible to assume that all vehicles (including trucks and HOV vehicles) are charged the same toll rate. Furthermore, diversion effects that might be more pronounced during off-peak periods when there is less congestion in urban areas, could not be modeled explicitly because the Tidewater Model is a daily (24-hour) model.

A range of toll rates was modeled, with toll rates based on per-mile rates at comparable toll facilities on the east coast of the United States. Toll rates for comparable facilities are shown in **Table 42.**

Excluding the high outliers in **Table 42**, the average per-mile rate, based on the bold entries, is \$0.15/mile. Toll sensitivity modeling runs with rates of \$0.075/mile, \$0.15/mile and \$0.225/mile were performed to test the sensitivity of the Tidewater to toll rates. Based on these results, the Tidewater appeared to provide a sufficiently robust basis for developing planning-level estimates of daily traffic diversions using basic toll strategies such as distance-based or point tolls.

For the final model run, a toll rate of \$0.15/mile was assumed, which is in line with current toll rates on the facilities examined.



Length of **Facility** Full Trip Rate/Mile Toll (miles) \$ **Dulles Toll Road** 16.2 1.50 0.093 12.5 \$ 4.80 0.383 Dulles Greenway (peak) \$ Dulles Toll Road and Greenway 28.7 0.220 6.30 \$ ICC (peak) 14.1 4.00 0.285 \$ 0.039 Delaware Route 1 (weekdays) 51 2.00 Delaware and Maryland I-95 (northbound) 59.2 \$ \$ 0.169 10 New Jersey Turnpike 113 \$ 13.85 \$ 0.123 Delaware and Maryland I-95 (two-way) \$ 14.00 0.118 118.4

Table 42: Toll Rates on Comparable Facilities

The model output from the \$0.15/mile toll rate runs was compared to the Alternatives 1A/1B model runs, and daily volumes were adjusted proportionally to obtain Alternatives 2A/2B volumes. The resulting daily volumes were manually adjusted for balance between interchanges. The existing K-factors were used as a starting point to obtain peak hour volumes, which were also manually adjusted for balance.

The 2040 Alternatives 2A/2B projected ADT volumes for the I-64 mainline links are provided in **Table 40**. The 2040 Alternatives 2A/2B balanced volumes for the I-64 mainline freeway segments, ramps, and cross-street intersections are given in **Appendix I**.

Comparison of the Alternatives 1A/1B and 2A/2B volumes shows that under Alternative 2A/2B, daily volumes on I-64 are between 2 and 14 percent lower, with the most substantial differences occurring in the mid-section of the study (between Exits 227 and 238). Peak hour volumes show a similar trend.

The largest reductions in traffic volumes on I-64 are projected to occur on the "eastern" section of I-64 (east of Exit 214), while network congestion and lack of parallel alternate routes limit opportunity for diversion in Richmond area. Some of the traffic on I-64 is seen diverting to US 60; the raw model assignment indicates increases in link volumes along US 60 from 4 percent between Laburnum Avenue and Airport Drive in the Richmond area to 6.5 percent south of Williamsburg.

Other free parallel alternate routes such as VA Route 5 and US 17 are not projected to see major diversion of traffic from I-64. The substantial additional time these routes add to long-distance trips between Richmond and Hampton Roads limit their attractiveness as a primary alternate route. The model runs for Alternatives 2A/2B showed a negligible impact on US 460. The raw assignment showed very little change in daily volumes, which is in line with previous studies and in line with expectations. A select link analysis along I-64 showed approximately 10 percent of all trips originating and ending in Richmond and Hampton Roads (and beyond). This indicates that I-64 and US 460 compete for a limited number of true long-distance trips. The considerable additional distance that US 460 adds to a trip between Richmond and Hampton roads further limits the attractiveness of US 460 as a viable parallel route.

D. Alternative 3 Volumes – Managed Lanes

This alternative involves the addition of managed lanes located in the median and/or in between the eastbound and westbound general purpose travel lanes. These managed lanes were examined for the entire length of the I-64 study area from I-95 in Richmond to I-664 in Hampton. As previously described, not all sections of the I-64 corridor have sufficient median area to accommodate the addition of any lanes.



In these areas, the facility is proposed to be widened to the outside in order to accommodate the managed lanes in between the eastbound and westbound general purpose travel lanes.

Managed lanes can refer to many different strategies, including:

- High-Occupancy Vehicle (HOV) lanes lanes that are open only to vehicles with multiple occupants. Typically HOV lanes allow buses but exclude trucks. Variables include:
 - o Breadth of HOV lanes (i.e. where do they start and end).
 - Number of HOV lanes.
 - Occupancy restrictions (2+ or 3+).
 - o Time of day/day of week restrictions, if any.
 - Locations of access points to and from the HOV lanes, at intermediate locations as well as the end points.
 - o Separation between the HOV lanes and the general purpose lanes (barrier, painted buffer area, double white line).
- High Occupancy/Toll (HOT) lanes very similar to HOV lanes except that single-occupant vehicles can also drive in the HOT lanes if they pay a fee. Variables include:
 - o Breadth of HOT lanes (i.e. where do they start and end).
 - Number of HOT lanes.
 - Occupancy restrictions (2+ or 3+) Toll rate (variable or fixed) for single-occupant vehicles.
 - Locations of access points to and from the HOT lanes, at intermediate locations as well as the end points.
 - o Separation between the HOT lanes and the general purpose lanes (barrier, painted buffer area, double white line).
- Express Toll Lanes (ETL) very similar to HOT lanes except there are no discounts for multiple-occupancy vehicles. Variables include:
 - o Breadth of ETL lanes (i.e. where do they start and end).
 - o Number of ETL lanes.
 - o Toll rate (variable or fixed).
 - o Locations of access points to and from the ETL lanes, at intermediate locations as well as the end points.
 - o Separation between the ETL lanes and the general purpose lanes (barrier, painted buffer area, double white line).
- Express Bus Lanes (EBL) lanes for the exclusive use of public transit buses. These could potentially include bus transit stations within the highway right-of-way (ROW). Variables include:
 - o Breadth of EBL lanes (i.e. where do they start and end).
 - o Locations of access points to and from the EBL lanes, at intermediate locations as well as the end points.
 - o Location of express bus transit stations, if any separation between the EBL lanes and the general purpose lanes (barrier, painted buffer area, double white line).

For any of the managed lanes that involve toll collection (HOT or ETL lanes), traditional toll plazas were not considered. All toll collection would be done by overhead gantries with all-electronic tolling used to collect all tolls at highway speeds.

The EIS study will also not identify what type of managed lanes will be constructed. The purpose of this study is not to establish the ultimate management scheme (including toll rates), but rather to explore ways in which overall demand can be managed to achieve acceptable levels of service. Moreover, if Alternative



3 is identified as the Preferred Alternative, subsequent studies will refine the specifics of the managed lanes throughout the I-64 corridor.

Managed lanes are most effective when the LOS in adjacent general purpose lanes is sufficiently poor, so as to provide an incentive for a driver to use the managed lane. An initial HCS analysis was performed on the Alternative 1 peak hour volumes to determine whether general purpose and managed lane traffic could be distributed to maintain a sufficiently low LOS in the general purpose lanes (D or worse) and sufficiently high LOS in the managed lanes (B or better). Based on this initial analysis, a lane configuration of two reversible managed lanes between I-95 and Exit 214, one managed lane between Exit 214 and Exit 243, and two managed lanes between Exit 243 and I-664 was tested, as shown in **Figure 13**.

After consultation with the VDOT Transportation & Mobility Planning Division, the managed lanes were coded in the Tidewater Super-Regional Model with the following assumptions and model modifications:

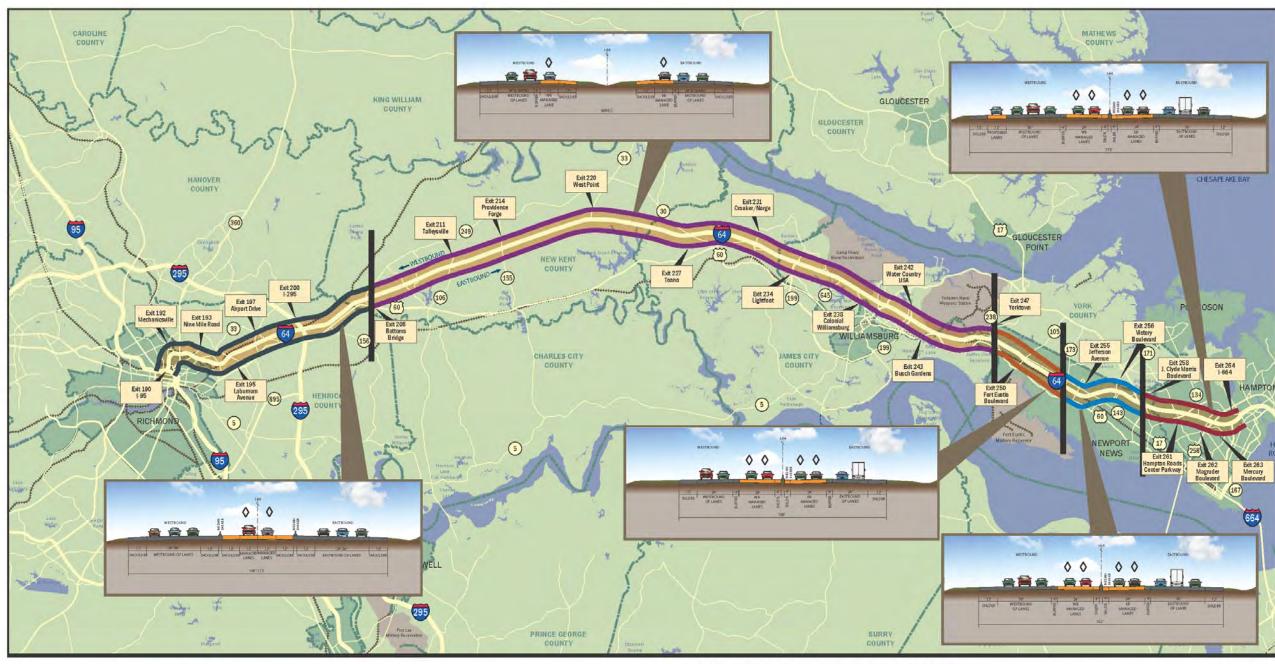
- Value of Time (VOT):
 - o 37 cents/minute in Richmond area.
 - o 20 cents/minute in Hampton Roads.
- Managed Lane toll rate: 22.5 cents/mile.
- Managed Lane coding: Free-flow speeds increased 2-4 mph for managed lanes compared to general purpose lanes to initially attract traffic in the free flow condition.

No direct managed lane access at interchanges was assumed.

The model output for the Alternative 3 run was compared to the Alternatives 1A/1B model runs, and daily volumes were adjusted proportionally to obtain final Alternative 3 volumes. The resulting daily volumes were manually adjusted for balance between interchanges. The 2040 Alternative 3 projected ADT volumes for the I-64 mainline links are provided in **Table 40**. The existing k-factors were used as a starting point to obtain peak hour volumes, which were also manually adjusted for balance. The proportions of peak hour traffic in the general purpose/managed lanes obtained from the initial HCS analysis were maintained to establish general purpose and managed lane peak hour volumes. The 2040 Alternative 3 balanced volumes for the I-64 mainline freeway segments, ramps, and cross-street intersections are given in **Appendix K**.

A review of the resulting peak hour volumes indicated that reversible lanes between I-95 and Exit 214 could be feasible due to the strong directionality of inbound and outbound peak hour volumes to and from the Richmond area during the AM and PM peak hours, respectively.





LEGEND



- = Two Reversible Managed Lanes in the Median
- = One Managed Lanes in Each Direction in the Median
- = Two Managed Lanes in Each Direction in the Median
- = Two Managed Lanes in Each Direction in the Median
- = Two Managed Lanes in Each Direction in the Median Plus One Additional Westbound Lane
- * If Alternative 3 is selected, subsequent studies will define the specific type of managed lanes, lane needs and locations, access to and from the managed lanes, along with end points and transition zones for the managed lanes along with the needed general purpose lanes.
- ** Not all sections of the I-64 corridor have sufficient median area to accommodate the addition of any lanes. In these areas, the facility is proposed to be widened to the outside in order to accommodate the managed lanes in between the eastbound and westbound general purpose travel lanes.

Figure 13
Proposed Number of Additional Lanes for
Build Alternative 3





E. Freeway Capacity Analysis

In general terms, a basic freeway segment is the part of a limited access highway that extends from one interchange to the next. Each direction of a freeway operates independently of the other; therefore, segments are defined separately for each direction—i.e., eastbound lanes are one segment; westbound lanes are a separate segment. For the analysis of I-64 freeway segments, the corridor was divided into 27 eastbound segments and 27 westbound segments. **Table 8** defines the LOS for basic freeway segments according to vehicular density, which is defined in terms of passenger cars, per mile, per lane (pc/mi/ln).

1. Alternatives 1A/1B

Table 43 summarizes the freeway segment analysis of Weekday Non-Summer AM and PM peak hours for the entire corridor.

In the ultimate configuration for Alternative 1, all but one segment is projected to operate at LOS C or B. It should be noted that the one remaining segment (eastbound I-64 between Exits 195 and 197) operating at LOS D is within 1 percent of the LOS C/D threshold.

2. Alternatives 2A/2B

Table 44 summarizes the freeway segment analysis of Weekday Non-Summer AM and PM peak hours for the entire corridor.

The generally lower peak hour traffic volumes under Alternative 2A/2B, compared to Alternatives 1A/1B, result in levels of service which are generally better, particularly along westbound I-64 during the PM peak. Under the ultimate build configuration for Alternative 2A/2B, all segments are projected to operate at LOS C or better.

3. Alternative 3

Levels of service for the general purpose and managed lanes are provided separately, in **Tables 45 and 46** respectively.

The freeway capacity analysis for Alternative 3 analyzed each general purpose and managed lane segment individually. The analyses assume that there are access points between the general purpose and managed lanes within each segment.

Compared to Alternative 2, fewer segments are performing at LOS C or better; however, this was expected given the LOS guidelines that were followed (i.e., the LOS in a general purpose lane should be sufficiently low to encourage use of the managed lane). Two general purpose segments are projected to operate at LOS F.

All managed lane segments operate at LOS B or better.



Table 43: 2040 Build Alternatives 1A/1B Freeway Segment Level of Service – Non-Summer Weekday Peak

| | | | | | | d Eastbound | | 2040 Build Westbound | | | | |
|---------|-----------|-----------|-----------------|--------------|---------|--------------|---------|----------------------|---------|--------------|---------|--|
| Segment | From Exit | To Exit | Lanes | AM Peak | AM Peak | PM Peak | PM Peak | AM Peak | AM Peak | PM Peak | PM Peak | |
| | | | | Volume (vph) | LOS | Volume (vph) | LOS | Volume (vph) | LOS | Volume (vph) | LOS | |
| 01 | 190 | 192 | 6 EB, 5 WB | 5155 | С | 8675 | N/A** | 8065 | С | 5750 | В | |
| 02 | 192 | 193 | 10 | 3680 | С | 6800 | С | 6690 | С | 4500 | В | |
| 03 | 193 | 195 | 8 | 2960 | В | 6175 | С | 5580 | С | 3610 | В | |
| 04 | 195 | 197 | 6 | 2065 | A | 4940 | D | 4475 | С | 2650 | В | |
| 05 | 197 | 200 | 6 | 1490 | A | 3925 | С | 3620 | С | 2215 | В | |
| 06 | 200 | 205 | 4 EB, 3 WB | 3105 | В | 5110 | С | 4780 | C | 3645 | C | |
| 07 | 205 | 211 | 6 | 2705 | В | 3640 | В | 3050 | В | 3125 | В | |
| 08 | 211 | rest area | 6 | 3110 | В | 3970 | С | 3335 | В | 3500 | В | |
| 9 | rest area | 214 | 6 | 3110 | В | 3970 | C | 3335 | В | 3500 | В | |
| 10 | 214 | 220 | 6 | 3060 | В | 3820 | С | 3100 | В | 3525 | В | |
| 11 | 220 | 227 | 6 | 2455 | В | 2695 | В | 2040 | A | 2810 | В | |
| 12 | 227 | 231 | 6 | 3415 | C | 3280 | В | 2470 | В | 3685 | C | |
| 13 | 231 | 234 | 6 | 3900 | С | 3425 | В | 2550 | В | 4100 | C | |
| 14 | 234 | 238 | 6 | 4120 | C | 3500 | C | 2555 | В | 4500 | C | |
| 15 | 238 | 242 | 6 | 3985 | C | 3675 | В | 2840 | В | 4310 | C | |
| 16 | 242 | 243 | 6 | 4395 | C | 3770 | C | 3300 | В | 4420 | C | |
| 17 | 243 | 247 | 6 | 4435 | C | 3800 | С | 3790 | С | 4835 | С | |
| 18 | 247 | 250 | 8 | 5505 | C | 4485 | В | 4335 | C | 5430 | C | |
| 19 | 250 | 255 | 8 | 5885 | C | 5625 | С | 5260 | С | 5820 | С | |
| 20 | 255 | 256 | 8+2* | 6455 | C | 6130 | С | 5795 | С | 6840 | С | |
| 21 | 256 | 258 | 10+2* | 8325 | C | 6970 | С | 5990 | В | 8200 | C | |
| 22 | 258 | 261 | 5+1 EB, 6+1 WB* | 7450 | C | 6440 | С | 7670 | C | 10260 | C | |
| 23E | 261 | 262 | 4+1 EB* | 6485 | C | 5490 | С | | | | | |
| 23W | 261 | 262 | 5+1 WB* | | | | | 6360 | С | 8465 | C | |
| 24 | 262 | 263 | 5+1 EB, 6+1 WB* | 8020 | C | 6975 | С | 7950 | С | 10025 | С | |
| 25E | 263 | 264 | 5+1 EB* | 7480 | C | 5885 | В | | | | | |
| 25W | 263 | 264 | 6+1 WB* | | | | | 7320 | В | 9825 | С | |

^{*} For these segments, the number of lanes includes one HOV lane. For purpose of analysis, we assumed, based on data provided by VDOT, the following percentages of through traffic used the HOV lane:

We then conducted analyses of the non-HOV portion of these segments by reducing the number of lanes by one and reducing the segment volume by the stated HOV-lane usage.

[•] Eastbound I-64 during AM peak hour: 7%

[•] Eastbound I-64 during PM peak hour: 5%

[•] Westbound I-64 during AM peak hour: 4%

[•] Westbound I-64 during PM peak hour: 8%



Table 44: 2040 Build Alternative 2A/2B Freeway Segment Level of Service – Non-Summer Weekday Peak

| | | | | | | d Eastbound | 1,01 | 2040 Build Westbound | | | | |
|---------|-----------|-----------|-----------------|--------------|---------|--------------|---------|----------------------|---------|--------------|---------|--|
| Segment | From Exit | To Exit | Lanes | AM Peak | AM Peak | PM Peak | PM Peak | AM Peak | AM Peak | PM Peak | PM Peak | |
| | | | | Volume (vph) | LOS | Volume (vph) | LOS | Volume (vph) | LOS | Volume (vph) | LOS | |
| 01 | 190 | 192 | 6 EB, 5 WB | 4925 | С | 8385 | N/A** | 7910 | С | 5485 | В | |
| 02 | 192 | 193 | 10 | 3475 | В | 6385 | С | 6500 | С | 4205 | В | |
| 03 | 193 | 195 | 8 | 2755 | В | 5750 | С | 5390 | С | 3315 | В | |
| 04 | 195 | 197 | 6 | 1870 | A | 4625 | С | 4285 | С | 2355 | В | |
| 05 | 197 | 200 | 6 | 1310 | A | 3635 | С | 3550 | В | 2020 | A | |
| 06 | 200 | 205 | 4 EB, 3 WB | 2865 | В | 4715 | C | 4600 | C | 3305 | В | |
| 07 | 205 | 211 | 6 | 2470 | В | 3315 | В | 2860 | В | 2775 | В | |
| 08 | 211 | rest area | 6 | 2805 | В | 3500 | В | 3120 | В | 3130 | В | |
| 9 | rest area | 214 | 6 | 2805 | | 3500 | | 3120 | | 3130 | | |
| 10 | 214 | 220 | 6 | 2675 | В | 3275 | В | 2905 | В | 3160 | В | |
| 11 | 220 | 227 | 6 | 2095 | В | 2195 | В | 1880 | A | 2465 | В | |
| 12 | 227 | 231 | 6 | 2930 | В | 2685 | В | 2150 | В | 3225 | В | |
| 13 | 231 | 234 | 6 | 3350 | В | 2800 | В | 2225 | В | 3610 | C | |
| 14 | 234 | 238 | 6 | 3795 | C | 3180 | В | 2495 | В | 4235 | C | |
| 15 | 238 | 242 | 6 | 3715 | С | 3395 | В | 2710 | В | 4050 | C | |
| 16 | 242 | 243 | 6 | 4360 | C | 3630 | В | 3195 | В | 4180 | C | |
| 17 | 243 | 247 | 6 | 4380 | C | 3645 | В | 3590 | В | 4460 | C | |
| 18 | 247 | 250 | 8 | 5650 | С | 4385 | В | 4165 | С | 5095 | C | |
| 19 | 250 | 255 | 8 | 6025 | C | 5450 | C | 5250 | C | 5640 | C | |
| 20 | 255 | 256 | 8+2* | 6500 | C | 5865 | C | 5725 | C | 6685 | C | |
| 21 | 256 | 258 | 10+2* | 8220 | C | 6630 | C | 5875 | В | 8030 | C | |
| 22 | 258 | 261 | 5+1 EB, 6+1 WB* | 7415 | C | 6275 | C | 7770 | C | 10255 | C | |
| 23E | 261 | 262 | 4+1 EB* | 6315 | C | 5245 | С | | | | | |
| 23W | 261 | 262 | 5+1 WB* | | | | | 6190 | C | 8060 | C | |
| 24 | 262 | 263 | 5+1 EB, 6+1 WB* | 7800 | С | 6745 | С | 7730 | C | 9565 | С | |
| 25E | 263 | 264 | 5+1 EB* | 7280 | С | 5685 | В | | | | | |
| 25W | 263 | 264 | 6+1 WB* | | | | | 7120 | В | 9370 | С | |

^{*} For these segments, the number of lanes includes one HOV lane. For purpose of analysis, we assumed, based on data provided by VDOT, the following percentages of through traffic used the HOV lane:

We then conducted analyses of the non-HOV portion of these segments by reducing the number of lanes by one and reducing the segment volume by the stated HOV-lane usage.

[•] Eastbound I-64 during AM peak hour: 7%

[•] Eastbound I-64 during PM peak hour: 5%

[•] Westbound I-64 during AM peak hour: 4%

[•] Westbound I-64 during PM peak hour: 8%



Table 45: 2040 Build Alternative 3 Freeway Segment Level of Service - Non-Summer Weekday Peak - General Purpose Lanes

| | | | | | 2040 Buil | d Eastbound | | 2040 Build Westbound | | | | |
|---------|-----------|-----------|-------|--------------|-----------|--------------|---------|----------------------|---------|--------------|---------|--|
| Segment | From Exit | To Exit | Lanes | AM Peak | AM Peak | PM Peak | PM Peak | AM Peak | AM Peak | PM Peak | PM Peak | |
| | | | | Volume (vph) | LOS | Volume (vph) | LOS | Volume (vph) | LOS | Volume (vph) | LOS | |
| 01 | 190 | 192 | 4 | 4720 | C | 6350 | C | 5965 | C | 5315 | C | |
| 02 | 192 | 193 | 3 | 3365 | В | 5760 | D | 5495 | D | 4100 | С | |
| 03 | 193 | 195 | 3 | 2635 | В | 5130 | D | 4500 | C | 3230 | В | |
| 04 | 195 | 197 | 3 | 1870 | A | 4080 | С | 3510 | В | 2255 | В | |
| 05 | 197 | 200 | 2 | 1375 | A | 2965 | С | 3000 | С | 2020 | В | |
| 06 | 200 | 205 | 2 | 2845 | С | 3925 | D | 3885 | D | 3195 | D | |
| 07 | 205 | 211 | 2 | 2360 | C | 2870 | С | 2430 | C | 2655 | C | |
| 08 | 211 | rest area | 2 | 2535 | C | 3065 | С | 2710 | C | 2880 | C | |
| 9 | rest area | 214 | 2 | 2535 | C | 3065 | С | 2710 | C | 2880 | C | |
| 10 | 214 | 220 | 2 | 2400 | С | 2850 | С | 2515 | C | 2880 | С | |
| 11 | 220 | 227 | 2 | 1945 | В | 2045 | В | 1720 | В | 2305 | C | |
| 12 | 227 | 231 | 2 | 2680 | C | 2555 | С | 1995 | В | 2885 | С | |
| 13 | 231 | 234 | 2 | 3095 | D | 2635 | С | 2045 | В | 3005 | C | |
| 14 | 234 | 238 | 2 | 3500 | D | 2995 | С | 2255 | В | 3945 | E | |
| 15 | 238 | 242 | 2 | 3485 | D | 3245 | D | 2470 | C | 3900 | ${f E}$ | |
| 16 | 242 | 243 | 2 | 4075 | E | 3550 | D | 2910 | С | 3850 | D | |
| 17 | 243 | 247 | 2 | 4090 | E | 3555 | D | 3295 | D | 4105 | E | |
| 18 | 247 | 250 | 2 | 4430 | F | 4350 | E | 3650 | D | 4165 | E | |
| 19 | 250 | 255 | 2 | 4405 | ${f E}$ | 4180 | E | 3995 | E | 4250 | ${f E}$ | |
| 20 | 255 | 256 | 3 | 6075 | E | 5735 | D | 5280 | D | 6345 | E | |
| 21 | 256 | 258 | 3 | 6590 | ${f E}$ | 6555 | E | 5460 | D | 6365 | E | |
| 22 | 258 | 261 | 3 | 6305 | ${f E}$ | 6085 | E | 6360 | E | 8080 | F | |
| 23E | 261 | 262 | 4 | 5990 | С | 5085 | С | | | | | |
| 23W | 261 | 262 | 3 | | | | | 5585 | D | 5905 | D | |
| 24 | 262 | 263 | 4 | 6390 | C | 6505 | D | 5985 | C | 7555 | D | |
| 25E | 263 | 264 | 4 | 6165 | С | 5295 | С | | | | | |
| 25W | 263 | 264 | 5 | | | | | 6165 | С | 7380 | С | |

Note: General purpose lanes and managed lanes were analyzed as separate facilities, with the assumption that weaving between GPL and ML occurs before and after interchanges. The HCM 2010 freeway capacity analysis procedures were then applied separately to the general purpose lanes and the managed lanes. For single-lane managed lane facilities, the volume was compared against the typical maximum capacity of a single lane of 2400 passenger cars per hour.



Table 46: 2040 Build Alternative 3 Freeway Segment Level of Service – Non-Summer Weekday Peak – Managed Lanes

| | 2040 Build Eastbound 2040 Build Westbound | | | | | | | | | | |
|---------|---|-----------|--|--------------|---------|--------------|---------|--------------|---------|--------------|---------|
| Segment | From Exit | To Exit | Lanes | AM Peak | AM Peak | PM Peak | PM Peak | AM Peak | AM Peak | PM Peak | PM Peak |
| | | | | Volume (vph) | LOS |
| 01 | 190 | 192 | 2 | 0 | - | 1585 | В | 1490 | В | 0 | - |
| 02 | 192 | 193 | 2 | 0 | - | 305 | A | 610 | A | 0 | - |
| 03 | 193 | 195 | 2 | 0 | - | 270 | A | 500 | A | 0 | - |
| 04 | 195 | 197 | 2 | 0 | - | 215 | A | 390 | A | 0 | - |
| 05 | 197 | 200 | 2 | 0 | - | 525 | A | 335 | A | 0 | - |
| 06 | 200 | 205 | 2 | 0 | - | 435 | A | 430 | A | 0 | - |
| 07 | 205 | 211 | 2 | 0 | - | 150 | A | 130 | A | 0 | - |
| 08 | 211 | rest area | 1 | 135 | A | 160 | A | 145 | A | 150 | A |
| 09 | rest area | 214 | 1 | 135 | A | 160 | A | 145 | A | 150 | A |
| 10 | 214 | 220 | 1 | 125 | A | 150 | A | 130 | A | 150 | A |
| 11 | 220 | 227 | 1 | 100 | A | 110 | A | 90 | A | 120 | A |
| 12 | 227 | 231 | 1 | 140 | A | 135 | A | 105 | A | 320 | A |
| 13 | 231 | 234 | 1 | 165 | A | 140 | A | 110 | A | 530 | A |
| 14 | 234 | 238 | 1 | 185 | A | 160 | A | 120 | A | 210 | A |
| 15 | 238 | 242 | 1 | 185 | A | 170 | A | 130 | A | 205 | A |
| 16 | 242 | 243 | 1 | 215 | A | 185 | A | 155 | A | 430 | A |
| 17 | 243 | 247 | 1 | 215 | A | 185 | A | 175 | A | 455 | A |
| 18 | 247 | 250 | 2 | 1105 | A | 230 | A | 405 | A | 1040 | A |
| 19 | 250 | 255 | 2 | 1470 | В | 1395 | A | 1000 | A | 1415 | A |
| 20 | 255 | 256 | 2 | 320 | A | 300 | A | 280 | A | 335 | A |
| 21 | 256 | 258 | 2 | 1645 | В | 345 | A | 285 | A | 1590 | В |
| 22 | 258 | 261 | 2 | 1115 | A | 320 | A | 1120 | A | 2020 | В |
| 23 | 261 | 262 | 2 | 295 | A | 270 | A | 295 | A | 1970 | В |
| 24 | 262 | 263 | 2 | 1595 | В | 340 | A | 1495 | В | 1890 | В |
| 25 | 263 | 264 | 2 ere analyzed as separate faciliti | 1415 | A | 280 | A | 685 | A | 1845 | В |

Note: General purpose lanes and managed lanes were analyzed as separate facilities, with the assumption that weaving between GPL and ML occurs before and after interchanges. The HCM 2010 freeway capacity analysis procedures were then applied separately to the general purpose lanes and the managed lanes. For single-lane managed lane facilities, the volume was compared against the typical maximum capacity of a single lane of 2400 passenger cars per hour.



F. Ramp Merges and Diverges Capacity Analysis

Ramp merges and diverges are the areas where traffic from on-ramps enter a freeway (merge) or traffic from the freeway accesses an off-ramp (diverge). **Table 13** defines the LOS for ramp merges and diverges according to vehicular density, which is defined in terms of passenger cars, per mile, per lane (pc/mi/ln).

1. Alternatives 1A/1B

Table 47 summarizes the Alternative 1 merge and diverge analysis of Weekday Non-Summer AM and PM peak hours for the entire corridor.

The left side of each table describes the exit number, type of ramp, and traffic volumes that characterize each ramp. The right side gives the Density and LOS determined by applying the HCM methodology.

Compared to No-Build conditions during the Non-Summer Weekday peaks, some operational issues remain under Alternative 1. The far ends of the corridor, both in the City of Richmond and near the ports, displayed the most operational issues.

During the Weekday AM peak hour, in the eastbound direction operational issues at merge and diverge ramps are concentrated at Exits 247, 250 and 261 (although LOS F is not projected to occur). In the westbound direction there are isolated merges and diverges operating at LOS D or E; only one diverge at Exit 200 is projected to operate at LOS F. In the combined directions, 15 locations operate at LOS D or E, and one ramp operates at LOS F.

During the Weekday PM peak hour, in the eastbound direction the most substantial operational issues are east of Exit 205, with LOS F remaining at two ramps. Isolated ramps (four locations) operating at LOS D are found at Exits 250, 258 and 261. In the westbound direction, deficient operating conditions are concentrated on the western end of the study area, with typically one merge or diverge operating at LOS D or E at each exit between Exits 238 and 263. One diverge at Exit 200 is projected to operate at LOS F. In the combined directions, 12 locations operate at LOS D or E, and seven operate at LOS F.

2. Alternatives 2A/2B

Table 48 summarizes the Alternative 2 merge and diverge analysis of Weekday Non-Summer AM and PM peak hours for the entire corridor.

Compared to Alternative 1 conditions during the Non-Summer Weekday peaks, operations are slightly better under Alternative 2. Generally, the eastern end of the corridor (east of Exit 247) displayed the most operational issues.

During the Weekday AM peak hour in the eastbound direction, operational issues at merge and diverge ramps are concentrated at Exits 247, 250 and 261 (although LOS F is not projected to occur). In the westbound direction, there are isolated merges and diverges operating at LOS D or E; only one diverge at Exit 200 (I-295) is projected to operate at LOS F. In the combined directions, 15 locations operate at LOS D or E, and one ramp operates at LOS F.

During the Weekday PM peak hour in the eastbound direction, the most substantial operational issues are east of Exit 205, with LOS F remaining at one ramp. Isolated ramps (five locations) operating at LOS D are found at Exits 193, 195, 205, 250, and 261. In the westbound direction, deficient operating conditions are concentrated on the eastern end of the study area as well, with typically one merge or diverge operating at LOS D or E at each exit between Exits 243 and 261. One diverge at Exit 200 is projected to



operate at LOS F. In the combined directions, nine locations operate at LOS D or E, and five operate at LOS F.

3. Alternative 3

Table 49 summarizes the Alternative 3 merge and diverge analysis of Weekday Non-Summer AM and PM peak hours for the entire corridor.

For the Alternative 3 ramp analyses, it was assumed that all traffic wanting to exit from the managed lane entered the general purpose lane in advance of the diverge area. Similarly, traffic entering at merge areas will enter the general purpose lanes first and will enter the managed lane downstream. Volumes in the general purpose lanes include the managed lane traffic to/from the ramp being analyzed. Without a detailed analysis of origin/destination patterns and more information about the configuration of access points between the managed and general purpose lanes, more detailed analysis is not possible.

Compared to Alternatives 1 and 2, ramp merges and diverges generally perform worse under Alternative 3, with more merge and diverge areas operating at LOS D, E or F. This is likely a consequence of relaxing the LOS standard for general purpose lanes.

During the Weekday AM peak hour, in the eastbound direction operational issues at merge and diverge ramps are concentrated at Exits 247, 250, 256 and 261. In the westbound direction there are isolated merges and diverges operating at LOS D or E, with four ramp junctions projected to operate at LOS F. In the combined directions, 21 locations operate at LOS D or E, and one ramp operates at nine LOS F.

During the Weekday PM peak hour, in the eastbound direction the most substantial operational issues are at Exits 190 and 250, with LOS F remaining at these interchanges. In the westbound direction, deficient operating conditions are concentrated on the eastern end of the study area as well, with typically one merge or diverge operating at LOS D or E at each interchange between Exits 243 and 261. Two ramps at Exits 258 and 261 are projected to operate at LOS F. In the combined directions, 35 locations operate at LOS D or E, and four operate at LOS F.



Table 47: 2040 Alternatives 1A/1B Merge and Diverge Ramp Level of Service – Non-Summer Weekday Peak

| | | 204 | 40 Alternatives | | | | 2040 A | ltern | | | |
|------|----------|--------|-----------------|-----|--------|---------|--------|-------|-------------------|--------|----|
| Exit | Damn | | AM Peak | | | PM Peak | | E-::4 | Down | | AN |
| EXIL | Ramp | Volume | Density | LOS | Volume | Density | LOS | Exit | Ramp | Volume | De |
| 192 | OFF RAMP | 1745 | 28.1 | D | 2390 | 45.0 | F | 192 | Е | 1980 | |
| 192 | ON RAMP | 270 | 12.3 | В | 475 | 31.1 | F | 192 | F | 605 | |
| | A | 185 | 14.3 | В | 140 | 26.2 | С | | D | 1450 | |
| 193 | В | 750 | 17.4 | В | 925 | 30.6 | D | 193 | G | 210 | |
| | C | 100 | 10.3 | В | 270 | 15.2 | В | | | | |
| | A | 1265 | 17.7 | В | 1760 | 32.8 | D | | С | 535 | |
| 195 | В | 370 | 8.6 | A | 525 | 18.7 | В | 195 | D | 820 | |
| | | | | | | | | | E | 250 | |
| 197 | A | 625 | 9.1 | A | 1070 | 24.5 | С | 197 | Е | 1020 | |
| 197 | D | 360 | 7.3 | A | 785 | 21.1 | C | 197 | Н | 205 | |
| | OFF RAMP | 515 | 2.2 | A | 1260 | 17.0 | В | | OFF RAMP | 2365 | |
| 200 | ON RAMP | 2130 | 12.8 | В | 2445 | 22.2 | C | 200 | ON RAMP | 1205 | |
| 200 | A | 430 | 0* | A | 1040 | 6.5 | A | 200 | F | 175 | |
| | D/E | 800 | 14.6 | В | 825 | 15.4 | В | | I - Major Diverge | 1560 | |
| | A | 925 | 20.8 | С | 1835 | 32.4 | F | | С | 980 | |
| 205 | В | 565 | 16.6 | В | 365 | 20.5 | C | 205 | D | 1065 | |
| | | | | | | | | | E | 315 | |
| 211 | A | 85 | 17.7 | В | 120 | 22.4 | С | 211 | С | 460 | |
| 211 | В | 490 | 17.8 | В | 450 | 21.7 | С | 211 | D | 175 | |
| 212 | A | 315 | 20.0 | В | 270 | 23.8 | С | 212 | С | 195 | |
| 213 | В | 315 | 18.6 | В | 270 | 22.3 | С | 213 | D | 195 | , |
| 21.4 | A | 460 | 21.4 | С | 490 | 25.3 | С | 214 | С | 330 | |
| 214 | В | 410 | 16.9 | В | 340 | 20.3 | С | 214 | D | 565 | |
| 220 | A | 705 | 19.4 | В | 1365 | 24.5 | С | 220 | С | 295 | |
| 220 | В | 100 | 14.5 | В | 240 | 15.7 | В | 220 | D | 1355 | |
| | A | 185 | 15.7 | В | 150 | 15.5 | В | | С | 595 | |
| 227 | В | 250 | 18.5 | В | 365 | 17.3 | В | 227 | D | 165 | |
| | Е | 895 | 18.1 | В | 370 | 14.7 | В | | | | |
| 221 | A | 270 | 21.4 | С | 280 | 20.2 | С | 221 | E | 65 | |
| 231 | D | 765 | 21.1 | C | 480 | 17.4 | В | 231 | Н | 230 | |

| | | 2040 A | lternatives 1 | A/1B Westbo | ound | | |
|------|-------------------|--------|---------------|-------------|--------|---------|-----|
| E:4 | D | | AM Peak | | | PM Peak | |
| Exit | Ramp | Volume | Density | LOS | Volume | Density | LOS |
| 192 | Е | 1980 | 16.1 | E | 1625 | 27.2 | С |
| 192 | F | 605 | 27.5 | C | 375 | 17.9 | В |
| | D | 1450 | 26.8 | С | 905 | 17.4 | В |
| 193 | G | 210 | 19.7 | В | 60 | 11.6 | В |
| | | | | | | | |
| | С | 535 | 21.1 | С | 385 | 14.0 | В |
| 195 | D | 820 | 16.5 | В | 890 | 14.4 | В |
| | Е | 250 | 17.1 | В | 315 | 10.3 | В |
| 197 | Е | 1020 | 20.5 | С | 470 | 12.1 | В |
| 197 | Н | 205 | 21.6 | C | 215 | 14.1 | В |
| | OFF RAMP | 2365 | 25.0 | F | 2085 | 18.9 | F |
| 200 | ON RAMP | 1205 | 11.3 | В | 655 | 2.9 | A |
| 200 | F | 175 | 5.6 | A | 155 | 2.8 | A |
| | I - Major Diverge | 1560 | 9.9 | В | 1290 | 8.2 | В |
| | С | 980 | 26.7 | С | 295 | 19.0 | В |
| 205 | D | 1065 | 23.9 | С | 525 | 20.2 | C |
| | Е | 315 | 19.6 | В | 300 | 20.5 | С |
| 211 | С | 460 | 21.0 | С | 525 | 22.6 | С |
| 211 | D | 175 | 16.0 | В | 150 | 16.9 | В |
| 213 | С | 195 | 21.3 | С | 225 | 22.9 | С |
| 213 | D | 195 | 18.3 | В | 225 | 19.9 | В |
| 214 | С | 330 | 18.9 | В | 410 | 22.0 | С |
| 214 | D | 565 | 19.1 | В | 385 | 20.0 | В |
| 220 | С | 295 | 12.4 | В | 75 | 17.2 | В |
| 220 | D | 1355 | 18.9 | В | 790 | 20.0 | В |
| | С | 595 | 16.7 | В | 1080 | 25.0 | С |
| 227 | D | 165 | 9.8 | A | 205 | 14.4 | В |
| | | | | | | | |
| 231 | Е | 65 | 15.1 | В | 140 | 24.3 | С |
| 231 | Н | 230 | 11.9 | В | 260 | 18.9 | В |

¹ Volume is given as "vehicles per hour"

² AM Peak = Weekday morning peak hour (7:00 AM to 8:00 AM)

³ PM Peak = Weekday afternoon peak hour (4:00 PM to 5:00 PM or 5:00 PM to 6:00 PM, whichever hourly volume was higher)



Table 47: 2040 Alternatives 1A/1B Merge and Diverge Ramp Level of Service – Non-Summer Weekday Peak (continued)

| | 2040 Alternatives 1A/1B Eastbound | | | | | | | | | | |
|------|-----------------------------------|----------|----------------------|-----|---------------------|----------------------|-----|--|--|--|--|
| Exit | Down | | AM Peak | | | PM Peak | | | | | |
| EXIL | Ramp | Volume 1 | Density ² | LOS | Volume ¹ | Density ² | LOS | | | | |
| 234 | A | 795 | 24.7 | С | 790 | 21.6 | С | | | | |
| 234 | В | 1015 | 24.6 | C | 865 | 20.2 | C | | | | |
| | A | 965 | 27.8 | С | 730 | 23.9 | С | | | | |
| 238 | В | 830 | 25.7 | С | 905 | 23.6 | C | | | | |
| | | | | | | | | | | | |
| 242 | A | 660 | 22.8 | C | 470 | 20.4 | С | | | | |
| 243 | В | 210 | 20.7 | С | 215 | 17.0 | В | | | | |
| 243 | С | 440 | 6.7 | A | 395 | 2.9 | A | | | | |
| | A | 275 | 29.6 | D | 125 | 25.7 | С | | | | |
| 247 | С | 645 | 28.1 | D | 505 | 24.0 | С | | | | |
| | D | 700 | 29.5 | D | 305 | 21.4 | C | | | | |
| 250 | A | 800 | 33.7 | D | 545 | 28.2 | D | | | | |
| 230 | Е | 950 | 32.2 | D | 1770 | 32.7 | D | | | | |
| | OFF RAMP | 1335 | 27.2 | С | 1385 | 26.8 | С | | | | |
| 255 | ON RAMP | 1905 | 26.4 | С | 1890 | 25.6 | С | | | | |
| 233 | A | 1040 | 6.2 | A | 1025 | 6.4 | A | | | | |
| | Е | 220 | 10.9 | В | 380 | 11.3 | В | | | | |
| 256 | A | 395 | 23.7 | С | 675 | 24.4 | С | | | | |
| 230 | Е | 1465 | 31.0 | D | 855 | 24.2 | С | | | | |
| 258 | A | 1500 | 36.2 | E | 1055 | 29.1 | D | | | | |
| 250 | Е | 885 | 24.7 | С | 900 | 22.0 | С | | | | |
| | A | 750 | 30.8 | D | 1145 | 29.3 | D | | | | |
| 261 | В | 1545 | 31.1 | D | 775 | 22.0 | С | | | | |
| | D | 1330 | 22.5 | С | 970 | 18.0 | В | | | | |
| 263 | E | 900 | 22.8 | C | 765 | 19.6 | В | | | | |

| | 2040 Alternatives 1A/1B Westbound | | | | | | | | | |
|------|-----------------------------------|----------|----------------------|-----|---------------------|----------------------|--------------|--|--|--|
| Exit | Dama | | AM Peak | | | PM Peak | | | | |
| Exit | Ramp | Volume 1 | Density ² | LOS | Volume ¹ | Density ² | LOS | | | |
| 234 | С | 105 | 15.9 | В | 390 | 27.4 | C | | | |
| 234 | F | 65 | 12.1 | В | 35 | 20.6 | C | | | |
| | С | 855 | 18.3 | В | 900 | 26.5 | C | | | |
| 238 | D | 495 | 16.3 | В | 945 | 28.2 | D | | | |
| | Е | 75 | 14.6 | В | 145 | 25.8 | C | | | |
| 242 | Н | 460 | 13.7 | В | 615 | 21.5 | С | | | |
| 243 | D | 605 | 0* | A | 415 | 4.3 | A | | | |
| 243 | Е | 380 | 25.9 | C | 485 | 31.7 | D | | | |
| | В | 310 | 17.2 | В | 210 | 22.7 | С | | | |
| 247 | Е | 855 | 27.8 | С | 805 | 32.8 | D | | | |
| | | | | | | | | | | |
| 250 | С | 545 | 31.6 | D | 935 | 35.1 | E | | | |
| 230 | G | 760 | 21.4 | С | 720 | 26.5 | C | | | |
| | OFF RAMP | 1705 | 28.0 | D | 2145 | 33.6 | F | | | |
| 255 | ON RAMP | 1170 | 22.0 | С | 1125 | 22.4 | C | | | |
| 233 | С | 1485 | 6.8 | A | 1610 | 9.7 | A | | | |
| | G | 345 | 5.5 | A | 300 | 5.1 | A | | | |
| 256 | C | 760 | 24.3 | С | 1240 | 34.4 | D | | | |
| 230 | G | 350 | 18.6 | В | 470 | 21.6 | C | | | |
| 258 | С | 1755 | 30.0 | D | 1645 | 38.0 | \mathbf{F} | | | |
| 236 | G | 545 | 19.2 | В | 600 | 25.5 | C | | | |
| | F | 1420 | 32.0 | D | 2255 | 43.0 | F | | | |
| 261 | | | | | | | | | | |
| | | | | | | | | | | |
| 263 | D | 660 | 21.5 | C | 850 | 29.4 | D | | | |

¹ Volume is given as "vehicles per hour"

² Density is given as "passenger cars, per mile, per lane"

^{**} Volume exceeds capacity. Density is undefined. Level of service is "F"

PM Peak

Density

26.4

16.7

16.3

10.4

13.1

13.0

9.1

11.1

13.0

17.4

2.5

4.0

8.5

17.1

18.3

18.4

20.6

15.0

20.7

17.8

19.9

17.8

15.1

17.8

22.2

12.5

21.7

16.4

LOS

C

В

В

В

В

В

A

В

В

F

A

A

В

В

В

В

C

В

C

В

В

В

В

В

C

В

C

В

Volume

1650

370

895

60

385

890

315

460

250

2130

845

200

1340

295

525

290

535

180

220

220

400

370

75

770

955

195

130

255



Table 48: 2040 Alternative 2A/2B Merge and Diverge Ramp Level of Service – Non-Summer Weekday Peak

| | | 20 | 40 Alternative | 2A/2B Eastbo | und | | | | | 2040 A | Alternative 2A | /2B Westbo | Westbound | |
|------|----------|--------|----------------|--------------|--------|---------|-----|------|-------------------|---------------|----------------|------------|-----------|--|
| Exit | Down | | AM Peak | | | PM Peak | | Exit | Down | | AM Peak | | | |
| EXIL | Ramp | Volume | Density | LOS | Volume | Density | LOS | EXIL | Ramp | Volume | Density | LOS | Vo | |
| 192 | OFF RAMP | 1720 | 27.0 | С | 2475 | 44.3 | F | 192 | Е | 2005 | 35.7 | E | 1 | |
| 192 | ON RAMP | 270 | 11.6 | В | 475 | 21.9 | C | 192 | F | 595 | 26.7 | C | 3 | |
| | A | 185 | 13.4 | В | 140 | 24.6 | С | | D | 1440 | 26.1 | С | 8 | |
| 193 | В | 740 | 16.5 | В | 915 | 28.9 | D | 193 | G | 210 | 19.0 | В | | |
| | C | 95 | 9.4 | A | 255 | 16.8 | В | | | | | | | |
| | A | 1250 | 16.8 | В | 1640 | 30.5 | D | | С | 535 | 20.4 | С | 3 | |
| 195 | В | 365 | 7.9 | A | 515 | 17.6 | В | 195 | D | 820 | 15.9 | В | 8 | |
| | | | | | | | | | E | 250 | 16.3 | В | 3 | |
| 197 | A | 615 | 8.0 | A | 1055 | 23.1 | С | 197 | Е | 1000 | 19.8 | В | 4 | |
| 197 | D | 355 | 6.9 | A | 775 | 19.6 | В | 197 | Н | 240 | 21.3 | C | 2 | |
| | OFF RAMP | 555 | 1.2 | A | 1340 | 15.8 | В | | OFF RAMP | 2540 | 24.9 | F | 2 | |
| 200 | ON RAMP | 2105 | 11.5 | В | 2420 | 20.2 | С | 200 | ON RAMP | 1490 | 11.8 | В | 8 | |
| 200 | A | 425 | 0.5 | A | 1020 | 6.9 | A | | F | 255 | 7.3 | A | 2 | |
| | D/E | 795 | 14.4 | В | 815 | 15.2 | В | | I - Major Diverge | 1740 | 11.0 | В | 1 | |
| | A | 900 | 19.3 | В | 1720 | 30.3 | D | | С | 980 | 25.7 | С | 2 | |
| 205 | В | 505 | 15.0 | В | 320 | 18.5 | В | 205 | D | 1065 | 22.9 | С | 5 | |
| | | | | | | | | | E | 305 | 18.5 | В | 2 | |
| 211 | A | 105 | 16.3 | В | 150 | 20.7 | С | 211 | С | 470 | 19.9 | В | 5 | |
| 211 | В | 440 | 15.9 | В | 335 | 18.7 | В | 211 | D | 210 | 15.0 | В | 1 | |
| 213 | A | 305 | 18.1 | В | 265 | 21.1 | С | 213 | С | 190 | 20.1 | С | 2 | |
| 213 | В | 305 | 16.8 | В | 265 | 19.8 | В | 213 | D | 190 | 17.1 | В | 2 | |
| 214 | A | 530 | 19.7 | В | 555 | 22.9 | С | 214 | С | 325 | 17.8 | В | 4 | |
| 214 | В | 400 | 14.7 | В | 330 | 17.2 | В | 214 | D | 540 | 17.8 | В | 3 | |
| 220 | A | 680 | 17.1 | В | 1320 | 21.5 | С | 220 | С | 295 | 11.4 | В | 1 | |
| 220 | В | 100 | 12.4 | В | 240 | 13.0 | В | 220 | D | 1320 | 17.7 | В | 7 | |
| | A | 185 | 13.4 | В | 150 | 13.4 | В | | С | 430 | 14.3 | В | g | |
| 227 | В | 250 | 15.7 | В | 365 | 14.0 | В | 227 | D | 160 | 8.9 | A | 1 | |
| | Е | 770 | 15.0 | В | 275 | 11.1 | В | | | | | | | |
| 221 | A | 255 | 18.6 | В | 265 | 16.7 | В | 221 | Е | 60 | 13.1 | В | 1 | |
| 231 | D | 710 | 18.1 | В | 455 | 14.0 | В | 231 | Н | 220 | 10.0 | В | 2 | |

¹ Volume is given as "vehicles per hour"

² AM Peak = Weekday morning peak hour (7:00 AM to 8:00 AM)

³ PM Peak = Weekday afternoon peak hour (4:00 PM to 5:00 PM or 5:00 PM to 6:00 PM, whichever hourly volume was higher)



Table 48: 2040 Alternative 2A/2B Merge and Diverge Ramp Level of Service – Non-Summer Weekday Peak (continued)

| | 2040 Alternative 2A/2B Eastbound | | | | | | | | | | |
|------|----------------------------------|----------|----------------------|-----|----------|----------------------|-----|--|--|--|--|
| Exit | Domn | | AM Peak | | | PM Peak | | | | | |
| EXIL | Ramp | Volume 1 | Density ² | LOS | Volume 1 | Density ² | LOS | | | | |
| 234 | A | 560 | 21.2 | С | 550 | 17.5 | В | | | | |
| 234 | В | 1005 | 22.8 | С | 930 | 18.6 | В | | | | |
| | A | 910 | 26.1 | С | 690 | 22.1 | С | | | | |
| 238 | В | 830 | 24.2 | С | 905 | 22.1 | С | | | | |
| | | | | | | | | | | | |
| 242 | A | 505 | 21.1 | С | 360 | 18.7 | В | | | | |
| 243 | В | 205 | 20.7 | С | 145 | 16.2 | В | | | | |
| 243 | С | 395 | 6.3 | A | 350 | 2.1 | A | | | | |
| | A | 255 | 29.3 | D | 110 | 24.9 | С | | | | |
| 247 | С | 835 | 29.5 | D | 570 | 23.8 | С | | | | |
| | D | 690 | 30.2 | D | 280 | 21.9 | С | | | | |
| 250 | A | 730 | 34.2 | D | 500 | 27.6 | C | | | | |
| 230 | Е | 885 | 32.7 | D | 1650 | 31.5 | D | | | | |
| | OFF RAMP | 1370 | 27.9 | С | 1415 | 26.3 | С | | | | |
| 255 | ON RAMP | 1845 | 26.2 | С | 1830 | 24.5 | С | | | | |
| 233 | A | 1080 | 6.5 | A | 1065 | 6.7 | A | | | | |
| | Е | 215 | 10.6 | В | 370 | 11.0 | В | | | | |
| 256 | A | 375 | 23.8 | С | 640 | 23.3 | С | | | | |
| 230 | Е | 1420 | 30.5 | D | 835 | 23.1 | С | | | | |
| 258 | A | 1450 | 35.5 | E | 920 | 27.1 | C | | | | |
| 230 | Е | 860 | 24.5 | С | 875 | 21.3 | С | | | | |
| | A | 875 | 31.4 | D | 1180 | 28.9 | D | | | | |
| 261 | В | 1685 | 31.2 | D | 925 | 22.0 | С | | | | |
| | D | 1460 | 22.6 | С | 1075 | 17.7 | В | | | | |
| 263 | Е | 875 | 22.8 | С | 745 | 19.0 | В | | | | |

| | 2040 Alternative 2A/2B Westbound | | | | | | | | | |
|------|----------------------------------|----------|----------------------|-----|---------------------|----------------------|-----|--|--|--|
| Exit | Dama | | AM Peak | | | PM Peak | | | | |
| Exit | Ramp | Volume 1 | Density ² | LOS | Volume ¹ | Density ² | LOS | | | |
| 234 | С | 160 | 15.6 | В | 450 | 26.2 | C | | | |
| 234 | F | 65 | 10.3 | В | 35 | 18.2 | В | | | |
| | С | 790 | 17.3 | В | 825 | 25.0 | C | | | |
| 238 | D | 495 | 15.9 | В | 945 | 27.2 | C | | | |
| | Е | 80 | 14.3 | В | 65 | 24.1 | C | | | |
| 242 | Н | 390 | 12.9 | В | 505 | 20.0 | С | | | |
| 243 | D | 650 | * | A | 450 | 2.9 | A | | | |
| 243 | Е | 280 | 24.6 | C | 355 | 29.6 | D | | | |
| | В | 280 | 16.0 | В | 170 | 20.6 | С | | | |
| 247 | Е | 855 | 26.9 | С | 805 | 31.4 | D | | | |
| | | | | | | | | | | |
| 250 | С | 545 | 31.6 | D | 935 | 34.4 | D | | | |
| 230 | G | 695 | 20.4 | C | 655 | 24.8 | C | | | |
| | OFF RAMP | 1585 | 27.1 | С | 2110 | 32.9 | F | | | |
| 255 | ON RAMP | 1110 | 21.2 | С | 1065 | 21.6 | C | | | |
| 255 | С | 1370 | 5.8 | A | 1590 | 9.4 | A | | | |
| | G | 340 | 5.2 | A | 295 | 4.8 | A | | | |
| 256 | С | 740 | 23.7 | C | 1310 | 34.1 | D | | | |
| 250 | G | 390 | 18.6 | В | 540 | 21.5 | C | | | |
| 258 | С | 1815 | 30.7 | D | 1650 | 38.1 | F | | | |
| 250 | G | 530 | 18.8 | В | 585 | 24.9 | C | | | |
| | F | 1615 | 33.3 | D | 2570 | 44.6 | F | | | |
| 261 | | | | | | | | | | |
| | | | | | | | | | | |
| 263 | D | 645 | 20.7 | C | 825 | 27.7 | C | | | |

¹ Volume is given as "vehicles per hour"

² Density is given as "passenger cars, per mile, per lane"

^{**} Volume exceeds capacity. Density is undefined. Level of service is "F"



Table 49: 2040 Alternative 3 Merge and Diverge Ramp Level of Service – Non-Summer Weekday Peak

| | | | 2040 Alternati | ve 3 Eastboun | d | | | | | 204 | 0 |
|------|----------|--------|----------------|---------------|--------|---------|-----|------|-------------------|--------|---|
| Exit | Ramp | | AM Peak | | | PM Peak | | Exit | Ramp | | |
| Exit | катр | Volume | Density | LOS | Volume | Density | LOS | Exit | Kamp | Volume | |
| 192 | OFF RAMP | 1615 | 29.0 | D | 2325 | 36.9 | F | 192 | Е | 1885 | |
| 192 | ON RAMP | 260 | 16.5 | В | 455 | 22.4 | C | 192 | F | 535 | |
| | A | 185 | 19.6 | В | 140 | 30.9 | D | | D | 1420 | |
| 193 | В | 720 | 20.6 | C | 890 | 32.0 | D | 193 | G | 205 | |
| | C | 85 | 10.3 | В | 230 | 21.4 | C | | | | |
| | A | 1090 | 18.3 | В | 1540 | 31.2 | D | | С | 485 | |
| 195 | В | 325 | 10.4 | В | 435 | 21.3 | С | 195 | D | 820 | L |
| | | | | | | | | | Е | 205 | |
| 197 | A | 520 | 11.7 | В | 890 | 31.7 | D | 197 | Е | 850 | |
| 177 | D | 290 | 10.6 | В | 670 | 26.0 | C | 177 | Н | 215 | |
| | OFF RAMP | 460 | 4.0 | A | 1345 | 18.1 | В | | OFF RAMP | 2325 | |
| 200 | ON RAMP | 1925 | 14.2 | В | 2215 | 21.2 | C | 200 | ON RAMP | 1345 | |
| 200 | A | 345 | -0.1 | A | 1055 | 7.9 | A | 200 | F | 235 | L |
| | D/E | 730 | 17.6 | В | 745 | 18.9 | В | | I - Major Diverge | 1600 | |
| | A | 880 | 26.9 | С | 1585 | 36.4 | E | | С | 965 | |
| 205 | В | 395 | 21.4 | C | 245 | 22.7 | С | 205 | D | 1065 | |
| | | | | | | | | | Е | 275 | |
| 211 | A | 70 | 23.1 | С | 100 | 27.1 | С | 211 | С | 440 | |
| 211 | В | 380 | 23.3 | C | 305 | 25.9 | C | 211 | D | 150 | |
| 213 | A | 270 | 24.2 | С | 235 | 28.4 | D | 213 | С | 170 | |
| 213 | В | 270 | 23.7 | C | 235 | 27.5 | C | 213 | D | 170 | |
| 214 | A | 480 | 25.3 | С | 505 | 29.5 | D | 214 | С | 275 | |
| 214 | В | 335 | 20.4 | С | 280 | 23.8 | С | 214 | D | 480 | |
| 220 | A | 565 | 21.7 | С | 1075 | 25.1 | С | 220 | С | 275 | |
| 220 | В | 85 | 18.3 | В | 230 | 18.3 | В | 220 | D | 1110 | |
| | A | 170 | 18.1 | В | 130 | 18.2 | В | | С | 430 | Ī |
| 227 | В | 250 | 23.6 | С | 365 | 21.3 | С | 227 | D | 140 | |
| | Е | 695 | 20.1 | С | 300 | 17.3 | В | | | | |
| 221 | A | 240 | 25.3 | С | 250 | 23.4 | С | 221 | Е | 55 | |
| 231 | D | 720 | 25.5 | С | 410 | 20.7 | С | 231 | Н | 205 | |

| | | 204 | 0 Alternative | 3 Westboun | d | | |
|------|-------------------|--------|---------------|------------|--------|---------|-----|
| Exit | Ramp | | AM Peak | | | PM Peak | |
| EXIL | Kamp | Volume | Density | LOS | Volume | Density | LOS |
| 192 | Е | 1885 | 39.0 | F | 1550 | 31.3 | D |
| 172 | F | 535 | 29.3 | D | 335 | 22.6 | С |
| | D | 1420 | 29.1 | D | 880 | 20.3 | С |
| 193 | G | 205 | 23.1 | С | 55 | 16.7 | В |
| | | | | | | | |
| | С | 485 | 24.5 | С | 345 | 17.2 | В |
| 195 | D | 820 | 19.5 | В | 890 | 13.3 | В |
| | Е | 205 | 19.7 | В | 260 | 12.9 | В |
| 197 | Е | 850 | 21.2 | С | 390 | 13.2 | В |
| 177 | Н | 215 | 26.7 | С | 220 | 17.8 | В |
| | OFF RAMP | 2325 | 27.9 | F | 1935 | 21.3 | С |
| 200 | ON RAMP | 1345 | 14.0 | В | 760 | 6.7 | A |
| 200 | F | 235 | 10.2 | В | 175 | 5.3 | A |
| | I - Major Diverge | 1600 | 0.1 | A | 1220 | -3.5 | A |
| | С | 965 | 34.7 | F | 270 | 26.2 | С |
| 205 | D | 1065 | 28.5 | D | 525 | 26.1 | C |
| | Е | 275 | 22.8 | С | 255 | 25.1 | С |
| 211 | С | 440 | 25.1 | С | 500 | 26.8 | С |
| 211 | D | 150 | 20.6 | С | 125 | 21.3 | C |
| 213 | С | 170 | 26.0 | С | 195 | 28.5 | D |
| 213 | D | 170 | 23.9 | C | 195 | 26.2 | C |
| 214 | С | 275 | 22.7 | С | 340 | 27.2 | С |
| 214 | D | 480 | 23.4 | С | 340 | 25.7 | С |
| 220 | С | 275 | 14.7 | В | 60 | 21.3 | С |
| 220 | D | 1110 | 20.2 | С | 665 | 24.2 | С |
| | С | 430 | 18.4 | В | 955 | 27.7 | С |
| 227 | D | 140 | 13.4 | В | 175 | 17.3 | В |
| | | | | | | | |
| 231 | Е | 55 | 18.0 | В | 120 | 28.0 | D |
| 231 | Н | 205 | 15.4 | В | 240 | 21.9 | С |

¹ Volume is given as "vehicles per hour"



Table 49: 2040 Alternative 3 Merge and Diverge Ramp Level of Service – Non-Summer Weekday Peak (continued)

| | | | 2040 Alternati | ve 3 Eastbound | ì | | |
|------|----------|---------------------|----------------------|----------------|---------------------|----------------------|---------|
| E:4 | Down | | AM Peak | | | PM Peak | |
| Exit | Ramp | Volume ¹ | Density ² | LOS | Volume ¹ | Density ² | LOS |
| 234 | A | 505 | 29.1 | D | 490 | 23.8 | С |
| 234 | В | 930 | 30.4 | D | 865 | 25.0 | C |
| | A | 845 | 34.6 | D | 640 | 29.4 | D |
| 238 | В | 830 | 32.8 | D | 905 | 29.8 | D |
| | | | | | | | |
| 242 | A | 515 | 30.1 | D | 365 | 27.1 | С |
| 243 | В | 205 | 31.7 | D | 145 | 25.7 | С |
| 243 | C | 395 | 18.4 | В | 350 | 13.1 | В |
| | A | 255 | 41.1 | E | 110 | 35.2 | E |
| 247 | С | 845 | 41.4 | F | 670 | 35.8 | E |
| | D | 640 | 44.1 | F | 280 | 35.4 | E |
| 250 | A | 740 | 42.7 | F | 505 | 41.0 | E |
| 230 | E | 865 | 40.8 | F | 1570 | 44.3 | ${f F}$ |
| | OFF RAMP | 1265 | 26.3 | С | 1310 | 25.4 | С |
| 255 | ON RAMP | 1785 | 27.4 | С | 1770 | 25.9 | С |
| 233 | A | 1005 | 6.4 | A | 990 | 6.8 | A |
| | Е | 205 | 15.7 | В | 355 | 15.5 | В |
| 256 | A | 365 | 31.2 | D | 620 | 30.2 | D |
| 230 | Е | 1420 | 40.1 | F | 835 | 32.0 | D |
| 258 | A | 1460 | 34.3 | D | 1030 | 33.8 | D |
| 236 | E | 860 | 27.5 | С | 875 | 28.9 | D |
| | A | 885 | 36.6 | E | 1195 | 34.2 | D |
| 261 | В | 1685 | 31.4 | D | 925 | 27.5 | С |
| | D | 1455 | 25.6 | С | 1070 | 23.8 | С |
| 263 | E | 860 | 21.0 | С | 930 | 19.3 | В |

| | | 2040 | 0 Alternative | 3 Westbound | d | | |
|------|----------|----------|----------------------|-------------|----------|----------------------|-----|
| Exit | Domn | | AM Peak ³ | | | PM Peak ⁴ | |
| EXIL | Ramp | Volume 1 | Density ² | LOS | Volume 1 | Density ² | LOS |
| 234 | С | 155 | 20.7 | С | 425 | 38.2 | Е |
| 234 | F | 55 | 16.3 | В | 30 | 28.3 | D |
| | С | 800 | 21.9 | С | 940 | 36.8 | Е |
| 238 | D | 495 | 20.7 | С | 845 | 35.9 | Е |
| | Е | 80 | 20.9 | С | 145 | 36.7 | Е |
| 242 | Н | 395 | 18.2 | В | 515 | 29.0 | D |
| 243 | D | 660 | 8.8 | A | 455 | 16.2 | В |
| 243 | E | 280 | 31.5 | D | 355 | 39.6 | E |
| | В | 280 | 22.3 | С | 170 | 26.6 | С |
| 247 | E | 865 | 34.2 | D | 815 | 39.6 | E |
| | | | | | | | |
| 250 | С | 545 | 37.7 | E | 935 | 40.8 | E |
| 230 | G | 705 | 23.0 | C | 660 | 29.7 | D |
| | OFF RAMP | 1590 | 29.5 | D | 2000 | 34.6 | D |
| 255 | ON RAMP | 1025 | 25.9 | С | 985 | 28.9 | D |
| 233 | С | 1385 | 6.5 | A | 1505 | 10.2 | В |
| | G | 310 | 7.1 | A | 270 | 6.7 | A |
| 256 | С | 740 | 28.9 | D | 1210 | 33.2 | D |
| 230 | G | 385 | 24.7 | С | 530 | 17.6 | В |
| 258 | С | 1770 | 28.4 | D | 1660 | 41.8 | F |
| 230 | G | 530 | 21.2 | С | 585 | 27.4 | С |
| | F | 1630 | 40.1 | F | 2595 | 47.4 | F |
| 261 | | | | | | | |
| | | | | | | | |
| 263 | D | 630 | 24.4 | С | 810 | 28.2 | D |

¹ Volume is given as "vehicles per hour"

² Density is given as "passenger cars, per mile, per lane"

^{**} Volume exceeds capacity. Density is undefined. Level of service is "F"



G. Weaving Segments Capacity Analysis

Weaving segments are areas where two traffic streams moving in the same direction must cross and/or change lanes to continue to their destination. Weaving segments are formed when a merge is closely followed by a diverge, for example, where an on-ramp is followed closely by an off-ramp and the two are joined by an auxiliary lane. **Table 17** defines the LOS for weaving segments according to vehicular density, which is defined in terms of passenger cars, per mile, per lane (pc/mi/ln).

1. Alternatives 1A/1B

Table 50 summarizes the Alternative 1 weaving segment analysis of Weekday Non-Summer AM and PM peak hours for the entire corridor.

The left side of each table describes the various weaving areas in the I-64 study corridor, according to the exit number and direction of travel. The right side gives the density and LOS, determined by applying the HCM methodology.

Under Alternative 1, during the Non-Summer Weekday peaks, weaving areas in the I-64 corridor generally operate acceptably on the western-most end of the corridor between Exits 192 and 242. In the AM peak hour, 8 of the 26 weaving segments analyzed operate at a deficient LOS between Exits 250 and 263. Three segments between Exits 262 to 263 exceed capacity and operate at a LOS F. In the PM peak hour, 10 of the 26 segments analyzed operate at a deficient LOS. Three segments between Exits 262 and 263 operate at LOS F, as well as the weaving segment along eastbound I-64 at Exit 192.

This weaving analysis is based on existing interchange configuration, however it is anticipated that these interchanges will ultimately be designed with collector-distributor roads where necessary and feasible to separate the weaving movements from the mainline, resulting in improved weaving LOS, as well as, increased safety.

2. Alternative 2A/2B

Table 51 summarizes the Alternative 2 weaving segment analysis of Weekday Non-Summer AM and PM peak hours for the entire corridor.

Under Alternative 2, during the Non-Summer Weekday peaks, weaving areas in the I-64 corridor generally operate acceptably on the western-most end of the corridor between Exits 192 and 200. In the AM peak hour, 8 of the 26 weaving segments analyzed operate at a deficient LOS between Exits 250 and 263. Three segments between Exits 262 to 263 exceed capacity and operate at a LOS F. In the PM peak hour, 8 of the 26 segments analyzed operate at a deficient LOS. Three segments between Exits 262 and 263 operate at LOS F, as well as the weaving segment along eastbound I-64 at Exit 192.

This weaving analysis is based on existing interchange configuration, however it is anticipated that these interchanges will ultimately be designed with collector-distributor roads where necessary and feasible to separate the weaving movements from the mainline, resulting in improved weaving level of service as well as increased safety.

3. Alternative 3

Table 52 summarizes the Alternative 3 weaving segment analysis of Weekday Non-Summer AM and PM peak hours for the entire corridor.

The weaving analyses assumed that entering/exiting managed lane traffic entered the weaving section upstream of the interchange and will leave downstream. Due to the short length of the weaving sections,



it is unlikely that there will be any access points between the general purpose and managed lanes within the weaving section.

Under Alternative 3, during the Non-Summer Weekday peaks, weaving areas in the I-64 corridor generally operate acceptably on the western-most end of the corridor between Exits 192 and 200. In the AM peak hour, 10 of the 26 weaving segments analyzed operate at a deficient LOS between Exits 250 and 263. Three segments between Exits 262 to 263 exceed capacity and operate at a LOS F. In the PM peak hour, 12 of the 26 segments analyzed operate at a deficient LOS. Three segments between Exits 262 and 263 operate at LOS F, as well as the weaving segment along eastbound I-64 at Exit 192.

This weaving analysis is based on existing interchange configuration, however it is anticipated that these interchanges will ultimately be designed with collector-distributor roads where necessary and feasible to separate the weaving movements from the mainline, resulting in improved weaving level of service as well as increased safety.



Table 50: 2040 Alternatives 1A/1B Weave Level of Service - Non-Summer Weekday Peak

| F-::4 | Dimention | AM | Peak | PM Peak | | | |
|-------------------------|-----------|----------------------|------|----------------------|-----|--|--|
| Exit | Direction | Density ³ | LOS | Density ³ | LOS | | |
| 192 | Eastbound | 19.3 | В | ** | F | | |
| 193 | Westbound | 18.1 | В | 12.4 | В | | |
| 197 | Eastbound | 7.4 | A | 20.7 | С | | |
| 197 | Westbound | 18.4 | В | 11.7 | В | | |
| 200 | Eastbound | 0.5 | A | 1.0 | A | | |
| 200 | Westbound | 8.9 | A | 5.4 | A | | |
| 231 | Eastbound | 15.5 | В | 13.9 | В | | |
| 231 | Westbound | 14.2 | В | 22.5 | С | | |
| 234 | Westbound | 15.5 | В | 28.4 | D | | |
| 242 | Eastbound | 16.3 | В | 16.2 | В | | |
| 242 | Westbound | 16.3 | В | 27.2 | С | | |
| 242 TO 243 | Eastbound | 24.4 | С | 18.6 | В | | |
| 243 TO 242 | Westbound | 16.4 | В | 21.1 | С | | |
| 250 | Eastbound | 29.0 | D | 21.5 | С | | |
| 230 | Westbound | 28.9 | D | 29.9 | D | | |
| 255 | Eastbound | 10.2 | В | 9.6 | A | | |
| 255 | Westbound | 5.1 | A | 6.8 | A | | |
| 256 | Eastbound | 29.0 | D | 24.6 | С | | |
| 230 | Westbound | 24.1 | C | 29.9 | D | | |
| 258 | Eastbound | 28.2 | D | 23.6 | С | | |
| 238 | Westbound | 22.9 | С | 36.3 | E | | |
| 261 | Westbound | 28.1 | D | 38.9 | E | | |
| 262 TO 263 | Eastbound | ** | F | ** | F | | |
| 263 TO 262 | Westbound | ** | F | ** | F | | |
| 263 TO 264 ¹ | Eastbound | 26.5 | С | 29.7 | D | | |
| 264 TO 263 ¹ | Westbound | ** | F | ** | F | | |

³ Density is given as "passenger cars per mile per lane" (pc/mi/ln).

^{**} Demand exceeds capacity. Density is undefined. Level of service is "F"



Table 51: 2040 Alternative 2A/2B Weave Level of Service - Non-Summer Weekday Peak

| | D:4: | AM I | | PM Peak | | | |
|-------------------------|-----------|----------------------|-----|----------------------|---------|--|--|
| Exit | Direction | Density ³ | LOS | Density ³ | LOS | | |
| 192 | Eastbound | 19.0 | В | ** | F | | |
| 193 | Westbound | 17.5 | В | 11.4 | В | | |
| 197 | Eastbound | 6.6 | A | 19.0 | В | | |
| 197 | Westbound | 18.0 | В | 10.7 | В | | |
| 200 | Eastbound | 0.6 | A | 1.4 | A | | |
| 200 | Westbound | 10.0 | A | 6.0 | A | | |
| 231 | Eastbound | 13.1 | В | 11.1 | В | | |
| 231 | Westbound | 12.4 | В | 19.5 | В | | |
| 234 | Westbound | 13.5 | В | 24.0 | С | | |
| 242 | Eastbound | 15.3 | В | 14.8 | В | | |
| 242 | Westbound | 15.4 | В | 24.1 | С | | |
| 242 TO 243 | Eastbound | 24.0 | С | 17.8 | В | | |
| 243 TO 242 | Westbound | 16.1 | В | 20.0 | В | | |
| 250 | Eastbound | 29.9 | D | 21.0 | C | | |
| 230 | Westbound | 28.5 | D | 28.3 | D | | |
| 255 | Eastbound | 9.9 | A | 9.2 | A | | |
| 233 | Westbound | 4.7 | A | 6.4 | A | | |
| 256 | Eastbound | 29.3 | D | 23.6 | C | | |
| 230 | Westbound | 23.5 | C | 28.6 | D | | |
| 258 | Eastbound | 28.1 | D | 22.7 | C | | |
| 236 | Westbound | 25.7 | C | 37.4 | ${f E}$ | | |
| 261 | Westbound | 27.7 | C | 36.5 | E | | |
| 262 TO 263 | Eastbound | ** | F | ** | F | | |
| 263 TO 262 | Westbound | ** | F | ** | F | | |
| 263 TO 264 ¹ | Eastbound | 35.3 | E | 20.1 | C | | |
| 264 TO 263 ¹ | Westbound | 58.0 | E | ** | F | | |

³ Density is given as "passenger cars per mile per lane" (pc/mi/ln).

^{**} Demand exceeds capacity. Density is undefined. Level of service is "F"



Table 52: 2040 Alternative 3 Weave Level of Service - Non-Summer Weekday Peak

| | Direction | | Peak | PM Peak | | | |
|-------------------------|-----------|----------------------|--------|----------------------|-----|--|--|
| Exit | Direction | Density ³ | LOS | Density ³ | LOS | | |
| 192 | Eastbound | 17.8 | В | ** | F | | |
| 193 | Westbound | 18.2 | 18.2 B | | В | | |
| 197 | Eastbound | 8.8 | A | 22.3 | C | | |
| 197 | Westbound | 20.2 | C | 13.7 | В | | |
| 200 | Eastbound | 0.7 | A | 1.7 | A | | |
| 200 | Westbound | 11.8 | В | 7.2 | A | | |
| 231 | Eastbound | 16.2 | В | 14.3 | В | | |
| 231 | Westbound | 15.3 | В | 21.6 | С | | |
| 234 | Westbound | 16.1 | В | 29.7 | D | | |
| 242 | Eastbound | 19.4 | В | 19.3 | В | | |
| 242 | Westbound | 19.2 | В | 31.8 | D | | |
| 242 TO 243 | Eastbound | 21.6 | С | 23.8 | C | | |
| 243 TO 242 | Westbound | 19.4 | В | 25.4 | C | | |
| 250 | Eastbound | 31.4 | D | 28.7 | D | | |
| 230 | Westbound | 28.1 | D | 27.5 | C | | |
| 255 | Eastbound | 12.5 | В | 11.6 | В | | |
| 233 | Westbound | 5.8 | A | 7.8 | A | | |
| 256 | Eastbound | 37.2 | E | 30.8 | D | | |
| 230 | Westbound | 28.4 | D | 29.7 | D | | |
| 258 | Eastbound | 28.9 | D | 29.5 | D | | |
| 230 | Westbound | 25.6 | С | 37.1 | E | | |
| 261 | Westbound | 33.3 | D | 36.6 | E | | |
| 262 TO 263 | Eastbound | ** | F | ** | F | | |
| 263 TO 262 | Westbound | 34.6 | D | ** | F | | |
| 263 TO 264 ¹ | Eastbound | ** | F | 25.6 | С | | |
| 264 TO 263 ¹ | Westbound | 37.7 | E | ** | F | | |

³ Density is given as "passenger cars per mile per lane" (pc/mi/ln).

^{**} Demand exceeds capacity. Density is undefined. Level of service is "F"



H. Signalized and Unsignalized Intersections Capacity Analysis

Similar to the No-Build scenario, intersections at the ramp terminals and selected cross-street intersections were analyzed using the HCM methodologies. **Tables 20 and 21** define the LOS for signalized and unsignalized intersections, respectively, according to vehicular control delay, which is defined in terms of seconds per vehicle (sec/veh).

1. Alternatives 1A/1B

Table 53 summarizes the Alternative 1 intersection analysis of Weekday Non-Summer AM and PM peak hours for the entire corridor.

The left side of each table locates the various intersections according to the exit, ramp designation, and the cross-streets involved. The control type (signalized or unsignalized) is given (signals listed in **bold font**), and the critical intersection movement is given for all unsignalized intersections. The right side of the table gives the overall intersection delay for signals or the critical movement delay for unsignalized intersections, as well as the LOS determined by applying the HCM methodology.

During the Non-Summer Weekday peaks, many of the intersections throughout the entire corridor are projected to operate at a LOS E or F, including 20 of the 38 intersections during the AM peak. Seven of these intersections are signalized, all of which operated at a LOS F. When signal optimization was applied to these intersections, six continued to operate at a LOS E or F, with the intersections of Croaker Road and Rochambeau Drive at Exit 231 and Merrimac Trail and Rochambeau Drive at Exit 238 continuing to operate at a LOS F. There remain 13 LOS E or F unsignalized intersections during the AM Peak, 8 of which operate at a LOS F.

During the PM peak, 22 of the 38 intersections analyzed operate at a LOS E or F. Ten of these intersections are signalized, seven of which operate at a LOS F. When signal optimization is applied to these intersections, seven intersections continue to operate at a LOS E or F, five of which operate at a LOS F. There are 12 LOS E or F unsignalized intersections during the PM peak hour.

2. Alternatives 2A/2B

Table 54 summarizes the Alternative 2 intersection analysis of Weekday Non-Summer AM and PM peak hours for the entire corridor.

During the Non-Summer Weekday peaks, LOS E or F continues to be projected at a number of the intersections throughout the entire corridor, including 20 of the 38 intersections during the AM peak. Seven of these intersections are signalized, all of which operated at a LOS F. When signal optimization was applied to these intersections, six continued to operate at a LOS E or F, but only two intersection (Croaker Road and Rochambeau Drive at Exit 231 and Merrimac Trail and Rochambeau Drive at Exit 238) continue to operate at a LOS F. There remain 13 LOS E or F unsignalized intersections during the AM Peak, 8 of which operate at a LOS F.

During the PM peak, 22 of the 38 intersections analyzed operate at a LOS E or F. Ten of these intersections are signalized, seven of which operate at a LOS F. When signal optimization is applied to these intersections, seven intersections continue to operate at a LOS E or F, four of which operate at a LOS F. There are 12 LOS E or F unsignalized intersections during the PM peak hour.

3. Alternative 3

Table 55 summarizes the Alternative 3 intersection analysis of Weekday Non-Summer AM and PM peak hours for the entire corridor.



During the Non-Summer Weekday peaks, LOS E or F continues to be projected at a number of the intersections throughout the entire corridor, with 19 of the 38 intersections during the AM peak. Seven of the LOS E or F intersections are signalized, six of which operated at a LOS F. When signal optimization was applied to these intersections, all but one signalized intersections (Jefferson Avenue & Fort Eustis Boulevard at Exit 250-B) continued to operate at a LOS E or F, but only one intersection (Croaker Road and Rochambeau Drive at Exit 231) continue to operate at a LOS F. There remain 13 LOS E or F unsignalized intersections during the AM Peak, 8 of which operate at a LOS F.

During the PM peak, 22 of the 38 intersections analyzed operate at a LOS E or F. Nine of these intersections are signalized, eight of which operate at a LOS F. When signal optimization is applied to these intersections, eight intersections continue to operate at a LOS E or F, five of which operate at a LOS F. There are 12 LOS E or F unsignalized intersections during the PM peak hour.



Table 53: 2040 Alternatives 1A/1B Intersection Level of Service – Non-Summer Weekday Peak

| | Intersection | | a | | 2040 Altern | natives 1A/1B | | 2040 Alternatives 1A/1B - Optimized Signal Timing | | | | |
|-------------|--------------|---|--------------------------------|--------------------|------------------|--------------------|------------------|--|------------------|--------------------|------------------|--|
| Exit – Ramp | Control | Intersection | Critical Movement ¹ | AM | Peak | PM | Peak | AM | Peak | PM | Peak | |
| | | | | Delay ³ | LOS ³ | Delay ³ | LOS ³ | Delay ³ | LOS ³ | Delay ³ | LOS ³ | |
| 190-A | Unsignalized | 5 th Street & I-95 NB On-ramp | SB 5 th Street L | 7.8 | A | 8.1 | A | | | | | |
| 190-B | Unsignalized | 3 rd Street & I-95 SB Off-ramp | 3 rd Street L | 55.5 | F | 13.1 | В | | | | | |
| 192-A | Signal | I-64 WB Off-ramp/Magnolia Street & US 360 | Intersection | 87.7 | F | 50.4 | D | 40.3 | D | 27.0 | С | |
| 192-B | Unsignalized | I-64 EB Off-ramp & US 360 ⁴ | I-64 Off-ramp R ⁴ | 14.3 | В | 10.6 | В | | | | | |
| 193-A | Unsignalized | I-64 EB Ramps & Nine Mile Road | I-64 Off-ramp R | 12.5 | В | 10.8 | В | | | | | |
| 193-B | Signal | Route 33 & Gordon's Lane | Intersection | 19.3 | В | 18.3 | В | 18.5 | В | 18.8 | В | |
| 193-C | Unsignalized | I-64 WB Off-ramp & Nine Mile Road | I-64 Off-ramp R | 15.0 | В | 17.7 | C | | | | | |
| 195-A | Signal | I-64 EB Ramps & Laburnum Avenue | Intersection | 145.9 | F | 354.5 | F | 69.8 | E | 101.1 | F | |
| 195-B | Signal | I-64 WB Ramps & Laburnum Avenue | Intersection | 9.4 | A | 11.7 | В | | | | | |
| 205-A | Signal | I-64 EB Ramps & New Kent Highway | Intersection | 14.3 | В | 72.8 | E | 12.1 | В | 17.0 | В | |
| 205-В | Unsignalized | I-64 WB Ramps & New Kent Highway | I-64 Off-ramp LR | 34.6 | D | 973.9 | F | | | | | |
| 211-A | Unsignalized | I-64 EB Ramps & Emmans Church Road | I-64 Off-ramp LTR | 17.9 | С | 23.0 | С | | | | | |
| 211-B | Unsignalized | I-64 WB Ramps & Emmans Church Road | I-64 Off-ramp LTR | 84.8 | F | 136.0 | F | | | | | |
| 214-A | Unsignalized | I-64 EB Ramps & Courthouse Road | I-64 Off-ramp LTR | 738.9 | F | 102.0 | F | | | | | |
| 214-B | Unsignalized | I-64 WB Ramps & Courthouse Road | I-64 Off-ramp LTR | 1549.0 | F | 429.6 | F | | | | | |
| 227-A | Unsignalized | I-64 EB Ramps & Old Stage Road | I-64 Off-ramp L | 16.4 | С | 15.3 | С | | | | | |
| 227-В | Unsignalized | I-64 WB Ramps & Old Stage Road | I-64 Off-ramp L | 182.3 | F | 428.7 | F | | | | | |
| 231-A | Signal | Croaker Road & Rochambeau Drive | Intersection | 234.5 | F | 290.0 | F | 111.7 | F | 80.7 | F | |
| 231-В | Unsignalized | Croaker Road & Fenton Mill Road | WB Fenton Mill LTR | 33.6 | D | 41.0 | E | | | | | |
| 231-C | Unsignalized | I-64 WB Off-ramp & Croaker Road | I-64 Off-ramp R | 10.1 | В | 11.2 | В | | | | | |
| 231-D | Unsignalized | I-64 EB Off-ramp & Croaker Road | I-64 Off-ramp R | 17.2 | С | 21.3 | С | | | | | |
| 234-A | Unsignalized | I-64 EB Ramps & Newman Road | I-64 Off-ramp LT | * | F | 96.0 | F | | | | | |
| 234-B | Unsignalized | Newman Road & Fenton Mill Road | NB Fenton Mill LTR | 7.7 | A | 17.8 | С | | | | | |
| 234-C | Unsignalized | I-64 WB Off-ramp & Newman Road | I-64 Off-ramp R | 9.9 | A | 17.8 | С | | | | | |
| 238-A | Unsignalized | I-64 EB Off-ramp (left turn) & Merrimac Trail | I-64 Off-ramp L | 509.2 | F | 966.0 | F | | | | | |
| 238-B | Signal | I-64 EB On-ramp, Merrimac Trail, & Rochambeau Drive | Intersection | 357.6 | F | 158.9 | F | 89.3 | F | 52.4 | D | |
| 238-C | Unsignalized | I-64 WB Off-ramp (left turn) & Merrimac Trail | I-64 Off-ramp L | 166.5 | F | 111.7 | F | | | | | |
| 238-D | Unsignalized | I-64 EB Off-ramp (right turn) & Merrimac Trail | I-64 Off-ramp R | 325.6 | F | 266.4 | F | | | | | |
| 243-A | Signal | Busch Gardens Boulevard NB ramps & US Route 60 | Intersection | 6.0 | A | 9.9 | A | | | | | |
| 243-В | Signal | Busch Gardens Boulevard SB ramps & US Route 60 | Intersection | 8.7 | A | 9.2 | A | | | | | |
| 247-A | Unsignalized | I-64 EB Off-ramp & Jefferson Avenue | I-64 Off-ramp LR | 1095.0 | F | 226.5 | F | | | | | |
| 247-В | Signal | Jefferson Ave & Yorktown Road | Intersection | 122.9 | F | 358.0 | F | 67.9 | E | 94.8 | F | |
| 247-C | Unsignalized | I-64 EB On-ramp & Yorktown Road | SB Yorktown L | 16.0 | С | 11.7 | В | | | | | |
| 247-D | Unsignalized | I-64 WB Off-ramp & Yorktown Road | I-64 Off-ramp L | 31.0 | D | 31.4 | D | | | | | |
| 250-A | Signal | I-64 WB Off-ramp & Jefferson Avenue | Intersection | 21.5 | С | 103.6 | F | 21.7 | С | 35.8 | D | |
| 250-В | Signal | Jefferson Avenue & Fort Eustis Boulevard | Intersection | 436.1 | F | 282.7 | F | 34.0 | С | 28.1 | С | |
| 255-A | Signal | Jefferson Avenue & Freedom Way/Clair Lane | Intersection | 19.6 | В | 266.7 | F | | | 219.0 | F | |
| 255-В | Signal | Jefferson Avenue & Brick Kiln Blvd/Wal-Mart Way | Intersection | 180.7 | F | 481.9 | F | 55.1 | E | 295.7 | F | |

³ Delay is given as "seconds per vehicle" (sec/veh). For signalized intersections, the delay and LOS apply to the overall intersections, the delay and LOS apply to the single critical movement (major street left or minor street approach) with highest delay.

⁴ Approach is controlled by a yield sign but operates as stop-controlled and was analyzed accordingly.

^{**} Delay exceeds range of model.



Table 54: 2040 Alternative 2A/2B Intersection Level of Service – Non-Summer Weekday Peak

| T. 11 D | Intersection | | a 1 | | 2040 Altern | native 2A/2B | | 2040 Alternative 2A/2B - Optimize Timing | | | ed Signal |
|-------------|--------------|---|--------------------------------|--------------------|------------------|--------------------|------------------|--|------------------|--------------------|------------------|
| Exit – Ramp | Control | Intersection | Critical Movement ¹ | AM | Peak | PM | Peak | AM | Peak | PM | Peak |
| | | | | Delay ³ | LOS ³ | Delay ³ | LOS ³ | Delay ³ | LOS ³ | Delay ³ | LOS ³ |
| 190-A | Unsignalized | 5 th Street & I-95 NB On-ramp | SB 5 th Street L | 7.8 | A | 8.1 | A | | | | |
| 190-B | Unsignalized | 3 rd Street & I-95 SB Off-ramp | 3 rd Street L | 53.5 | F | 13.1 | В | | | | |
| 192-A | Signal | I-64 WB Off-ramp/Magnolia Street & US 360 | Intersection | 175.4 | F | 48.9 | D | 50.4 | D | 26.8 | С |
| 192-B | Unsignalized | I-64 EB Off-ramp & US 360 ⁴ | I-64 Off-ramp R ⁴ | 14.3 | В | 10.6 | В | | | | |
| 193-A | Unsignalized | I-64 EB Ramps & Nine Mile Road | I-64 Off-ramp R | 12.5 | В | 10.6 | В | | | | |
| 193-B | Signal | Route 33 & Gordon's Lane | Intersection | 19.5 | В | 18.4 | В | 18.7 | В | 18.7 | В |
| 193-C | Unsignalized | I-64 WB Off-ramp & Nine Mile Road | I-64 Off-ramp R | 17.3 | С | 17.2 | С | | | | |
| 195-A | Signal | I-64 EB Ramps & Laburnum Avenue | Intersection | 113.2 | F | 280.9 | F | 62.6 | E | 84.8 | F |
| 195-B | Signal | I-64 WB Ramps & Laburnum Avenue | Intersection | 8.8 | A | 11.7 | В | | | | |
| 205-A | Signal | I-64 EB Ramps & New Kent Highway | Intersection | 14.4 | В | 43.6 | D | 12.5 | В | 16.9 | В |
| 205-В | Unsignalized | I-64 WB Ramps & New Kent Highway | I-64 Off-ramp LR | 30.5 | D | 808.5 | F | | | | |
| 211-A | Unsignalized | I-64 EB Ramps & Emmans Church Road | I-64 Off-ramp LTR | 20.3 | С | 23.8 | С | | | | |
| 211-B | Unsignalized | I-64 WB Ramps & Emmans Church Road | I-64 Off-ramp LTR | 92.0 | F | 146.5 | F | | | | |
| 214-A | Unsignalized | I-64 EB Ramps & Courthouse Road | I-64 Off-ramp LTR | 975.5 | F | 169.8 | F | | | | |
| 214-B | Unsignalized | I-64 WB Ramps & Courthouse Road | I-64 Off-ramp LTR | 1768.0 | F | 432.1 | F | | | | |
| 227-A | Unsignalized | I-64 EB Ramps & Old Stage Road | I-64 Off-ramp L | 15.3 | C | 15.0 | В | | | | |
| 227-В | Unsignalized | I-64 WB Ramps & Old Stage Road | I-64 Off-ramp L | 70.4 | F | 362.2 | F | | | | |
| 231-A | Signal | Croaker Road & Rochambeau Drive | Intersection | 227.7 | F | 249.4 | F | 110.1 | F | 77.9 | E |
| 231-В | Unsignalized | Croaker Road & Fenton Mill Road | WB Fenton Mill LTR | 38.6 | E | 44.4 | E | | | | |
| 231-C | Unsignalized | I-64 WB Off-ramp & Croaker Road | I-64 Off-ramp R | 10.4 | В | 11.4 | В | | | | |
| 231-D | Unsignalized | I-64 EB Off-ramp & Croaker Road | I-64 Off-ramp R | 16.4 | C | 19.5 | C | | | | |
| 234-A | Unsignalized | I-64 EB Ramps & Newman Road | I-64 Off-ramp LT | * | F | 96.0 | F | | | | |
| 234-В | Unsignalized | Newman Road & Fenton Mill Road | NB Fenton Mill LTR | 13.8 | В | 17.8 | C | | | | |
| 234-C | Unsignalized | I-64 WB Off-ramp & Newman Road | I-64 Off-ramp R | 10.3 | В | 16.6 | C | | | | |
| 238-A | Unsignalized | I-64 EB Off-ramp (left turn) & Merrimac Trail | I-64 Off-ramp L | 386.8 | F | 793.4 | F | | | | |
| 238-В | Signal | I-64 EB On-ramp, Merrimac Trail, & Rochambeau Drive | Intersection | 251.8 | F | 93.7 | F | 89.7 | F | 46.7 | D |
| 238-C | Unsignalized | I-64 WB Off-ramp (left turn) & Merrimac Trail | I-64 Off-ramp L | 124.3 | F | 49.2 | E | | | 1017 | |
| 238-D | Unsignalized | I-64 EB Off-ramp (right turn) & Merrimac Trail | I-64 Off-ramp R | 244.7 | F | 119.3 | F | | | | |
| 243-A | Signal | Busch Gardens Boulevard NB ramps & US Route 60 | Intersection | 5.8 | A | 9.9 | A | | | | |
| 243-B | Signal | Busch Gardens Boulevard SB ramps & US Route 60 | Intersection | 8.7 | A | 9.2 | A | | | | |
| 247-A | Unsignalized | I-64 EB Off-ramp & Jefferson Avenue | I-64 Off-ramp LR | 977.2 | F | 170.2 | F | | | | |
| 247-B | Signal | Jefferson Ave & Yorktown Road | Intersection | 122.9 | F | 358.0 | F | 64.7 | E | 94.8 | F |
| 247-C | Unsignalized | I-64 EB On-ramp & Yorktown Road | SB Yorktown L | 15.6 | C | 11.3 | В | 3, | | , | |
| 247-D | Unsignalized | I-64 WB Off-ramp & Yorktown Road | I-64 Off-ramp L | 33.2 | D | 31.4 | D | | | | |
| 250-A | Signal | I-64 WB Off-ramp & Jefferson Avenue | Intersection | 21.5 | C | 103.6 | F | 21.7 | С | 35.8 | D |
| 250-B | Signal | Jefferson Avenue & Fort Eustis Boulevard | Intersection | 436.1 | F | 282.7 | F | 34.0 | C | 28.1 | C |
| 255-A | Signal | Jefferson Avenue & Freedom Way/Clair Lane | Intersection | 20.0 | C | 282.6 | F | 31.0 | | 244.3 | F |
| 255-B | Signal | Jefferson Avenue & Brick Kiln Blvd/Wal-Mart Way | Intersection | 182.0 | F | 490.5 | F | 55.0 | D | 318.7 | F |

³ Delay is given as "seconds per vehicle" (sec/veh). For signalized intersections, the delay and LOS apply to the overall intersections, the delay and LOS apply to the single critical movement (major street left or minor street approach) with highest delay.

⁴ Approach is controlled by a yield sign but operates as stop-controlled and was analyzed accordingly.

^{**} Delay exceeds range of model.



Table 55: 2040 Alternative 3 Intersection Level of Service – Non-Summer Weekday Peak

| Intersection | | | , | | 2040 Alt | ernative 3 | | 2040 Alternative 3 - Optimized Signal Timin | | | |
|--------------|--------------|---|--------------------------------|--------------------|------------------|--------------------|------------------|---|------------------|--------------------|------------------|
| Exit – Ramp | Control | Intersection | Critical Movement ¹ | AM | Peak | PM | Peak | AM | Peak | PM | Peak |
| | Control | | | Delay ³ | LOS ³ | Delay ³ | LOS ³ | Delay ³ | LOS ³ | Delay ³ | LOS ³ |
| 190-A | Unsignalized | 5 th Street & I-95 NB On-ramp | SB 5 th Street L | 7.8 | A | 8.1 | A | | | | |
| 190-B | Unsignalized | 3 rd Street & I-95 SB Off-ramp | 3 rd Street L | 44.7 | E | 12.8 | В | | | | |
| 192-A | Signal | I-64 WB Off-ramp/Magnolia Street & US 360 | Intersection | 145.5 | F | 43.0 | D | 67.3 | E | 39.5 | D |
| 192-B | Unsignalized | I-64 EB Off-ramp & US 360 ⁴ | I-64 Off-ramp R ⁴ | 13.9 | В | 10.6 | В | | | | |
| 193-A | Unsignalized | I-64 EB Ramps & Nine Mile Road | I-64 Off-ramp R | 12.5 | В | 10.8 | В | | | | |
| 193-B | Signal | Route 33 & Gordon's Lane | Intersection | 19.5 | В | 18.4 | В | 17.5 | В | 15.7 | В |
| 193-C | Unsignalized | I-64 WB Off-ramp & Nine Mile Road | I-64 Off-ramp R | 17.0 | С | 17.0 | С | | | | |
| 195-A | Signal | I-64 EB Ramps & Laburnum Avenue | Intersection | 49.4 | D | 215.0 | F | 40.6 | D | 206.2 | F |
| 195-B | Signal | I-64 WB Ramps & Laburnum Avenue | Intersection | 8.2 | A | 9.6 | A | | | | |
| 205-A | Signal | I-64 EB Ramps & New Kent Highway | Intersection | 14.5 | В | 24.7 | С | 14.3 | В | 17.4 | В |
| 205-B | Unsignalized | I-64 WB Ramps & New Kent Highway | I-64 Off-ramp LR | 12.0 | В | 220.8 | F | | | | |
| 211-A | Unsignalized | I-64 EB Ramps & Emmans Church Road | I-64 Off-ramp LTR | 16.5 | С | 19.7 | С | | | | |
| 211-B | Unsignalized | I-64 WB Ramps & Emmans Church Road | I-64 Off-ramp LTR | 63.5 | F | 102.4 | F | | | | |
| 214-A | Unsignalized | I-64 EB Ramps & Courthouse Road | I-64 Off-ramp LTR | 818.8 | F | 124.1 | F | | | | |
| 214-B | Unsignalized | I-64 WB Ramps & Courthouse Road | I-64 Off-ramp LTR | 1362.0 | F | 287.5 | F | | | | |
| 227-A | Unsignalized | I-64 EB Ramps & Old Stage Road | I-64 Off-ramp L | 15.3 | С | 14.9 | В | | | | |
| 227-В | Unsignalized | I-64 WB Ramps & Old Stage Road | I-64 Off-ramp L | 51.9 | F | 279.7 | F | | | | |
| 231-A | Signal | Croaker Road & Rochambeau Drive | Intersection | 227.7 | F | 197.8 | F | 94.9 | F | 89.6 | F |
| 231-В | Unsignalized | Croaker Road & Fenton Mill Road | WB Fenton Mill LTR | 47.5 | E | 48.9 | E | | | | |
| 231-C | Unsignalized | I-64 WB Off-ramp & Croaker Road | I-64 Off-ramp R | 10.8 | В | 11.6 | В | | | | |
| 231-D | Unsignalized | I-64 EB Off-ramp & Croaker Road | I-64 Off-ramp R | 15.5 | С | 17.5 | С | | | | |
| 234-A | Unsignalized | I-64 EB Ramps & Newman Road | I-64 Off-ramp LT | * | F | * | F | | | | |
| 234-В | Unsignalized | Newman Road & Fenton Mill Road | NB Fenton Mill LTR | 15.4 | С | 26.4 | D | | | | |
| 234-C | Unsignalized | I-64 WB Off-ramp & Newman Road | I-64 Off-ramp R | 9.5 | A | 16.5 | С | | | | |
| 238-A | Unsignalized | I-64 EB Off-ramp (left turn) & Merrimac Trail | I-64 Off-ramp L | 402.0 | F | 1054.0 | F | | | | |
| 238-В | Signal | I-64 EB On-ramp, Merrimac Trail, & Rochambeau Drive | Intersection | 209.6 | F | 125.8 | F | 62.9 | E | 47.0 | D |
| 238-C | Unsignalized | I-64 WB Off-ramp (left turn) & Merrimac Trail | I-64 Off-ramp L | 130.4 | F | 90.5 | F | | | | |
| 238-D | Unsignalized | I-64 EB Off-ramp (right turn) & Merrimac Trail | I-64 Off-ramp R | 195.6 | F | 118.9 | F | | | | |
| 243-A | Signal | Busch Gardens Boulevard NB ramps & US Route 60 | Intersection | 5.8 | A | 9.9 | A | | | | |
| 243-B | Signal | Busch Gardens Boulevard SB ramps & US Route 60 | Intersection | 8.7 | A | 9.2 | A | | | | |
| 247-A | Unsignalized | I-64 EB Off-ramp & Jefferson Avenue | I-64 Off-ramp LR | 977.2 | F | 170.2 | F | | | | |
| 247-B | Signal | Jefferson Ave & Yorktown Road | Intersection | 122.9 | F | 358.0 | F | 72.1 | E | 173.9 | F |
| 247-C | Unsignalized | I-64 EB On-ramp & Yorktown Road | SB Yorktown L | 16.0 | C | 11.7 | В | | | | |
| 247-D | Unsignalized | I-64 WB Off-ramp & Yorktown Road | I-64 Off-ramp L | 33.2 | D | 33.5 | D | | | | |
| 250-A | Signal | I-64 WB Off-ramp & Jefferson Avenue | Intersection | 21.5 | С | 103.6 | F | 21.7 | С | 35.8 | D |
| 250-В | Signal | Jefferson Avenue & Fort Eustis Boulevard | Intersection | 447.8 | F | 280.5 | F | 34.0 | C | 28.1 | C |
| 255-A | Signal | Jefferson Avenue & Freedom Way/Clair Lane | Intersection | 19.7 | В | 275.6 | F | | | 244.3 | F |
| 255-B | Signal | Jefferson Avenue & Brick Kiln Blvd/Wal-Mart Way | Intersection | 160.3 | F | 483.0 | F | 55.0 | D | 318.7 | F |

³ Delay is given as "seconds per vehicle" (sec/veh). For signalized intersections, the delay and LOS apply to the overall intersections, the delay and LOS apply to the single critical movement (major street left or minor street approach) with highest delay.

⁴ Approach is controlled by a yield sign but operates as stop-controlled and was analyzed accordingly.

^{**} Delay exceeds range of model.



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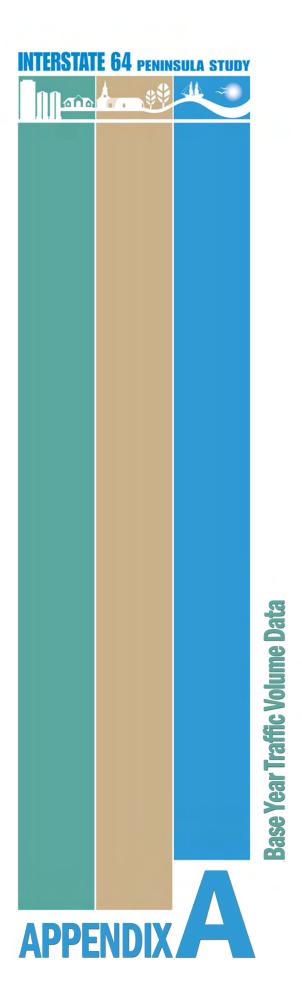
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I-64 EIS counts

3656 E. Stratford Road Virginia Beach, VA 23455 (757) 464-5129

I-64 EIS #19001

I-64 WB on ramp fm 5th St

| Start | Mon | Tue | Wed | Thu | Fri | Average | Sat | Sun | Week | |
|-----------------|-----------|-----------|-----------|-------|-----------|---------|-----------|-----------|---------|--|
| Time | 02-May-11 | 03-May-11 | 04-May-11 | | 06-May-11 | Day | 07-May-11 | 08-May-11 | Average | |
| 12:00 AM | * | * | 19 | 16 | * | 18 | * | * | 18 🔃 | |
| 01:00 | * | * | 8 | 12 | * | 10 | * | * | 10 | |
| 02:00 | * | * | 9 | 10 | * | 10 | * | * | 10 🔲 | |
| 03:00 | * | * | 7 | 9 | * | 8 | * | * | 8 | |
| 04:00 | * | * | 10 | 10 | * | 10 | * | * | 10 🔲 | |
| 05:00 | * | * | 13 | 15 | * | 14 | * | * | 14 | |
| 06:00 | * | * | 34 | 36 | * | 35 | * | * | 35 | |
| 07:00 | * | * | 70 | 46 | * | 58 | * | * | 58 | |
| 08:00 | * | * | 104 | 59 | * | 82 | * | * | 82 | |
| 09:00 | * | * | 99 | 67 | * | 83 | * | * | 83 | |
| 10:00 | * | * | 82 | 82 | * | 82 | * | * | 82 | |
| 11:00 | * | * | 92 | 112 | * | 102 | * | * | 102 | |
| 12:00 PM | * | 129 | 110 | 108 | * | 116 | * | * | 116 | |
| 01:00 | * | 107 | 112 | * | * | 110 | * | * | 110 | |
| 02:00 | * | 135 | 147 | * | * | 141 | * | * | 141 | |
| 03:00 | * | 138 | 143 | * | * | 140 | * | * | 140 | |
| 04:00 | * | 152 | 193 | * | * | 172 | * | * | 172 | |
| 05:00 | * | 147 | 170 | * | * | 158 | * | * | 158 | |
| 06:00 | * | 67 | 97 | * | * | 82 | * | * | 82 | |
| 07:00 | * | 68 | 85 | * | * | 76 | * | * | 76 | |
| 08:00 | * | 59 | 55 | * | * | 57 | * | * | 57 | |
| 09:00 | * | 65 | 59 | * | * | 62 | * | * | 62 | |
| 10:00 | * | 131 | 40 | * | * | 86 | * | * | 86 | |
| 11:00 | * | 24 | 24 | * | * | 24 | * | * | 24 | |
| Day Total | 0 | 1222 | 1782 | 582 | 0 | 1736 | 0 | 0 | 1736 | |
| % Avg. WkDay | 0.0% | 70.4% | 102.6% | 33.5% | 0.0% | | | | | |
| Avg. Week | 0.0% | 70.4% | 102.6% | 33.5% | 0.0% | 100.0% | 0.0% | 0.0% | | |
| AM Peak | | | 08:00 | 11:00 | | 11:00 | | | 11:00 | |
| Vol. | | | 104 | 112 | | 102 | | | 102 | |
| PM Peak | | 16:00 | 16:00 | 12:00 | | 16:00 | | | 16:00 | |
| Vol. | | 152 | 193 | 108 | | 172 | | | 172 | |
| Grand Tota | nl | | | | 582 | 0 173 | 6 | 0 | 0 1736 | |

ADT

ADT 1,782

AADT 1,782

I-64 EIS counts

3656 E. Stratford Road Virginia Beach, VA 23455 (757) 464-5129

I-64 EIS #19002-15

I-64 EB off ramp to 3rd St WB 3rd St

| Start | 02-Ma | ay-11 | Т | ue | W | /ed | Т | -hu | F | ri | S | Sat | | un | Week A | Average |
|----------------|--------|--------|--------|--------|-----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|
| Time | EB off | WB 3rd | EB off | WB 3rd | EB off | WB 3rd | EB off | WB 3rd | EB off | WB 3rd | EB off | WB 3rd | EB off | WB 3rd | EB off | WB 3rd |
| 12:00 AM | * | * | * | * | 22 | 17 | 20 | 9 | * | * | * | * | * | * | 21 | 13 |
| 01:00 | * | * | * | * | 21 | 11 | 19 | 7 | * | * | * | * | * | * | 20 | 9 |
| 02:00 | * | * | * | * | 9 | 6 | 7 | 4 | * | * | * | * | * | * | 8 | 5 |
| 03:00 | * | * | * | * | 12 | 9 | 6 | 7 | * | * | * | * | * | * | 9 | 8 |
| 04:00 | * | * | * | * | 21 | 4 | 30 | 2 | * | * | * | * | * | * | 26 | 3 |
| 05:00 | * | * | * | * | 115 | 25 | 105 | 24 | * | * | * | * | * | * | 110 | 24 |
| 06:00 | * | * | * | * | 581 | 59 | 537 | 71 | * | * | * | * | * | * | 559 | 65 |
| 07:00 | * | * | * | * | 1113 | 92 | 1056 | 168 | * | * | * | * | * | * | 1084 | 130 |
| 08:00 | * | * | * | * | 1193 | 95 | 1272 | 132 | * | * | * | * | * | * | 1232 | 114 |
| 09:00 | * | * | * | * | 626 | 94 | 594 | 101 | * | * | * | * | * | * | 610 | 98 |
| 10:00 | * | * | * | * | 387 | 91 | 375 | 87 | * | * | * | * | * | * | 381 | 89 |
| 11:00 | * | * | * | * | 301 | 76 | 322 | 89 | * | * | * | * | * | * | 312 | 82 |
| 12:00 PM | * | * | * | * | 365 | 86 | 362 | 91 | * | * | * | * | * | * | 364 | 88 |
| 01:00 | * | * | 340 | 100 | 346 | 101 | * | * | * | * | * | * | * | * | 343 | 100 |
| 02:00 | * | * | 294 | 114 | 323 | 97 | * | * | * | * | * | * | * | * | 308 | 106 |
| 03:00 | * | * | 293 | 125 | 268 | 123 | * | * | * | * | * | * | * | * | 280 | 124 |
| 04:00 | * | * | 285 | 154 | 235 | 136 | * | * | * | * | * | * | * | * | 260 | 145 |
| 05:00 | * | * | 246 | 143 | 264 | 142 | * | * | * | * | * | * | * | * | 255 | 142 |
| 06:00 | * | * | 283 | 140 | 204 | 97 | * | * | * | * | * | * | * | * | 244 | 118 |
| 07:00 | * | * | 144 | 56 | 122 | 81 | * | * | * | * | * | * | * | * | 133 | 68 |
| 08:00 | * | * | 83 | 40 | 100 | 46 | * | * | * | * | * | * | * | * | 92 | 43 |
| 09:00 | * | * | 37 | 54 | 41 | 42 | * | * | * | * | * | * | * | * | 39 | 48 |
| 10:00 | * | * | 46 | 45 | 48 | 37 | * | * | * | * | * | * | * | * | 47 | 41 |
| 11:00 | * | * | 51 | 25 | 35 | 17 | * | * | * | * | * | * | * | * | 43 | 21 |
| Lane | 0 | 0 | 2102 | 996 | 6752 | 1584 | 4705 | 792 | 0 | 0 | 0 | 0 | 0 | 0 | 6780 | 1684 |
| Day | C | | 309 | 98 | 833 | | 549 | | 0 | | 0 | | 0 | | 846 | |
| AM Peak | | | | | 08:00 | 08:00 | 08:00 | 07:00 | | | | | | | 08:00 | 07:00 |
| Vol. | | | | | 1193 | 95 | 1272 | 168 | | | | | | | 1232 | 130 |
| PM Peak | | | 13:00 | 16:00 | 12:00 | 17:00 | 12:00 | 12:00 | | | | | | | 12:00 | 16:00 |
| Vol. | | | 340 | 154 | 365 | 142 | 362 | 91 | | | | | | | 364 | 145 |
| Comb. Total | | 0 | | 3098 | | 8336 | | 5497 | | 0 | | 0 | | 0 | | 8464 |
| ADT | | ADT 8 | 3,336 | А | ADT 8,336 | | | | | | | | | | | |

I-64 EIS counts

3656 E. Stratford Road Virginia Beach, VA 23455 (757) 464-5129

I-64 EIS #19003-04

I-64 WB to I-95 SB I-64 WB off ramp to 5th St

| Start | 02-Ma | y-11 | Tu | ıe | W | ed | TI | nu | F | ri | Sa | at | Sı | ın | Week A | verage |
|-----------------|----------|--------|---------|--------|------------|--------|---------|--------|---------|--------|---------|--------|---------|--------|---------|--------|
| Time | WB to SB | WB off | WB to S | WB off | WB to S | WB off | WB to S | WB off | WB to S | WB off | WB to S | WB off | WB to S | WB off | WB to S | WB off |
| 12:00 AM | * | * | * | * | 219 | 63 | 219 | 73 | * | * | * | * | * | * | 219 | 68 |
| 01:00 | * | * | * | * | 114 | 28 | 104 | 19 | * | * | * | * | * | * | 109 | 24 |
| 02:00 | * | * | * | * | 111 | 21 | 86 | 32 | * | * | * | * | * | * | 98 | 26 |
| 03:00 | * | * | * | * | 123 | 20 | 114 | 16 | * | * | * | * | * | * | 118 | 18 |
| 04:00 | * | * | * | * | 174 | 30 | 175 | 36 | * | * | * | * | * | * | 174 | 33 |
| 05:00 | * | * | * | * | 471 | 157 | 514 | 156 | * | * | * | * | * | * | 492 | 156 |
| 06:00 | * | * | * | * | 1187 | 518 | 1285 | 610 | * | * | * | * | * | * | 1236 | 564 |
| 07:00 | * | * | * | * | 1500 | 1027 | 1177 | 1149 | * | * | * | * | * | * | 1338 | 1088 |
| 08:00 | * | * | * | * | 1351 | 1060 | 1426 | 1198 | * | * | * | * | * | * | 1388 | 1129 |
| 09:00 | * | * | * | * | 964 | 626 | 1112 | 707 | * | * | * | * | * | * | 1038 | 666 |
| 10:00 | * | * | * | * | 788 | 409 | 938 | 436 | * | * | * | * | * | * | 863 | 422 |
| 11:00 | * | * | 864 | 430 | 898 | 386 | 927 | 422 | * | * | * | * | * | * | 896 | 413 |
| 12:00 PM | * | * | 954 | 491 | 936 | 460 | 944 | 534 | * | * | * | * | * | * | 945 | 495 |
| 01:00 | * | * | 1052 | 498 | 984 | 499 | * | * | * | * | * | * | * | * | 1018 | 498 |
| 02:00 | * | * | 1177 | 469 | 1154 | 438 | * | * | * | * | * | * | * | * | 1166 | 454 |
| 03:00 | * | * | 1270 | 667 | 1293 | 502 | * | * | * | * | * | * | * | * | 1282 | 584 |
| 04:00 | * | * | 1480 | 913 | 1421 | 767 | * | * | * | * | * | * | * | * | 1450 | 840 |
| 05:00 | * | * | 1274 | 760 | 1441 | 800 | * | * | * | * | * | * | * | * | 1358 | 780 |
| 06:00 | * | * | 1157 | 697 | 1060 | 480 | * | * | * | * | * | * | * | * | 1108 | 588 |
| 07:00 | * | * | 811 | 241 | 768 | 282 | * | * | * | * | * | * | * | * | 790 | 262 |
| 08:00 | * | * | 696 | 207 | 604 | 204 | * | * | * | * | * | * | * | * | 650 | 206 |
| 09:00 | * | * | 606 | 202 | 585 | 170 | * | * | * | * | * | * | * | * | 596 | 186 |
| 10:00 | * | * | 500 | 143 | 556 | 148 | * | * | * | * | * | * | * | * | 528 | 146 |
| 11:00 | * | * | 402 | 119 | 377 | 107 | * | * | * | * | * | * | * | * | 390 | 113 |
| Lane | 0 | 0 | 12243 | 5837 | 19079 | 9202 | 9021 | 5388 | 0 | 0 | 0 | 0 | 0 | 0 | 19250 | 9759 |
| Day | 0 | | 1808 | | 2828 | | 1440 | | 0 | | 0 | | 0 | | 2900 | |
| AM Peak | | | 11:00 | 11:00 | 07:00 | 08:00 | 08:00 | 08:00 | | | | | | | 08:00 | 08:00 |
| Vol. | | | 864 | 430 | 1500 | 1060 | 1426 | 1198 | | | | | | | 1388 | 1129 |
| PM Peak | | | 16:00 | 16:00 | 17:00 | 17:00 | 12:00 | 12:00 | | | | | | | 16:00 | 16:00 |
| Vol. | | | 1480 | 913 | 1441 | 800 | 944 | 534 | | | | | | | 1450 | 840 |
| Comb Tota | | 0 | | 18080 | | 28281 | | 14409 | | 0 | | 0 | | 0 | | 29009 |
| AD ⁻ | | ADT 2 | 8,281 | A | ADT 28,281 | | | | | | | | | | | |

I-64 EIS counts

3656 E. Stratford Road Virginia Beach, VA 23455 (757) 464-5129

I-64 EIS #19005-06

I-64 WB on ramp fm 7th St I-64 EB on ramp fm 7th St

| Start | 02-Ma | ay-11 | Т | ue | W | 'ed | Т | hu | F | ri | S | at | Sı | ın | Week A | verage |
|----------------|-------|-----------|-------|-------|-----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|
| Time | NB on | EB on | NB on | EB on | NB on | EB on | NB on | EB on | NB on | EB on | NB on | EB on | NB on | EB on | NB on | EB on |
| 12:00 AM | * | * | * | * | 40 | 28 | 36 | 29 | * | * | * | * | * | * | 38 | 28 |
| 01:00 | * | * | * | * | 25 | 22 | 23 | 29 | * | * | * | * | * | * | 24 | 26 |
| 02:00 | * | * | * | * | 23 | 13 | 7 | 11 | * | * | * | * | * | * | 15 | 12 |
| 03:00 | * | * | * | * | 6 | 6 | 10 | 9 | * | * | * | * | * | * | 8 | 8 |
| 04:00 | * | * | * | * | 8 | 10 | 6 | 12 | * | * | * | * | * | * | 7 | 11 |
| 05:00 | * | * | * | * | 12 | 28 | 14 | 30 | * | * | * | * | * | * | 13 | 29 |
| 06:00 | * | * | * | * | 34 | 66 | 31 | 54 | * | * | * | * | * | * | 32 | 60 |
| 07:00 | * | * | * | * | 100 | 152 | 38 | 144 | * | * | * | * | * | * | 69 | 148 |
| 08:00 | * | * | * | * | 79 | 153 | 65 | 149 | * | * | * | * | * | * | 72 | 151 |
| 09:00 | * | * | * | * | 87 | 141 | 84 | 126 | * | * | * | * | * | * | 86 | 134 |
| 10:00 | * | * | * | * | 161 | 141 | 159 | 139 | * | * | * | * | * | * | 160 | 140 |
| 11:00 | * | * | * | * | 213 | 210 | 206 | 243 | * | * | * | * | * | * | 210 | 226 |
| 12:00 PM | * | * | 239 | 234 | 246 | 225 | 279 | 293 | * | * | * | * | * | * | 255 | 251 |
| 01:00 | * | * | 238 | 212 | 218 | 258 | * | * | * | * | * | * | * | * | 228 | 235 |
| 02:00 | * | * | 266 | 263 | 249 | 276 | * | * | * | * | * | * | * | * | 258 | 270 |
| 03:00 | * | * | 320 | 435 | 368 | 407 | * | * | * | * | * | * | * | * | 344 | 421 |
| 04:00 | * | * | 391 | 843 | 464 | 811 | * | * | * | * | * | * | * | * | 428 | 827 |
| 05:00 | * | * | 243 | 896 | 423 | 926 | * | * | * | * | * | * | * | * | 333 | 911 |
| 06:00 | * | * | 250 | 412 | 329 | 329 | * | * | * | * | * | * | * | * | 290 | 370 |
| 07:00 | * | * | 275 | 232 | 261 | 214 | * | * | * | * | * | * | * | * | 268 | 223 |
| 08:00 | * | * | 128 | 148 | 141 | 149 | * | * | * | * | * | * | * | * | 134 | 148 |
| 09:00 | * | * | 83 | 104 | 62 | 127 | * | * | * | * | * | * | * | * | 72 | 116 |
| 10:00 | * | * | 105 | 111 | 39 | 75 | * | * | * | * | * | * | * | * | 72 | 93 |
| 11:00 | * | * | 95 | 106 | 59 | 73 | * | * | * | * | * | * | * | * | 77 | 90 |
| Lane | 0 | 0 | 2633 | 3996 | 3647 | 4840 | 958 | 1268 | 0 | 0 | 0 | 0 | 0 | 0 | 3493 | 4928 |
| Day | 0 | | 662 | 29 | 848 | 37 | 222 | 26 | 0 | | 0 | | 0 | | 8421 | 1 |
| AM Peak | | | | | 11:00 | 11:00 | 11:00 | 11:00 | | | | | | | 11:00 | 11:00 |
| Vol. | | | | | 213 | 210 | 206 | 243 | | | | | | | 210 | 226 |
| PM Peak | | | 16:00 | 17:00 | 16:00 | 17:00 | 12:00 | 12:00 | | | | | | | 16:00 | 17:00 |
| Vol. | | | 391 | 896 | 464 | 926 | 279 | 293 | | | | | | | 428 | 911 |
| Comb. Total | | 0 | | 6629 | | 8487 | | 2226 | | 0 | | 0 | | 0 | | 8421 |
| ADT | | ADT 8,487 | | A | ADT 8,487 | | | | | | | | | | | |

I-64 EIS counts

3656 E. Stratford Road Virginia Beach, VA 23455 (757) 464-5129

I-64 EIS #19007-13

I-95 NB off ramp to 7th St I-95 NB to I-64 EB

| Start | 02-Ma | ay-11 | Т | ue | V | Ved | 7 | Γhu | F | =ri | | Sat | | un | Week Average | |
|----------------|--------|---------|------------|---------|---------------|---------|--------|---------|--------|---------|--------|---------|--------|---------|--------------|---------|
| Time | NB off | NB to E | NB off | NB to E | NB off | NB to E | NB off | NB to E | NB off | NB to E | NB off | NB to E | NB off | NB to E | NB off | NB to E |
| 12:00 AM | * | * | * | * | 14 | 226 | 9 | 211 | * | * | * | * | * | * | 12 | 218 |
| 01:00 | * | * | * | * | 13 | 121 | 10 | 128 | * | * | * | * | * | * | 12 | 124 |
| 02:00 | * | * | * | * | 7 | 101 | 2 | 124 | * | * | * | * | * | * | 4 | 112 |
| 03:00 | * | * | * | * | 11 | 149 | 6 | 177 | * | * | * | * | * | * | 8 | 163 |
| 04:00 | * | * | * | * | 14 | 231 | 5 | 258 | * | * | * | * | * | * | 10 | 244 |
| 05:00 | * | * | * | * | 19 | 476 | 40 | 560 | * | * | * | * | * | * | 30 | 518 |
| 06:00 | * | * | * | * | 44 | 445 | 142 | 1031 | * | * | * | * | * | * | 93 | 738 |
| 07:00 | * | * | * | * | 61 | 708 | 310 | 835 | * | * | * | * | * | * | 186 | 772 |
| 08:00 | * | * | * | * | 139 | 1105 | 224 | 1341 | * | * | * | * | * | * | 182 | 1223 |
| 09:00 | * | * | * | * | 112 | 1005 | 98 | 1061 | * | * | * | * | * | * | 105 | 1033 |
| 10:00 | * | * | * | * | 65 | 913 | 88 | 1020 | * | * | * | * | * | * | 76 | 966 |
| 11:00 | * | * | * | * | 58 | 935 | 92 | 1081 | * | * | * | * | * | * | 75 | 1008 |
| 12:00 PM | * | * | 83 | 1052 | 75 | 1033 | 87 | 1093 | * | * | * | * | * | * | 82 | 1059 |
| 01:00 | * | * | 77 | 1096 | 54 | 1066 | 92 | 1198 | * | * | * | * | * | * | 74 | 1120 |
| 02:00 | * | * | 91 | 1230 | 85 | 1217 | * | * | * | * | * | * | * | * | 88 | 1224 |
| 03:00 | * | * | 115 | 1595 | 96 | 1520 | * | * | * | * | * | * | * | * | 106 | 1558 |
| 04:00 | * | * | 107 | 1752 | 87 | 1786 | * | * | * | * | * | * | * | * | 97 | 1769 |
| 05:00 | * | * | 145 | 1506 | 69 | 1680 | * | * | * | * | * | * | * | * | 107 | 1593 |
| 06:00 | * | * | 130 | 1219 | 66 | 1196 | * | * | * | * | * | * | * | * | 98 | 1208 |
| 07:00 | * | * | 46 | 801 | 47 | 831 | * | * | * | * | * | * | * | * | 46 | 816 |
| 08:00 | * | * | 45 | 693 | 30 | 654 | * | * | * | * | * | * | * | * | 38 | 674 |
| 09:00 | * | * | 53 | 653 | 34 | 627 | * | * | * | * | * | * | * | * | 44 | 640 |
| 10:00 | * | * | 35 | 471 | 35 | 467 | * | * | * | * | * | * | * | * | 35 | 469 |
| 11:00 | * | * | 35 | 399 | 29 | 377 | * | * | * | * | * | * | * | * | 32 | 388 |
| Lane | 0 | 0 | 962 | 12467 | 1264 | 18869 | 1205 | 10118 | 0 | 0 | 0 | 0 | 0 | 0 | 1640 | 19637 |
| Day | |) | 134 | 29 | 201 | | 113 | | 0 | | 0 | | 0 | | 212 | |
| AM Peak | | | | | 08:00 | 08:00 | 07:00 | 08:00 | | | | | | | 07:00 | 08:00 |
| Vol. | | | | | 139 | 1105 | 310 | 1341 | | | | | | | 186 | 1223 |
| PM Peak | | | 17:00 | 16:00 | 15:00 | 16:00 | 13:00 | 13:00 | | | | | | | 17:00 | 16:00 |
| Vol. | | | 145 | 1752 | 96 | 1786 | 92 | 1198 | | | | | | | 107 | 1769 |
| Comb. Total | | 0 | | 13429 | | 20133 | | 11323 | | 0 | | 0 | | 0 | | 21277 |
| ADT | | ADT 20 | ADT 20,133 | | 3 AADT 20,133 | | | | | | | | | | | |

I-64 EIS counts

ADT

ADT 3,790

AADT 3,790

3656 E. Stratford Road Virginia Beach, VA 23455 (757) 464-5129

I-64 EIS #19201

I-64 WB off ramp to Mechanicsville Rd

| Start | Mon | Tue | Wed | Thu | Fri | Average | Sat | Sun | Week |
|-----------------|----------------|-----------|-----------|-----------|----------------|---------|----------------|-----------|---------|
| Time | 04-Apr-11 * | 05-Apr-11 | 06-Apr-11 | 07-Apr-11 | 08-Apr-11 * | Day | 09-Apr-11 * | 10-Apr-11 | Average |
| 12:00 AM | * | 52 | 42 | 46 | * | 47 | * | * | 47 |
| 01:00 | * | 26 | 10 | 19 | * | 18 | * | * | 18 |
| 02:00 | * | 20 | 19 | 20 | * | 20 | * | * | 20 |
| 03:00 | * | 19 | 14 | 19 | * | 17 | * | * | 17 |
| 04:00 | | 25 | 27 | 28 | * | 27 | * | * | 27 |
| 05:00 | * | 46 | 36 | 60 | * | 47 | * | * | 47 |
| 06:00 | | 127 | 146 | 125 | | 133 | | | 133 |
| 07:00 | * | 269 | 375 | 319 | * | 321 | * | * | 321 |
| 08:00 | * | 268 | 513 | 273 | * | 351 | * | * | 351 |
| 09:00 | * | 207 | 174 | 170 | * | 184 | * | * | 184 |
| 10:00 | * | 194 | 190 | * | * | 192 | * | * | 192 |
| 11:00 | * | 174 | 187 | * | * | 180 | * | * | 180 |
| 12:00 PM | * | 179 | 210 | * | * | 194 | * | * | 194 |
| 01:00 | * | 230 | 213 | * | * | 222 | * | * | 222 |
| 02:00 | * | 229 | 242 | * | * | 236 | * | * | 236 |
| 03:00 | * | 260 | 236 | * | * | 248 | * | * | 248 |
| 04:00 | * | 234 | 252 | * | * | 243 | * | * | 243 |
| 05:00 | * | 231 | 237 | * | * | 234 | * | * | 234 |
| 06:00 | * | 223 | 210 | * | * | 216 | * | * | 216 |
| 07:00 | * | 165 | 192 | * | * | 178 | * | * | 178 |
| 08:00 | * | 154 | 177 | * | * | 166 | * | * | 166 |
| 09:00 | * | 106 | 142 | * | * | 124 | * | * | 124 |
| 10:00 | * | 64 | 87 | * | * | 76 | * | * | 76 |
| 11:00 | * | 73 | 73 | * | * | 73 | * | * | 73 |
| Day Total | 0 | 3575 | 4004 | 1079 | 0 | 3747 | 0 | 0 | 3747 |
| % Avg. WkDay | 0.0% | 95.4% | 106.9% | 28.8% | 0.0% | | | | |
| 6 Avg. Week | 0.0% | 95.4% | 106.9% | 28.8% | 0.0% | 100.0% | 0.0% | 0.0% | |
| AM Peak | | 07:00 | 08:00 | 07:00 | | 08:00 | | | 08:00 |
| Vol. | | 269 | 513 | 319 | | 351 | | | 351 |
| PM Peak | | 15:00 | 16:00 | | | 15:00 | | | 15:00 |
| Vol. | | 260 | 252 | | | 248 | | | 248 |
| Grand Tota | | | | 004 10 | 79 | 0 3747 | | 0 | 0 3747 |

I-64 EIS counts

3656 E. Stratford Road Virginia Beach, VA 23455 (757) 464-5129

I-64 EIS #19202-03

I-64 WB on ramp fm SB Rt 360 I-64 WB on ramp fm NB Rt 360

| Start | 04-Ap | r-11 | Т | ue Wed | | Т | hu | F | ri | S | at | Sun | | Week Average | | |
|--------------|----------|------------|---------|---------|-----------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|---------|---------|
| Time | WB fm SB | WB fm N | WB fm S | WB fm N | WB fm S | WB fm N | WB fm S | WB fm N | WB fm S | WB fm N | WB fm S | WB fm N | WB fm S | WB fm N | WB fm S | WB fm N |
| 12:00 AM | * | * | 84 | 39 | 84 | 36 | 87 | 37 | * | * | * | * | * | * | 85 | 37 |
| 01:00 | * | * | 55 | 19 | 57 | 10 | 43 | 13 | * | * | * | * | * | * | 52 | 14 |
| 02:00 | * | * | 55 | 13 | 48 | 9 | 58 | 6 | * | * | * | * | * | * | 54 | 9 |
| 03:00 | * | * | 62 | 17 | 62 | 6 | 68 | 19 | * | * | * | * | * | * | 64 | 14 |
| 04:00 | * | * | 108 | 15 | 107 | 22 | 111 | 21 | * | * | * | * | * | * | 109 | 19 |
| 05:00 | * | * | 339 | 36 | 338 | 31 | 347 | 39 | * | * | * | * | * | * | 341 | 35 |
| 06:00 | * | * | 903 | 80 | 942 | 82 | 941 | 87 | * | * | * | * | * | * | 929 | 83 |
| 07:00 | * | * | 1172 | 97 | 1072 | 91 | 1151 | 102 | * | * | * | * | * | * | 1132 | 97 |
| 08:00 | * | * | 1106 | 87 | 998 | 70 | 1149 | 90 | * | * | * | * | * | * | 1084 | 82 |
| 09:00 | * | * | 769 | 107 | 789 | 111 | 777 | 100 | * | * | * | * | * | * | 778 | 106 |
| 10:00 | * | * | 649 | 101 | 695 | 120 | * | * | * | * | * | * | * | * | 672 | 110 |
| 11:00 | * | * | 628 | 111 | 642 | 107 | * | * | * | * | * | * | * | * | 635 | 109 |
| 12:00 PM | * | * | 662 | 113 | 720 | 133 | * | * | * | * | * | * | * | * | 691 | 123 |
| 01:00 | * | * | 705 | 108 | 702 | 139 | * | * | * | * | * | * | * | * | 704 | 124 |
| 02:00 | * | * | 744 | 173 | 759 | 189 | * | * | * | * | * | * | * | * | 752 | 181 |
| 03:00 | * | * | 744 | 189 | 773 | 164 | * | * | * | * | * | * | * | * | 758 | 176 |
| 04:00 | * | * | 754 | 163 | 716 | 131 | * | * | * | * | * | * | * | * | 735 | 147 |
| 05:00 | * | * | 711 | 153 | 706 | 140 | * | * | * | * | * | * | * | * | 708 | 146 |
| 06:00 | * | * | 632 | 140 | 692 | 121 | * | * | * | * | * | * | * | * | 662 | 130 |
| 07:00 | * | * | 480 | 114 | 555 | 101 | * | * | * | * | * | * | * | * | 518 | 108 |
| 08:00 | * | * | 407 | 94 | 414 | 106 | * | * | * | * | * | * | * | * | 410 | 100 |
| 09:00 | * | * | 331 | 69 | 390 | 87 | * | * | * | * | * | * | * | * | 360 | 78 |
| 10:00 | * | * | 285 | 53 | 309 | 49 | * | * | * | * | * | * | * | * | 297 | 51 |
| 11:00 | * | * | 203 | 39 | 188 | 47 | * | * | * | * | * | * | * | * | 196 | 43 |
| Lane | 0 | 0 | 12588 | 2130 | 12758 | 2102 | 4732 | 514 | 0 | 0 | 0 | 0 | 0 | 0 | 12726 | 2122 |
| Day | 0 | | 147 | | 1480 | | 524 | | 0 | | 0 | | 0 | | 1484 | |
| AM Peak | | | 07:00 | 11:00 | 07:00 | 10:00 | 07:00 | 07:00 | | | | | | | 07:00 | 10:00 |
| Vol. | | | 1172 | 111 | 1072 | 120 | 1151 | 102 | | | | | | | 1132 | 110 |
| PM Peak | | | 16:00 | 15:00 | 15:00 | 14:00 | | | | | | | | | 15:00 | 14:00 |
| Vol. | | | 754 | 189 | 773 | 189 | | | | | | | | | 758 | 181 |
| Comb Tota | | 0 | | 14718 | | 14860 | | 5246 | | 0 | | 0 | | 0 | | 14848 |
| AD. | Т | ADT 14,789 | | AA | DT 14,789 | | | | | | | | | | | |

I-64 EIS counts

ADT

ADT 4,495

AADT 4,495

3656 E. Stratford Road Virginia Beach, VA 23455 (757) 464-5129

I-64 EIS #19204-05

I-64 EB on ramp fm SB Rt 360 I-64 EB off ramp to SB Rt 360

| Start | 04-Apr-11 | | Т | ue | W | 'ed | Т | hu | F | ri | Sat | | Sun | | Week Average | |
|----------------|-----------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|--------------|--------|
| Time | EB on | EB off | EB on | EB off | EB on | EB off | EB on | EB off | EB on | EB off | EB on | EB off | EB on | EB off | EB on | EB off |
| 12:00 AM | * | * | 28 | 54 | 21 | 25 | 25 | 29 | * | * | * | * | * | * | 25 | 36 |
| 01:00 | * | * | 27 | 19 | 21 | 15 | 19 | 20 | * | * | * | * | * | * | 22 | 18 |
| 02:00 | * | * | 17 | 19 | 10 | 17 | 5 | 12 | * | * | * | * | * | * | 11 | 16 |
| 03:00 | * | * | 15 | 10 | 11 | 8 | 13 | 10 | * | * | * | * | * | * | 13 | 9 |
| 04:00 | * | * | 19 | 18 | 23 | 10 | 28 | 10 | * | * | * | * | * | * | 23 | 13 |
| 05:00 | * | * | 36 | 16 | 33 | 19 | 46 | 22 | * | * | * | * | * | * | 38 | 19 |
| 06:00 | * | * | 77 | 62 | 84 | 61 | 87 | 55 | * | * | * | * | * | * | 83 | 59 |
| 07:00 | * | * | 119 | 128 | 139 | 146 | 103 | 126 | * | * | * | * | * | * | 120 | 133 |
| 08:00 | * | * | 136 | 111 | 131 | 140 | 144 | 142 | * | * | * | * | * | * | 137 | 131 |
| 09:00 | * | * | 120 | 105 | 133 | 80 | 107 | 94 | * | * | * | * | * | * | 120 | 93 |
| 10:00 | * | * | 123 | 120 | 156 | 87 | * | * | * | * | * | * | * | * | 140 | 104 |
| 11:00 | * | * | 115 | 109 | 123 | 84 | * | * | * | * | * | * | * | * | 119 | 96 |
| 12:00 PM | * | * | 118 | 114 | 144 | 116 | * | * | * | * | * | * | * | * | 131 | 115 |
| 01:00 | * | * | 137 | 137 | 146 | 100 | * | * | * | * | * | * | * | * | 142 | 118 |
| 02:00 | * | * | 155 | 144 | 174 | 137 | * | * | * | * | * | * | * | * | 164 | 140 |
| 03:00 | * | * | 154 | 170 | 182 | 152 | * | * | * | * | * | * | * | * | 168 | 161 |
| 04:00 | * | * | 171 | 137 | 197 | 117 | * | * | * | * | * | * | * | * | 184 | 127 |
| 05:00 | * | * | 162 | 133 | 189 | 121 | * | * | * | * | * | * | * | * | 176 | 127 |
| 06:00 | * | * | 152 | 135 | 162 | 131 | * | * | * | * | * | * | * | * | 157 | 133 |
| 07:00 | * | * | 118 | 109 | 138 | 114 | * | * | * | * | * | * | * | * | 128 | 112 |
| 08:00 | * | * | 91 | 88 | 117 | 93 | * | * | * | * | * | * | * | * | 104 | 90 |
| 09:00 | * | * | 78 | 105 | 101 | 100 | * | * | * | * | * | * | * | * | 90 | 102 |
| 10:00 | * | * | 57 | 72 | 66 | 63 | * | * | * | * | * | * | * | * | 62 | 68 |
| 11:00 | * | * | 43 | 53 | 45 | 72 | * | * | * | * | * | * | * | * | 44 | 62 |
| Lane | 0 | 0 | 2268 | 2168 | 2546 | 2008 | 577 | 520 | 0 | 0 | 0 | 0 | 0 | 0 | 2401 | 2082 |
| Day | 0 | | 443 | | 455 | | 109 | | 0 | | 0 | | 0 | | 4483 | |
| AM Peak | | | 08:00 | 07:00 | 10:00 | 07:00 | 08:00 | 08:00 | | | | | | | 10:00 | 07:00 |
| Vol. | | | 136 | 128 | 156 | 146 | 144 | 142 | | | | | | | 140 | 133 |
| PM Peak | | | 16:00 | 15:00 | 16:00 | 15:00 | | | | | | | | | 16:00 | 15:00 |
| Vol. | | | 171 | 170 | 197 | 152 | | | | | | | | | 184 | 161 |
| Comb. Total | | 0 | | 4436 | | 4554 | | 1097 | | 0 | | 0 | | 0 | | 4483 |

I-64 EIS counts

3656 E. Stratford Road Virginia Beach, VA 23455 (757) 464-5129

I-64 EIS #19206-07

I-64 EB on ramp fm NB Rt 360 I-64 EB off ramp to NB Rt 360

| Start | 04-Ap | or-11 | Т | ue | V | Ved | Т | hu . | | ri | Sa | at | Sı | un | Week A | Average |
|----------------|-------|--------|-------|--------|------------|--------|-------|--------|-------|--------|-------|--------|-------|--------|--------|---------|
| Time | EB on | EB off | EB on | EB off | EB on | EB off | EB on | EB off | EB on | EB off | EB on | EB off | EB on | EB off | EB on | EB off |
| 12:00 AM | * | * | 20 | 132 | 9 | 148 | 13 | 165 | * | * | * | * | * | * | 14 | 148 |
| 01:00 | * | * | 11 | 69 | 7 | 68 | 9 | 89 | * | * | * | * | * | * | 9 | 75 |
| 02:00 | * | * | 5 | 70 | 6 | 74 | 5 | 79 | * | * | * | * | * | * | 5 | 74 |
| 03:00 | * | * | 5 | 50 | 5 | 58 | 2 | 62 | * | * | * | * | * | * | 4 | 57 |
| 04:00 | * | * | 4 | 67 | 7 | 71 | 6 | 65 | * | * | * | * | * | * | 6 | 68 |
| 05:00 | * | * | 16 | 140 | 21 | 171 | 13 | 159 | * | * | * | * | * | * | 17 | 157 |
| 06:00 | * | * | 27 | 373 | 25 | 389 | 30 | 379 | * | * | * | * | * | * | 27 | 380 |
| 07:00 | * | * | 39 | 784 | 49 | 759 | 55 | 761 | * | * | * | * | * | * | 48 | 768 |
| 08:00 | * | * | 36 | 526 | 42 | 630 | 38 | 583 | * | * | * | * | * | * | 39 | 580 |
| 09:00 | * | * | 42 | 512 | 50 | 521 | 51 | 528 | * | * | * | * | * | * | 48 | 520 |
| 10:00 | * | * | 36 | 538 | 43 | 549 | * | * | * | * | * | * | * | * | 40 | 544 |
| 11:00 | * | * | 60 | 553 | 48 | 582 | * | * | * | * | * | * | * | * | 54 | 568 |
| 12:00 PM | * | * | 61 | 689 | 61 | 623 | * | * | * | * | * | * | * | * | 61 | 656 |
| 01:00 | * | * | 71 | 668 | 65 | 712 | * | * | * | * | * | * | * | * | 68 | 690 |
| 02:00 | * | * | 76 | 744 | 77 | 747 | * | * | * | * | * | * | * | * | 76 | 746 |
| 03:00 | * | * | 82 | 1008 | 70 | 980 | * | * | * | * | * | * | * | * | 76 | 994 |
| 04:00 | * | * | 91 | 1424 | 93 | 1270 | * | * | * | * | * | * | * | * | 92 | 1347 |
| 05:00 | * | * | 105 | 1467 | 98 | 1460 | * | * | * | * | * | * | * | * | 102 | 1464 |
| 06:00 | * | * | 55 | 859 | 60 | 885 | * | * | * | * | * | * | * | * | 58 | 872 |
| 07:00 | * | * | 69 | 593 | 55 | 656 | * | * | * | * | * | * | * | * | 62 | 624 |
| 08:00 | * | * | 51 | 482 | 60 | 556 | * | * | * | * | * | * | * | * | 56 | 519 |
| 09:00 | * | * | 35 | 432 | 39 | 448 | * | * | * | * | * | * | * | * | 37 | 440 |
| 10:00 | * | * | 31 | 311 | 25 | 321 | * | * | * | * | * | * | * | * | 28 | 316 |
| 11:00 | * | * | 18 | 237 | 26 | 249 | * | * | * | * | * | * | * | * | 22 | 243 |
| Lane | 0 | 0 | 1046 | 12728 | 1041 | 12927 | 222 | 2870 | 0 | 0 | 0 | 0 | 0 | 0 | 1049 | 12850 |
| Day_ | 0 | | 137 | | 139 | | 309 | | 0 | | 0 | | 0 | | 1389 | |
| AM Peak | | | 11:00 | 07:00 | 09:00 | 07:00 | 07:00 | 07:00 | | | | | | | 11:00 | 07:00 |
| Vol. | | | 60 | 784 | 50 | 759 | 55 | 761 | | | | | | | 54 | 768 |
| PM Peak | | | 17:00 | 17:00 | 17:00 | 17:00 | | | | | | | | | 17:00 | 17:00 |
| Vol. | | | 105 | 1467 | 98 | 1460 | | | | | | | | | 102 | 1464 |
| Comb. Total | | 0 | | 13774 | | 13968 | | 3092 | | 0 | | 0 | | 0 | | 13899 |
| ADT | | ADT 1 | 3,871 | AA | ADT 13,871 | | | | | | | | | | | |

I-64 EIS counts

ADT

ADT 29,382

AADT 29,382

3656 E. Stratford Road Virginia Beach, VA 23455 (757) 464-5129

I-64 EIS #19208 #20

Rt 360/Mechanicsville Rd N of WB on ramp fm NB Rt 360

| Start | 04-Apı | r-11 | 7 | Гие | V | Ved | - | Γhu | Fı | i | Sa | nt | Sur |) | Week A | Average |
|----------------|--------|------|-------|-------|-------|-------|-------|-------|----|----|----|----|-----|----|--------|---------|
| Time | NB | SB | NB | SB | NB | SB | NB | SB | NB | SB | NB | SB | NB | SB | NB | SB |
| 12:00 AM | * | * | 204 | 119 | 213 | 91 | 231 | 120 | * | * | * | * | * | * | 216 | 110 |
| 01:00 | * | * | 105 | 74 | 110 | 71 | 125 | 52 | * | * | * | * | * | * | 113 | 66 |
| 02:00 | * | * | 109 | 57 | 95 | 50 | 110 | 31 | * | * | * | * | * | * | 105 | 46 |
| 03:00 | * | * | 60 | 38 | 70 | 23 | 73 | 44 | * | * | * | * | * | * | 68 | 35 |
| 04:00 | * | * | 89 | 52 | 98 | 54 | 87 | 58 | * | * | * | * | * | * | 91 | 55 |
| 05:00 | * | * | 189 | 90 | 218 | 90 | 212 | 108 | * | * | * | * | * | * | 206 | 96 |
| 06:00 | * | * | 487 | 337 | 485 | 354 | 477 | 343 | * | * | * | * | * | * | 483 | 345 |
| 07:00 | * | * | 1011 | 865 | 1039 | 923 | 990 | 941 | * | * | * | * | * | * | 1013 | 910 |
| 08:00 | * | * | 790 | 845 | 922 | 1107 | 832 | 829 | * | * | * | * | * | * | 848 | 927 |
| 09:00 | * | * | 809 | 483 | 782 | 476 | 777 | 440 | * | * | * | * | * | * | 789 | 466 |
| 10:00 | * | * | 822 | 460 | 811 | 478 | * | * | * | * | * | * | * | * | 816 | 469 |
| 11:00 | * | * | 864 | 444 | 920 | 498 | * | * | * | * | * | * | * | * | 892 | 471 |
| 12:00 PM | * | * | 1030 | 503 | 1069 | 560 | * | * | * | * | * | * | * | * | 1050 | 532 |
| 01:00 | * | * | 1049 | 556 | 1075 | 645 | * | * | * | * | * | * | * | * | 1062 | 600 |
| 02:00 | * | * | 1108 | 581 | 1140 | 654 | * | * | * | * | * | * | * | * | 1124 | 618 |
| 03:00 | * | * | 1467 | 635 | 1449 | 672 | * | * | * | * | * | * | * | * | 1458 | 654 |
| 04:00 | * | * | 1991 | 706 | 1932 | 703 | * | * | * | * | * | * | * | * | 1962 | 704 |
| 05:00 | * | * | 2048 | 709 | 2184 | 751 | * | * | * | * | * | * | * | * | 2116 | 730 |
| 06:00 | * | * | 1290 | 668 | 1344 | 695 | * | * | * | * | * | * | * | * | 1317 | 682 |
| 07:00 | * | * | 937 | 491 | 978 | 561 | * | * | * | * | * | * | * | * | 958 | 526 |
| 08:00 | * | * | 804 | 429 | 879 | 459 | * | * | * | * | * | * | * | * | 842 | 444 |
| 09:00 | * | * | 649 | 338 | 699 | 396 | * | * | * | * | * | * | * | * | 674 | 367 |
| 10:00 | * | * | 459 | 251 | 494 | 283 | * | * | * | * | * | * | * | * | 476 | 267 |
| 11:00 | * | * | 347 | 162 | 376 | 177 | * | * | * | * | * | * | * | * | 362 | 170 |
| Lane | 0 | 0 | 18718 | 9893 | 19382 | 10771 | 3914 | 2966 | 0 | 0 | 0 | 0 | 0 | 0 | 19041 | 10290 |
| Day_ | 0 | | 286 | | | 153 | 68 | | 0 | | 0 | | 0 | | 2933 | |
| AM Peak | | | 07:00 | 07:00 | 07:00 | 08:00 | 07:00 | 07:00 | | | | | | | 07:00 | 08:00 |
| Vol. | | | 1011 | 865 | 1039 | 1107 | 990 | 941 | | | | | | | 1013 | 927 |
| PM Peak | | | 17:00 | 17:00 | 17:00 | 17:00 | | | | | | | | | 17:00 | 17:00 |
| Vol. | | | 2048 | 709 | 2184 | 751 | | | | | | | | | 2116 | 730 |
| Comb. Total | | 0 | | 28611 | | 30153 | | 6880 | | 0 | | 0 | | 0 | | 29331 |

I-64 EIS counts

3656 E. Stratford Road Virginia Beach, VA 23455 (757) 464-5129

I-64 EIS #19303-01

I-64 WB on ramp fm SB 9 Mile Rd I-64 WB off ramp to SB 9 Mile Rd

| Start | 04-Ap | or-11 | Т | ue | W | ed | Т | hu . | F | | Sa | | Sı | un | Week A | Average |
|---------------|-------|--------|-------|--------|-----------|--------|-------|--------|-------|--------|-------|--------|-------|--------|--------|---------|
| Time | WB on | WB off | WB on | WB off | WB on | WB off | WB on | WB off | WB on | WB off | WB on | WB off | WB on | WB off | WB on | WB off |
| 12:00 AM | * | * | 75 | 8 | 63 | 8 | 74 | 13 | * | * | * | * | * | * | 71 | 10 |
| 01:00 | * | * | 41 | 4 | 35 | 8 | 33 | 10 | * | * | * | * | * | * | 36 | 7 |
| 02:00 | * | * | 40 | 5 | 32 | 3 | 22 | 7 | * | * | * | * | * | * | 31 | 5 |
| 03:00 | * | * | 42 | 4 | 39 | 4 | 40 | 5 | * | * | * | * | * | * | 40 | 4 |
| 04:00 | * | * | 78 | 9 | 80 | 7 | 77 | 5 | * | * | * | * | * | * | 78 | 7 |
| 05:00 | * | * | 214 | 6 | 235 | 4 | 249 | 5 | * | * | * | * | * | * | 233 | 5 |
| 06:00 | * | * | 582 | 37 | 619 | 56 | 621 | 48 | * | * | * | * | * | * | 607 | 47 |
| 07:00 | * | * | 896 | 80 | 911 | 100 | 925 | 85 | * | * | * | * | * | * | 911 | 88 |
| 08:00 | * | * | 744 | 76 | 696 | 192 | 709 | 94 | * | * | * | * | * | * | 716 | 121 |
| 09:00 | * | * | 521 | 48 | 566 | 43 | * | * | * | * | * | * | * | * | 544 | 46 |
| 10:00 | * | * | 483 | 56 | 431 | 46 | * | * | * | * | * | * | * | * | 457 | 51 |
| 11:00 | * | * | 417 | 53 | 475 | 54 | * | * | * | * | * | * | * | * | 446 | 54 |
| 12:00 PM | * | * | 477 | 37 | 464 | 54 | * | * | * | * | * | * | * | * | 470 | 46 |
| 01:00 | * | * | 526 | 45 | 508 | 58 | * | * | * | * | * | * | * | * | 517 | 52 |
| 02:00 | * | * | 568 | 48 | 594 | 54 | * | * | * | * | * | * | * | * | 581 | 51 |
| 03:00 | * | * | 575 | 69 | 606 | 67 | * | * | * | * | * | * | * | * | 590 | 68 |
| 04:00 | * | * | 630 | 65 | 586 | 70 | * | * | * | * | * | * | * | * | 608 | 68 |
| 05:00 | * | * | 507 | 91 | 544 | 75 | * | * | * | * | * | * | * | * | 526 | 83 |
| 06:00 | * | * | 485 | 62 | 491 | 82 | * | * | * | * | * | * | * | * | 488 | 72 |
| 07:00 | * | * | 362 | 62 | 411 | 59 | * | * | * | * | * | * | * | * | 386 | 60 |
| 08:00 | * | * | 326 | 38 | 358 | 43 | * | * | * | * | * | * | * | * | 342 | 40 |
| 09:00 | * | * | 226 | 35 | 264 | 28 | * | * | * | * | * | * | * | * | 245 | 32 |
| 10:00 | * | * | 216 | 30 | 214 | 19 | * | * | * | * | * | * | * | * | 215 | 24 |
| 11:00 | * | * | 118 | 18 | 146 | 14 | * | * | * | * | * | * | * | * | 132 | 16 |
| Lane | 0 | 0 | 9149 | 986 | 9368 | 1148 | 2750 | 272 | 0 | 0 | 0 | 0 | 0 | 0 | 9270 | 1057 |
| Day | 0 | | 101 | | 1051 | | 302 | | 0 | | 0 | | 0 | | 1032 | |
| AM Peak | | | 07:00 | 07:00 | 07:00 | 08:00 | 07:00 | 08:00 | | | | | | | 07:00 | 08:00 |
| Vol. | | | 896 | 80 | 911 | 192 | 925 | 94 | | | | | | | 911 | 121 |
| PM Peak | | | 16:00 | 17:00 | 15:00 | 18:00 | | | | | | | | | 16:00 | 17:00 |
| Vol. | | | 630 | 91 | 606 | 82 | | | | | | | | | 608 | 83 |
| Comb. Tota | | 0 | | 10135 | | 10516 | | 3022 | | 0 | | 0 | | 0 | | 10327 |
| ADT | Г | ADT 10 | 0,326 | AA | DT 10,326 | | | | | | | | | | | |

I-64 EIS counts

3656 E. Stratford Road Virginia Beach, VA 23455 (757) 464-5129

I-64 EIS #19302-05

I64 WB on ramp fm NB 9 Mile Rd I64 WB off ramp to NB 9 Mile Rd

| Start | 04-Ap | r-11 | Т | ue | W | 'ed | Т | hu | F | ri | S | at | Sı | ın | Week Av | verage |
|----------------|-------|------------------|-------|--------|-----------|--------|-------|--------|-------|--------|-------|--------|-------|--------|---------|--------|
| Time | WB on | WB off | WB on | WB off | WB on | WB off | WB on | WB off | WB on | WB off | WB on | WB off | WB on | WB off | WB on | WB off |
| 12:00 AM | * | * | 17 | 4 | 13 | 3 | 14 | 8 | * | * | * | * | * | * | 15 | 5 |
| 01:00 | * | * | 14 | 2 | 11 | 3 | 14 | 2 | * | * | * | * | * | * | 13 | 2 |
| 02:00 | * | * | 10 | 4 | 6 | 2 | 8 | 8 | * | * | * | * | * | * | 8 | 5 |
| 03:00 | * | * | 11 | 3 | 5 | 0 | 9 | 2 | * | * | * | * | * | * | 8 | 2 |
| 04:00 | * | * | 8 | 0 | 8 | 3 | 5 | 1 | * | * | * | * | * | * | 7 | 1 |
| 05:00 | * | * | 20 | 5 | 14 | 6 | 20 | 6 | * | * | * | * | * | * | 18 | 6 |
| 06:00 | * | * | 36 | 31 | 41 | 40 | 31 | 38 | * | * | * | * | * | * | 36 | 36 |
| 07:00 | * | * | 66 | 39 | 64 | 55 | 63 | 45 | * | * | * | * | * | * | 64 | 46 |
| 08:00 | * | * | 63 | 47 | 70 | 58 | 62 | 61 | * | * | * | * | * | * | 65 | 55 |
| 09:00 | * | * | 64 | 39 | 65 | 19 | * | * | * | * | * | * | * | * | 64 | 29 |
| 10:00 | * | * | 58 | 26 | 68 | 27 | * | * | * | * | * | * | * | * | 63 | 26 |
| 11:00 | * | * | 60 | 33 | 99 | 32 | * | * | * | * | * | * | * | * | 80 | 32 |
| 12:00 PM | * | * | 88 | 41 | 92 | 34 | * | * | * | * | * | * | * | * | 90 | 38 |
| 01:00 | * | * | 82 | 38 | 83 | 39 | * | * | * | * | * | * | * | * | 82 | 38 |
| 02:00 | * | * | 94 | 36 | 101 | 42 | * | * | * | * | * | * | * | * | 98 | 39 |
| 03:00 | * | * | 108 | 42 | 108 | 40 | * | * | * | * | * | * | * | * | 108 | 41 |
| 04:00 | * | * | 96 | 23 | 112 | 53 | * | * | * | * | * | * | * | * | 104 | 38 |
| 05:00 | * | * | 96 | 34 | 79 | 40 | * | * | * | * | * | * | * | * | 88 | 37 |
| 06:00 | * | * | 61 | 42 | 77 | 36 | * | * | * | * | * | * | * | * | 69 | 39 |
| 07:00 | * | * | 80 | 22 | 67 | 25 | * | * | * | * | * | * | * | * | 74 | 24 |
| 08:00 | * | * | 94 | 28 | 76 | 25 | * | * | * | * | * | * | * | * | 85 | 26 |
| 09:00 | * | * | 53 | 26 | 56 | 20 | * | * | * | * | * | * | * | * | 54 | 23 |
| 10:00 | * | * | 31 | 12 | 42 | 16 | * | * | * | * | * | * | * | * | 36 | 14 |
| 11:00 | * | * | 20 | 11 | 19 | 15 | * | * | * | * | * | * | * | * | 20 | 13 |
| Lane | 0 | 0 | 1330 | 588 | 1376 | 633 | 226 | 171 | 0 | 0 | 0 | 0 | 0 | 0 | 1349 | 615 |
| Day_ | 0 | | 191 | | 200 | | 39 | | 0 | | 0 | | 0 | | 1964 | |
| AM Peak | | | 07:00 | 08:00 | 11:00 | 08:00 | 07:00 | 08:00 | | | | | | | 11:00 | 08:00 |
| Vol. | | | 66 | 47 | 99 | 58 | 63 | 61 | | | | | | | 80 | 55 |
| PM Peak | | | 15:00 | 15:00 | 16:00 | 16:00 | | | | | | | | | 15:00 | 15:00 |
| Vol. | | | 108 | 42 | 112 | 53 | | | | | | | | | 108 | 41 |
| Comb. Total | | 0 | | 1918 | | 2009 | | 397 | | 0 | | 0 | | 0 | | 1964 |
| ADT | - | ADT ² | 1,964 | А | ADT 1,964 | | | | | | | | | | | |

I-64 EIS counts

3656 E. Stratford Road Virginia Beach, VA 23455 (757) 464-5129

I-64 EIS #19304

I-64 EB off ramp to SB 9 Mile Rd

| Start | Mon | Tue | Wed | Thu | Fri | Averag | | Sun | Week | |
|-----------------|-----------|-----------|-----------|-----------|-----------|--------|-----------|--------------|--------|--|
| Time | 04-Apr-11 | 05-Apr-11 | 06-Apr-11 | 07-Apr-11 | 08-Apr-11 | Day | 09-Apr-11 | 10-Apr-11 | | |
| 12:00 AM | * | 14 | 25 | 21 | * | 20 | * | * | 20 | |
| 01:00 | * | 16 | 15 | 8 | * | 13 | * | * | 13 | |
| 02:00 | * | 7 | 6 | 9 | * | 7 | * | * | 7 📕 | |
| 03:00 | * | 14 | 8 | 4 | * | 9 | * | * | 9 | |
| 04:00 | * | 2 | 4 | 9 | * | 5 | * | * | 5 🛘 | |
| 05:00 | * | 10 | 8 | 15 | * | 11 | * | * | 11 📕 | |
| 06:00 | * | 45 | 40 | 54 | * | 46 | * | * | 46 | |
| 07:00 | * | 104 | 121 | 90 | * | 105 | * | * | 105 | |
| 08:00 | * | 112 | 92 | 123 | * | 109 | * | * | 109 | |
| 09:00 | * | 89 | 97 | * | * | 93 | * | * | 93 | |
| 10:00 | * | 86 | 90 | * | * | 88 | * | * | 88 | |
| 11:00 | * | 91 | 93 | * | * | 92 | * | * | 92 | |
| 12:00 PM | * | 94 | 79 | * | * | 86 | * | * | 86 | |
| 01:00 | * | 95 | 89 | * | * | 92 | * | * | 92 | |
| 02:00 | * | 103 | 95 | * | * | 99 | * | * | 99 | |
| 03:00 | * | 97 | 98 | * | * | 98 | * | * | 98 | |
| 04:00 | * | 87 | 79 | * | * | 83 | * | * | 83 | |
| 05:00 | * | 120 | 82 | * | * | 101 | * | * | 101 | |
| 06:00 | * | 128 | 117 | * | * | 122 | * | * | 122 | |
| 07:00 | * | 83 | 87 | * | * | 85 | * | * | 85 | |
| 08:00 | * | 74 | 70 | * | * | 72 | * | * | 72 | |
| 09:00 | * | 58 | 63 | * | * | 60 | * | * | 60 | |
| 10:00 | * | 43 | 45 | * | * | 44 | * | * | 44 | |
| 11:00 | * | 24 | 34 | * | * | 29 | * | * | 29 | |
| Day Total | 0 | 1596 | 1537 | 333 | 0 | 1569 | 0 | 0 | 1569 | |
| % Avg. WkDay | 0.0% | 101.7% | 98.0% | 21.2% | 0.0% | | | | | |
| Avg. Week | 0.0% | 101.7% | 98.0% | 21.2% | 0.0% | 100.0% | 0.0% | 0.0% | | |
| AM Peak | | 08:00 | 07:00 | 08:00 | | 08:00 | | - | 08:00 | |
| Vol. | | 112 | 121 | 123 | | 109 | | | 109 | |
| PM Peak | | 18:00 | 18:00 | | | 18:00 | | | 18:00 | |
| Vol. | | 128 | 117 | | | 122 | | | 122 | |
| Grand Tota | 1 | | | 537 3 | 333 | 0 | 1569 | 0 | 0 1569 | |

ADT

ADT 1,566

AADT 1,566

I-64 EIS counts

3656 E. Stratford Road Virginia Beach, VA 23455 (757) 464-5129

I-64 EIS #19306-07

I-64 EB on ramp fm NB 9 Mile Rd I-64 EB off ramp fm NB 9 Mile Rd

| Start | 04-Ap | | Т | ue | W | 'ed | Т | hu . | | ri | S | | S | un | | Average |
|----------------|-------|--------|-------|--------|-----------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|---------|
| Time | EB on | EB off | EB on | EB off | EB on | EB off | EB on | EB off | EB on | EB off | EB on | EB off | EB on | EB off | EB on | EB off |
| 12:00 AM | * | * | 21 | 117 | 12 | 110 | 15 | 116 | * | * | * | * | * | * | 16 | 114 |
| 01:00 | * | * | 13 | 56 | 10 | 49 | 5 | 58 | * | * | * | * | * | * | 9 | 54 |
| 02:00 | * | * | 11 | 51 | 6 | 45 | 10 | 31 | * | * | * | * | * | * | 9 | 42 |
| 03:00 | * | * | 8 | 32 | 4 | 36 | 9 | 27 | * | * | * | * | * | * | 7 | 32 |
| 04:00 | * | * | 9 | 32 | 13 | 37 | 8 | 29 | * | * | * | * | * | * | 10 | 33 |
| 05:00 | * | * | 22 | 99 | 24 | 83 | 21 | 95 | * | * | * | * | * | * | 22 | 92 |
| 06:00 | * | * | 50 | 292 | 53 | 291 | 60 | 277 | * | * | * | * | * | * | 54 | 287 |
| 07:00 | * | * | 70 | 441 | 78 | 447 | 90 | 517 | * | * | * | * | * | * | 79 | 468 |
| 08:00 | * | * | 84 | 330 | 91 | 382 | 80 | 362 | * | * | * | * | * | * | 85 | 358 |
| 09:00 | * | * | 61 | 344 | 70 | 289 | * | * | * | * | * | * | * | * | 66 | 316 |
| 10:00 | * | * | 73 | 352 | 70 | 335 | * | * | * | * | * | * | * | * | 72 | 344 |
| 11:00 | * | * | 94 | 338 | 92 | 326 | * | * | * | * | * | * | * | * | 93 | 332 |
| 12:00 PM | * | * | 91 | 436 | 93 | 397 | * | * | * | * | * | * | * | * | 92 | 416 |
| 01:00 | * | * | 106 | 458 | 103 | 375 | * | * | * | * | * | * | * | * | 104 | 416 |
| 02:00 | * | * | 114 | 490 | 110 | 464 | * | * | * | * | * | * | * | * | 112 | 477 |
| 03:00 | * | * | 140 | 653 | 161 | 544 | * | * | * | * | * | * | * | * | 150 | 598 |
| 04:00 | * | * | 196 | 698 | 212 | 713 | * | * | * | * | * | * | * | * | 204 | 706 |
| 05:00 | * | * | 142 | 734 | 181 | 748 | * | * | * | * | * | * | * | * | 162 | 741 |
| 06:00 | * | * | 116 | 583 | 113 | 556 | * | * | * | * | * | * | * | * | 114 | 570 |
| 07:00 | * | * | 85 | 455 | 89 | 492 | * | * | * | * | * | * | * | * | 87 | 474 |
| 08:00 | * | * | 80 | 426 | 83 | 388 | * | * | * | * | * | * | * | * | 82 | 407 |
| 09:00 | * | * | 60 | 346 | 62 | 364 | * | * | * | * | * | * | * | * | 61 | 355 |
| 10:00 | * | * | 42 | 236 | 42 | 218 | * | * | * | * | * | * | * | * | 42 | 227 |
| 11:00 | * | * | 27 | 168 | 35 | 203 | * | * | * | * | * | * | * | * | 31 | 186 |
| Lane | 0 | 0 | 1715 | 8167 | 1807 | 7892 | 298 | 1512 | 0 | 0 | 0 | 0 | 0 | 0 | 1763 | 8045 |
| Day_ | 0 | | 988 | | 969 | | 181 | | 0 | | 0 | | 0 | | 980 | |
| AM Peak | | | 11:00 | 07:00 | 11:00 | 07:00 | 07:00 | 07:00 | | | | | | | 11:00 | 07:00 |
| Vol. | | | 94 | 441 | 92 | 447 | 90 | 517 | | | | | | | 93 | 468 |
| PM Peak | | | 16:00 | 17:00 | 16:00 | 17:00 | | | | | | | | | 16:00 | 17:00 |
| Vol. | | | 196 | 734 | 212 | 748 | | | | | | | | | 204 | 741 |
| Comb. Total | | 0 | | 9882 | | 9699 | | 1810 | | 0 | | 0 | | 0 | | 9808 |
| ADT | | ADT 9 | 9,790 | A | ADT 9,790 | | | | | | | | | | | |

I-64 EIS counts

ADT

ADT 10,254

AADT 10,254

3656 E. Stratford Road Virginia Beach, VA 23455 (757) 464-5129

I-64 EIS #19308

9 Mile Rd b/t EB off to SB and EB off to NB

| Start | 04-Apr | -11 | 7 | Гие | V | Ved | 7 | Γhu | Fr | i | Sa | t | Sui | n | Week Av | verage |
|----------------|--------|-----|-------|-------|-------|-------|-------|-------|----|----|----|----|-----|----|---------|--------|
| Time | NB . | SB | NB | SB | NB | SB | NB | SB | NB | SB | NB | SB | NB | SB | NB | SB |
| 12:00 AM | * | * | 62 | 42 | 45 | 36 | 45 | 37 | * | * | * | * | * | * | 51 | 38 |
| 01:00 | * | * | 35 | 22 | 25 | 23 | 31 | 20 | * | * | * | * | * | * | 30 | 22 |
| 02:00 | * | * | 23 | 29 | 16 | 11 | 24 | 18 | * | * | * | * | * | * | 21 | 19 |
| 03:00 | * | * | 24 | 15 | 12 | 22 | 11 | 17 | * | * | * | * | * | * | 16 | 18 |
| 04:00 | * | * | 17 | 26 | 19 | 29 | 11 | 22 | * | * | * | * | * | * | 16 | 26 |
| 05:00 | * | * | 31 | 48 | 33 | 38 | 36 | 47 | * | * | * | * | * | * | 33 | 44 |
| 06:00 | * | * | 105 | 165 | 104 | 175 | 110 | 182 | * | * | * | * | * | * | 106 | 174 |
| 07:00 | * | * | 159 | 345 | 165 | 365 | 163 | 372 | * | * | * | * | * | * | 162 | 361 |
| 08:00 | * | * | 180 | 371 | 217 | 554 | 194 | 425 | * | * | * | * | * | * | 197 | 450 |
| 09:00 | * | * | 223 | 234 | 226 | 239 | * | * | * | * | * | * | * | * | 224 | 236 |
| 10:00 | * | * | 222 | 232 | 241 | 239 | * | * | * | * | * | * | * | * | 232 | 236 |
| 11:00 | * | * | 265 | 254 | 319 | 259 | * | * | * | * | * | * | * | * | 292 | 256 |
| 12:00 PM | * | * | 320 | 255 | 305 | 302 | * | * | * | * | * | * | * | * | 312 | 278 |
| 01:00 | * | * | 309 | 265 | 314 | 285 | * | * | * | * | * | * | * | * | 312 | 275 |
| 02:00 | * | * | 330 | 341 | 349 | 339 | * | * | * | * | * | * | * | * | 340 | 340 |
| 03:00 | * | * | 388 | 353 | 423 | 366 | * | * | * | * | * | * | * | * | 406 | 360 |
| 04:00 | * | * | 451 | 402 | 534 | 418 | * | * | * | * | * | * | * | * | 492 | 410 |
| 05:00 | * | * | 519 | 426 | 516 | 409 | * | * | * | * | * | * | * | * | 518 | 418 |
| 06:00 | * | * | 325 | 326 | 382 | 365 | * | * | * | * | * | * | * | * | 354 | 346 |
| 07:00 | * | * | 303 | 275 | 303 | 310 | * | * | * | * | * | * | * | * | 303 | 292 |
| 08:00 | * | * | 281 | 198 | 306 | 222 | * | * | * | * | * | * | * | * | 294 | 210 |
| 09:00 | * | * | 197 | 163 | 217 | 148 | * | * | * | * | * | * | * | * | 207 | 156 |
| 10:00 | * | * | 102 | 112 | 119 | 117 | * | * | * | * | * | * | * | * | 110 | 114 |
| 11:00 | * | * | 76 | 55 | 73 | 74 | * | * | * | * | * | * | * | * | 74 | 64 |
| Lane | 0 | 0 | 4947 | 4954 | 5263 | 5345 | 625 | 1140 | 0 | 0 | 0 | 0 | 0 | 0 | 5102 | 5143 |
| Day | 0 | | 99 | | 106 | | 170 | | 0 | | 0 | | 0 | | 1024 | |
| AM Peak | | | 11:00 | 08:00 | 11:00 | 08:00 | 08:00 | 08:00 | | | | | | | 11:00 | 08:00 |
| Vol. | | | 265 | 371 | 319 | 554 | 194 | 425 | | | | | | | 292 | 450 |
| PM Peak | | | 17:00 | 17:00 | 16:00 | 16:00 | | | | | | | | | 17:00 | 17:00 |
| Vol. | | | 519 | 426 | 534 | 418 | | | | | | | | | 518 | 418 |
| Comb. Total | | 0 | | 9901 | | 10608 | | 1765 | | 0 | | 0 | | 0 | | 10245 |

I-64 EIS counts

3656 E. Stratford Road Virginia Beach, VA 23455 (757) 464-5129

I-64 EIS #19501-02 #11

I-64 WB on ramp fm NB Laburnum I-64 WB off ramp to Laburnum

| Start | 02-Ma | ay-11 | Т | ue | W | ed | Т | hu . | F | ri | S | at | Sı | ın | Week Av | verage |
|-----------------|-------|--------|--------------|--------------|--------------|--------------|--------------|--------------|-------|--------|-------|--------|-------|--------|--------------|--------------|
| Time | WB on | WB off | WB on | WB off | WB on | WB off | WB on | WB off | WB on | WB off | WB on | WB off | WB on | WB off | WB on | WB off |
| 12:00 AM | * | * | * | * | 77 | 17 | 92 | 11 | * | * | * | * | * | * | 84 | 14 |
| 01:00 | * | * | * | * | 53 | 9 | 76 | 9 | * | * | * | * | * | * | 64 | 9 |
| 02:00 | * | * | * | * | 46 | 7 | 57 | 10 | * | * | * | * | * | * | 52 | 8 |
| 03:00 | * | * | * | * | 61 | 7 | 52 | 3 | * | * | * | * | * | * | 56 | 5 |
| 04:00 | * | * | * | * | 89 | 14 | 89 | 10 | * | * | * | * | * | * | 89 | 12 |
| 05:00 | * | * | * | * | 160 | 32 | 189 | 27 | * | * | * | * | * | * | 174 | 30 |
| 06:00 | * | * | * | * | 362 | 116 | 432 | 105 | * | * | * | * | * | * | 397 | 110 |
| 07:00 | * | * | * | * | 561 | 154 | 574 | 209 | * | * | * | * | * | * | 568 | 182 |
| 08:00 | * | * | * | * | 471 | 171 | 444 | 166 | * | * | * | * | * | * | 458 | 168 |
| 09:00 | * | * | * | * | 378 | 152 | 408 | 151 | * | * | * | * | * | * | 393 | 152 |
| 10:00 | * | * | * | * | 422 | 137 | 480 | 133 | * | * | * | * | * | * | 451 | 135 |
| 11:00 | * | * | * | * | 458 | 156 | 462 | 195 | * | * | * | * | * | * | 460 | 176 |
| 12:00 PM | * | * | * | * | 503 | 162 | 572 | 135 | * | * | * | * | * | * | 538 | 148 |
| 01:00 | * | * | * | * | 571 | 164 | 607 | 153 | * | * | * | * | * | * | 589 | 158 |
| 02:00 | * | * | 587 | 165 | 594 | 139 | * | * | * | * | * | * | * | * | 590 | 152 |
| 03:00 | * | * | 589 | 183 | 629 | 167 | * | * | * | * | * | * | * | * | 609 | 175 |
| 04:00 | * | * | 592 | 221 | 575 | 209 | * | * | * | * | * | * | * | * | 584 | 215 |
| 05:00 | * | * | 611 | 272 | 568 | 187 | * | * | * | * | * | * | * | * | 590 | 230 |
| 06:00 | * | * | 493 | 184 | 469 | 171 | * | * | * | * | * | * | * | * | 481 | 178 |
| 07:00 | * | * | 352 | 95 | 374 | 123 | * | * | * | * | * | * | * | * | 363 | 109 |
| 08:00 | * | * | 358 | 92 | 336 | 94 | * | * | * | * | * | * | * | * | 347 | 93 |
| 09:00 | * | * | 292 | 61 | 248 | 71 | * | * | * | * | * | * | * | * | 270 | 66 |
| 10:00 | * | * | 192 | 35 | 220 | 56 | * | * | * | * | * | * | * | * | 206 | 46 |
| 11:00 | * | * | 159 | 33 | 151 | 44 | * | * | * | * | * | * | * | * | 155 | 38 |
| Lane | 0 | 0 | 4225 | 1341 | 8376 | 2559 | 4534 | 1317 | 0 | 0 | 0 | 0 | 0 | 0 | 8568 | 2609 |
| Day | C | | 556 | 6 | 1093 | | 585 | | 0 | | 0 | | 0 | | 1117 | |
| AM Peak | | | | | 07:00 | 08:00 | 07:00 | 07:00 | | | | | | | 07:00 | 07:00 |
| Vol. | | | 47.00 | 47.00 | 561 | 171 | 574 | 209 | | | | | | | 568 | 182 |
| PM Peak Vol. | | | 17:00 611 | 17:00 272 | 15:00 629 | 16:00 209 | 13:00 607 | 13:00 153 | | | | | | | 15:00 609 | 17:00 230 |
| VOI. | | | 011 | 212 | 629 | 209 | 607 | 153 | | | | | | | 609 | 230 |
| Comb | | 0 | | 5566 | | 10935 | | 5851 | | 0 | | 0 | | 0 | | 11177 |
| Tota | | U | | 9900 | | 10935 | | 3631 | | 0 | | U | | U | | 111// |
| ADT | Г | ADT 10 | 0,935 | AA | DT 10,935 | | | | | | | | | | | |

I-64 EIS counts

ADT

ADT 592

AADT 592

3656 E. Stratford Road Virginia Beach, VA 23455 (757) 464-5129

I-64 EIS #19503

I-64 WB on ramp fm SB Laburnum

| Start | Mon | Tue | Wed | Thu | Fri | Average | e Sat | Sun | Week | |
|-----------------|-----------|-----------|-----------|-----------|-----------|---------|-----------|-----------|-------|-----|
| Time | 02-May-11 | 03-May-11 | 04-May-11 | 05-May-11 | 06-May-11 | | 07-May-11 | 08-May-11 | | |
| 12:00 AM | * | * | 6 | 2 | * | 4 | * | * | 4 | |
| 01:00 | * | * | 1 | 2 | * | 2 | * | * | 2 | |
| 02:00 | * | * | 4 | 2 | * | 3 | * | * | 3 [| |
| 03:00 | * | * | 0 | 3 | * | 2 | * | * | 2 | |
| 04:00 | * | * | 5 | 7 | * | 6 | * | * | 6 | |
| 05:00 | * | * | 14 | 12 | * | 13 | * | * | 13 | |
| 06:00 | * | * | 23 | 26 | * | 24 | * | * | 24 | |
| 07:00 | * | * | 68 | 73 | * | 70 | * | * | 70 | |
| 08:00 | * | * | 50 | 48 | * | 49 | * | * | 49 | |
| 09:00 | * | * | 33 | 26 | * | 30 | * | * | 30 | |
| 10:00 | * | * | 22 | 32 | * | 27 | * | * | 27 | |
| 11:00 | * | * | 22 | 29 | * | 26 | * | * | 26 | |
| 12:00 PM | * | * | 36 | 28 | * | 32 | * | * | 32 | |
| 01:00 | * | * | 31 | 26 | * | 28 | * | * | 28 | |
| 02:00 | * | 50 | 44 | * | * | 47 | * | * | 47 | |
| 03:00 | * | 40 | 44 | * | * | 42 | * | * | 42 | |
| 04:00 | * | 37 | 42 | * | * | 40 | * | * | 40 [| |
| 05:00 | * | 50 | 51 | * | * | 50 | * | * | 50 | |
| 06:00 | * | 32 | 33 | * | * | 32 | * | * | 32 | |
| 07:00 | * | 31 | 13 | * | * | 22 | * | * | 22 | |
| 08:00 | * | 17 | 16 | * | * | 16 | * | * | 16 | |
| 09:00 | * | 13 | 10 | * | * | 12 | * | * | 12 | |
| 10:00 | * | 13 | 18 | * | * | 16 | * | * | 16 | |
| 11:00 | * | 6 | 6 | * | * | 6 | * | * | 6 | |
| Day Total | 0 | 289 | 592 | 316 | 0 | 599 | 0 | 0 | 599 | |
| % Avg. WkDay | 0.0% | 48.2% | 98.8% | 52.8% | 0.0% | | | | | |
| Avg. Week | 0.0% | 48.2% | 98.8% | 52.8% | 0.0% | 100.0% | 0.0% | 0.0% | | |
| AM Peak | | | 07:00 | 07:00 | | 07:00 | | | 07:00 | |
| Vol. | | | 68 | 73 | | 70 | | | 70 | |
| PM Peak | | 14:00 | 17:00 | 12:00 | | 17:00 | | | 17:00 | |
| Vol. | | 50 | 51 | 28 | | 50 | | | 50 | |
| Grand Tota | al | | | | 316 | 0 | 599 | 0 | 0 | 599 |

I-64 EIS counts

3656 E. Stratford Road Virginia Beach, VA 23455 (757) 464-5129

I-64 EIS #19505 #16

I-64 EB off ramp to Laburnum

| Start | Mon | Tue | Wed | Thu | Fri | Average | Sat | Sun | Week |
|-------------|-----------|-----------|-----------|-----------|-----------|---------|-----------|-----------|---------|
| Time | 02-May-11 | 03-May-11 | 04-May-11 | 05-May-11 | 06-May-11 | Day | 07-May-11 | 08-May-11 | |
| 12:00 AM | * | * | 100 | 106 | * | 103 | * | * | 103 |
| 01:00 | * | * | 56 | 72 | * | 64 | * | * | 64 |
| 02:00 | * | * | 46 | 75 | * | 60 | * | * | 60 🔲 |
| 03:00 | * | * | 72 | 80 | * | 76 | * | * | 76 📃 |
| 04:00 | * | * | 82 | 104 | * | 93 | * | * | 93 |
| 05:00 | * | * | 186 | 245 | * | 216 | * | * | 216 |
| 06:00 | * | * | 345 | 429 | * | 387 | * | * | 387 |
| 07:00 | * | * | 554 | 537 | * | 546 | * | * | 546 |
| 08:00 | * | * | 551 | 623 | * | 587 | * | * | 587 |
| 09:00 | * | * | 506 | 536 | * | 521 | * | * | 521 |
| 10:00 | * | * | 480 | 545 | * | 512 | * | * | 512 |
| 11:00 | * | * | 579 | 667 | * | 623 | * | * | 623 |
| 12:00 PM | * | * | 627 | 744 | * | 686 | * | * | 686 |
| 01:00 | * | * | 652 | 751 | * | 702 | * | * | 702 |
| 02:00 | * | 610 | 676 | * | * | 643 | * | * | 643 |
| 03:00 | * | 758 | 798 | * | * | 778 | * | * | 778 |
| 04:00 | * | 1010 | 903 | * | * | 956 | * | * | 956 |
| 05:00 | * | 871 | 948 | * | * | 910 | * | * | 910 |
| 06:00 | * | 685 | 683 | * | * | 684 | * | * | 684 |
| 07:00 | * | 504 | 513 | * | * | 508 | * | * | 508 |
| 08:00 | * | 416 | 405 | * | * | 410 | * | * | 410 |
| 09:00 | * | 330 | 332 | * | * | 331 | * | * | 331 |
| 10:00 | * | 236 | 245 | * | * | 240 | * | * | 240 |
| 11:00 | * | 201 | 161 | * | * | 181 | * | * | 181 |
| Day Total | 0 | 5621 | 10500 | 5514 | 0 | 10817 | 0 | 0 | 10817 |
| % Avg. | | | | | | 10017 | U | <u> </u> | 10017 |
| WkDay | 0.0% | 52.0% | 97.1% | 51.0% | 0.0% | | | | |
| 6 Avg. Week | 0.0% | 52.0% | 97.1% | 51.0% | 0.0% | 100.0% | 0.0% | 0.0% | |
| AM Peak | 0.070 | 02.070 | 11:00 | 11:00 | 0.070 | 11:00 | 0.070 | 0.070 | 11:00 |
| Vol. | | | 579 | 667 | | 623 | | | 623 |
| PM Peak | | 16:00 | 17:00 | 13:00 | | 16:00 | | | 16:00 |
| Vol. | | 10.00 | 948 | 751 | | 956 | | | 956 |
| Grand Tota | | | 521 105 | | 4.4 | 0 10817 | | 0 | 0 10817 |

I-64 EIS counts

3656 E. Stratford Road Virginia Beach, VA 23455 (757) 464-5129

I-64 EIS #19507 #7

I-64 EB on ramp fm Laburnum

| Start | Mon | Tue | Wed | Thu | Fri | Avera | ge Sat | Sun | Week | |
|------------------|----------------|----------------|-----------------|------------------------|----------------|------------|----------------|----------------|-----------------|------|
| Time 12:00 AM | 02-May-11 * | 03-May-11 * | 04-May-11 21 | <u>05-May-11</u> 17 | 06-May-11 * | | 07-May-11 * | 08-May-11 * | Average 19 [| |
| 01:00 | * | * | 18 | 13 | * | 16 | | * | 16 | |
| 01:00 | * | * | 7 | 10 | * | 8 | | * | 8 [| |
| 03:00 | * | * | 12 | 5 | * | 8 | | * | 8] | |
| 04:00 | * | * | 20 | 22 | * | 21 | | * | 21 | |
| 05:00 | * | * | 57 | 61 | * | 59 | | * | 59 | |
| 06:00 | * | * | 105 | 125 | * | 115 | | * | 115 | |
| 07:00 | * | * | 146 | 177 | * | 162 | | * | 162 | |
| 08:00 | * | * | 191 | 152 | * | 172 | | * | 172 | |
| 09:00 | * | * | 124 | 160 | * | 142 | | * | 142 | |
| 10:00 | * | * | 145 | 184 | * | 164 | | * | 164 | |
| 11:00 | * | * | 170 | 174 | * | 172 | | * | 172 | |
| 12:00 PM | * | * | 170 | 237 | * | 216 | | * | 216 | |
| | * | * | | 258 | * | | | * | 268 | |
| 01:00 | * | | 278 | 236 | * | 268 | | * | 208 | |
| 02:00 03:00 | * | 257 234 | 201 271 | * | * | 229 252 | | * | 252 | |
| 03.00 | * | 370 | 321 | * | * | 346 | | * | 346 | |
| | * | | 326 | * | * | | | * | | |
| 05:00 | * | 391 | | * | * | 358 | | * | 358 | |
| 06:00 | * | 272 | 286 | * | * | 279 | | * | 279 | |
| 07:00 | * | 192 | 212 | * | * | 202 | | * | 202 170 | |
| 08:00 09:00 | * | 167 131 | 173 114 | * | * | 170 122 | | * | 170 | |
| 10:00 | * | 66 | 77 | * | * | 72 | | * | 72 | |
| 11:00 | * | 49 | 38 | * | * | 44 | | * | 72 L 44 | |
| Day Total | 0 | 2129 | 3508 | 1595 | 0 | 3616 | | 0 | 3616 | |
| % Avg. | | | | | | 3010 | U U | U | 3010 | |
| WkDay | 0.0% | 58.9% | 97.0% | 44.1% | 0.0% | | | | | |
| Avg. Week | 0.0% | 58.9% | 97.0% | 44.1% | 0.0% | 100.0% | 0.0% | 0.0% | | |
| AM Peak | 0.070 | 30.770 | 08:00 | 10:00 | 0.070 | 08:00 | | 0.070 | 08:00 | |
| Vol. | | | 191 | 184 | | 172 | | | 172 | |
| PM Peak | | 17:00 | 17:00 | 13:00 | | 17:00 | | | 17:00 | |
| Vol. | | 391 | 326 | 258 | | 358 | | | 358 | |
| Grand Tota | | | | | 95 | 0 | 3616 | 0 | | 3616 |

I-64 EIS counts

3656 E. Stratford Road Virginia Beach, VA 23455 (757) 464-5129

I-64 EIS #19509 #9

Laburnum Ave N of I-64 exit 195

| Start | 02-May | y-11 | 7 | Гue | | Ved | 7 | Гһи | Fı | | Sa | at | Su | n | Week A | Average |
|----------------|--------|-------|--------|-------|------------|-------|-------|-------|----|----|----|----|----|----|--------|---------|
| Time | NB | SB | NB | SB | NB | SB | NB | SB | NB | SB | NB | SB | NB | SB | NB | ŠB |
| 12:00 AM | * | * | * | * | 86 | 79 | 120 | 85 | * | * | * | * | * | * | 103 | 82 |
| 01:00 | * | * | * | * | 58 | 48 | 61 | 48 | * | * | * | * | * | * | 60 | 48 |
| 02:00 | * | * | * | * | 39 | 34 | 49 | 39 | * | * | * | * | * | * | 44 | 36 |
| 03:00 | * | * | * | * | 38 | 54 | 44 | 56 | * | * | * | * | * | * | 41 | 55 |
| 04:00 | * | * | * | * | 55 | 84 | 43 | 78 | * | * | * | * | * | * | 49 | 81 |
| 05:00 | * | * | * | * | 92 | 157 | 86 | 172 | * | * | * | * | * | * | 89 | 164 |
| 06:00 | * | * | * | * | 288 | 355 | 329 | 377 | * | * | * | * | * | * | 308 | 366 |
| 07:00 | * | * | * | * | 681 | 604 | 731 | 668 | * | * | * | * | * | * | 706 | 636 |
| 08:00 | * | * | * | * | 627 | 610 | 641 | 616 | * | * | * | * | * | * | 634 | 613 |
| 09:00 | * | * | * | * | 461 | 526 | 551 | 579 | * | * | * | * | * | * | 506 | 552 |
| 10:00 | * | * | * | * | 567 | 542 | 613 | 631 | * | * | * | * | * | * | 590 | 586 |
| 11:00 | * | * | * | * | 582 | 598 | 634 | 688 | * | * | * | * | * | * | 608 | 643 |
| 12:00 PM | * | * | * | * | 688 | 734 | 805 | 829 | * | * | * | * | * | * | 746 | 782 |
| 01:00 | * | * | * | * | 772 | 705 | 857 | 768 | * | * | * | * | * | * | 814 | 736 |
| 02:00 | * | * | 911 | 755 | 825 | 851 | * | * | * | * | * | * | * | * | 868 | 803 |
| 03:00 | * | * | 1005 | 845 | 969 | 900 | * | * | * | * | * | * | * | * | 987 | 872 |
| 04:00 | * | * | 1042 | 947 | 1045 | 939 | * | * | * | * | * | * | * | * | 1044 | 943 |
| 05:00 | * | * | 1167 | 1012 | 1071 | 960 | * | * | * | * | * | * | * | * | 1119 | 986 |
| 06:00 | * | * | 915 | 882 | 832 | 816 | * | * | * | * | * | * | * | * | 874 | 849 |
| 07:00 | * | * | 745 | 679 | 683 | 671 | * | * | * | * | * | * | * | * | 714 | 675 |
| 08:00 | * | * | 677 | 516 | 592 | 513 | * | * | * | * | * | * | * | * | 634 | 514 |
| 09:00 | * | * | 387 | 443 | 412 | 424 | * | * | * | * | * | * | * | * | 400 | 434 |
| 10:00 | * | * | 307 | 287 | 306 | 266 | * | * | * | * | * | * | * | * | 306 | 276 |
| 11:00 | * | * | 223 | 159 | 241 | 171 | * | * | * | * | * | * | * | * | 232 | 165 |
| Lane | 0 | 0 | 7379 | 6525 | 12010 | 11641 | 5564 | 5634 | 0 | 0 | 0 | 0 | 0 | 0 | 12476 | 11897 |
| Day | 0 | | 139 | 04 | 236 | | 111 | 198 | 0 | | 0 | | 0 | | 243 | |
| AM Peak | | | | | 07:00 | 08:00 | 07:00 | 11:00 | | | | | | | 07:00 | 11:00 |
| Vol. | | | | | 681 | 610 | 731 | 688 | | | | | | | 706 | 643 |
| PM Peak | | | 17:00 | 17:00 | 17:00 | 17:00 | 13:00 | 12:00 | | | | | | | 17:00 | 17:00 |
| Vol. | | | 1167 | 1012 | 1071 | 960 | 857 | 829 | | | | | | | 1119 | 986 |
| Comb. Total | | 0 | | 13904 | | 23651 | | 11198 | | 0 | | 0 | | 0 | | 24373 |
| ADT | | ADT 2 | 23,651 | A | ADT 23,651 | I | | | | | | | | | | |

I-64 EIS counts Exit 197 - Airport Drive 3656 E. Stratford Road Virginia Beach, VA 23455 (757) 464-5129

I-64 EIS #19701-02

I-64 WB on ramp fm NB Airport Dr I-64 WB off ramp to NB Airport Dr

| Start | 16-Ma | y-11 | Т | ue | W | ed | Т | hu | F | ri | S | at | Sı | ın | Week A | verage |
|----------------|-------|--------|-------|--------|-----------|--------|-------|--------|-------|--------|-------|--------|-------|--------|--------|--------|
| Time | WB on | WB off | WB on | WB off | WB on | WB off | WB on | WB off | WB on | WB off | WB on | WB off | WB on | WB off | WB on | WB off |
| 12:00 AM | * | * | * | * | 230 | 4 | 250 | 2 | * | * | * | * | * | * | 240 | 3 |
| 01:00 | * | * | * | * | 47 | 3 | 89 | 3 | * | * | * | * | * | * | 68 | 3 |
| 02:00 | * | * | * | * | 16 | 4 | 23 | 1 | * | * | * | * | * | * | 20 | 2 |
| 03:00 | * | * | * | * | 25 | 4 | 24 | 5 | * | * | * | * | * | * | 24 | 4 |
| 04:00 | * | * | * | * | 54 | 7 | 70 | 10 | * | * | * | * | * | * | 62 | 8 |
| 05:00 | * | * | * | * | 172 | 27 | 163 | 24 | * | * | * | * | * | * | 168 | 26 |
| 06:00 | * | * | * | * | 308 | 39 | 292 | 43 | * | * | * | * | * | * | 300 | 41 |
| 07:00 | * | * | * | * | 381 | 65 | 404 | 76 | * | * | * | * | * | * | 392 | 70 |
| 08:00 | * | * | * | * | 323 | 59 | 302 | 58 | * | * | * | * | * | * | 312 | 58 |
| 09:00 | * | * | * | * | 303 | 53 | 319 | 34 | * | * | * | * | * | * | 311 | 44 |
| 10:00 | * | * | * | * | 310 | 33 | 306 | 47 | * | * | * | * | * | * | 308 | 40 |
| 11:00 | * | * | * | * | 325 | 45 | 361 | 41 | * | * | * | * | * | * | 343 | 43 |
| 12:00 PM | * | * | * | * | 372 | 44 | 417 | 42 | * | * | * | * | * | * | 394 | 43 |
| 01:00 | * | * | * | * | 295 | 38 | 358 | 50 | * | * | * | * | * | * | 326 | 44 |
| 02:00 | * | * | 325 | 55 | 388 | 43 | 429 | 57 | * | * | * | * | * | * | 381 | 52 |
| 03:00 | * | * | 369 | 47 | 329 | 54 | 408 | 59 | * | * | * | * | * | * | 369 | 53 |
| 04:00 | * | * | 341 | 53 | 421 | 59 | 468 | 64 | * | * | * | * | * | * | 410 | 59 |
| 05:00 | * | * | 394 | 49 | 405 | 66 | 450 | 56 | * | * | * | * | * | * | 416 | 57 |
| 06:00 | * | * | 283 | 40 | 285 | 44 | 371 | 37 | * | * | * | * | * | * | 313 | 40 |
| 07:00 | * | * | 264 | 30 | 286 | 30 | 353 | 24 | * | * | * | * | * | * | 301 | 28 |
| 08:00 | * | * | 212 | 18 | 204 | 11 | 249 | 20 | * | * | * | * | * | * | 222 | 16 |
| 09:00 | * | * | 175 | 13 | 232 | 19 | 290 | 23 | * | * | * | * | * | * | 232 | 18 |
| 10:00 | * | * | 176 | 14 | 128 | 13 | 173 | 24 | * | * | * | * | * | * | 159 | 17 |
| 11:00 | * | * | 191 | 6 | 285 | 17 | 281 | 13 | * | * | * | * | * | * | 252 | 12 |
| Lane | 0 | 0 | 2730 | 325 | 6124 | 781 | 6850 | 813 | 0 | 0 | 0 | 0 | 0 | 0 | 6323 | 781 |
| Day | 0 | | 305 | 5 | 690 | | 766 | | 0 | | 0 | | 0 | | 710 | |
| AM Peak | | | | | 07:00 | 07:00 | 07:00 | 07:00 | | | | | | | 07:00 | 07:00 |
| Vol. | | | | | 381 | 65 | 404 | 76 | | | | | | | 392 | 70 |
| PM Peak | | | 17:00 | 14:00 | 16:00 | 17:00 | 16:00 | 16:00 | | | | | | | 17:00 | 16:00 |
| Vol. | | | 394 | 55 | 421 | 66 | 468 | 64 | | | | | | | 416 | 59 |
| Comb. Total | | 0 | | 3055 | | 6905 | | 7663 | | 0 | | 0 | | 0 | | 7104 |
| ADT | - | ADT 7 | 7,284 | А | ADT 7,284 | | | | | | | | | | | |

I-64 EIS counts Exit 197 - Airport Drive 3656 E. Stratford Road Virginia Beach, VA 23455 (757) 464-5129

I-64 EIS #19703-04

I-64 WB on ramp fm SB Airport I-64 WB off ramp to SB Airport

| Start | 16-Ma | ay-11 | Т | ue | W | 'ed | Т | hu | F | ri | S | at | S | un | Week A | verage |
|----------------|-------|--------|-------|--------|-----------|--------|-------|--------|-------|--------|-------|--------|-------|--------|--------|--------|
| Time | WB on | WB off | WB on | WB off | WB on | WB off | WB on | WB off | WB on | WB off | WB on | WB off | WB on | WB off | WB on | WB off |
| 12:00 AM | * | * | * | * | 32 | 23 | 34 | 26 | * | * | * | * | * | * | 33 | 24 |
| 01:00 | * | * | * | * | 17 | 14 | 18 | 18 | * | * | * | * | * | * | 18 | 16 |
| 02:00 | * | * | * | * | 41 | 10 | 26 | 11 | * | * | * | * | * | * | 34 | 10 |
| 03:00 | * | * | * | * | 28 | 25 | 28 | 32 | * | * | * | * | * | * | 28 | 28 |
| 04:00 | * | * | * | * | 31 | 70 | 35 | 65 | * | * | * | * | * | * | 33 | 68 |
| 05:00 | * | * | * | * | 111 | 85 | 135 | 116 | * | * | * | * | * | * | 123 | 100 |
| 06:00 | * | * | * | * | 377 | 156 | 420 | 149 | * | * | * | * | * | * | 398 | 152 |
| 07:00 | * | * | * | * | 590 | 183 | 566 | 208 | * | * | * | * | * | * | 578 | 196 |
| 08:00 | * | * | * | * | 391 | 179 | 423 | 193 | * | * | * | * | * | * | 407 | 186 |
| 09:00 | * | * | * | * | 254 | 154 | 221 | 131 | * | * | * | * | * | * | 238 | 142 |
| 10:00 | * | * | * | * | 187 | 131 | 178 | 120 | * | * | * | * | * | * | 182 | 126 |
| 11:00 | * | * | * | * | 164 | 146 | 185 | 148 | * | * | * | * | * | * | 174 | 147 |
| 12:00 PM | * | * | * | * | 179 | 133 | 172 | 139 | * | * | * | * | * | * | 176 | 136 |
| 01:00 | * | * | * | * | 196 | 133 | 220 | 141 | * | * | * | * | * | * | 208 | 137 |
| 02:00 | * | * | 251 | 125 | 239 | 165 | 258 | 143 | * | * | * | * | * | * | 249 | 144 |
| 03:00 | * | * | 229 | 139 | 231 | 151 | 229 | 177 | * | * | * | * | * | * | 230 | 156 |
| 04:00 | * | * | 302 | 129 | 294 | 166 | 302 | 169 | * | * | * | * | * | * | 299 | 155 |
| 05:00 | * | * | 262 | 153 | 274 | 167 | 262 | 162 | * | * | * | * | * | * | 266 | 161 |
| 06:00 | * | * | 245 | 106 | 211 | 116 | 258 | 144 | * | * | * | * | * | * | 238 | 122 |
| 07:00 | * | * | 143 | 67 | 167 | 68 | 165 | 73 | * | * | * | * | * | * | 158 | 69 |
| 08:00 | * | * | 101 | 55 | 126 | 69 | 176 | 58 | * | * | * | * | * | * | 134 | 61 |
| 09:00 | * | * | 95 | 42 | 93 | 49 | 116 | 79 | * | * | * | * | * | * | 101 | 57 |
| 10:00 | * | * | 90 | 63 | 94 | 60 | 109 | 60 | * | * | * | * | * | * | 98 | 61 |
| 11:00 | * | * | 33 | 24 | 52 | 29 | * | * | * | * | * | * | * | * | 42 | 26 |
| Lane | 0 | 0 | 1751 | 903 | 4379 | 2482 | 4536 | 2562 | 0 | 0 | 0 | 0 | 0 | 0 | 4445 | 2480 |
| Day_ | 0 | | 265 | 4 | 686 | | 709 | | 0 | | 0 | | 0 | | 692 | |
| AM Peak | | | | | 07:00 | 07:00 | 07:00 | 07:00 | | | | | | | 07:00 | 07:00 |
| Vol. | | | | | 590 | 183 | 566 | 208 | | | | | | | 578 | 196 |
| PM Peak | | | 16:00 | 17:00 | 16:00 | 17:00 | 16:00 | 15:00 | | | | | | | 16:00 | 17:00 |
| Vol. | | | 302 | 153 | 294 | 167 | 302 | 177 | | | | | | | 299 | 161 |
| Comb. Total | | 0 | | 2654 | | 6861 | | 7098 | | 0 | | 0 | | 0 | | 6925 |
| ADT | | ADT (| 6,994 | А | ADT 6,994 | | | | | | | | | | | |

I-64 EIS counts Exit 197 - Airport Drive 3656 E. Stratford Road Virginia Beach, VA 23455 (757) 464-5129

I-64 EIS #19705-06

I-64 EB on ramp fm SB Airport Dr I-64 EB off ramp to SB Airport Dr

| Start | 16-May | y-11 | Т | ue | | ed | Т | hu . | F | ri | Sa | at | Sı | un | Week A | verage |
|----------------|--------|--------|-------|------------|-----------|--------|-------|--------|-------|--------|-------|--------|-------|--------|--------|--------|
| Time | EB on | EB off | EB on | EB off | EB on | EB off | EB on | EB off | EB on | EB off | EB on | EB off | EB on | EB off | EB on | EB off |
| 12:00 AM | * | * | * | * | 7 | 66 | 5 | 65 | * | * | * | * | * | * | 6 | 66 |
| 01:00 | * | * | * | * | 1 | 23 | 4 | 28 | * | * | * | * | * | * | 2 | 26 |
| 02:00 | * | * | * | * | 4 | 26 | 5 | 28 | * | * | * | * | * | * | 4 | 27 |
| 03:00 | * | * | * | * | 3 | 51 | 1 | 56 | * | * | * | * | * | * | 2 | 54 |
| 04:00 | * | * | * | * | 8 | 173 | 8 | 179 | * | * | * | * | * | * | 8 | 176 |
| 05:00 | * | * | * | * | 12 | 332 | 20 | 326 | * | * | * | * | * | * | 16 | 329 |
| 06:00 | * | * | * | * | 38 | 268 | 40 | 256 | * | * | * | * | * | * | 39 | 262 |
| 07:00 | * | * | * | * | 57 | 313 | 47 | 332 | * | * | * | * | * | * | 52 | 322 |
| 08:00 | * | * | * | * | 27 | 299 | 37 | 329 | * | * | * | * | * | * | 32 | 314 |
| 09:00 | * | * | * | * | 42 | 309 | 20 | 327 | * | * | * | * | * | * | 31 | 318 |
| 10:00 | * | * | * | * | 29 | 274 | 26 | 339 | * | * | * | * | * | * | 28 | 306 |
| 11:00 | * | * | * | * | 35 | 346 | 36 | 399 | * | * | * | * | * | * | 36 | 372 |
| 12:00 PM | * | * | * | * | 32 | 328 | 33 | 385 | * | * | * | * | * | * | 32 | 356 |
| 01:00 | * | * | * | * | 30 | 328 | 31 | 414 | * | * | * | * | * | * | 30 | 371 |
| 02:00 | * | * | 40 | 347 | 31 | 435 | 46 | 491 | * | * | * | * | * | * | 39 | 424 |
| 03:00 | * | * | 41 | 395 | 39 | 421 | 48 | 500 | * | * | * | * | * | * | 43 | 439 |
| 04:00 | * | * | 53 | 506 | 62 | 513 | 66 | 637 | * | * | * | * | * | * | 60 | 552 |
| 05:00 | * | * | 57 | 445 | 54 | 456 | 67 | 534 | * | * | * | * | * | * | 59 | 478 |
| 06:00 | * | * | 40 | 278 | 40 | 293 | 36 | 368 | * | * | * | * | * | * | 39 | 313 |
| 07:00 | * | * | 16 | 237 | 17 | 217 | 28 | 259 | * | * | * | * | * | * | 20 | 238 |
| 08:00 | * | * | 21 | 146 | 15 | 168 | 20 | 195 | * | * | * | * | * | * | 19 | 170 |
| 09:00 | * | * | 13 | 171 | 13 | 144 | 16 | 168 | * | * | * | * | * | * | 14 | 161 |
| 10:00 | * | * | 13 | 128 | 5 | 142 | 6 | 166 | * | * | * | * | * | * | 8 | 145 |
| 11:00 | * | * | 6 | 123 | 5 | 157 | 14 | 170 | * | * | * | * | * | * | 8 | 150 |
| Lane | 0 | 0 | 300 | 2776 | 606 | 6082 | 660 | 6951 | 0 | 0 | 0 | 0 | 0 | 0 | 627 | 6369 |
| Day | 0 | | 307 | ' 6 | 668 | | 761 | | 0 | | 0 | | 0 | | 6996 | |
| AM Peak | | | | | 07:00 | 11:00 | 07:00 | 11:00 | | | | | | | 07:00 | 11:00 |
| Vol. | | | | | 57 | 346 | 47 | 399 | | | | | | | 52 | 372 |
| PM Peak | | | 17:00 | 16:00 | 16:00 | 16:00 | 17:00 | 16:00 | | | | | | | 16:00 | 16:00 |
| Vol. | | | 57 | 506 | 62 | 513 | 67 | 637 | | | | | | | 60 | 552 |
| Comb. Total | | 0 | | 3076 | | 6688 | | 7611 | | 0 | | 0 | | 0 | | 6996 |
| ADT | | ADT 7 | 7,150 | А | ADT 7,150 | | | | | | | | | | | |

I-64 EIS counts Exit 197 - Airport Rd 3656 E. Stratford Road Virginia Beach, VA 23455 (757) 464-5129

I-64 EIS #19707

I-64 EB on ramp fm NB Airport Rd

| Time | |
|--|---|
| 01:00 | |
| 02:00 | |
| 03:00 | |
| 04:00 | |
| 05:00 * * 82 0 * 41 * * 41 06:00 * 143 0 * 72 * * 72 08:00 * 145 0 * 72 * * 72 09:00 * 143 0 * 72 * * 72 10:00 * 143 0 * 72 * * 72 10:00 * 116 0 * 58 * * * 72 11:00 * 177 0 * 88 * * * 88 * * * 88 * * * 85 * | |
| 06:00 * * 143 0 * 72 * * 72 07:00 * 143 0 * 72 * * 72 08:00 * 145 0 * 72 * * 72 09:00 * 143 0 * 72 * * 72 10:00 * 116 0 * 58 * * 58 11:00 * 1177 0 * 88 * * * 88 12:00 PM * 170 0 * 85 * * 85 01:00 * 153 0 * 76 * * 85 02:00 * 162 155 0 * 106 * * * 106 03:00 * 2249 250 0 * 166 * | |
| 07:00 * * 143 0 * 72 * * 72 08:00 * 145 0 * 72 * * 72 09:00 * 143 0 * 72 * * 72 10:00 * * 116 0 * 58 * * 72 11:00 * * 116 0 * 58 * * * 58 11:00 * * 177 0 * 88 * * * 88 12:00 PM * 170 0 * 85 * * * 88 10:00 * 153 0 * 106 * * * 106 03:00 * 162 155 0 * 106 * * * 137 04:00 * | ı |
| 08:00 | |
| 09:00 | |
| 10:00 | |
| 11:00 * <td></td> | |
| 12:00 PM *< | |
| 12:00 PM *< | |
| 01:00 * * * 76 * * 76 02:00 * 162 155 0 * 106 * * 106 03:00 * 203 208 0 * 137 * * * 137 04:00 * 249 250 0 * 166 * * * 166 05:00 * 241 0 0 * 80 * * 80 06:00 * 145 0 0 * 48 * * * 48 07:00 * 120 0 0 * 40 * * * 40 08:00 * 88 0 0 * 29 * * * 29 09:00 * 69 0 0 * 23 * * 22 11:00 * 70 0 0 * 23 * * * 23 | |
| 02:00 * 162 155 0 * 106 * * 106 0 0 106 0 0 106 0 | |
| 03:00 * 203 208 0 * 137 * * * 137 04:00 * 249 250 0 * 166 * * * 166 05:00 * 241 0 0 * 80 * * 80 06:00 * 145 0 0 * 48 * * * 48 07:00 * 120 0 0 * 40 * * * 40 08:00 * 88 0 0 * 29 * * * 29 09:00 * 69 0 0 * 23 * * * 23 10:00 * 67 0 0 * 22 * * * 23 11:00 * 70 0 0 1393 0 0 1393 | |
| 04:00 * 249 250 0 * 166 * * 166 | |
| 05:00 * 241 0 0 * 80 * * 80 - 06:00 * 145 0 0 * 48 * * 48 - 07:00 * 120 0 0 * 40 * * 40 - 08:00 * 88 0 0 * 29 * * * 29 - 09:00 * 69 0 0 * 23 * * * 23 - 10:00 * 70 0 0 * 23 * * * 23 - Day Total 0 1414 2050 0 0 1393 0 0 0 1393 | |
| 06:00 * 145 0 0 * 48 * * 48 07:00 * 120 0 0 * 40 * * 40 08:00 * 88 0 0 * 29 * * * 29 09:00 * 69 0 0 * 23 * * 23 * * 22 * * * 22 * * * 22 * * * 23 * * * 23 * * * 23 * * * 23 * * * 23 * * * 23 * * * * * * * 23 * < | |
| 07:00 * 120 0 0 * 40 * * 40 08:00 * 88 0 0 * 29 * * * 29 09:00 * 69 0 0 * 23 * * 23 * * 22 * * * 22 * * * 22 * * * 23 * * * 23 * * * 23 * * * 23 * * * 23 * | |
| 08:00 * 88 0 0 * 29 * * * 29 09:00 * 69 0 0 * 23 * * 23 10:00 * 67 0 0 * 22 * * * 22 11:00 * 70 0 0 * 23 * * * 23 Day Total 0 1414 2050 0 0 1393 0 0 0 1393 | Ī |
| 09:00 * 69 0 0 * 23 * * * 23 10:00 * 67 0 0 * 22 * * * 22 11:00 * 70 0 0 * 23 * * * 23 Day Total 0 1414 2050 0 0 1393 0 0 1393 | |
| 10:00 * 67 0 0 * 22 * * * 22 11:00 * 70 0 0 * 23 * * * 23 Day Total 0 1414 2050 0 0 1393 0 0 1393 | |
| 11:00 * 70 0 0 * 23 * * 23 Day Total 0 1414 2050 0 0 1393 0 0 1393 | |
| Day Total 0 1414 2050 0 0 1393 0 0 1393 | |
| | |
| % Avg. 0.00/ 101 E0/ 147 20/ 0.00/ 0.00/ | |
| % Avg. 0.0% 101.5% 147.2% 0.0% 0.0% WkDay | |
| % Avg. Week 0.0% 101.5% 147.2% 0.0% 0.0% 100.0% 0.0% 0.0% 0.0% | |
| AM Peak 11:00 11:00 11:00 | |
| Vol. 177 88 | |
| PM Peak 16:00 16:00 16:00 16:00 | |
| Vol. 249 250 166 166 | |
| Grand Total 0 1414 2050 0 0 1393 0 0 1393 | |
| | |
| ADT ADT 4,780 AADT 4,780 | |

I-64 EIS counts Exit 197 - Airport Rd 3656 E. Stratford Road Virginia Beach, VA 23455 (757) 464-5129

I-64 EIS #19708

I-64 EB off ramp to NB Airport Rd

| Start Time | Mon 16-May-11 | Tue 17-Mav-11 | Wed 18-May-11 | Thu 19-May-11 | Fri 20-May-11 | Average Day | Sat 21-Mav-11 | Sun 22-May-11 | Week Average | |
|-----------------|------------------|------------------|------------------|------------------|------------------|----------------|------------------|------------------|-----------------|------|
| 12:00 AM | * | * | 57 | 53 | 20-iviay-11 | | | * | 55 L | |
| 01:00 | * | * | 22 | 39 | * | 30 | * | * | 30 | |
| 02:00 | * | * | 25 | 19 | * | 22 | * | * | 22 | |
| 03:00 | * | * | 22 | 24 | * | 23 | * | * | 23 | |
| 04:00 | * | * | 15 | 22 | * | 18 | * | * | 18 | |
| 05:00 | * | * | 83 | 77 | * | 80 | * | * | 80 | |
| 06:00 | * | * | 123 | 142 | * | 132 | * | * | 132 | |
| 07:00 | * | * | 232 | 225 | * | 228 | * | * | 228 | |
| 08:00 | * | * | 166 | 180 | * | 173 | * | * | 173 | |
| 09:00 | * | * | 133 | 127 | * | 130 | * | * | 130 | |
| 10:00 | * | * | 173 | 147 | * | 160 | * | * | 160 | _ |
| 11:00 | * | * | 180 | 172 | * | 176 | * | * | 176 | |
| 12:00 PM | * | * | 180 | 189 | * | 184 | * | * | 184 | |
| 01:00 | * | * | 192 | 194 | * | 193 | * | * | 193 | |
| 02:00 | * | 216 | 234 | 207 | * | 219 | * | * | 219 | |
| 03:00 | * | 313 | 352 | 345 | * | 337 | * | * | 337 | |
| 04:00 | * | 412 | 413 | 402 | * | 409 | * | * | 409 | |
| 05:00 | * | 447 | 473 | 478 | * | 466 | * | * | 466 | |
| 06:00 | * | 284 | 273 | 318 | * | 292 | * | * | 292 | |
| 07:00 | * | 193 | 199 | 177 | * | 190 | * | * | 190 | |
| 08:00 | * | 194 | 190 | 201 | * | 195 | * | * | 195 | |
| 09:00 | * | 151 | 153 | 173 | * | 159 | * | * | 159 | |
| 10:00 | * | 104 | 130 | 131 | * | 122 | * | * | 122 | |
| 11:00 | * | 73 | 104 | 95 | * | 91 | * | * | 91 | |
| Day Total | 0 | 2387 | 4124 | 4137 | 0 | 4084 | 0 | 0 | 4084 | |
| % Avg. WkDay | 0.0% | 58.4% | 101.0% | 101.3% | 0.0% | | | | | |
| Avg. Week | 0.0% | 58.4% | 101.0% | 101.3% | 0.0% | 100.0% | 0.0% | 0.0% | | |
| AM Peak | | | 07:00 | 07:00 | | 07:00 | | | 07:00 | |
| Vol. | | | 232 | 225 | | 228 | | | 228 | |
| PM Peak | | 17:00 | 17:00 | 17:00 | | 17:00 | | | 17:00 | |
| Vol. | | 447 | 473 | 478 | | 466 | | | 466 | |
| Grand Tota | al | 0 2 | 387 4 | 124 4 | 137 | 0 4 | 084 | 0 | 0 | 4084 |

I-64 EIS counts Exit 197 - Airport Rd 3656 E. Stratford Road Virginia Beach, VA 23455 (757) 464-5129

I-64 EIS #19709

Airport Rd N of EB on/off ramp fm/to NB/SB Airport

| Start | 30-May | <i>/</i> -11 | 7 | Гие | | Ved | | Thu | Fı | ri | Sa | at | Sui | n | Week A | Average |
|----------------|--------|--------------|--------|-------|------------|-------|-------|-------|----|----|----|----|-----|----|--------|---------|
| Time | NB | SB | NB | SB | NB | SB | NB | SB | NB | SB | NB | SB | NB | SB | NB | SB |
| 12:00 AM | * | * | * | * | 195 | 109 | 339 | 113 | * | * | * | * | * | * | 267 | 111 |
| 01:00 | * | * | * | * | 213 | 57 | 122 | 73 | * | * | * | * | * | * | 168 | 65 |
| 02:00 | * | * | * | * | 56 | 54 | 69 | 63 | * | * | * | * | * | * | 62 | 58 |
| 03:00 | * | * | * | * | 73 | 94 | 71 | 89 | * | * | * | * | * | * | 72 | 92 |
| 04:00 | * | * | * | * | 113 | 195 | 136 | 192 | * | * | * | * | * | * | 124 | 194 |
| 05:00 | * | * | * | * | 301 | 373 | 335 | 387 | * | * | * | * | * | * | 318 | 380 |
| 06:00 | * | * | * | * | 524 | 650 | 558 | 637 | * | * | * | * | * | * | 541 | 644 |
| 07:00 | * | * | * | * | 770 | 849 | 796 | 864 | * | * | * | * | * | * | 783 | 856 |
| 08:00 | * | * | * | * | 701 | 858 | 677 | 826 | * | * | * | * | * | * | 689 | 842 |
| 09:00 | * | * | * | * | 677 | 646 | 648 | 614 | * | * | * | * | * | * | 662 | 630 |
| 10:00 | * | * | * | * | 650 | 609 | 643 | 559 | * | * | * | * | * | * | 646 | 584 |
| 11:00 | * | * | * | * | 691 | 629 | 680 | 665 | * | * | * | * | * | * | 686 | 647 |
| 12:00 PM | * | * | 854 | 624 | 846 | 633 | 776 | 628 | * | * | * | * | * | * | 825 | 628 |
| 01:00 | * | * | 769 | 659 | 708 | 664 | 742 | 668 | * | * | * | * | * | * | 740 | 664 |
| 02:00 | * | * | 825 | 720 | 816 | 734 | 940 | 726 | * | * | * | * | * | * | 860 | 727 |
| 03:00 | * | * | 1013 | 707 | 952 | 710 | 930 | 748 | * | * | * | * | * | * | 965 | 722 |
| 04:00 | * | * | 1097 | 808 | 1020 | 753 | 1044 | 873 | * | * | * | * | * | * | 1054 | 811 |
| 05:00 | * | * | 1145 | 717 | 1009 | 815 | 1072 | 891 | * | * | * | * | * | * | 1075 | 808 |
| 06:00 | * | * | 700 | 565 | 738 | 654 | 921 | 703 | * | * | * | * | * | * | 786 | 641 |
| 07:00 | * | * | 700 | 460 | 675 | 455 | 788 | 535 | * | * | * | * | * | * | 721 | 483 |
| 08:00 | * | * | 498 | 317 | 509 | 414 | 566 | 374 | * | * | * | * | * | * | 524 | 368 |
| 09:00 | * | * | 440 | 284 | 486 | 319 | 553 | 320 | * | * | * | * | * | * | 493 | 308 |
| 10:00 | * | * | 316 | 229 | 334 | 261 | 478 | 261 | * | * | * | * | * | * | 376 | 250 |
| 11:00 | * | * | 371 | 178 | 331 | 168 | 434 | 222 | * | * | * | * | * | * | 379 | 189 |
| Lane | 0 | 0 | 8728 | 6268 | 13388 | 11703 | 14318 | 12031 | 0 | 0 | 0 | 0 | 0 | 0 | 13816 | 11702 |
| Day | 0 | | 149 | 996 | | 091 | | 349 | 0 | | 0 | | 0 | | 255 | |
| AM Peak | | | | | 07:00 | 08:00 | 07:00 | 07:00 | | | | | | | 07:00 | 07:00 |
| Vol. | | | | | 770 | 858 | 796 | 864 | | | | | | | 783 | 856 |
| PM Peak | | | 17:00 | 16:00 | 16:00 | 17:00 | 17:00 | 17:00 | | | | | | | 17:00 | 16:00 |
| Vol. | | | 1145 | 808 | 1020 | 815 | 1072 | 891 | | | | | | | 1075 | 811 |
| Comb. Total | | 0 | | 14996 | | 25091 | | 26349 | | 0 | | 0 | | 0 | | 25518 |
| ADT | | ADT 2 | 25,720 | A | ADT 25,720 |) | | | | | | | | | | |

I-64 EIS counts Exit 200 - I-295 3656 E. Stratford Road Virginia Beach, VA 23455 (757) 464-5129

I-64 EIS #20001

I-64 WB on ramp fm NB I-295

| Start | Mon | Tue | Wed | Thu | Fri | Average | Sat 21-Mav-11 | Sun 22-Mav-11 | Week |
|------------------|----------------|----------------|------------------------|------------------------|----------------|---------|------------------|------------------|------------|
| Time 12:00 AM | 16-May-11 * | 17-May-11 * | <u>18-May-11</u> 29 | <u>19-May-11</u> 28 | 20-May-11 * | | 21-May-11 * | | Average 28 |
| 01:00 | * | * | 16 | 35 | * | 26 | * | * | 26 |
| 02:00 | * | * | 28 | 16 | * | 22 | * | * | 22 |
| 03:00 | * | * | 13 | 22 | * | 18 | * | * | 18 |
| 04:00 | * | * | 53 | 43 | * | 48 | * | * | 48 |
| 05:00 | * | * | 93 | 111 | * | 102 | * | * | 102 |
| 06:00 | * | * | 291 | 275 | * | 283 | * | * | 283 |
| 07:00 | * | * | 429 | 449 | * | 439 | * | * | 439 |
| 08:00 | * | * | 294 | 304 | * | 299 | * | * | 299 |
| 09:00 | * | * | 173 | 194 | * | 184 | * | * | 184 |
| 10:00 | * | * | 138 | 171 | * | 154 | * | * | 154 |
| 11:00 | * | * | 149 | 169 | * | 159 | * | * | 159 |
| 12:00 PM | * | * | 152 | * | * | 152 | * | * | 152 |
| 01:00 | * | 151 | 142 | * | * | 146 | * | * | 146 |
| 02:00 | * | 137 | 185 | * | * | 161 | * | * | 161 |
| 03:00 | * | 220 | 211 | * | * | 216 | * | * | 216 |
| 04:00 | * | 192 | 195 | * | * | 194 | * | * | 194 |
| 05:00 | * | 219 | 214 | * | * | 216 | * | * | 216 |
| 06:00 | * | 145 | 141 | * | * | 143 | * | * | 143 |
| 07:00 | * | 84 | 85 | * | * | 84 | * | * | 84 |
| 08:00 | * | 55 | 72 | * | * | 64 | * | * | 64 |
| 09:00 | * | 61 | 51 | * | * | 56 | * | * | 56 |
| 10:00 | * | 43 | 40 | * | * | 42 | * | * | 42 🔲 |
| 11:00 | * | 76 | 78 | * | * | 77 | * | * | 77 |
| Day Total | 0 | 1383 | 3272 | 1817 | 0 | 3313 | 0 | 0 | 3313 |
| % Avg. WkDay | 0.0% | 41.7% | 98.8% | 54.8% | 0.0% | | | | |
| Avg. Week | 0.0% | 41.7% | 98.8% | 54.8% | 0.0% | 100.0% | 0.0% | 0.0% | |
| AM Peak | | | 07:00 | 07:00 | | 07:00 | | | 07:00 |
| Vol. | | | 429 | 449 | | 439 | | | 439 |
| PM Peak | | 15:00 | 17:00 | | | 15:00 | | | 15:00 |
| Vol. | | 220 | 214 | | | 216 | | | 216 |
| Grand Tota | al | 0 13 | 32 32 | 72 18 | 17 | 0 3313 | | 0 | 0 3313 |

I-64 EIS counts Exit 200 - I-295 3656 E. Stratford Road Virginia Beach, VA 23455 (757) 464-5129

I-64 EIS #20002

I-64 WB off ramp to SB I-295

| Start | Mon 40 May 44 | Tue | Wed | Thu | Fri | Averag | e Sat | Sun | 4 | Week |
|------------------|------------------|----------------|-----------------|------------------------|----------------|---------------|----------------|---------------|---|------------|
| Time 12:00 AM | 16-May-11 * | 17-May-11 * | 18-May-11 33 | <u>19-May-11</u> 31 | 20-May-11 * | <u>Day</u> 32 | 21-May-11 * | 22-May-1 * | 1 | Average 32 |
| 01:00 | * | * | 19 | 13 | * | 16 | * | * | | 16 |
| 02:00 | * | * | 22 | 34 | * | 28 | * | * | | 28 |
| 03:00 | * | * | 32 | * | * | 32 | * | * | | 32 |
| 04:00 | * | * | 49 | * | * | 49 | * | * | | 49 |
| 05:00 | * | * | 118 | * | * | 118 | * | * | | 118 |
| 06:00 | * | * | 333 | * | * | 333 | * | * | | 333 |
| 07:00 | * | * | 427 | * | * | 427 | * | * | | 427 |
| 08:00 | * | * | 309 | * | * | 309 | * | * | | 309 |
| 09:00 | * | * | 268 | * | * | 268 | * | * | | 268 |
| 10:00 | * | * | 230 | * | * | 230 | * | * | | 230 |
| 11:00 | * | * | 256 | * | * | 256 | * | * | | 256 |
| 12:00 PM | * | * | 235 | * | * | 235 | * | * | | 235 |
| 01:00 | * | 227 | 335 | * | * | 281 | * | * | | 281 |
| 02:00 | * | 275 | 253 | * | * | 264 | * | * | | 264 |
| 03:00 | * | 257 | 316 | * | * | 286 | * | * | | 286 |
| 04:00 | * | 331 | 378 | * | * | 354 | * | * | | 354 |
| 05:00 | * | 362 | 409 | * | * | 386 | * | * | | 386 |
| 06:00 | * | 255 | 233 | * | * | 244 | * | * | | 244 |
| 07:00 | * | 139 | 150 | * | * | 144 | * | * | | 144 |
| 08:00 | * | 130 | 150 | * | * | 140 | * | * | | 140 |
| 09:00 | * | 96 | 122 | * | * | 109 | * | * | | 109 |
| 10:00 | * | 89 | 86 | * | * | 88 | * | * | | 88 |
| 11:00 | * | 66 | 62 | * | * | 64 | * | * | | 64 |
| Day Total | 0 | 2227 | 4825 | 78 | 0 | 4693 | 0 | 0 | | 4693 |
| % Avg. WkDay | 0.0% | 47.5% | 102.8% | 1.7% | 0.0% | | | | | |
| Avg. Week | 0.0% | 47.5% | 102.8% | 1.7% | 0.0% | 100.0% | 0.0% | 0.0% | | |
| AM Peak | | | 07:00 | 02:00 | | 07:00 | | | | 07:00 |
| Vol. | | | 427 | 34 | | 427 | | | | 427 |
| PM Peak | | 17:00 | 17:00 | | | 17:00 | | | | 17:00 |
| Vol. | | 362 | 409 | | | 386 | | | | 386 |
| Grand Total | | 0 22 | 227 48 | 325 | 78 | 0 | 4693 | 0 | 0 | 4693 |
| ADT | | ADT | 4,825 | | AADT 4,825 | | | | | |

I-64 EIS counts Exit 200 - I-295 3656 E. Stratford Road Virginia Beach, VA 23455 (757) 464-5129

I-64 EIS #20003-06

I-64 EB on ramp fm SB I-295 I-64 EB off ramp to SB I-295

| Start | 16-Ma | y-11 | Т | ue | W | 'ed | Т | hu | F | ri | Sa | at | Sı | ın | Week Av | verage |
|----------------|-------|--------|-------|--------|-----------|--------|-------|--------|-------|--------|-------|--------|-------|--------|---------|--------|
| Time | EB on | EB off | EB on | EB off | EB on | EB off | EB on | EB off | EB on | EB off | EB on | EB off | EB on | EB off | EB on | EB off |
| 12:00 AM | * | * | * | * | 4 | 39 | 1 | 50 | * | * | * | * | * | * | 2 | 44 |
| 01:00 | * | * | * | * | 0 | 17 | 1 | 23 | * | * | * | * | * | * | 0 | 20 |
| 02:00 | * | * | * | * | 3 | 14 | 0 | 22 | * | * | * | * | * | * | 2 | 18 |
| 03:00 | * | * | * | * | 1 | 18 | 2 | 17 | * | * | * | * | * | * | 2 | 18 |
| 04:00 | * | * | * | * | 2 | 38 | 2 | 35 | * | * | * | * | * | * | 2 | 36 |
| 05:00 | * | * | * | * | 11 | 77 | 2 | 72 | * | * | * | * | * | * | 6 | 74 |
| 06:00 | * | * | * | * | 5 | 151 | 9 | 179 | * | * | * | * | * | * | 7 | 165 |
| 07:00 | * | * | * | * | 4 | 199 | 6 | 236 | * | * | * | * | * | * | 5 | 218 |
| 08:00 | * | * | * | * | 8 | 149 | 8 | 163 | * | * | * | * | * | * | 8 | 156 |
| 09:00 | * | * | * | * | 7 | 138 | 15 | 174 | * | * | * | * | * | * | 11 | 156 |
| 10:00 | * | * | * | * | 9 | 112 | 12 | 128 | * | * | * | * | * | * | 10 | 120 |
| 11:00 | * | * | * | * | 9 | 166 | 3 | 166 | * | * | * | * | * | * | 6 | 166 |
| 12:00 PM | * | * | * | * | 12 | 159 | 12 | 162 | * | * | * | * | * | * | 12 | 160 |
| 01:00 | * | * | 9 | 156 | 15 | 147 | 12 | 159 | * | * | * | * | * | * | 12 | 154 |
| 02:00 | * | * | 8 | 235 | 15 | 267 | 11 | 233 | * | * | * | * | * | * | 11 | 245 |
| 03:00 | * | * | 14 | 231 | 19 | 268 | 18 | 261 | * | * | * | * | * | * | 17 | 253 |
| 04:00 | * | * | 17 | 348 | 10 | 357 | 12 | 334 | * | * | * | * | * | * | 13 | 346 |
| 05:00 | * | * | 8 | 371 | 3 | 401 | 8 | 387 | * | * | * | * | * | * | 6 | 386 |
| 06:00 | * | * | 15 | 187 | 6 | 206 | 15 | 209 | * | * | * | * | * | * | 12 | 201 |
| 07:00 | * | * | 4 | 132 | 2 | 120 | 7 | 133 | * | * | * | * | * | * | 4 | 128 |
| 08:00 | * | * | 1 | 115 | 4 | 115 | 8 | 93 | * | * | * | * | * | * | 4 | 108 |
| 09:00 | * | * | 5 | 114 | 5 | 109 | * | * | * | * | * | * | * | * | 5 | 112 |
| 10:00 | * | * | 7 | 95 | 1 | 86 | * | * | * | * | * | * | * | * | 4 | 90 |
| 11:00 | * | * | 5 | 61 | 1 | 57 | * | * | * | * | * | * | * | * | 3 | 59 |
| Lane | 0 | 0 | 93 | 2045 | 156 | 3410 | 164 | 3236 | 0 | 0 | 0 | 0 | 0 | 0 | 164 | 3433 |
| Day | 0 | | 213 | 38 | 356 | | 340 | | 0 | | 0 | | 0 | | 3597 | |
| AM Peak | | | | | 05:00 | 07:00 | 09:00 | 07:00 | | | | | | | 09:00 | 07:00 |
| Vol. | | | 40.00 | 47.00 | 11 | 199 | 15 | 236 | | | | | | | 11 | 218 |
| PM Peak | | | 16:00 | 17:00 | 15:00 | 17:00 | 15:00 | 17:00 | | | | | | | 15:00 | 17:00 |
| Vol. | | | 17 | 371 | 19 | 401 | 18 | 387 | | | | | | | 17 | 386 |
| Comb. Total | | 0 | | 2138 | | 3566 | | 3400 | | 0 | | 0 | | 0 | | 3597 |
| ADT | | ADT : | 3,566 | А | ADT 3,566 | | | | | | | | | | | |

I-64 EIS counts Exit 200 - I-295

ADT

ADT 744

AADT 744

3656 E. Stratford Road Virginia Beach, VA 23455 (757) 464-5129

I-64 EIS #20004

I-64 EB off ramp to NB I-295

| Start Time | Mon 16-May-11 | Tue 17-May-11 | Wed 18-May-11 | Thu 19-May-11 | Fri 20-May-11 | Average Day | e Sat 21-May-11 | Sun 22-May-11 | Week Average | |
|-----------------|------------------|------------------|------------------|------------------|------------------|----------------|--------------------|------------------|-----------------|-----|
| 12:00 AM | * | * | 6 | 11 | * | 8 | * | * | 8 | |
| 01:00 | * | * | 7 | 7 | * | 7 | * | * | 7 | |
| 02:00 | * | * | 7 | 7 | * | 7 | * | * | 7 | |
| 03:00 | * | * | 16 | 6 | * | 11 | * | * | 11 | |
| 04:00 | * | * | 8 | 7 | * | 8 | * | * | 8 | |
| 05:00 | * | * | 10 | 10 | * | 10 | * | * | 10 | |
| 06:00 | * | * | 22 | 26 | * | 24 | * | * | 24 | |
| 07:00 | * | * | 29 | 37 | * | 33 | * | * | 33 | |
| 08:00 | * | * | 39 | 34 | * | 36 | * | * | 36 | |
| 09:00 | * | * | 47 | 27 | * | 37 | * | * | 37 | |
| 10:00 | * | * | 49 | 35 | * | 42 | * | * | 42 | |
| 11:00 | * | * | 36 | 45 | * | 40 | * | * | 40 | |
| 12:00 PM | * | * | 51 | 43 | * | 47 | * | * | 47 | |
| 01:00 | * | 34 | 32 | 45 | * | 37 | * | * | 37 | |
| 02:00 | * | 45 | 49 | 43 | * | 46 | * | * | 46 | |
| 03:00 | * | 53 | 62 | 67 | * | 61 | * | * | 61 | |
| 04:00 | * | 69 | 59 | 55 | * | 61 | * | * | 61 | |
| 05:00 | * | 72 | 71 | 94 | * | 79 | * | * | 79 | |
| 06:00 | * | 41 | 39 | 44 | * | 41 | * | * | 41 | |
| 07:00 | * | 25 | 33 | 23 | * | 27 | * | * | 27 | |
| 08:00 | * | 14 | 14 | 30 | * | 19 | * | * | 19 | |
| 09:00 | * | 11 | 18 | 22 | * | 17 | * | * | 17 | |
| 10:00 | * | 10 | 14 | 12 | * | 12 | * | * | 12 | |
| 11:00 | * | 15 | 15 | 24 | * | 18 | * | * | 18 | |
| Day Total | 0 | 389 | 733 | 754 | 0 | 728 | 0 | 0 | 728 | |
| % Avg. WkDay | 0.0% | 53.4% | 100.7% | 103.6% | 0.0% | | | | | |
| Avg. Week | 0.0% | 53.4% | 100.7% | 103.6% | 0.0% | 100.0% | 0.0% | 0.0% | | |
| AM Peak | | | 10:00 | 11:00 | <u> </u> | 10:00 | | | 10:00 | |
| Vol. | | | 49 | 45 | | 42 | | | 42 | |
| PM Peak | | 17:00 | 17:00 | 17:00 | | 17:00 | | | 17:00 | |
| Vol. | | 72 | 71 | 94 | | 79 | | | 79 | |
| Grand Tota | al | 0 3 | 389 | 733 | 754 | 0 | 728 | 0 | 0 | 728 |

I-64 EIS counts Exit 200 - I-295

ADT

ADT 441

AADT 441

3656 E. Stratford Road Virginia Beach, VA 23455 (757) 464-5129

I-64 EIS #20005

I-64 WB on ramp fm SB I-295

| Start Time | Mon 16-May-11 | Tue | Wed | Thu | Fri 20-May-11 | Average Day | Sat | Sun 1 22-May-1 | Week 1 Average | |
|-----------------|------------------|----------|-------|--------|------------------|----------------|----------|-------------------|-------------------|--|
| 12:00 AM | * | * | 3 | 5 | * | | <u> </u> | 1 22-Way-1 | 4 | |
| 01:00 | * | * | 3 | 2 | * | 2 | * | * | 2 | |
| 02:00 | * | * | 8 | 2 | * | 5 | * | * | 5 | |
| 03:00 | * | * | 0 | 1 | * | 0 | * | * | 0 | |
| 04:00 | * | * | 0 | 4 | * | 2 | * | * | 2 🔲 | |
| 05:00 | * | * | 7 | 12 | * | 10 | * | * | 10 | |
| 06:00 | * | * | 33 | 24 | * | 28 | * | * | 28 | |
| 07:00 | * | * | 30 | 29 | * | 30 | * | * | 30 | |
| 08:00 | * | * | 42 | 39 | * | 40 | * | * | 40 | |
| 09:00 | * | * | 33 | 23 | * | 28 | * | * | 28 | |
| 10:00 | * | * | 20 | 17 | * | 18 | * | * | 18 | |
| 11:00 | * | * | 18 | 29 | * | 24 | * | * | 24 | |
| 12:00 PM | * | * | 15 | 29 | * | 22 | * | * | 22 | |
| 01:00 | * | 37 | 22 | 17 | * | 25 | * | * | 25 | |
| 02:00 | * | 36 | 20 | 33 | * | 30 | * | * | 30 | |
| 03:00 | * | 27 | 17 | 35 | * | 26 | * | * | 26 | |
| 04:00 | * | 20 | 28 | 34 | * | 27 | * | * | 27 | |
| 05:00 | * | 24 | 36 | 46 | * | 35 | * | * | 35 | |
| 06:00 | * | 21 | 18 | 15 | * | 18 | * | * | 18 | |
| 07:00 | * | 7 | 13 | 15 | * | 12 | * | * | 12 | |
| 08:00 | * | 10 | 11 | 13 | * | 11 | * | * | 11 | |
| 09:00 | * | 12 | 13 | 25 | * | 17 | * | * | 17 | |
| 10:00 | * | 13 | 14 | 16 | * | 14 | * | * | 14 | |
| 11:00 | * | 8 | 7 | 6 | * | 7 | * | * | 7 | |
| Day Total | 0 | 215 | 411 | 471 | 0 | 435 | 0 | 0 | 435 | |
| % Avg. WkDay | 0.0% | 49.4% | 94.5% | 108.3% | 0.0% | | | | | |
| Avg. Week | 0.0% | 49.4% | 94.5% | 108.3% | 0.0% | 100.0% | 0.0% | 0.0% | | |
| AM Peak | <u> </u> | <u> </u> | 08:00 | 08:00 | <u> </u> | 08:00 | | <u> </u> | 08:00 | |
| Vol. | | | 42 | 39 | | 40 | | | 40 | |
| PM Peak | | 13:00 | 17:00 | 17:00 | | 17:00 | | | 17:00 | |
| Vol. | | 37 | 36 | 46 | | 35 | | | 35 | |
| Grand Tota | l | 0 2 | 215 | 411 | 471 | 0 | 435 | 0 | 0 435 | |

I-64 EIS counts Exit 234 - Lightfoot 3656 E. Stratford Road Virginia Beach, VA 23455 (757) 464-5129

I-64 EIS #23401-02

I-64 WB on ramp fm SB Rt 199 I-64 WB off ramp to SB Rt 199

| Start | 09-Ma | ny-11 | Т | ue | W | 'ed | Т | hu | F | ri | Sa | at | Su | ın | Week Av | verage |
|---------------|-------|--------|-------|--------|-----------|--------|-------|--------|-------|--------|-------|--------|-------|--------|---------|--------|
| Time | WB on | WB off | WB on | WB off | WB on | WB off | WB on | WB off | WB on | WB off | WB on | WB off | WB on | WB off | WB on | WB off |
| 12:00 AM | * | * | 1 | 15 | 1 | 17 | 2 | 14 | * | * | * | * | * | * | 1 | 15 |
| 01:00 | * | * | 0 | 14 | 0 | 12 | 0 | 11 | * | * | * | * | * | * | 0 | 12 |
| 02:00 | * | * | 3 | 8 | 5 | 6 | 3 | 16 | * | * | * | * | * | * | 4 | 10 |
| 03:00 | * | * | 1 | 14 | 4 | 9 | 3 | 8 | * | * | * | * | * | * | 3 | 10 |
| 04:00 | * | * | 3 | 18 | 4 | 20 | 1 | 21 | * | * | * | * | * | * | 3 | 20 |
| 05:00 | * | * | 5 | 48 | 5 | 48 | 5 | 48 | * | * | * | * | * | * | 5 | 48 |
| 06:00 | * | * | 27 | 239 | 25 | 232 | 25 | 213 | * | * | * | * | * | * | 26 | 228 |
| 07:00 | * | * | 27 | 318 | 37 | 313 | 33 | 322 | * | * | * | * | * | * | 32 | 318 |
| 08:00 | * | * | 28 | 326 | 30 | 358 | 34 | 350 | * | * | * | * | * | * | 31 | 345 |
| 09:00 | * | * | 17 | 267 | 23 | 281 | 29 | 289 | * | * | * | * | * | * | 23 | 279 |
| 10:00 | * | * | 12 | 308 | 19 | 258 | 14 | 308 | * | * | * | * | * | * | 15 | 291 |
| 11:00 | * | * | 21 | 330 | 14 | 281 | 11 | 305 | * | * | * | * | * | * | 15 | 305 |
| 12:00 PM | * | * | 17 | 313 | 24 | 301 | 26 | 320 | * | * | * | * | * | * | 22 | 311 |
| 01:00 | * | * | 21 | 257 | 15 | 308 | 25 | 314 | * | * | * | * | * | * | 20 | 293 |
| 02:00 | * | * | 21 | 305 | 30 | 352 | * | * | * | * | * | * | * | * | 26 | 328 |
| 03:00 | * | * | 37 | 406 | 23 | 368 | * | * | * | * | * | * | * | * | 30 | 387 |
| 04:00 | * | * | 17 | 474 | 18 | 435 | * | * | * | * | * | * | * | * | 18 | 454 |
| 05:00 | * | * | 23 | 472 | 24 | 476 | * | * | * | * | * | * | * | * | 24 | 474 |
| 06:00 | * | * | 19 | 299 | 16 | 297 | * | * | * | * | * | * | * | * | 18 | 298 |
| 07:00 | * | * | 15 | 158 | 19 | 193 | * | * | * | * | * | * | * | * | 17 | 176 |
| 08:00 | * | * | 12 | 111 | 5 | 128 | * | * | * | * | * | * | * | * | 8 | 120 |
| 09:00 | * | * | 7 | 96 | 13 | 100 | * | * | * | * | * | * | * | * | 10 | 98 |
| 10:00 | * | * | 5 | 76 | 5 | 53 | * | * | * | * | * | * | * | * | 5 | 64 |
| 11:00 | * | * | 11 | 41 | 7 | 43 | * | * | * | * | * | * | * | * | 4 | 42 |
| Lane | 0 | 0 | 340 | 4913 | 366 | 4889 | 211 | 2539 | 0 | 0 | 0 | 0 | 0 | 0 | 360 | 4926 |
| Day | 0 | | 525 | | 525 | | 275 | | 0 | | 0 | | 0 | | 5286 | |
| AM Peak | | | 08:00 | 11:00 | 07:00 | 08:00 | 08:00 | 08:00 | | | | | | | 07:00 | 08:00 |
| Vol. | | | 28 | 330 | 37 | 358 | 34 | 350 | | | | | | | 32 | 345 |
| PM Peak | | | 15:00 | 16:00 | 14:00 | 17:00 | 12:00 | 12:00 | | | | | | | 15:00 | 17:00 |
| Vol. | | | 37 | 474 | 30 | 476 | 26 | 320 | | | | | | | 30 | 474 |
| Comb. Tota | | 0 | | 5253 | | 5255 | | 2750 | | 0 | | 0 | | 0 | | 5286 |
| ADT | Г | ADT : | 5,254 | А | ADT 5,254 | | | | | | | | | | | |

I-64 EIS counts Exit 234 - Lightfoot 3656 E. Stratford Road Virginia Beach, VA 23455 (757) 464-5129

I-64 EIS #23403-04

I-64 WB on ramp fm NB Rt 199 I-64 WB off ramp to NB Rt 199

| Start | 09-Ma | ny-11 | Т | ue | V | 'ed | Т | hu | F | ri | Sa | at | Su | ın | Week A | verage |
|---------------|-------|--------|-------|--------|-----------|--------|-------|--------|-------|--------|-------|--------|-------|--------|--------|--------|
| Time | WB on | WB off | WB on | WB off | WB on | WB off | WB on | WB off | WB on | WB off | WB on | WB off | WB on | WB off | WB on | WB off |
| 12:00 AM | * | * | 36 | 2 | 25 | 6 | 35 | 7 | * | * | * | * | * | * | 32 | 5 |
| 01:00 | * | * | 26 | 3 | 22 | 1 | 17 | 3 | * | * | * | * | * | * | 22 | 2 |
| 02:00 | * | * | 16 | 0 | 14 | 2 | 11 | 3 | * | * | * | * | * | * | 14 | 2 |
| 03:00 | * | * | 20 | 0 | 23 | 1 | 24 | 1 | * | * | * | * | * | * | 22 | 1 |
| 04:00 | * | * | 40 | 1 | 36 | 0 | 46 | 0 | * | * | * | * | * | * | 41 | 0 |
| 05:00 | * | * | 105 | 6 | 89 | 6 | 99 | 5 | * | * | * | * | * | * | 98 | 6 |
| 06:00 | * | * | 264 | 11 | 274 | 14 | 268 | 14 | * | * | * | * | * | * | 269 | 13 |
| 07:00 | * | * | 411 | 33 | 415 | 27 | 408 | 26 | * | * | * | * | * | * | 411 | 29 |
| 08:00 | * | * | 366 | 23 | 381 | 32 | 407 | 37 | * | * | * | * | * | * | 385 | 31 |
| 09:00 | * | * | 339 | 28 | 306 | 30 | 387 | 24 | * | * | * | * | * | * | 344 | 27 |
| 10:00 | * | * | 301 | 29 | 305 | 42 | 341 | 24 | * | * | * | * | * | * | 316 | 32 |
| 11:00 | * | * | 315 | 29 | 359 | 39 | 383 | 28 | * | * | * | * | * | * | 352 | 32 |
| 12:00 PM | * | * | 384 | 35 | 377 | 52 | 430 | 40 | * | * | * | * | * | * | 397 | 42 |
| 01:00 | * | * | 380 | 27 | 407 | 40 | 472 | 34 | * | * | * | * | * | * | 420 | 34 |
| 02:00 | * | * | 445 | 36 | 388 | 49 | * | * | * | * | * | * | * | * | 416 | 42 |
| 03:00 | * | * | 518 | 67 | 560 | 70 | * | * | * | * | * | * | * | * | 539 | 68 |
| 04:00 | * | * | 566 | 84 | 568 | 99 | * | * | * | * | * | * | * | * | 567 | 92 |
| 05:00 | * | * | 569 | 94 | 612 | 69 | * | * | * | * | * | * | * | * | 590 | 82 |
| 06:00 | * | * | 400 | 59 | 401 | 71 | * | * | * | * | * | * | * | * | 400 | 65 |
| 07:00 | * | * | 295 | 44 | 311 | 47 | * | * | * | * | * | * | * | * | 303 | 46 |
| 08:00 | * | * | 282 | 28 | 327 | 37 | * | * | * | * | * | * | * | * | 304 | 32 |
| 09:00 | * | * | 231 | 27 | 205 | 24 | * | * | * | * | * | * | * | * | 218 | 26 |
| 10:00 | * | * | 90 | 16 | 119 | 11 | * | * | * | * | * | * | * | * | 104 | 14 |
| 11:00 | * | * | 71 | 13 | 72 | 16 | * | * | * | * | * | * | * | * | 72 | 14 |
| Lane | 0 | 0 | 6470 | 695 | 6596 | 785 | 3328 | 246 | 0 | 0 | 0 | 0 | 0 | 0 | 6636 | 737 |
| Day | 0 | | 716 | | 738 | | 357 | | 0 | | 0 | | 0 | | 7373 | |
| AM Peak | | | 07:00 | 07:00 | 07:00 | 10:00 | 07:00 | 08:00 | | | | | | | 07:00 | 10:00 |
| Vol. | | | 411 | 33 | 415 | 42 | 408 | 37 | | | | | | , | 411 | 32 |
| PM Peak | | | 17:00 | 17:00 | 17:00 | 16:00 | 13:00 | 12:00 | | | | | | | 17:00 | 16:00 |
| Vol. | | | 569 | 94 | 612 | 99 | 472 | 40 | | | | | | | 590 | 92 |
| Comb. Tota | | 0 | | 7165 | | 7381 | | 3574 | | 0 | | 0 | | 0 | | 7373 |
| ADT | - | ADT 7 | 7,273 | А | ADT 7,273 | | | | | | | | | | | |

I-64 EIS counts Exit 234 - Lightfoot 3656 E. Stratford Road Virginia Beach, VA 23455 (757) 464-5129

I-64 EIS #23406

I-64 EB on ramp

| Start Time | Mon 09-May-11 | Tue 10-May-11 | Wed 11-May-11 | Thu 12-May-11 | Fri 13-May-11 | Average Day | Sat 14-Mav-11 | Sun 15-Mav-11 | Week Average | |
|-----------------|------------------|------------------|------------------|------------------|------------------|----------------|------------------|------------------|-----------------|---|
| 12:00 AM | * | 21 | 33 | 27 | * | | 14-iviay-11 | * | 27 🗌 | _ |
| 01:00 | * | 18 | 16 | 18 | * | 17 | * | * | 17 | |
| 02:00 | * | 15 | 5 | 13 | * | 11 | * | * | 11 🛭 | |
| 03:00 | * | 15 | 15 | 12 | * | 14 | * | * | 14 🛮 | |
| 04:00 | * | 44 | 39 | 41 | * | 41 | * | * | 41 | |
| 05:00 | * | 145 | 141 | 138 | * | 141 | * | * | 141 | |
| 06:00 | * | 378 | 347 | 342 | * | 356 | * | * | 356 | |
| 07:00 | * | 503 | 517 | 469 | * | 496 | * | * | 496 | |
| 08:00 | * | 386 | 369 | 338 | * | 364 | * | * | 364 | |
| 09:00 | * | 271 | 294 | 335 | * | 300 | * | * | 300 | |
| 10:00 | * | 300 | 295 | 286 | * | 294 | * | * | 294 | |
| 11:00 | * | 295 | 297 | 308 | * | 300 | * | * | 300 | |
| 12:00 PM | * | 286 | 319 | 298 | * | 301 | * | * | 301 | |
| 01:00 | * | 316 | 302 | 316 | * | 311 | * | * | 311 | |
| 02:00 | * | 369 | 348 | * | * | 358 | * | * | 358 | |
| 03:00 | * | 362 | 397 | * | * | 380 | * | * | 380 | |
| 04:00 | * | 390 | 376 | * | * | 383 | * | * | 383 | |
| 05:00 | * | 375 | 425 | * | * | 400 | * | * | 400 | |
| 06:00 | * | 293 | 290 | * | * | 292 | * | * | 292 | _ |
| 07:00 | * | 220 | 183 | * | * | 202 | * | * | 202 | |
| 08:00 | * | 165 | 167 | * | * | 166 | * | * | 166 | |
| 09:00 | * | 124 | 131 | * | * | 128 | * | * | 128 | |
| 10:00 | * | 79 | 75 | * | * | 77 | * | * | 77 🔙 | |
| 11:00 | * | 49 | 41 | * | * | 45 | * | * | 45 🔲 | |
| Day Total | 0 | 5419 | 5422 | 2941 | 0 | 5404 | 0 | 0 | 5404 | |
| % Avg. WkDay | 0.0% | 100.3% | 100.3% | 54.4% | 0.0% | | | | | |
| Avg. Week | 0.0% | 100.3% | 100.3% | 54.4% | 0.0% | 100.0% | 0.0% | 0.0% | | |
| AM Peak | | 07:00 | 07:00 | 07:00 | | 07:00 | | | 07:00 | |
| Vol. | | 503 | 517 | 469 | | 496 | | | 496 | |
| PM Peak | | 16:00 | 17:00 | 13:00 | | 17:00 | | | 17:00 | |
| Vol. | | 390 | 425 | 316 | | 400 | | | 400 | |
| Grand Tota | al | 0 5 | 419 54 | 22 29 | 41 | 0 5404 | | 0 | 0 5404 | |

I-64 EIS counts Exit 234 - Lightfoot 3656 E. Stratford Road Virginia Beach, VA 23455 (757) 464-5129

I-64 EIS #23407

I-64 EB off ramp

| Start Time | Mon 09-May-11 | Tue 10-May-11 | Wed 11-May-11 | Thu 12-May-11 | Fri 13-May-11 | Average Day | Sat 14-Mav-11 | Sun 15-Mav-11 | Week Average |
|-----------------|------------------|------------------|------------------|------------------|------------------|----------------|------------------|------------------|-----------------|
| 12:00 AM | * | 37 | 39 | 32 | * | 36 | 14-May-11 | * | 36 🔲 |
| 01:00 | * | 18 | 36 | 24 | * | 26 | * | * | 26 |
| 02:00 | * | 17 | 12 | 22 | * | 17 | * | * | 17 🛚 |
| 03:00 | * | 20 | 12 | 20 | * | 17 | * | * | 17] |
| 04:00 | * | 37 | 29 | 35 | * | 34 | * | * | 34 |
| 05:00 | * | 64 | 81 | 82 | * | 76 | * | * | 76 |
| 06:00 | * | 353 | 324 | 313 | * | 330 | * | * | 330 |
| 07:00 | * | 571 | 555 | 538 | * | 555 | * | * | 555 |
| 08:00 | * | 600 | 592 | 611 | * | 601 | * | * | 601 |
| 09:00 | * | 439 | 472 | 527 | * | 479 | * | * | 479 |
| 10:00 | * | 422 | 398 | 449 | * | 423 | * | * | 423 |
| 11:00 | * | 402 | 441 | 490 | * | 444 | * | * | 444 |
| 12:00 PM | * | 395 | 429 | 454 | * | 426 | * | * | 426 |
| 01:00 | * | 413 | 384 | 433 | * | 410 | * | * | 410 |
| 02:00 | * | 396 | 426 | * | * | 411 | * | * | 411 |
| 03:00 | * | 502 | 476 | * | * | 489 | * | * | 489 |
| 04:00 | * | 506 | 584 | * | * | 545 | * | * | 545 |
| 05:00 | * | 626 | 610 | * | * | 618 | * | * | 618 |
| 06:00 | * | 465 | 504 | * | * | 484 | * | * | 484 |
| 07:00 | * | 257 | 281 | * | * | 269 | * | * | 269 |
| 08:00 | * | 224 | 199 | * | * | 212 | * | * | 212 |
| 09:00 | * | 144 | 174 | * | * | 159 | * | * | 159 |
| 10:00 | * | 137 | 114 | * | * | 126 | * | * | 126 |
| 11:00 | * | 66 | 71 | * | * | 68 | * | * | 68 |
| Day Total | 0 | 7111 | 7243 | 4030 | 0 | 7255 | 0 | 0 | 7255 |
| % Avg. WkDay | 0.0% | 98.0% | 99.8% | 55.5% | 0.0% | | | | |
| vg. Week | 0.0% | 98.0% | 99.8% | 55.5% | 0.0% | 100.0% | 0.0% | 0.0% | |
| AM Peak | | 08:00 | 08:00 | 08:00 | | 08:00 | | <u> </u> | 08:00 |
| Vol. | | 600 | 592 | 611 | | 601 | | | 601 |
| PM Peak | | 17:00 | 17:00 | 12:00 | | 17:00 | | | 17:00 |
| Vol. | | 626 | 610 | 454 | | 618 | | | 618 |
| Grand Tota | al | 0 71 | 111 72 | 43 40 | 30 | 0 7255 | | 0 | 0 7255 |

I-64 EIS counts Exit 234 - Lightfoot 3656 E. Stratford Road Virginia Beach, VA 23455 (757) 464-5129

I-64 EIS #23409

Rt 199 NB, S of EB on/off ramps Rt 199 SB, S of EB on/off ramps

| Start | 09-May | <i>r</i> -11 | 7 | Гие | V | Ved | 7 | Γhu | F | ri | Sa | at | Sui | า | Week A | verage |
|----------------|--------|--------------|-------|-------|------------|-------|-------|-------|----|----|----|----|-----|----|--------|--------|
| Time | NB | SB | NB | SB | NB | SB | NB | SB | NB | SB | NB | SB | NB | SB | NB | SB |
| 12:00 AM | * | * | 46 | 19 | 33 | 26 | 42 | 21 | * | * | * | * | * | * | 40 | 22 |
| 01:00 | * | * | 35 | 17 | 38 | 18 | 22 | 14 | * | * | * | * | * | * | 32 | 16 |
| 02:00 | * | * | 19 | 11 | 17 | 11 | 13 | 17 | * | * | * | * | * | * | 16 | 13 |
| 03:00 | * | * | 19 | 14 | 27 | 11 | 25 | 11 | * | * | * | * | * | * | 24 | 12 |
| 04:00 | * | * | 43 | 21 | 37 | 28 | 47 | 27 | * | * | * | * | * | * | 42 | 25 |
| 05:00 | * | * | 112 | 75 | 99 | 73 | 105 | 71 | * | * | * | * | * | * | 105 | 73 |
| 06:00 | * | * | 281 | 336 | 291 | 318 | 290 | 296 | * | * | * | * | * | * | 287 | 317 |
| 07:00 | * | * | 485 | 490 | 464 | 481 | 462 | 462 | * | * | * | * | * | * | 470 | 478 |
| 08:00 | * | * | 424 | 514 | 472 | 564 | 475 | 502 | * | * | * | * | * | * | 457 | 527 |
| 09:00 | * | * | 439 | 413 | 420 | 431 | 466 | 455 | * | * | * | * | * | * | 442 | 433 |
| 10:00 | * | * | 399 | 411 | 410 | 399 | 449 | 435 | * | * | * | * | * | * | 419 | 415 |
| 11:00 | * | * | 436 | 444 | 471 | 393 | 496 | 429 | * | * | * | * | * | * | 468 | 422 |
| 12:00 PM | * | * | 509 | 440 | 507 | 449 | 566 | 472 | * | * | * | * | * | * | 527 | 454 |
| 01:00 | * | * | 509 | 393 | 520 | 448 | 623 | 421 | * | * | * | * | * | * | 551 | 421 |
| 02:00 | * | * | 581 | 434 | 532 | 466 | * | * | * | * | * | * | * | * | 556 | 450 |
| 03:00 | * | * | 707 | 523 | 727 | 480 | * | * | * | * | * | * | * | * | 717 | 502 |
| 04:00 | * | * | 762 | 579 | 750 | 551 | * | * | * | * | * | * | * | * | 756 | 565 |
| 05:00 | * | * | 772 | 594 | 856 | 605 | * | * | * | * | * | * | * | * | 814 | 600 |
| 06:00 | * | * | 601 | 403 | 582 | 439 | * | * | * | * | * | * | * | * | 592 | 421 |
| 07:00 | * | * | 447 | 246 | 464 | 283 | * | * | * | * | * | * | * | * | 456 | 264 |
| 08:00 | * | * | 390 | 214 | 461 | 193 | * | * | * | * | * | * | * | * | 426 | 204 |
| 09:00 | * | * | 334 | 141 | 294 | 149 | * | * | * | * | * | * | * | * | 314 | 145 |
| 10:00 | * | * | 125 | 102 | 159 | 74 | * | * | * | * | * | * | * | * | 142 | 88 |
| 11:00 | * | * | 92 | 54 | 94 | 60 | * | * | * | * | * | * | * | * | 93 | 57 |
| Lane | 0 | 0 | 8567 | 6888 | 8725 | 6950 | 4081 | 3633 | 0 | 0 | 0 | 0 | 0 | 0 | 8746 | 6924 |
| Day | 0 | | 154 | | 156 | | 77 | | 0 | | 0 | | 0 | | 1567 | |
| AM Peak | | | 07:00 | 08:00 | 08:00 | 08:00 | 11:00 | 08:00 | | | | | | | 07:00 | 08:00 |
| Vol. | | | 485 | 514 | 472 | 564 | 496 | 502 | | | | | | | 470 | 527 |
| PM Peak | | | 17:00 | 17:00 | 17:00 | 17:00 | 13:00 | 12:00 | | | | | | | 17:00 | 17:00 |
| Vol. | | | 772 | 594 | 856 | 605 | 623 | 472 | | | | | | | 814 | 600 |
| Comb. Total | | 0 | | 15455 | | 15675 | | 7714 | | 0 | | 0 | | 0 | | 15670 |
| ADT | | ADT 1 | 5,565 | AA | ADT 15,565 | | | | | | | | | | | |

I-64 EIS counts Exit 238 - Colonial Williamsburg 3656 E. Stratford Road Virginia Beach, VA 23455 (757) 464-5129

I-64 EIS #23801

I-64 WB off ramp to Rt 143 NB I-64 WB off ramp to Rt 143 SB

| Start | 09-Ma | ıy-11 | T | ue | W | /ed | Т | hu | F | ri | S | at | Sui | า | Week A | verage |
|--------------|-----------|----------|----------|----------|-----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|--------|--------|
| Time | WB off NB | WB off S | WB off N | WB off S | WB off N | WB off S | WB off N | WB off S | WB off N | WB off S | WB off N | WB off S | WB off N | WB off S | | |
| 12:00 AM | * | * | 1 | 29 | 0 | 35 | 1 | 25 | * | * | * | * | * | * | 1 | 30 |
| 01:00 | * | * | 2 | 9 | 1 | 21 | 1 | 20 | * | * | * | * | * | * | 1 | 17 |
| 02:00 | * | * | 0 | 10 | 0 | 12 | 0 | 15 | * | * | * | * | * | * | 0 | 12 |
| 03:00 | * | * | 1 | 11 | 1 | 10 | 1 | 11 | * | * | * | * | * | * | 1 | 11 |
| 04:00 | * | * | 3 | 16 | 2 | 16 | 2 | 12 | * | * | * | * | * | * | 2 | 15 |
| 05:00 | * | * | 27 | 42 | 23 | 43 | 24 | 42 | * | * | * | * | * | * | 25 | 42 |
| 06:00 | * | * | 25 | 220 | 28 | 244 | 33 | 217 | * | * | * | * | * | * | 29 | 227 |
| 07:00 | * | * | 30 | 332 | 30 | 358 | 28 | 327 | * | * | * | * | * | * | 29 | 339 |
| 08:00 | * | * | 8 | 320 | 7 | 337 | 14 | 334 | * | * | * | * | * | * | 10 | 330 |
| 09:00 | * | * | 11 | 221 | 12 | 229 | 7 | 271 | * | * | * | * | * | * | 10 | 240 |
| 10:00 | * | * | 8 | 258 | 16 | 271 | 9 | 203 | * | * | * | * | * | * | 11 | 244 |
| 11:00 | * | * | 9 | 226 | 15 | 273 | 12 | 292 | * | * | * | * | * | * | 12 | 264 |
| 12:00 PM | * | * | 4 | 233 | 13 | 265 | 8 | 269 | * | * | * | * | * | * | 8 | 256 |
| 01:00 | * | * | 7 | 235 | 7 | 248 | * | * | * | * | * | * | * | * | 7 | 242 |
| 02:00 | * | * | 9 | 276 | 10 | 270 | * | * | * | * | * | * | * | * | 10 | 273 |
| 03:00 | * | * | 6 | 322 | 6 | 326 | * | * | * | * | * | * | * | * | 6 | 324 |
| 04:00 | * | * | 5 | 390 | 6 | 391 | * | * | * | * | * | * | * | * | 6 | 390 |
| 05:00 | * | * | 4 | 378 | 3 | 401 | * | * | * | * | * | * | * | * | 4 | 390 |
| 06:00 | * | * | 2 | 268 | 3 | 276 | * | * | * | * | * | * | * | * | 2 | 272 |
| 07:00 | * | * | 2 | 162 | 3 | 213 | * | * | * | * | * | * | * | * | 2 | 188 |
| 08:00 | * | * | 2 | 142 | 2 | 127 | * | * | * | * | * | * | * | * | 2 | 134 |
| 09:00 | * | * | 7 | 114 | 6 | 124 | * | * | * | * | * | * | * | * | 6 | 119 |
| 10:00 | * | * | 2 | 112 | 0 | 106 | * | * | * | * | * | * | * | * | 1 | 109 |
| 11:00 | * | * | 0 | 35 | 2 | 64 | * | * | * | * | * | * | * | * | 11 | 50 |
| Lane | 0 | 0 | 175 | 4361 | 196 | 4660 | 140 | 2038 | 0 | 0 | 0 | 0 | 0 | 0 | 186 | 4518 |
| Day | 0 | | 453 | | 485 | | 217 | | 0 | | 0 | | 0 | | 4704 | |
| AM Peak | | | 07:00 | 07:00 | 07:00 | 07:00 | 06:00 | 08:00 | | | | | | | 06:00 | 07:00 |
| Vol. | | | 30 | 332 | 30 | 358 | 33 | 334 | | | | | | | 29 | 339 |
| PM Peak | | | 14:00 | 16:00 | 12:00 | 17:00 | 12:00 | 12:00 | | | | | | | 14:00 | 16:00 |
| Vol. | | | 9 | 390 | 13 | 401 | 8 | 269 | | | | | | | 10 | 390 |
| Comb Tota | | 0 | | 4536 | | 4856 | | 2178 | | 0 | | 0 | | 0 | | 4704 |
| AD' | т | ADT 4 | 1,696 | А | ADT 4,696 | | | | | | | | | | | |

I-64 EIS counts Exit 238 - Colonial Williamsburg 3656 E. Stratford Road Virginia Beach, VA 23455 (757) 464-5129

I-64 EIS #23802

I-64 WB on ramp fm NB Rt 143

| Start Time | Mon 09-May-11 | Tue 10-May-11 | Wed 11-May-11 | Thu 12-May-11 | Fri 13-May-11 | Average Day | Sat 14-Mav-11 | Sun 15-Mav-11 | Week Average |
|-----------------|------------------|------------------|------------------|------------------|------------------|----------------|------------------|------------------|-----------------|
| 12:00 AM | * | 14 | 19 | 16 | * | 16 | * | * | 16 |
| 01:00 | * | 7 | 10 | 9 | * | 9 | * | * | 9] |
| 02:00 | * | 9 | 6 | 7 | * | 7 | * | * | 7 🛘 |
| 03:00 | * | 7 | 7 | 8 | * | 7 | * | * | 7] |
| 04:00 | * | 11 | 17 | 19 | * | 16 | * | * | 16 🔲 |
| 05:00 | * | 51 | 44 | 47 | * | 47 | * | * | 47 |
| 06:00 | * | 115 | 109 | 120 | * | 115 | * | * | 115 |
| 07:00 | * | 159 | 174 | 176 | * | 170 | * | * | 170 |
| 08:00 | * | 149 | 170 | 195 | * | 171 | * | * | 171 |
| 09:00 | * | 139 | 161 | 159 | * | 153 | * | * | 153 |
| 10:00 | * | 119 | 140 | 168 | * | 142 | * | * | 142 |
| 11:00 | * | 146 | 118 | 176 | * | 147 | * | * | 147 |
| 12:00 PM | * | 141 | 148 | 150 | * | 146 | * | * | 146 |
| 01:00 | * | 135 | 184 | 200 | * | 173 | * | * | 173 |
| 02:00 | * | 202 | 191 | 234 | * | 209 | * | * | 209 |
| 03:00 | * | 249 | 245 | 232 | * | 242 | * | * | 242 |
| 04:00 | * | 267 | 254 | 297 | * | 273 | * | * | 273 |
| 05:00 | * | 286 | 318 | 303 | * | 302 | * | * | 302 |
| 06:00 | * | 172 | 184 | * | * | 178 | * | * | 178 |
| 07:00 | * | 101 | 131 | * | * | 116 | * | * | 116 |
| 08:00 | * | 100 | 118 | * | * | 109 | * | * | 109 |
| 09:00 | * | 77 | 99 | * | * | 88 | * | * | 88 |
| 10:00 | * | 52 | 61 | * | * | 56 | * | * | 56 |
| 11:00 | * | 29 | 26 | * | * | 28 | * | * | 28 |
| Day Total | 0 | 2737 | 2934 | 2516 | 0 | 2920 | 0 | 0 | 2920 |
| % Avg. WkDay | 0.0% | 93.7% | 100.5% | 86.2% | 0.0% | | | | |
| Avg. Week | 0.0% | 93.7% | 100.5% | 86.2% | 0.0% | 100.0% | 0.0% | 0.0% | |
| AM Peak | | 07:00 | 07:00 | 08:00 | | 08:00 | | | 08:00 |
| Vol. | | 159 | 174 | 195 | | 171 | | | 171 |
| PM Peak | | 17:00 | 17:00 | 17:00 | | 17:00 | | | 17:00 |
| Vol. | | 286 | 318 | 303 | | 302 | | | 302 |
| Grand Tota | al | 0 27 | 737 29 | 34 25 | 516 | 0 2920 | | 0 | 0 2920 |

I-64 EIS counts Exit 238 - Colonial Williamsburg

ADT

ADT 279

AADT 279

3656 E. Stratford Road Virginia Beach, VA 23455 (757) 464-5129

I-64 EIS #23803

I-64 WB on ramp fm SB Rt 143

| Start Time | Mon 09-May-11 | Tue 10-May-11 | Wed 11-May-11 | Thu 12-May-11 | Fri 13-May-11 | Average Day | e Sat 14-May-11 | Sun 15-May-11 | Week Average |
|-----------------|------------------|------------------|------------------|------------------|------------------|----------------|--------------------|------------------|-----------------|
| 12:00 AM | * | 0 | 0 | 1 | * | 0 | * | * | 0 |
| 01:00 | * | 0 | 0 | 0 | * | 0 | * | * | 0 |
| 02:00 | * | 0 | 1 | 0 | * | 0 | * | * | 0 |
| 03:00 | * | 0 | 0 | 1 | * | 0 | * | * | 0 |
| 04:00 | * | 1 | 0 | 1 | * | 1 | * | * | 1 🛭 |
| 05:00 | * | 2 | 3 | 1 | * | 2 | * | * | 2 |
| 06:00 | * | 4 | 2 | 5 | * | 4 | * | * | 4 |
| 07:00 | * | 9 | 4 | 6 | * | 6 | * | * | 6 |
| 08:00 | * | 7 | 9 | 8 | * | 8 | * | * | 8 |
| 09:00 | * | 8 | 5 | 7 | * | 7 | * | * | 7 |
| 10:00 | * | 9 | 10 | 22 | * | 14 | * | * | 14 |
| 11:00 | * | 15 | 10 | 10 | * | 12 | * | * | 12 |
| 12:00 PM | * | 27 | 9 | 17 | * | 18 | * | * | 18 |
| 01:00 | * | 14 | 10 | 17 | * | 14 | * | * | 14 |
| 02:00 | * | 23 | 31 | * | * | 27 | * | * | 27 |
| 03:00 | * | 64 | 45 | * | * | 54 | * | * | 54 |
| 04:00 | * | 68 | 59 | * | * | 64 | * | * | 64 |
| 05:00 | * | 26 | 22 | * | * | 24 | * | * | 24 |
| 06:00 | * | 12 | 11 | * | * | 12 | * | * | 12 |
| 07:00 | * | 6 | 11 | * | * | 8 | * | * | 8 |
| 08:00 | * | 4 | 1 | * | * | 2 | * | * | 2 🛮 |
| 09:00 | * | 0 | 6 | * | * | 3 | * | * | 3 |
| 10:00 | * | 2 | 7 | * | * | 4 | * | * | 4 |
| 11:00 | * | 1 | 0 | * | * | 0 | * | * | 0 |
| Day Total | 0 | 302 | 256 | 96 | 0 | 284 | 0 | 0 | 284 |
| % Avg. WkDay | 0.0% | 106.3% | 90.1% | 33.8% | 0.0% | | | | |
| Avg. Week | 0.0% | 106.3% | 90.1% | 33.8% | 0.0% | 100.0% | 0.0% | 0.0% | |
| AM Peak | | 11:00 | 10:00 | 10:00 | | 10:00 | | - | 10:00 |
| Vol. | | 15 | 10 | 22 | | 14 | | | 14 |
| PM Peak | | 16:00 | 16:00 | 12:00 | | 16:00 | | | 16:00 |
| Vol. | | 68 | 59 | 17 | | 64 | | | 64 |
| Grand Total | | | | 256 | 96 | 0 | 284 | 0 | 0 284 |

I-64 EIS counts Exit 238 - Colonial Williamsburg 3656 E. Stratford Road Virginia Beach, VA 23455 (757) 464-5129

I-64 EIS #23805

I-64 EB off ramp to Rt 143

| Start | Mon | Tue | Wed | Thu | Fri | Average | e Sat | Sun | Week | |
|-----------------|-----------|-----------|--------|-------|-----------|---------|-----------|-----------|---------|---|
| Time | 09-May-11 | 10-May-11 | | | 13-May-11 | Day | 14-May-11 | 15-May-11 | Average | |
| 12:00 AM | * | 27 | 19 | 23 | * | 23 | * | * | 23 🔲 | |
| 01:00 | * | 6 | 10 | 13 | * | 10 | * | * | 10 | |
| 02:00 | * | 7 | 7 | 14 | * | 9 | * | * | 9 🛚 | |
| 03:00 | * | 8 | 8 | 11 | * | 9 | * | * | 9] | |
| 04:00 | * | 17 | 18 | 14 | * | 16 | * | * | 16 🛮 | |
| 05:00 | * | 89 | 90 | 81 | * | 87 | * | * | 87 | |
| 06:00 | * | 196 | 190 | 206 | * | 197 | * | * | 197 | |
| 07:00 | * | 313 | 341 | 362 | * | 339 | * | * | 339 | |
| 08:00 | * | 305 | 288 | 329 | * | 307 | * | * | 307 | |
| 09:00 | * | 194 | 212 | 213 | * | 206 | * | * | 206 | |
| 10:00 | * | 184 | 182 | 190 | * | 185 | * | * | 185 | |
| 11:00 | * | 184 | 190 | 209 | * | 194 | * | * | 194 | |
| 12:00 PM | * | 192 | 188 | 221 | * | 200 | * | * | 200 | |
| 01:00 | * | 165 | 150 | * | * | 158 | * | * | 158 | |
| 02:00 | * | 163 | 193 | * | * | 178 | * | * | 178 | |
| 03:00 | * | 216 | 241 | * | * | 228 | * | * | 228 | |
| 04:00 | * | 215 | 228 | * | * | 222 | * | * | 222 | |
| 05:00 | * | 229 | 264 | * | * | 246 | * | * | 246 | |
| 06:00 | * | 178 | 201 | * | * | 190 | * | * | 190 | |
| 07:00 | * | 116 | 162 | * | * | 139 | * | * | 139 | |
| 08:00 | * | 98 | 127 | * | * | 112 | * | * | 112 | |
| 09:00 | * | 92 | 90 | * | * | 91 | * | * | 91 | |
| 10:00 | * | 68 | 56 | * | * | 62 | * | * | 62 | |
| 11:00 | * | 35 | 42 | * | * | 38 | * | * | 38 | |
| Day Total | 0 | 3297 | 3497 | 1886 | 0 | 3446 | 0 | 0 | 3446 | · |
| % Avg. WkDay | 0.0% | 95.7% | 101.5% | 54.7% | 0.0% | | | | | |
| 6 Avg. Week | 0.0% | 95.7% | 101.5% | 54.7% | 0.0% | 100.0% | 0.0% | 0.0% | | |
| AM Peak | | 07:00 | 07:00 | 07:00 | | 07:00 | | | 07:00 | |
| Vol. | | 313 | 341 | 362 | | 339 | | | 339 | |
| PM Peak | | 17:00 | 17:00 | 12:00 | | 17:00 | | | 17:00 | |
| Vol. | | 229 | 264 | 221 | | 246 | | | 246 | |
| Grand Tota | al | 0 3 | | | 386 | | 3446 | 0 | 0 3446 | |

I-64 EIS counts Exit 238 - Colonial Williamsburg 3656 E. Stratford Road Virginia Beach, VA 23455 (757) 464-5129

I-64 EIS #23807

I-64 EB on ramp

| Start | Mon | Tue | Wed | Thu | Fri | Average | Sat | Sun | Week |
|-----------------|-----------|-----------|--------|-------|-----------|---------|-----------|-----------|---------|
| Time | 09-May-11 | 10-May-11 | | | 13-May-11 | Day | 14-May-11 | 15-May-11 | Average |
| 12:00 AM | * | 42 | 38 | 52 | * | 44 | * | * | 44 📃 |
| 01:00 | * | 11 | 24 | 25 | * | 20 | * | * | 20 📃 |
| 02:00 | * | 12 | 8 | 17 | * | 12 | * | * | 12 🗓 |
| 03:00 | * | 13 | 14 | 22 | * | 16 | * | * | 16 📃 |
| 04:00 | * | 22 | 34 | 34 | * | 30 | * | * | 30 🔲 |
| 05:00 | * | 92 | 77 | 98 | * | 89 | * | * | 89 |
| 06:00 | * | 215 | 242 | 214 | * | 224 | * | * | 224 |
| 07:00 | * | 357 | 348 | 346 | * | 350 | * | * | 350 |
| 08:00 | * | 246 | 302 | 220 | * | 256 | * | * | 256 |
| 09:00 | * | 202 | 210 | 208 | * | 207 | * | * | 207 |
| 10:00 | * | 208 | 245 | 214 | * | 222 | * | * | 222 |
| 11:00 | * | 231 | 221 | 264 | * | 239 | * | * | 239 |
| 12:00 PM | * | 222 | 281 | 274 | * | 259 | * | * | 259 |
| 01:00 | * | 307 | 291 | 333 | * | 310 | * | * | 310 |
| 02:00 | * | 384 | 378 | * | * | 381 | * | * | 381 |
| 03:00 | * | 408 | 452 | * | * | 430 | * | * | 430 |
| 04:00 | * | 389 | 393 | * | * | 391 | * | * | 391 |
| 05:00 | * | 394 | 382 | * | * | 388 | * | * | 388 |
| 06:00 | * | 322 | 267 | * | * | 294 | * | * | 294 |
| 07:00 | * | 195 | 210 | * | * | 202 | * | * | 202 |
| 08:00 | * | 180 | 174 | * | * | 177 | * | * | 177 |
| 09:00 | * | 205 | 215 | * | * | 210 | * | * | 210 |
| 10:00 | * | 110 | 125 | * | * | 118 | * | * | 118 |
| 11:00 | * | 115 | 94 | * | * | 104 | * | * | 104 |
| Day Total | 0 | 4882 | 5025 | 2321 | 0 | 4973 | 0 | 0 | 4973 |
| % Avg. WkDay | 0.0% | 98.2% | 101.0% | 46.7% | 0.0% | | - | | |
| Avg. Week | 0.0% | 98.2% | 101.0% | 46.7% | 0.0% | 100.0% | 0.0% | 0.0% | |
| AM Peak | | 07:00 | 07:00 | 07:00 | | 07:00 | | | 07:00 |
| Vol. | | 357 | 348 | 346 | | 350 | | | 350 |
| PM Peak | | 15:00 | 15:00 | 13:00 | | 15:00 | , | | 15:00 |
| Vol. | | 408 | 452 | 333 | | 430 | | | 430 |
| Grand Tota | al | | | | 321 | 0 4973 | | 0 | 0 4973 |

I-64 EIS counts Exit 238 - Colonial Williamsburg 3656 E. Stratford Road Virginia Beach, VA 23455 (757) 464-5129

I-64 EIS #23809

Rt 143 NB at EB off ramp b/t NB and SB Rt 143 SB at EB off ramp b/t NB and SB

| Start | 09-May | y-11 | 7 | Tue | V | Ved | - | Thu | F | ri | Sa | at | Su | n | Week A | verage |
|----------------|--------|------|-------|-------|-----------|-------|-------|-------|-----|----|----|----|----|----|--------|--------|
| Time | NB . | SB | NB | SB | NB | SB | NB | SB | NB | SB | NB | SB | NB | SB | NB | ŠB |
| 12:00 AM | * | * | 17 | 33 | 20 | 38 | 18 | 27 | * | * | * | * | * | * | 18 | 33 |
| 01:00 | * | * | 9 | 12 | 11 | 23 | 10 | 22 | * | * | * | * | * | * | 10 | 19 |
| 02:00 | * | * | 9 | 11 | 7 | 12 | 8 | 16 | * | * | * | * | * | * | 8 | 13 |
| 03:00 | * | * | 9 | 13 | 9 | 10 | 10 | 11 | * | * | * | * | * | * | 9 | 11 |
| 04:00 | * | * | 16 | 17 | 20 | 17 | 20 | 12 | * | * | * | * | * | * | 19 | 15 |
| 05:00 | * | * | 85 | 41 | 77 | 39 | 83 | 38 | * | * | * | * | * | * | 82 | 39 |
| 06:00 | * | * | 181 | 233 | 158 | 266 | 186 | 229 | * | * | * | * | * | * | 175 | 243 |
| 07:00 | * | * | 254 | 374 | 271 | 402 | 261 | 374 | * | * | * | * | * | * | 262 | 383 |
| 08:00 | * | * | 176 | 387 | 200 | 380 | 237 | 359 | * | * | * | * | * | * | 204 | 375 |
| 09:00 | * | * | 162 | 254 | 176 | 268 | 172 | 306 | * | * | * | * | * | * | 170 | 276 |
| 10:00 | * | * | 135 | 298 | 160 | 309 | 177 | 253 | * | * | * | * | * | * | 157 | 287 |
| 11:00 | * | * | 173 | 271 | 157 | 342 | 197 | 355 | * | * | * | * | * | * | 176 | 323 |
| 12:00 PM | * | * | 186 | 278 | 196 | 307 | 205 | 338 | * | * | * | * | * | * | 196 | 308 |
| 01:00 | * | * | 156 | 268 | 230 | 286 | * | * | * | * | * | * | * | * | 193 | 277 |
| 02:00 | * | * | 217 | 389 | 217 | 360 | * | * | * | * | * | * | * | * | 217 | 374 |
| 03:00 | * | * | 290 | 432 | 273 | 440 | * | * | * | * | * | * | * | * | 282 | 436 |
| 04:00 | * | * | 274 | 516 | 273 | 519 | * | * | * | * | * | * | * | * | 274 | 518 |
| 05:00 | * | * | 304 | 470 | 335 | 493 | * | * | * | * | * | * | * | * | 320 | 482 |
| 06:00 | * | * | 204 | 332 | 218 | 330 | * | * | * | * | * | * | * | * | 211 | 331 |
| 07:00 | * | * | 151 | 204 | 156 | 250 | * | * | * | * | * | * | * | * | 154 | 227 |
| 08:00 | * | * | 132 | 162 | 138 | 150 | * | * | * | * | * | * | * | * | 135 | 156 |
| 09:00 | * | * | 97 | 120 | 112 | 135 | * | * | * | * | * | * | * | * | 104 | 128 |
| 10:00 | * | * | 59 | 123 | 70 | 124 | * | * | * | * | * | * | * | * | 64 | 124 |
| 11:00 | * | * | 31 | 41 | 28 | 66 | * | * | * | * | * | * | * | * | 30 | 54 |
| Lane | 0 | 0 | 3327 | 5279 | 3512 | 5566 | 1584 | 2340 | 0 | 0 | 0 | 0 | 0 | 0 | 3470 | 5432 |
| Day | 0 | | 86 | | 90 | | 39 | | . 0 | | 0 | | 0 | | 8902 | |
| AM Peak | | | 07:00 | 08:00 | 07:00 | 07:00 | 07:00 | 07:00 | | | | | | | 07:00 | 07:00 |
| Vol. | | | 254 | 387 | 271 | 402 | 261 | 374 | | | | | | | 262 | 383 |
| PM Peak | | | 17:00 | 16:00 | 17:00 | 16:00 | 12:00 | 12:00 | | | | | | | 17:00 | 16:00 |
| Vol. | | | 304 | 516 | 335 | 519 | 205 | 338 | | | | | | | 320 | 518 |
| Comb. Total | | 0 | | 8606 | | 9078 | | 3924 | | 0 | | 0 | | 0 | | 8902 |
| ADT | | ADT | 8,842 | P | ADT 8,842 | | | | | | | | | | | |

I-64 EIS counts

3656 E. Stratford Road Virginia Beach, VA 23455 (757) 464-5129

I-64 EIS #24201-02

I-64 WB on ramp fm EB Rt 199 I-64 WB off ramp to EB Rt 199

| Start | 25-Ap | or-11 | Т | ue | W | 'ed | Т | hu | F | ri | Sa | at | Sı | ın | Week Av | verage |
|----------------|-------|--------|-------|--------|-----------|--------|-------|--------|-------|--------|-------|--------|-------|--------|---------|--------|
| Time | WB on | WB off | WB on | WB off | WB on | WB off | WB on | WB off | WB on | WB off | WB on | WB off | WB on | WB off | WB on | WB off |
| 12:00 AM | * | * | 15 | 15 | 15 | 5 | 8 | 9 | * | * | * | * | * | * | 13 | 10 |
| 01:00 | * | * | 5 | 13 | 4 | 12 | 6 | 14 | * | * | * | * | * | * | 5 | 13 |
| 02:00 | * | * | 6 | 7 | 2 | 12 | 2 | 11 | * | * | * | * | * | * | 3 | 10 |
| 03:00 | * | * | 3 | 11 | 6 | 12 | 9 | 13 | * | * | * | * | * | * | 6 | 12 |
| 04:00 | * | * | 4 | 14 | 6 | 12 | 7 | 23 | * | * | * | * | * | * | 6 | 16 |
| 05:00 | * | * | 16 | 76 | 15 | 67 | 20 | 68 | * | * | * | * | * | * | 17 | 70 |
| 06:00 | * | * | 70 | 299 | 52 | 286 | 61 | 294 | * | * | * | * | * | * | 61 | 293 |
| 07:00 | * | * | 74 | 206 | 68 | 199 | 88 | 193 | * | * | * | * | * | * | 77 | 199 |
| 08:00 | * | * | 77 | 168 | 77 | 191 | 77 | 148 | * | * | * | * | * | * | 77 | 169 |
| 09:00 | * | * | 83 | 123 | 100 | 112 | 60 | 103 | * | * | * | * | * | * | 81 | 113 |
| 10:00 | * | * | 80 | 102 | 90 | 98 | * | * | * | * | * | * | * | * | 85 | 100 |
| 11:00 | * | * | 87 | 123 | 124 | 139 | * | * | * | * | * | * | * | * | 106 | 131 |
| 12:00 PM | * | * | 93 | 150 | 96 | 124 | * | * | * | * | * | * | * | * | 94 | 137 |
| 01:00 | 112 | 123 | 115 | 110 | 101 | 131 | * | * | * | * | * | * | * | * | 109 | 121 |
| 02:00 | 113 | 99 | 169 | 108 | 113 | 126 | * | * | * | * | * | * | * | * | 132 | 111 |
| 03:00 | 143 | 131 | 142 | 118 | 143 | 142 | * | * | * | * | * | * | * | * | 143 | 130 |
| 04:00 | 157 | 151 | 159 | 136 | 157 | 141 | * | * | * | * | * | * | * | * | 158 | 143 |
| 05:00 | 128 | 123 | 148 | 131 | 163 | 135 | * | * | * | * | * | * | * | * | 146 | 130 |
| 06:00 | 85 | 87 | 75 | 81 | 95 | 99 | * | * | * | * | * | * | * | * | 85 | 89 |
| 07:00 | 60 | 66 | 52 | 64 | 48 | 52 | * | * | * | * | * | * | * | * | 53 | 61 |
| 08:00 | 36 | 48 | 49 | 45 | 42 | 47 | * | * | * | * | * | * | * | * | 42 | 47 |
| 09:00 | 31 | 25 | 31 | 25 | 31 | 37 | * | * | * | * | * | * | * | * | 31 | 29 |
| 10:00 | 18 | 31 | 35 | 28 | 11 | 25 | * | * | * | * | * | * | * | * | 21 | 28 |
| 11:00 | 29 | 27 | 25 | 16 | 24 | 16 | * | * | * | * | * | * | * | * | 26 | 20 |
| Lane | 912 | 911 | 1613 | 2169 | 1583 | 2220 | 338 | 876 | 0 | 0 | 0 | 0 | 0 | 0 | 1577 | 2182 |
| Day | 183 | 23 | 378 | | 380 | | 121 | | 0 | | 0 | | 0 | | 3759 | |
| AM Peak | | | 11:00 | 06:00 | 11:00 | 06:00 | 07:00 | 06:00 | | | | | | | 11:00 | 06:00 |
| Vol. | | | 87 | 299 | 124 | 286 | 88 | 294 | | | | | | , | 106 | 293 |
| PM Peak | 16:00 | 16:00 | 14:00 | 12:00 | 17:00 | 15:00 | | | | | | | | | 16:00 | 16:00 |
| Vol. | 157 | 151 | 169 | 150 | 163 | 142 | | | | | | | | | 158 | 143 |
| Comb. Total | | 1823 | | 3782 | | 3803 | | 1214 | | 0 | | 0 | | 0 | | 3759 |
| ADT | | ADT 2 | 2,856 | А | ADT 2,856 | | | | | | | | | | | |

I-64 EIS counts

3656 E. Stratford Road Virginia Beach, VA 23455 (757) 464-5129

I-64 EIS #24203-04

I-64 WB on ramp fm WB Rt 199 I-64 WB off ramp to WB Rt 199

| Start | 25-Ap | r-11 | Т | ue | W | 'ed | Т | hu | F | ri | Sa | at | Sı | un | Week A | Average |
|----------------|---------|--------|-------|--------|-----------|--------|-------|--------|-------|--------|-------|--------|-------|--------|--------|---------|
| Time | WB on . | WB off | WB on | WB off | WB on | WB off | WB on | WB off | WB on | WB off | WB on | WB off | WB on | WB off | WB on | WB off |
| 12:00 AM | * | * | 2 | 48 | 3 | 73 | 2 | 53 | * | * | * | * | * | * | 2 | 58 |
| 01:00 | * | * | 7 | 21 | 7 | 26 | 8 | 40 | * | * | * | * | * | * | 7 | 29 |
| 02:00 | * | * | 4 | 16 | 8 | 23 | 5 | 22 | * | * | * | * | * | * | 6 | 20 |
| 03:00 | * | * | 11 | 16 | 6 | 30 | 13 | 36 | * | * | * | * | * | * | 10 | 27 |
| 04:00 | * | * | 2 | 50 | 6 | 39 | 9 | 42 | * | * | * | * | * | * | 6 | 44 |
| 05:00 | * | * | 31 | 125 | 25 | 122 | 23 | 119 | * | * | * | * | * | * | 26 | 122 |
| 06:00 | * | * | 65 | 409 | 65 | 393 | 63 | 386 | * | * | * | * | * | * | 64 | 396 |
| 07:00 | * | * | 73 | 765 | 78 | 729 | 50 | 775 | * | * | * | * | * | * | 67 | 756 |
| 08:00 | * | * | 61 | 804 | 48 | 897 | 52 | 832 | * | * | * | * | * | * | 54 | 844 |
| 09:00 | * | * | 72 | 596 | 62 | 617 | * | * | * | * | * | * | * | * | 67 | 606 |
| 10:00 | * | * | 72 | 455 | 68 | 503 | * | * | * | * | * | * | * | * | 70 | 479 |
| 11:00 | * | * | 47 | 474 | 82 | 494 | * | * | * | * | * | * | * | * | 64 | 484 |
| 12:00 PM | * | * | 79 | 466 | 70 | 466 | * | * | * | * | * | * | * | * | 74 | 466 |
| 01:00 | * | * | 77 | 446 | 87 | 453 | * | * | * | * | * | * | * | * | 82 | 450 |
| 02:00 | * | * | 90 | 541 | 118 | 532 | * | * | * | * | * | * | * | * | 104 | 536 |
| 03:00 | * | * | 115 | 628 | 132 | 555 | * | * | * | * | * | * | * | * | 124 | 592 |
| 04:00 | * | * | 126 | 814 | 107 | 684 | * | * | * | * | * | * | * | * | 116 | 749 |
| 05:00 | * | * | 131 | 878 | 122 | 834 | * | * | * | * | * | * | * | * | 126 | 856 |
| 06:00 | * | * | 64 | 581 | 69 | 700 | * | * | * | * | * | * | * | * | 66 | 640 |
| 07:00 | * | * | 44 | 355 | 59 | 349 | * | * | * | * | * | * | * | * | 52 | 352 |
| 08:00 | * | * | 44 | 287 | 35 | 253 | * | * | * | * | * | * | * | * | 40 | 270 |
| 09:00 | * | * | 14 | 239 | 23 | 254 | * | * | * | * | * | * | * | * | 18 | 246 |
| 10:00 | * | * | 8 | 171 | 17 | 184 | * | * | * | * | * | * | * | * | 12 | 178 |
| 11:00 | * | * | 6 | 87 | 4 | 89 | * | * | * | * | * | * | * | * | 5 | 88 |
| Lane | 0 | 0 | 1245 | 9272 | 1301 | 9299 | 225 | 2305 | 0 | 0 | 0 | 0 | 0 | 0 | 1262 | 9288 |
| Day | 0 | | 105 | | 106 | | 253 | | 0 | | 0 | | 0 | | 1055 | |
| AM Peak | | | 07:00 | 08:00 | 11:00 | 08:00 | 06:00 | 08:00 | | | | | | | 10:00 | 08:00 |
| Vol. | | | 73 | 804 | 82 | 897 | 63 | 832 | | | | | | | 70 | 844 |
| PM Peak | | | 17:00 | 17:00 | 15:00 | 17:00 | | | | | | | | | 17:00 | 17:00 |
| Vol. | | | 131 | 878 | 132 | 834 | | | | | | | | | 126 | 856 |
| Comb. Total | | 0 | | 10517 | | 10600 | | 2530 | | 0 | | 0 | | 0 | | 10550 |
| ADT | | ADT 10 | 0,558 | AA | DT 10,558 | | | | | | | | | | | |

I-64 EIS counts

3656 E. Stratford Road Virginia Beach, VA 23455 (757) 464-5129

I-64 EIS #24205-06

I-64 EB on ramp fm WB Rt 199 I-64 EB off ramp to WB Rt 199

| Start | 25-Ap | | Т | ue | W | 'ed | | hu | F | ri | Sa | at | Sı | ın | Week A | verage |
|----------------|-------|--------|-------|--------|-----------|--------|-------|--------|-------|--------|-------|--------|-------|--------|--------|--------|
| Time | EB on | EB off | EB on | EB off | EB on | EB off | EB on | EB off | EB on | EB off | EB on | EB off | EB on | EB off | EB on | EB off |
| 12:00 AM | * | * | 10 | 24 | 11 | 15 | 9 | 22 | * | * | * | * | * | * | 10 | 20 |
| 01:00 | * | * | 4 | 11 | 5 | 18 | 4 | 20 | * | * | * | * | * | * | 4 | 16 |
| 02:00 | * | * | 7 | 7 | 4 | 11 | 12 | 10 | * | * | * | * | * | * | 8 | 9 |
| 03:00 | * | * | 9 | 4 | 9 | 3 | 9 | 8 | * | * | * | * | * | * | 9 | 5 |
| 04:00 | * | * | 9 | 11 | 12 | 14 | 11 | 11 | * | * | * | * | * | * | 11 | 12 |
| 05:00 | * | * | 34 | 34 | 28 | 28 | 31 | 33 | * | * | * | * | * | * | 31 | 32 |
| 06:00 | * | * | 48 | 87 | 56 | 104 | 63 | 99 | * | * | * | * | * | * | 56 | 97 |
| 07:00 | * | * | 66 | 186 | 87 | 204 | 59 | 204 | * | * | * | * | * | * | 71 | 198 |
| 08:00 | * | * | 78 | 279 | 86 | 187 | 77 | 187 | * | * | * | * | * | * | 80 | 218 |
| 09:00 | * | * | 66 | 163 | 98 | 171 | * | * | * | * | * | * | * | * | 82 | 167 |
| 10:00 | * | * | 81 | 102 | 85 | 130 | * | * | * | * | * | * | * | * | 83 | 116 |
| 11:00 | * | * | 88 | 104 | 113 | 138 | * | * | * | * | * | * | * | * | 100 | 121 |
| 12:00 PM | * | * | 91 | 104 | 93 | 100 | * | * | * | * | * | * | * | * | 92 | 102 |
| 01:00 | * | * | 69 | 99 | 95 | 95 | * | * | * | * | * | * | * | * | 82 | 97 |
| 02:00 | * | * | 149 | 109 | 134 | 135 | * | * | * | * | * | * | * | * | 142 | 122 |
| 03:00 | * | * | 261 | 129 | 257 | 143 | * | * | * | * | * | * | * | * | 259 | 136 |
| 04:00 | * | * | 166 | 115 | 145 | 134 | * | * | * | * | * | * | * | * | 156 | 124 |
| 05:00 | * | * | 131 | 121 | 116 | 152 | * | * | * | * | * | * | * | * | 124 | 136 |
| 06:00 | * | * | 62 | 86 | 70 | 110 | * | * | * | * | * | * | * | * | 66 | 98 |
| 07:00 | * | * | 66 | 61 | 73 | 90 | * | * | * | * | * | * | * | * | 70 | 76 |
| 08:00 | * | * | 35 | 49 | 43 | 79 | * | * | * | * | * | * | * | * | 39 | 64 |
| 09:00 | * | * | 33 | 44 | 43 | 54 | * | * | * | * | * | * | * | * | 38 | 49 |
| 10:00 | * | * | 22 | 48 | 27 | 39 | * | * | * | * | * | * | * | * | 24 | 44 |
| 11:00 | * | * | 13 | 17 | 17 | 41 | * | * | * | * | * | * | * | * | 15 | 29 |
| Lane | 0 | 0 | 1598 | 1994 | 1707 | 2195 | 275 | 594 | 0 | 0 | 0 | 0 | 0 | 0 | 1652 | 2088 |
| Day | 0 | | 359 | | 390 | | 86 | | 0 | | 0 | | 0 | | 3740 | |
| AM Peak | | | 11:00 | 08:00 | 11:00 | 07:00 | 08:00 | 07:00 | | | | | | | 11:00 | 08:00 |
| Vol. | | | 88 | 279 | 113 | 204 | 77 | 204 | | | | | | | 100 | 218 |
| PM Peak | | | 15:00 | 15:00 | 15:00 | 17:00 | | | | | | | | | 15:00 | 15:00 |
| Vol. | | | 261 | 129 | 257 | 152 | | | | | | | | | 259 | 136 |
| Comb. Total | | 0 | | 3592 | | 3902 | | 869 | | 0 | | 0 | | 0 | | 3740 |
| ADT | | ADT | 3,747 | Α | ADT 3,747 | | | | | | | | | | | |

I-64 EIS counts

ADT

ADT 11,661

AADT 11,661

3656 E. Stratford Road Virginia Beach, VA 23455 (757) 464-5129

I-64 EIS #24207-08

I-64 EB on ramp fm EB Rt 199 I-64 EB off ramp to EB Rt 199

| Start | 25-Ap | | Т | ue | W | 'ed | Т | hu . | F | ri | | at | | un | | Average |
|---------------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|---------|
| Time | EB on | EB off |
| 12:00 AM | * | * | 60 | 2 | 52 | 9 | 73 | 5 | * | * | * | * | * | * | 62 | 5 |
| 01:00 | * | * | 26 | 2 | 30 | 3 | 39 | 1 | * | * | * | * | * | * | 32 | 2 |
| 02:00 | * | * | 16 | 6 | 20 | 6 | 21 | 3 | * | * | * | * | * | * | 19 | 5 |
| 03:00 | * | * | 31 | 5 | 29 | 9 | 38 | 5 | * | * | * | * | * | * | 33 | 6 |
| 04:00 | * | * | 77 | 5 | 81 | 3 | 67 | 8 | * | * | * | * | * | * | 75 | 5 |
| 05:00 | * | * | 376 | 18 | 368 | 25 | 353 | 26 | * | * | * | * | * | * | 366 | 23 |
| 06:00 | * | * | 863 | 90 | 831 | 85 | 844 | 84 | * | * | * | * | * | * | 846 | 86 |
| 07:00 | * | * | 1141 | 98 | 1132 | 102 | 1180 | 91 | * | * | * | * | * | * | 1151 | 97 |
| 08:00 | * | * | 731 | 77 | 788 | 64 | 771 | 60 | * | * | * | * | * | * | 763 | 67 |
| 09:00 | * | * | 556 | 69 | 590 | 76 | * | * | * | * | * | * | * | * | 573 | 72 |
| 10:00 | * | * | 532 | 56 | 553 | 74 | * | * | * | * | * | * | * | * | 542 | 65 |
| 11:00 | * | * | 458 | 64 | 575 | 72 | * | * | * | * | * | * | * | * | 516 | 68 |
| 12:00 PM | * | * | 546 | 74 | 590 | 77 | * | * | * | * | * | * | * | * | 568 | 76 |
| 01:00 | * | * | 562 | 59 | 606 | 78 | * | * | * | * | * | * | * | * | 584 | 68 |
| 02:00 | * | * | 650 | 75 | 618 | 87 | * | * | * | * | * | * | * | * | 634 | 81 |
| 03:00 | * | * | 651 | 96 | 625 | 99 | * | * | * | * | * | * | * | * | 638 | 98 |
| 04:00 | * | * | 641 | 103 | 631 | 115 | * | * | * | * | * | * | * | * | 636 | 109 |
| 05:00 | * | * | 716 | 107 | 612 | 97 | * | * | * | * | * | * | * | * | 664 | 102 |
| 06:00 | * | * | 436 | 73 | 536 | 53 | * | * | * | * | * | * | * | * | 486 | 63 |
| 07:00 | * | * | 347 | 46 | 362 | 51 | * | * | * | * | * | * | * | * | 354 | 48 |
| 08:00 | * | * | 306 | 45 | 312 | 34 | * | * | * | * | * | * | * | * | 309 | 40 |
| 09:00 | * | * | 269 | 28 | 272 | 16 | * | * | * | * | * | * | * | * | 270 | 22 |
| 10:00 | * | * | 153 | 10 | 189 | 10 | * | * | * | * | * | * | * | * | 171 | 10 |
| 11:00 | * | * | 134 | 16 | 149 | 24 | * | * | * | * | * | * | * | * | 142 | 20 |
| Lane | 0 | 0 | 10278 | 1224 | 10551 | 1269 | 3386 | 283 | 0 | 0 | 0 | 0 | 0 | 0 | 10434 | 1238 |
| Day | 0 | | 115 | | 118: | | 366 | | 0 | | 0 | | 0 | | 116 | |
| AM Peak | | | 07:00 | 07:00 | 07:00 | 07:00 | 07:00 | 07:00 | | | | | | | 07:00 | 07:00 |
| Vol. | | | 1141 | 98 | 1132 | 102 | 1180 | 91 | | | | | | | 1151 | 97 |
| PM Peak | | | 17:00 | 17:00 | 16:00 | 16:00 | | | | | | | | | 17:00 | 16:00 |
| Vol. | | | 716 | 107 | 631 | 115 | | | | | | | | | 664 | 109 |
| Comb. Tota | | 0 | | 11502 | | 11820 | | 3669 | | 0 | | 0 | | 0 | | 11672 |

I-64 EIS counts

3656 E. Stratford Road Virginia Beach, VA 23455 (757) 464-5129

I-64 EIS #24301-05

I-64 EB off ramp to WB Rt 143 I-64 WB off ramp to WB Rt 143

| Start | 25-Ap | or-11 | Т | ue | W | 'ed | Т | hu . | F | -ri | S | at | S | un | Week A | verage |
|----------------|--------|--------|--------|--------|-----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Time | EB off | WB off | EB off | WB off | EB off | WB off | EB off | WB off | EB off | WB off | EB off | WB off | EB off | WB off | EB off | WB off |
| 12:00 AM | * | * | 0 | 29 | 0 | 29 | 3 | 24 | * | * | * | * | * | * | 1 | 27 |
| 01:00 | * | * | 0 | 16 | 0 | 13 | 0 | 20 | * | * | * | * | * | * | 0 | 16 |
| 02:00 | * | * | 2 | 11 | 3 | 10 | 2 | 9 | * | * | * | * | * | * | 2 | 10 |
| 03:00 | * | * | 0 | 10 | 1 | 10 | 3 | 12 | * | * | * | * | * | * | 1 | 11 |
| 04:00 | * | * | 0 | 25 | 0 | 22 | 0 | 21 | * | * | * | * | * | * | 0 | 23 |
| 05:00 | * | * | 1 | 46 | 1 | 44 | 0 | 55 | * | * | * | * | * | * | 1 | 48 |
| 06:00 | * | * | 6 | 150 | 10 | 144 | 9 | 150 | * | * | * | * | * | * | 8 | 148 |
| 07:00 | * | * | 11 | 254 | 16 | 269 | 10 | 284 | * | * | * | * | * | * | 12 | 269 |
| 08:00 | * | * | 25 | 260 | 14 | 252 | 5 | 235 | * | * | * | * | * | * | 15 | 249 |
| 09:00 | * | * | 122 | 186 | 4 | 175 | * | * | * | * | * | * | * | * | 63 | 180 |
| 10:00 | * | * | 7 | 133 | 5 | 177 | * | * | * | * | * | * | * | * | 6 | 155 |
| 11:00 | * | * | 3 | 178 | 8 | 195 | * | * | * | * | * | * | * | * | 6 | 186 |
| 12:00 PM | * | * | 12 | 166 | 6 | 161 | * | * | * | * | * | * | * | * | 9 | 164 |
| 01:00 | * | * | 7 | 149 | 12 | 190 | * | * | * | * | * | * | * | * | 10 | 170 |
| 02:00 | * | * | 13 | 214 | 17 | 226 | * | * | * | * | * | * | * | * | 15 | 220 |
| 03:00 | * | * | 19 | 273 | 32 | 264 | * | * | * | * | * | * | * | * | 26 | 268 |
| 04:00 | * | * | 9 | 329 | 16 | 250 | * | * | * | * | * | * | * | * | 12 | 290 |
| 05:00 | * | * | 7 | 382 | 16 | 338 | * | * | * | * | * | * | * | * | 12 | 360 |
| 06:00 | * | * | 5 | 231 | 7 | 293 | * | * | * | * | * | * | * | * | 6 | 262 |
| 07:00 | * | * | 4 | 147 | 14 | 153 | * | * | * | * | * | * | * | * | 9 | 150 |
| 08:00 | * | * | 6 | 146 | 1 | 133 | * | * | * | * | * | * | * | * | 4 | 140 |
| 09:00 | * | * | 1 | 102 | 3 | 96 | * | * | * | * | * | * | * | * | 2 | 99 |
| 10:00 | * | * | 5 | 82 | 3 | 85 | * | * | * | * | * | * | * | * | 4 | 84 |
| 11:00 | * | * | 2 | 41 | 4 | 37 | * | * | * | * | * | * | * | * | 3 | 39 |
| Lane | 0 | 0 | 267 | 3560 | 193 | 3566 | 32 | 810 | 0 | 0 | 0 | 0 | 0 | 0 | 227 | 3568 |
| Day | 0 | | 382 | | 375 | | 84 | | 0 | | 0 | | 0 | | 3795 | |
| AM Peak | | | 09:00 | 08:00 | 07:00 | 07:00 | 07:00 | 07:00 | | | | | | | 09:00 | 07:00 |
| Vol. | | | 122 | 260 | 16 | 269 | 10 | 284 | | | | | | | 63 | 269 |
| PM Peak | | | 15:00 | 17:00 | 15:00 | 17:00 | | | | | | | | | 15:00 | 17:00 |
| Vol. | | | 19 | 382 | 32 | 338 | | | | | | | | | 26 | 360 |
| Comb. Total | | 0 | | 3827 | | 3759 | | 842 | | 0 | | 0 | | 0 | | 3795 |
| ADT | - | ADT : | 3,793 | А | ADT 3,793 | | | | | | | | | | | |

I-64 EIS counts

3656 E. Stratford Road Virginia Beach, VA 23455 (757) 464-5129

I-64 EIS #24302-03

I-64 WB on ramp to Busch Gardens I-64 WB off ramp fm Busch Gardens

| Start | 25-Ap | r-11 | Т | ue | W | 'ed | Т | hu | F | ri | S | at | Sı | un | Week A | verage |
|--------------|---------|--------|-------|--------|-----------|--------|-------|--------|-------|--------|-------|--------|-------|--------|--------|--------|
| Time | WB on ' | WB off | WB on | WB off | WB on | WB off | WB on | WB off | WB on | WB off | WB on | WB off | WB on | WB off | WB on | WB off |
| 12:00 AM | * | * | 21 | 3 | 22 | 6 | 32 | 6 | * | * | * | * | * | * | 25 | 5 |
| 01:00 | * | * | 21 | 4 | 16 | 4 | 27 | 4 | * | * | * | * | * | * | 21 | 4 |
| 02:00 | * | * | 24 | 7 | 36 | 2 | 39 | 0 | * | * | * | * | * | * | 33 | 3 |
| 03:00 | * | * | 16 | 5 | 22 | 3 | 31 | 5 | * | * | * | * | * | * | 23 | 4 |
| 04:00 | * | * | 29 | 12 | 29 | 10 | 18 | 11 | * | * | * | * | * | * | 25 | 11 |
| 05:00 | * | * | 43 | 29 | 44 | 28 | 57 | 38 | * | * | * | * | * | * | 48 | 32 |
| 06:00 | * | * | 124 | 107 | 112 | 123 | 128 | 125 | * | * | * | * | * | * | 121 | 118 |
| 07:00 | * | * | 116 | 142 | 137 | 147 | 133 | 167 | * | * | * | * | * | * | 129 | 152 |
| 08:00 | * | * | 131 | 172 | 117 | 172 | 133 | 196 | * | * | * | * | * | * | 127 | 180 |
| 09:00 | * | * | 119 | 110 | 100 | 110 | * | * | * | * | * | * | * | * | 110 | 110 |
| 10:00 | * | * | 96 | 80 | 113 | 80 | * | * | * | * | * | * | * | * | 104 | 80 |
| 11:00 | * | * | 97 | 78 | 125 | 88 | * | * | * | * | * | * | * | * | 111 | 83 |
| 12:00 PM | * | * | 111 | 75 | 131 | 85 | * | * | * | * | * | * | * | * | 121 | 80 |
| 01:00 | * | * | 95 | 53 | 124 | 73 | * | * | * | * | * | * | * | * | 110 | 63 |
| 02:00 | * | * | 121 | 78 | 117 | 123 | * | * | * | * | * | * | * | * | 119 | 100 |
| 03:00 | * | * | 146 | 116 | 180 | 87 | * | * | * | * | * | * | * | * | 163 | 102 |
| 04:00 | * | * | 132 | 99 | 139 | 101 | * | * | * | * | * | * | * | * | 136 | 100 |
| 05:00 | * | * | 133 | 89 | 126 | 88 | * | * | * | * | * | * | * | * | 130 | 88 |
| 06:00 | * | * | 96 | 72 | 109 | 92 | * | * | * | * | * | * | * | * | 102 | 82 |
| 07:00 | * | * | 78 | 38 | 88 | 45 | * | * | * | * | * | * | * | * | 83 | 42 |
| 08:00 | * | * | 48 | 39 | 51 | 29 | * | * | * | * | * | * | * | * | 50 | 34 |
| 09:00 | * | * | 39 | 26 | 69 | 30 | * | * | * | * | * | * | * | * | 54 | 28 |
| 10:00 | * | * | 38 | 49 | 57 | 62 | * | * | * | * | * | * | * | * | 48 | 56 |
| 11:00 | * | * | 39 | 24 | 44 | 19 | * | * | * | * | * | * | * | * | 42 | 22 |
| Lane | 0 | 0 | 1913 | 1507 | 2108 | 1607 | 598 | 552 | 0 | 0 | 0 | 0 | 0 | 0 | 2035 | 1579 |
| Day | 0 | | 342 | | 371 | | 115 | | 0 | | 0 | | 0 | | 361 | |
| AM Peak | | | 08:00 | 08:00 | 07:00 | 08:00 | 07:00 | 08:00 | | | | | | | 07:00 | 08:00 |
| Vol. | | | 131 | 172 | 137 | 172 | 133 | 196 | | | | | | | 129 | 180 |
| PM Peak | | | 15:00 | 15:00 | 15:00 | 14:00 | | | | | | | | | 15:00 | 15:00 |
| Vol. | | | 146 | 116 | 180 | 123 | | | | | | | | | 163 | 102 |
| Comb Tota | | 0 | | 3420 | | 3715 | | 1150 | | 0 | | 0 | | 0 | | 3614 |
| ADT | Г | ADT : | 3,568 | А | ADT 3,568 | | | | | | | | | | | |

I-64 EIS counts

3656 E. Stratford Road Virginia Beach, VA 23455 (757) 464-5129

I-64 EIS #24304

I-64 EB off ramp to Busch Gardens

| Start | Mon | Tue | Wed | Thu | Fri | Average | Sat | Sun | Week |
|-----------------|-----------|----------|--------|-------|-----------|---------|-----------|-----------|----------------|
| Time | 25-Apr-11 | 26-Apr-1 | | | 29-Apr-11 | Day | 30-Apr-11 | 01-May-11 | <u>Average</u> |
| 12:00 AM | * | 15 | 22 | 23 | * | 20 | * | * | 20 |
| 01:00 | * | 8 | 5 | 10 | * | 8 | * | * | 8 |
| 02:00 | * | 5 | 10 | 12 | * | 9 | * | * | 9 🔲 |
| 03:00 | * | 4 | 6 | 8 | * | 6 | * | * | 6] |
| 04:00 | * | 2 | 11 | 14 | * | 9 | * | * | 9 🔲 |
| 05:00 | * | 46 | 52 | 44 | * | 47 | * | * | 47 |
| 06:00 | * | 62 | 71 | 61 | * | 65 | * | * | 65 |
| 07:00 | * | 111 | 116 | 121 | * | 116 | * | * | 116 |
| 08:00 | * | 123 | 103 | 98 | * | 108 | * | * | 108 |
| 09:00 | * | 133 | 87 | 94 | * | 105 | * | * | 105 |
| 10:00 | * | 88 | 75 | 82 | * | 82 | * | * | 82 |
| 11:00 | * | 65 | 81 | 67 | * | 71 | * | * | 71 |
| 12:00 PM | * | 78 | 77 | 82 | * | 79 | * | * | 79 |
| 01:00 | * | 66 | 79 | 104 | * | 83 | * | * | 83 |
| 02:00 | * | 111 | 111 | 110 | * | 111 | * | * | 111 |
| 03:00 | * | 158 | 146 | 126 | * | 143 | * | * | 143 |
| 04:00 | * | 109 | 137 | 149 | * | 132 | * | * | 132 |
| 05:00 | * | 143 | 124 | 124 | * | 130 | * | * | 130 |
| 06:00 | * | 91 | 97 | 87 | * | 92 | * | * | 92 |
| 07:00 | * | 71 | 74 | 49 | * | 65 | * | * | 65 |
| 08:00 | * | 65 | 70 | 46 | * | 60 | * | * | 60 |
| 09:00 | * | 57 | 67 | 51 | * | 58 | * | * | 58 |
| 10:00 | * | 45 | 54 | 37 | * | 45 | * | * | 45 |
| 11:00 | * | 18 | 35 | 31 | * | 28 | * | * | 28 |
| Day Total | 0 | 1674 | 1710 | 1630 | 0 | 1672 | 0 | 0 | 1672 |
| % Avg. WkDay | 0.0% | 100.1% | 102.3% | 97.5% | 0.0% | | | | |
| Avg. Week | 0.0% | 100.1% | 102.3% | 97.5% | 0.0% | 100.0% | 0.0% | 0.0% | |
| AM Peak | 0.070 | 09:00 | 07:00 | 07:00 | 0.070 | 07:00 | 0.070 | 0.070 | 07:00 |
| Vol. | | 133 | 116 | 121 | | 116 | | | 116 |
| PM Peak | | 15:00 | 15:00 | 16:00 | | 15:00 | | | 15:00 |
| Vol. | | 158 | 146 | 149 | | 143 | | | 143 |
| Grand Total | 1 | | | | 630 | 0 16 | 70 | 0 | 0 1672 |

I-64 EIS counts

ADT

ADT 1,706

AADT 1,706

3656 E. Stratford Road Virginia Beach, VA 23455 (757) 464-5129

I-64 EIS #24306

I-64 EB on ramp fm Busch Gardens

| Start | Mon | Tue | Wed | Thu | Fri | Average | Sat | Sun | Week |
|---------------------|-----------|------------|---------------------|-----------|-----------|---------------|-----------|-----------|---------------|
| Time | 25-Apr-11 | 26-Apr-11 | 27-Apr-11 | 28-Apr-11 | 29-Apr-11 | Day | 30-Apr-11 | 01-May-11 | Average |
| 12:00 AM | * | 18 | 13 | 14 | * | 15 | * | * | 15 🔲 |
| 01:00 | * | 3 | 5 | 5 | * | 4 | * | * | 4] |
| 02:00 | * | 3 | 4 | 11 | * | 6 | * | * | 6 🛮 |
| 03:00 | * | 7 | 2 | 4 | * | 4 | * | * | 4] |
| 04:00 | * | 5 | 9 | 7 | * | 7 | * | * | 7 🛮 |
| 05:00 | * | 32 | 25 | 38 | * | 32 | * | * | 32 |
| 06:00 | * | 76 | 80 | 77 | * | 78 | * | * | 78 |
| 07:00 | * | 148 | 157 | 157 | * | 154 | * | * | 154 |
| 08:00 | * | 87 | 82 | 98 | * | 89 | * | * | 89 |
| 09:00 | * | 85 | 93 | * | * | 89 | * | * | 89 |
| 10:00 | * | 68 | 106 | * | * | 87 | * | * | 87 |
| 11:00 | * | 86 | 98 | * | * | 92 | * | * | 92 |
| 12:00 PM | * | 102 | 72 | * | * | 87 | * | * | 87 |
| 01:00 | * | 96 | 74 | * | * | 85 | * | * | 85 |
| 02:00 | * | 108 | 122 | * | * | 115 | * | * | 115 |
| 03:00 | * | 165 | 211 | * | * | 188 | * | * | 188 |
| 04:00 | * | 166 | 145 | * | * | 156 | * | * | 156 |
| 05:00 | * | 156 | 113 | * | * | 134 | * | * | 134 |
| 06:00 | * | 64 | 68 | * | * | 66 | * | * | 66 |
| 07:00 | * | 64 | 66 | * | * | 65 | * | * | 65 |
| 08:00 | * | 29 | 38 | * | * | 34 | * | * | 34 |
| 09:00 | * | 35 | 41 | * | * | 38 | * | * | 38 |
| 10:00 | * | 30 | 32 | * | * | 31 | * | * | 31 |
| 11:00 | * | 56 | 67 | * | * | 62 | * | * | 62 |
| Day Total | 0 | 1689 | 1723 | 411 | 0 | 1718 | 0 | 0 | 1718 |
| % Avg. | 0.0% | 98.3% | 100.3% | 23.9% | 0.0% | | | | |
| WkDay | | | | | | 100.00/ | 0.007 | 0.00/ | |
| 6 Avg. Week | 0.0% | 98.3% | 100.3% | 23.9% | 0.0% | 100.0% | 0.0% | 0.0% | 07.00 |
| AM Peak | | 07:00 | 07:00 | 07:00 | | 07:00 154 | | | 07:00 154 |
| Vol. | | 148 | 157 | 157 | | | | | |
| PM Peak | | 16:00 | 15:00 | | | 15:00 | | | 15:00 |
| Vol. Grand Total | | 166 0 1 | <u>211</u> 689 1 | 723 | ļ11 | 188 0 1718 | | 0 | 188 0 1718 |

I-64 EIS counts

3656 E. Stratford Road Virginia Beach, VA 23455 (757) 464-5129

I-64 EIS #24307-08

I-64 EB and WB off ramps to US Rt 60 US Rt 60 to Busch Gardens

| Start | 25-Apr | -11 | Т | ue | W | ed | Т | hu | Fi | ri | Sa | t | Su | n | Week Av | verage |
|---------------|----------|-------|----------|-------|-----------|-------|----------|-------|----------|-------|----------|-------|----------|-------|----------|--------|
| Time | I-64 off | BG in | I-64 off | BG in | I-64 off | BG in | I-64 off | BG in | I-64 off | BG in | I-64 off | BG in | I-64 off | BG in | I-64 off | BG in |
| 12:00 AM | * | * | 18 | 1 | 29 | 1 | 27 | 1 | * | * | * | * | * | * | 25 | 1 |
| 01:00 | * | * | 11 | 0 | 11 | 0 | 12 | 0 | * | * | * | * | * | * | 11 | 0 |
| 02:00 | * | * | 12 | 0 | 11 | 0 | 14 | 1 | * | * | * | * | * | * | 12 | 0 |
| 03:00 | * | * | 10 | 0 | 10 | 0 | 13 | 0 | * | * | * | * | * | * | 11 | 0 |
| 04:00 | * | * | 12 | 0 | 22 | 0 | 27 | 0 | * | * | * | * | * | * | 20 | 0 |
| 05:00 | * | * | 76 | 0 | 79 | 0 | 80 | 0 | * | * | * | * | * | * | 78 | 0 |
| 06:00 | * | * | 169 | 0 | 187 | 0 | 186 | 0 | * | * | * | * | * | * | 181 | 0 |
| 07:00 | * | * | 255 | 0 | 272 | 0 | 301 | 0 | * | * | * | * | * | * | 276 | 0 |
| 08:00 | * | * | 288 | 0 | 283 | 8 | 305 | 0 | * | * | * | * | * | * | 292 | 3 |
| 09:00 | * | * | 232 | 6 | 189 | 2 | * | * | * | * | * | * | * | * | 210 | 4 |
| 10:00 | * | * | 155 | 6 | 155 | 5 | * | * | * | * | * | * | * | * | 155 | 6 |
| 11:00 | * | * | 143 | 3 | 158 | 6 | * | * | * | * | * | * | * | * | 150 | 4 |
| 12:00 PM | * | * | 157 | 4 | 150 | 10 | * | * | * | * | * | * | * | * | 154 | 7 |
| 01:00 | * | * | 124 | 4 | 153 | 3 | * | * | * | * | * | * | * | * | 138 | 4 |
| 02:00 | * | * | 200 | 10 | 224 | 4 | * | * | * | * | * | * | * | * | 212 | 7 |
| 03:00 | * | * | 267 | 5 | 223 | 9 | * | * | * | * | * | * | * | * | 245 | 7 |
| 04:00 | * | * | 204 | 3 | 230 | 1 | * | * | * | * | * | * | * | * | 217 | 2 |
| 05:00 | * | * | 235 | 1 | 219 | 4 | * | * | * | * | * | * | * | * | 227 | 2 |
| 06:00 | * | * | 158 | 3 | 188 | 0 | * | * | * | * | * | * | * | * | 173 | 2 |
| 07:00 | * | * | 107 | 1 | 121 | 0 | * | * | * | * | * | * | * | * | 114 | 0 |
| 08:00 | * | * | 108 | 0 | 100 | 0 | * | * | * | * | * | * | * | * | 104 | 0 |
| 09:00 | * | * | 79 | 0 | 96 | 0 | * | * | * | * | * | * | * | * | 88 | 0 |
| 10:00 | * | * | 98 | 5 | 115 | 0 | * | * | * | * | * | * | * | * | 106 | 2 |
| 11:00 | * | * | 45 | 0 | 57 | 0 | * | * | * | * | * | * | * | * | 51 | 0 |
| Lane | 0 | 0 | 3163 | 52 | 3282 | 53 | 965 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 3250 | 51 |
| Day | 0 | | 321 | | 333 | | 96 | | 0 | | 0 | | 0 | | 3301 | |
| AM Peak | | | 08:00 | 09:00 | 08:00 | 08:00 | 08:00 | 00:00 | | | | | | | 08:00 | 10:00 |
| Vol. | | | 288 | 6 | 283 | 88 | 305 | 1_ | | | | | | | 292 | 6 |
| PM Peak | | | 15:00 | 14:00 | 16:00 | 12:00 | | | | | | | | | 15:00 | 12:00 |
| Vol. | | | 267 | 10 | 230 | 10 | | | | | | | | | 245 | 7 |
| Comb. Tota | | 0 | | 3215 | | 3335 | | 967 | | 0 | | 0 | | 0 | | 3301 |
| ADT | - | ADT | 3,275 | Д | ADT 3,275 | | | | | | | | | | | |

I-64 EIS counts

3656 E. Stratford Road Virginia Beach, VA 23455 (757) 464-5129

I-64 EIS #24309-10

I-64 EB and WB on ramp fm US Rt 60 Busch Gardens to US Rt 60

| Start | 25-Ap | r-11 | Т | ue | W | 'ed | Т | hu | F | ri | S | at | Sı | un | Week A | verage |
|--------------|---------|--------|---------|--------|-----------|--------|---------|--------|---------|--------|---------|--------|---------|--------|---------|--------|
| Time | I-64 on | BG out | I-64 on | BG out | I-64 on | BG out | I-64 on | BG out | I-64 on | BG out | I-64 on | BG out | I-64 on | BG out | I-64 on | BG out |
| 12:00 AM | * | * | 36 | 1 | 34 | 1 | 45 | 2 | * | * | * | * | * | * | 38 | 1 |
| 01:00 | * | * | 28 | 0 | 23 | 0 | 36 | 0 | * | * | * | * | * | * | 29 | 0 |
| 02:00 | * | * | 26 | 0 | 46 | 0 | 54 | 0 | * | * | * | * | * | * | 42 | 0 |
| 03:00 | * | * | 22 | 0 | 19 | 0 | 32 | 0 | * | * | * | * | * | * | 24 | 0 |
| 04:00 | * | * | 36 | 0 | 41 | 0 | 33 | 0 | * | * | * | * | * | * | 37 | 0 |
| 05:00 | * | * | 76 | 0 | 76 | 0 | 94 | 0 | * | * | * | * | * | * | 82 | 0 |
| 06:00 | * | * | 202 | 0 | 191 | 0 | 206 | 0 | * | * | * | * | * | * | 200 | 0 |
| 07:00 | * | * | 271 | 0 | 302 | 1 | 290 | 0 | * | * | * | * | * | * | 288 | 0 |
| 08:00 | * | * | 218 | 2 | 195 | 4 | 237 | 6 | * | * | * | * | * | * | 217 | 4 |
| 09:00 | * | * | 195 | 5 | 193 | 4 | * | * | * | * | * | * | * | * | 194 | 4 |
| 10:00 | * | * | 152 | 7 | 216 | 6 | * | * | * | * | * | * | * | * | 184 | 6 |
| 11:00 | * | * | 180 | 7 | 209 | 10 | * | * | * | * | * | * | * | * | 194 | 8 |
| 12:00 PM | * | * | 214 | 5 | 191 | 5 | * | * | * | * | * | * | * | * | 202 | 5 |
| 01:00 | * | * | 189 | 3 | 202 | 3 | * | * | * | * | * | * | * | * | 196 | 3 |
| 02:00 | * | * | 223 | 10 | 233 | 7 | * | * | * | * | * | * | * | * | 228 | 8 |
| 03:00 | * | * | 315 | 2 | 386 | 14 | * | * | * | * | * | * | * | * | 350 | 8 |
| 04:00 | * | * | 298 | 5 | 281 | 12 | * | * | * | * | * | * | * | * | 290 | 8 |
| 05:00 | * | * | 293 | 0 | 238 | 3 | * | * | * | * | * | * | * | * | 266 | 2 |
| 06:00 | * | * | 162 | 2 | 179 | 1 | * | * | * | * | * | * | * | * | 170 | 2 |
| 07:00 | * | * | 131 | 1 | 161 | 0 | * | * | * | * | * | * | * | * | 146 | 0 |
| 08:00 | * | * | 77 | 0 | 87 | 1 | * | * | * | * | * | * | * | * | 82 | 0 |
| 09:00 | * | * | 77 | 0 | 115 | 0 | * | * | * | * | * | * | * | * | 96 | 0 |
| 10:00 | * | * | 76 | 0 | 85 | 0 | * | * | * | * | * | * | * | * | 80 | 0 |
| 11:00 | * | * | 86 | 0 | 109 | 0 | * | * | * | * | * | * | * | * | 98 | 0 |
| Lane | 0 | 0 | 3583 | 50 | 3812 | 72 | 1027 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 3733 | 59 |
| Day | 0 | | 363 | | 388 | | 103 | | 0 | | 0 | | 0 | | 3792 | |
| AM Peak | | | 07:00 | 10:00 | 07:00 | 11:00 | 07:00 | 08:00 | | | | | | | 07:00 | 11:00 |
| Vol. | | | 271 | 7 | 302 | 10 | 290 | 6 | | | | | | | 288 | 8 |
| PM Peak | | | 15:00 | 14:00 | 15:00 | 15:00 | | | | | | | | | 15:00 | 14:00 |
| Vol. | | | 315 | 10 | 386 | 14 | | | | | | | | | 350 | 8 |
| Comb Tota | | 0 | | 3633 | | 3884 | | 1035 | | 0 | | 0 | | 0 | | 3792 |
| ADT | - | ADT : | 3,758 | А | ADT 3,758 | | | | | | | | | | | |

I-64 EIS counts

3656 E. Stratford Road Virginia Beach, VA 23455 (757) 464-5129

I-64 EIS #24701

I-64 WB off ramp to Yorktown

| Start Time | Mon 25-Apr-11 | Tue 26-Apr-11 | Wed 27-Apr-11 | Thu 28-Apr-11 | Fri 29-Apr-11 | Average Day | Sat 30-Apr-11 | Sun 01-May-11 | Week Average |
|-----------------|------------------|------------------|------------------|------------------|------------------|----------------|------------------|------------------|-----------------|
| 12:00 AM | * | 38 | 43 | 44 | * | 42 | * | * | 42 |
| 01:00 | * | 24 | 35 | 13 | * | 24 | * | * | 24 |
| 02:00 | * | 13 | 12 | 21 | * | 15 | * | * | 15 🛚 |
| 03:00 | * | 20 | 15 | 9 | * | 15 | * | * | 15 |
| 04:00 | * | 20 | 26 | 18 | * | 21 | * | * | 21 🛮 |
| 05:00 | * | 95 | 102 | 103 | * | 100 | * | * | 100 |
| 06:00 | * | 314 | 302 | 285 | * | 300 | * | * | 300 |
| 07:00 | * | 349 | 316 | 280 | * | 315 | * | * | 315 |
| 08:00 | * | 206 | 200 | 209 | * | 205 | * | * | 205 |
| 09:00 | * | 140 | 162 | 170 | * | 157 | * | * | 157 |
| 10:00 | * | 147 | 159 | * | * | 153 | * | * | 153 |
| 11:00 | * | 174 | 181 | * | * | 178 | * | * | 178 |
| 12:00 PM | * | 153 | 214 | * | * | 184 | * | * | 184 |
| 01:00 | * | 186 | 190 | * | * | 188 | * | * | 188 |
| 02:00 | * | 216 | 222 | * | * | 219 | * | * | 219 |
| 03:00 | * | 325 | 353 | * | * | 339 | * | * | 339 |
| 04:00 | * | 495 | 350 | * | * | 422 | * | * | 422 |
| 05:00 | * | 424 | 332 | * | * | 378 | * | * | 378 |
| 06:00 | * | 228 | 245 | * | * | 236 | * | * | 236 |
| 07:00 | * | 120 | 115 | * | * | 118 | * | * | 118 |
| 08:00 | * | 126 | 128 | * | * | 127 | * | * | 127 |
| 09:00 | * | 107 | 102 | * | * | 104 | * | * | 104 |
| 10:00 | * | 78 | 62 | * | * | 70 | * | * | 70 |
| 11:00 | * | 47 | 57 | * | * | 52 | * | * | 52 |
| Day Total | 0 | 4045 | 3923 | 1152 | 0 | 3962 | 0 | 0 | 3962 |
| % Avg. WkDay | 0.0% | 102.1% | 99.0% | 29.1% | 0.0% | | | | |
| Avg. Week | 0.0% | 102.1% | 99.0% | 29.1% | 0.0% | 100.0% | 0.0% | 0.0% | |
| AM Peak | | 07:00 | 07:00 | 06:00 | | 07:00 | | | 07:00 |
| Vol. | | 349 | 316 | 285 | | 315 | | | 315 |
| PM Peak | <u> </u> | 16:00 | 15:00 | | | 16:00 | | | 16:00 |
| Vol. | | 495 | 353 | | | 422 | | | 422 |
| Grand Tota | | 0 40 | 045 39 | 23 11 | 52 | 0 3962 | | 0 | 0 3962 |

I-64 EIS counts

ADT

ADT 2,863

AADT 2,863

3656 E. Stratford Road Virginia Beach, VA 23455 (757) 464-5129

I-64 EIS #24703

I-64 WB on ramp fm WB Jefferson

| Start | Mon | Tue | Wed | Thu | Fri | Average | | Sun | Week | |
|-----------------|-----------|-----------|--------|-----------|-----------|---------|-----------|-----------|-------|---|
| Time | 25-Apr-11 | 26-Apr-11 | | 28-Apr-11 | 29-Apr-11 | Day | 30-Apr-11 | 01-May-11 | | |
| 12:00 AM | * | 12 | 14 | 17 | * | 14 | * | * | 14 📙 | |
| 01:00 | * | 24 | 16 | 17 | * | 19 | * | * | 19 | |
| 02:00 | * | 12 | 22 | 12 | * | 15 | * | * | 15 📙 | |
| 03:00 | * | 21 | 19 | 18 | * | 19 | * | * | 19 | |
| 04:00 | * | 24 | 33 | 28 | * | 28 | * | * | 28 | |
| 05:00 | * | 65 | 71 | 59 | * | 65 | * | * | 65 | |
| 06:00 | * | 196 | 187 | 184 | * | 189 | * | * | 189 | |
| 07:00 | * | 250 | 225 | 225 | * | 233 | * | * | 233 | |
| 08:00 | * | 211 | 211 | 200 | * | 207 | * | * | 207 | |
| 09:00 | * | 163 | 144 | * | * | 154 | * | * | 154 | |
| 10:00 | * | 151 | 147 | * | * | 149 | * | * | 149 | |
| 11:00 | * | 155 | 173 | * | * | 164 | * | * | 164 | |
| 12:00 PM | * | 129 | 161 | * | * | 145 | * | * | 145 | |
| 01:00 | * | 155 | 170 | * | * | 162 | * | * | 162 | |
| 02:00 | * | 154 | 183 | * | * | 168 | * | * | 168 | |
| 03:00 | * | 206 | 201 | * | * | 204 | * | * | 204 | |
| 04:00 | * | 256 | 286 | * | * | 271 | * | * | 271 | |
| 05:00 | * | 258 | 258 | * | * | 258 | * | * | 258 | |
| 06:00 | * | 139 | 147 | * | * | 143 | * | * | 143 | |
| 07:00 | * | 77 | 73 | * | * | 75 | * | * | 75 | |
| 08:00 | * | 35 | 43 | * | * | 39 | * | * | 39 | |
| 09:00 | * | 55 | 43 | * | * | 49 | * | * | 49 |] |
| 10:00 | * | 42 | 54 | * | * | 48 | * | * | 48 |] |
| 11:00 | * | 27 | 28 | * | * | 28 | * | * | 28 | |
| Day Total | 0 | 2817 | 2909 | 760 | 0 | 2846 | 0 | 0 | 2846 | |
| % Avg. WkDay | 0.0% | 99.0% | 102.2% | 26.7% | 0.0% | | | | | |
| 6 Avg. Week | 0.0% | 99.0% | 102.2% | 26.7% | 0.0% | 100.0% | 0.0% | 0.0% | | |
| AM Peak | | 07:00 | 07:00 | 07:00 | | 07:00 | 2.070 | | 07:00 | |
| Vol. | | 250 | 225 | 225 | | 233 | | | 233 | |
| PM Peak | | 17:00 | 16:00 | | | 16:00 | | , | 16:00 | |
| Vol. | | 258 | 286 | | | 271 | | | 271 | |
| Grand Total | | | | 909 | 760 | | 2846 | 0 | 0 284 | 6 |

I-64 EIS counts

3656 E. Stratford Road Virginia Beach, VA 23455 (757) 464-5129

I-64 EIS #24705

I-64 EB off ramp to Merrimac Trail

| Start | Mon | Tue | Wed | Thu | Fri | Average | Sat | Sun | Week |
|-----------------|-----------|-----------|-----------|-----------|-----------|---------|-----------|-----------|---------|
| Time | 25-Apr-11 | 26-Apr-11 | 27-Apr-11 | 28-Apr-11 | 29-Apr-11 | Day | 30-Apr-11 | 01-May-11 | Average |
| 12:00 AM | * | 29 | 21 | 20 | * | 23 | * | * | 23 |
| 01:00 | * | 18 | 7 | 12 | * | 12 | * | * | 12 📃 |
| 02:00 | * | 13 | 14 | 13 | * | 13 | * | * | 13 🔲 |
| 03:00 | * | 11 | 9 | 8 | * | 9 | * | * | 9 |
| 04:00 | * | 5 | 11 | 6 | * | 7 | * | * | 7 🛮 |
| 05:00 | * | 47 | 46 | 50 | * | 48 | * | * | 48 |
| 06:00 | * | 119 | 127 | 123 | * | 123 | * | * | 123 |
| 07:00 | * | 151 | 153 | 143 | * | 149 | * | * | 149 |
| 08:00 | * | 177 | 81 | 96 | * | 118 | * | * | 118 |
| 09:00 | * | 163 | 67 | * | * | 115 | * | * | 115 |
| 10:00 | * | 92 | 95 | * | * | 94 | * | * | 94 |
| 11:00 | * | 90 | 84 | * | * | 87 | * | * | 87 |
| 12:00 PM | * | 108 | 102 | * | * | 105 | * | * | 105 |
| 01:00 | * | 107 | 107 | * | * | 107 | * | * | 107 |
| 02:00 | * | 132 | 128 | * | * | 130 | * | * | 130 |
| 03:00 | * | 138 | 128 | * | * | 133 | * | * | 133 |
| 04:00 | * | 127 | 120 | * | * | 124 | * | * | 124 |
| 05:00 | * | 119 | 107 | * | * | 113 | * | * | 113 |
| 06:00 | * | 83 | 72 | * | * | 78 | * | * | 78 |
| 07:00 | * | 61 | 67 | * | * | 64 | * | * | 64 |
| 08:00 | * | 49 | 46 | * | * | 48 | * | * | 48 |
| 09:00 | * | 62 | 55 | * | * | 58 | * | * | 58 |
| 10:00 | * | 34 | 43 | * | * | 38 | * | * | 38 |
| 11:00 | * | 34 | 48 | * | * | 41 | * | * | 41 |
| Day Total | 0 | 1969 | 1738 | 471 | 0 | 1837 | 0 | 0 | 1837 |
| % Avg. WkDay | 0.0% | 107.2% | 94.6% | 25.6% | 0.0% | | | | |
| Avg. Week | 0.0% | 107.2% | 94.6% | 25.6% | 0.0% | 100.0% | 0.0% | 0.0% | |
| AM Peak | | 08:00 | 07:00 | 07:00 | | 07:00 | | | 07:00 |
| Vol. | | 177 | 153 | 143 | | 149 | | | 149 |
| PM Peak | | 15:00 | 14:00 | | | 15:00 | | | 15:00 |
| Vol. | | 138 | 128 | | | 133 | | | 133 |
| Grand Tota | 1 | | | 738 4 | 171 | 0 1837 | | 0 | 0 1837 |

ADT

ADT 1,854

AADT 1,854

I-64 EIS counts

ADT

ADT 2,074

AADT 2,074

3656 E. Stratford Road Virginia Beach, VA 23455 (757) 464-5129

I-64 EIS #24706

I-64 EB on ramp fm EB Jefferson

| Start | Mon | Tue | Wed | Thu | Fri | Average | Sat | Sun | Week |
|-----------------|----------------|-----------|-----------|-----------|-----------|---------|-----------|-----------|----------------------------|
| Time | 25-Apr-11 * | 26-Apr-11 | 27-Apr-11 | 28-Apr-11 | 29-Apr-11 | Day | 30-Apr-11 | 01-May-11 | Average |
| 12:00 AM | * | 8 | 8 | 8 | * | 8 | * | * | 8 |
| 01:00 02:00 | * | 6 7 | 5 4 | 6 9 | * | 6 7 | * | * | 6 <u>]</u> 7 <u>[</u>] |
| 02:00 | * | 9 | 8 | 7 | * | 8 | * | * | 8] |
| 03:00 | * | 16 | 16 | 13 | * | 15 | * | * | 15 🔲 |
| 04:00 | * | 53 | 60 | 56 | * | 56 | * | * | 56 |
| 06:00 | * | 171 | 180 | 168 | * | 173 | * | * | 173 |
| | * | | | | * | | * | * | |
| 07:00 | * | 257 | 293 | 292 | * | 281 | * | * | 281 |
| 08:00 | * | 84 | 189 | 185 | * | 153 | * | * | 153 |
| 09:00 | * | 136 | 108 | * | * | 122 | * | * | 122 |
| 10:00 | * | 119 | 98 | * | * | 108 | * | * | 108 |
| 11:00 | * | 68 | 91 | * | * | 80 | * | * | 80 |
| 12:00 PM | * | 76 | 81 | * | * | 78 | * | * | 78 |
| 01:00 | | 87 | 63 | | | 75 | * | | 75 |
| 02:00 | * | 103 | 110 | * | * | 106 | * | * | 106 |
| 03:00 | * | 168 | 141 | | | 154 | | | 154 |
| 04:00 | * | 205 | 151 | * | * | 178 | * | * | 178 |
| 05:00 | * | 190 | 189 | * | * | 190 | * | * | 190 |
| 06:00 | * | 94 | 94 | * | * | 94 | * | * | 94 |
| 07:00 | * | 57 | 64 | * | * | 60 | * | * | 60 |
| 08:00 | * | 44 | 48 | * | * | 46 | * | * | 46 |
| 09:00 | * | 24 | 49 | * | * | 36 | * | * | 36 |
| 10:00 | * | 28 | 25 | * | * | 26 | * | * | 26 🔲 |
| 11:00 | * | 36 | 27 | * | * | 32 | * | * | 32 |
| Day Total | 0 | 2046 | 2102 | 744 | 0 | 2092 | 0 | 0 | 2092 |
| % Avg. WkDay | 0.0% | 97.8% | 100.5% | 35.6% | 0.0% | | | | |
| 6 Avg. Week | 0.0% | 97.8% | 100.5% | 35.6% | 0.0% | 100.0% | 0.0% | 0.0% | |
| AM Peak | | 07:00 | 07:00 | 07:00 | | 07:00 | | | 07:00 |
| Vol. | | 257 | 293 | 292 | | 281 | | | 281 |
| PM Peak | | 16:00 | 17:00 | | | 17:00 | | | 17:00 |
| Vol. | | 205 | 189 | | | 190 | | | 190 |
| Grand Tota | 1 | | | 02 7 | 44 | 0 2092 | | 0 | 0 2092 |

I-64 EIS counts

3656 E. Stratford Road Virginia Beach, VA 23455 (757) 464-5129

I-64 EIS #24707

I-64 EB on ramp fm Yorktown Rd

| Start | Mon | Tue | Wed | Thu | Fri | Average | Sat | Sun | Week |
|-----------------|----------------|-----------|-----------|-----------|----------------|------------|----------------|----------------|--------------------|
| Time | 25-Apr-11 * | 26-Apr-11 | 27-Apr-11 | 28-Apr-11 | 29-Apr-11 * | Day | 30-Apr-11 * | 01-May-11 * | Average |
| 12:00 AM | * | 20 13 | 16 | 17 | * | 18 9 | * | * | 18 - 9] |
| 01:00 | * | | 8 | 6 | * | | * | * | |
| 02:00 | * | 8 10 | 12 12 | 9 12 | * | 10 11 | * | * | 10 [11] |
| 03:00 04:00 | * | 43 | | | * | | * | * | 42 |
| | * | 200 | 43 181 | 40 177 | * | 42 | * | * | |
| 05:00 | * | 329 | 358 | 357 | * | 186 348 | * | * | 186 <u> </u> |
| 06:00 | | | | | * | | * | * | |
| 07:00 | * | 383 | 383 | 358 | * | 375 | * | * | 375 |
| 08:00 | * | 138 | 286 | 222 | * | 215 | * | * | 215 |
| 09:00 | * | 180 | 184 | 184 | * | 183 | * | * | 183 |
| 10:00 | | 147 | 151 | * | * | 149 | * | * | 149 |
| 11:00 | * | 174 | 175 | * | * | 174 | * | * | 174 |
| 12:00 PM | * | 155 | 153 | * | * | 154 | * | * | 154 |
| 01:00 | * | 158 | 179 | * | * | 168 | * | * | 168 |
| 02:00 | * | 226 | 189 | | | 208 | | | 208 |
| 03:00 | * | 242 | 228 | * | * | 235 | * | * | 235 |
| 04:00 | * | 262 | 150 | * | * | 206 | * | * | 206 |
| 05:00 | * | 219 | 162 | * | * | 190 | * | * | 190 |
| 06:00 | * | 108 | 120 | * | * | 114 | * | * | 114 |
| 07:00 | * | 82 | 77 | * | * | 80 | * | * | 80 |
| 08:00 | * | 57 | 58 | * | * | 58 | * | * | 58 |
| 09:00 | * | 58 | 61 | * | * | 60 | * | * | 60 |
| 10:00 | * | 34 | 40 | * | * | 37 | * | * | 37 |
| 11:00 | * | 28 | 17 | * | * | 22 | * | * | 22 |
| Day Total | 0 | 3274 | 3243 | 1382 | 0 | 3252 | 0 | 0 | 3252 |
| % Avg. WkDay | 0.0% | 100.7% | 99.7% | 42.5% | 0.0% | | | | |
| Avg. Week | 0.0% | 100.7% | 99.7% | 42.5% | 0.0% | 100.0% | 0.0% | 0.0% | |
| AM Peak | | 07:00 | 07:00 | 07:00 | | 07:00 | | | 07:00 |
| Vol. | | 383 | 383 | 358 | | 375 | | | 375 |
| PM Peak | | 16:00 | 15:00 | | | 15:00 | | | 15:00 |
| Vol. | | 262 | 228 | | | 235 | | | 235 |
| Grand Tota | al | 0 32 | 274 32 | 243 13 | 82 | 0 3252 | | 0 | 0 3252 |

ADT

ADT 3,258

AADT 3,258

I-64 EIS counts

3656 E. Stratford Road Virginia Beach, VA 23455 (757) 464-5129

I-64 EIS #25001-02

I-64 WB on ramp fm EB Ft Eustis I-64 WB off ramp to Jefferson

| Start | 11-Ap | or-11 | Т | ue | W | 'ed | Т | 'hu | F | ri | S | at | Sı | un | Week Av | verage |
|---------------|---------|--------|-------|--------|-----------|--------|-------|--------|-------|--------|-------|--------|-------|--------|---------|--------|
| Time | WB on ' | WB off | WB on | WB off | WB on | WB off | WB on | WB off | WB on | WB off | WB on | WB off | WB on | WB off | WB on | WB off |
| 12:00 AM | * | * | 22 | 57 | 21 | 58 | 37 | 42 | * | * | * | * | * | * | 27 | 52 |
| 01:00 | * | * | 25 | 33 | 18 | 24 | 21 | 29 | * | * | * | * | * | * | 21 | 29 |
| 02:00 | * | * | 5 | 15 | 8 | 18 | 8 | 22 | * | * | * | * | * | * | 7 | 18 |
| 03:00 | * | * | 18 | 15 | 18 | 11 | 21 | 14 | * | * | * | * | * | * | 19 | 13 |
| 04:00 | * | * | 34 | 19 | 36 | 15 | 39 | 31 | * | * | * | * | * | * | 36 | 22 |
| 05:00 | * | * | 124 | 87 | 98 | 83 | 88 | 85 | * | * | * | * | * | * | 103 | 85 |
| 06:00 | * | * | 269 | 260 | 283 | 215 | 266 | 233 | * | * | * | * | * | * | 273 | 236 |
| 07:00 | * | * | 328 | 320 | 322 | 326 | 336 | 306 | * | * | * | * | * | * | 329 | 317 |
| 08:00 | * | * | 267 | 241 | 265 | 194 | 274 | 249 | * | * | * | * | * | * | 269 | 228 |
| 09:00 | * | * | 195 | 199 | 207 | 208 | * | * | * | * | * | * | * | * | 201 | 204 |
| 10:00 | * | * | 191 | 193 | 205 | 179 | * | * | * | * | * | * | * | * | 198 | 186 |
| 11:00 | * | * | 209 | 204 | 226 | 174 | * | * | * | * | * | * | * | * | 218 | 189 |
| 12:00 PM | * | * | 216 | 241 | 178 | 224 | * | * | * | * | * | * | * | * | 197 | 232 |
| 01:00 | * | * | 228 | 248 | 262 | 285 | * | * | * | * | * | * | * | * | 245 | 266 |
| 02:00 | * | * | 248 | 279 | 278 | 224 | * | * | * | * | * | * | * | * | 263 | 252 |
| 03:00 | * | * | 322 | 402 | 336 | 236 | * | * | * | * | * | * | * | * | 329 | 319 |
| 04:00 | * | * | 424 | 530 | 479 | 543 | * | * | * | * | * | * | * | * | 452 | 536 |
| 05:00 | * | * | 397 | 490 | 405 | 531 | * | * | * | * | * | * | * | * | 401 | 510 |
| 06:00 | * | * | 226 | 297 | 226 | 364 | * | * | * | * | * | * | * | * | 226 | 330 |
| 07:00 | * | * | 123 | 189 | 131 | 182 | * | * | * | * | * | * | * | * | 127 | 186 |
| 08:00 | * | * | 94 | 175 | 116 | 191 | * | * | * | * | * | * | * | * | 105 | 183 |
| 09:00 | * | * | 79 | 109 | 102 | 169 | * | * | * | * | * | * | * | * | 90 | 139 |
| 10:00 | * | * | 73 | 100 | 71 | 122 | * | * | * | * | * | * | * | * | 72 | 111 |
| 11:00 | * | * | 45 | 67 | 33 | 77 | * | * | * | * | * | * | * | * | 39 | 72 |
| Lane | 0 | 0 | 4162 | 4770 | 4324 | 4653 | 1090 | 1011 | 0 | 0 | 0 | 0 | 0 | 0 | 4247 | 4715 |
| Day | 0 | | 893 | | 897 | | 210 | | 0 | | 0 | | 0 | | 8962 | |
| AM Peak | | | 07:00 | 07:00 | 07:00 | 07:00 | 07:00 | 07:00 | | | | | | | 07:00 | 07:00 |
| Vol. | | | 328 | 320 | 322 | 326 | 336 | 306 | | | | | | | 329 | 317 |
| PM Peak | | | 16:00 | 16:00 | 16:00 | 16:00 | | | | | | | | | 16:00 | 16:00 |
| Vol. | | | 424 | 530 | 479 | 543 | | | | | | | | | 452 | 536 |
| Comb. Tota | | 0 | | 8932 | | 8977 | | 2101 | | 0 | | 0 | | 0 | | 8962 |
| ADT | Г | ADT 8 | 3,954 | А | ADT 8,954 | | | | | | | | | | | |

I-64 EIS counts

3656 E. Stratford Road Virginia Beach, VA 23455 (757) 464-5129

I-64 EIS #25003

I-64 WB on ramp fm WB Jefferson I-64 WB on ramp fm EB Jefferson

| Start | 11-Apı | ·-11 | Т | ue | W | 'ed | TI | nu | F | ri | S | at | Sun | | Week Av | verage |
|--------------|------------|---------|---------|---------|-----------|---------|---------|---------|---------|---------|---------|---------|-----|--------|---------|---------|
| Time | fm WB Jeff | fm EB J | fm WB J | fm EB J | fm WB J | fm EB J | fm WB J | fm EB J | fm WB J | fm EB J | fm WB J | fm EB J | | m EB J | | fm ĔB J |
| 12:00 AM | * | * | 31 | 0 | 25 | 0 | 30 | 0 | * | * | * | * | * | * | 29 | 0 |
| 01:00 | * | * | 27 | 0 | 15 | 0 | 25 | 0 | * | * | * | * | * | * | 22 | 0 |
| 02:00 | * | * | 18 | 0 | 10 | 0 | 15 | 0 | * | * | * | * | * | * | 14 | 0 |
| 03:00 | * | * | 19 | 0 | 12 | 0 | 21 | 0 | * | * | * | * | * | * | 17 | 0 |
| 04:00 | * | * | 57 | 0 | 42 | 1 | 61 | 0 | * | * | * | * | * | * | 53 | 0 |
| 05:00 | * | * | 132 | 2 | 159 | 1 | 173 | 0 | * | * | * | * | * | * | 155 | 1 |
| 06:00 | * | * | 389 | 2 | 425 | 0 | 398 | 0 | * | * | * | * | * | * | 404 | 1 |
| 07:00 | * | * | 480 | 4 | 478 | 0 | 533 | 1 | * | * | * | * | * | * | 497 | 2 |
| 08:00 | * | * | 425 | 0 | 460 | 11 | 418 | 4 | * | * | * | * | * | * | 434 | 5 |
| 09:00 | * | * | 314 | 4 | 301 | 4 | * | * | * | * | * | * | * | * | 308 | 4 |
| 10:00 | * | * | 268 | 2 | 251 | 3 | * | * | * | * | * | * | * | * | 260 | 2 |
| 11:00 | * | * | 245 | 4 | 240 | 3 | * | * | * | * | * | * | * | * | 242 | 4 |
| 12:00 PM | * | * | 254 | 5 | 256 | 4 | * | * | * | * | * | * | * | * | 255 | 4 |
| 01:00 | * | * | 255 | 2 | 291 | 5 | * | * | * | * | * | * | * | * | 273 | 4 |
| 02:00 | * | * | 294 | 9 | 319 | 6 | * | * | * | * | * | * | * | * | 306 | 8 |
| 03:00 | * | * | 309 | 6 | 466 | 5 | * | * | * | * | * | * | * | * | 388 | 6 |
| 04:00 | * | * | 326 | 6 | 463 | 9 | * | * | * | * | * | * | * | * | 394 | 8 |
| 05:00 | * | * | 337 | 3 | 374 | 6 | * | * | * | * | * | * | * | * | 356 | 4 |
| 06:00 | * | * | 213 | 1 | 296 | 1 | * | * | * | * | * | * | * | * | 254 | 1 |
| 07:00 | * | * | 173 | 1 | 178 | 2 | * | * | * | * | * | * | * | * | 176 | 2 |
| 08:00 | * | * | 166 | 0 | 140 | 2 | * | * | * | * | * | * | * | * | 153 | 1 |
| 09:00 | * | * | 145 | 0 | 115 | 0 | * | * | * | * | * | * | * | * | 130 | 0 |
| 10:00 | * | * | 94 | 0 | 74 | 3 | * | * | * | * | * | * | * | * | 84 | 2 |
| 11:00 | * | * | 43 | 0 | 42 | 1 | * | * | * | * | * | * | * | * | 42 | 0 |
| Lane | 0 | 0 | 5014 | 51 | 5432 | 67 | 1674 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 5246 | 59 |
| Day | 0 | | 506 | | 549 | | 167 | | 0 | | 0 | | 0 | | 5305 | |
| AM Peak | | | 07:00 | 07:00 | 07:00 | 08:00 | 07:00 | 08:00 | | | | | | | 07:00 | 08:00 |
| Vol. | | | 480 | 4 | 478 | 11 | 533 | 4 | | | | | | | 497 | 5 |
| PM Peak | | | 17:00 | 14:00 | 15:00 | 16:00 | | | | | | | | | 16:00 | 14:00 |
| Vol. | | | 337 | 9 | 466 | 9 | | | | | | | | | 394 | 8 |
| Comb Tota | | 0 | | 5065 | | 5499 | | 1679 | | 0 | | 0 | | 0 | | 5305 |
| AD | Т | ADT : | 5,282 | Д | ADT 5,282 | | | | | | | | | | | |

I-64 EIS counts

3656 E. Stratford Road Virginia Beach, VA 23455 (757) 464-5129

I-64 EIS #25004

I-64 WB off ramp to WB Ft Eustis

| Start | Mon | Tue | Wed | Thu | Fri | Avera | ge Sat | Sun | Week | |
|-----------------|-----------|-----------|-------|---------|-----------|--------|--------|--------------|---------|-----|
| Time | 11-Apr-11 | 12-Apr-11 | | | 15-Apr-11 | Day | | | Average | |
| 12:00 AM | * | 73 | 61 | 71 | * | 68 | | * | 68 🔲 | |
| 01:00 | * | 38 | 27 | 34 | * | 33 | * | * | 33 | |
| 02:00 | * | 48 | 41 | 44 | * | 44 | | * | 44 | |
| 03:00 | * | 40 | 37 | 26 | * | 34 | * | * | 34 | |
| 04:00 | * | 114 | 102 | 99 | * | 105 | * | * | 105 | |
| 05:00 | * | 551 | 583 | 469 | * | 534 | * | * | 534 | |
| 06:00 | * | 996 | 951 | 1023 | * | 990 | * | * | 990 | |
| 07:00 | * | 1092 | 1100 | 1131 | * | 1108 | * | * | 1108 | |
| 08:00 | * | 766 | 712 | 721 | * | 733 | | * | 733 | |
| 09:00 | * | 467 | 526 | * | * | 496 | * | * | 496 | |
| 10:00 | * | 352 | 406 | * | * | 379 | | * | 379 | |
| 11:00 | * | 376 | 375 | * | * | 376 | | * | 376 | |
| 12:00 PM | * | 514 | 498 | * | * | 506 | * | * | 506 | |
| 01:00 | * | 483 | 489 | * | * | 486 | | * | 486 | |
| 02:00 | * | 472 | 414 | * | * | 443 | | * | 443 | |
| 03:00 | * | 638 | 359 | * | * | 498 | | * | 498 | |
| 04:00 | * | 484 | 502 | * | * | 493 | | * | 493 | |
| 05:00 | * | 533 | 545 | * | * | 539 | | * | 539 | |
| 06:00 | * | 369 | 390 | * | * | 380 | | * | 380 | |
| 07:00 | * | 315 | 313 | * | * | 314 | | * | 314 | |
| 08:00 | * | 254 | 292 | * | * | 273 | | * | 273 | |
| 09:00 | * | 216 | 257 | * | * | 236 | | * | 236 | |
| 10:00 | * | 172 | 157 | * | * | 164 | | * | 164 | |
| 11:00 | * | 105 | 108 | * | * | 106 | | * | 106 | |
| Day Total | 0 | 9468 | 9245 | 3618 | 0 | 9338 | | 0 | 9338 | |
| % Avg. WkDay | 0.0% | 101.4% | 99.0% | 38.7% | 0.0% | | | | | |
| Avg. Week | 0.0% | 101.4% | 99.0% | 38.7% | 0.0% | 100.0% | 0.0% | 0.0% | | |
| AM Peak | | 07:00 | 07:00 | 07:00 | | 07:00 | | - | 07:00 | |
| Vol. | | 1092 | 1100 | 1131 | | 1108 | | | 1108 | |
| PM Peak | | 15:00 | 17:00 | | | 17:00 | | | 17:00 | , |
| Vol. | | 638 | 545 | | | 539 | | | 539 | |
| Grand Tota | | | | 9245 36 | 518 | 0 | 9338 | 0 | | 338 |

I-64 EIS counts

ADT

ADT 9,297

AADT 9,297

3656 E. Stratford Road Virginia Beach, VA 23455 (757) 464-5129

I-64 EIS #25005-06

I-64 EB off ramp to WB Ft Eustis I-64 EB on ramp fm WB Ft Eustis

| Start | 11-Ap | r-11 | Т | ue | W | 'ed | Т | hu | Fr | i | Sa | at | Sı | ın | Week Av | erage |
|----------------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|---------|-------|
| Time | EB off | EB on | EB off | EB on |
| 12:00 AM | * | * | 22 | 55 | 23 | 54 | 18 | 41 | * | * | * | * | * | * | 21 | 50 |
| 01:00 | * | * | 18 | 29 | 10 | 27 | 16 | 43 | * | * | * | * | * | * | 15 | 33 |
| 02:00 | * | * | 16 | 14 | 14 | 13 | 13 | 21 | * | * | * | * | * | * | 14 | 16 |
| 03:00 | * | * | 28 | 24 | 28 | 21 | 12 | 25 | * | * | * | * | * | * | 23 | 23 |
| 04:00 | * | * | 61 | 37 | 56 | 30 | 71 | 32 | * | * | * | * | * | * | 63 | 33 |
| 05:00 | * | * | 230 | 147 | 216 | 194 | 200 | 112 | * | * | * | * | * | * | 215 | 151 |
| 06:00 | * | * | 546 | 186 | 457 | 348 | 451 | 351 | * | * | * | * | * | * | 485 | 295 |
| 07:00 | * | * | 826 | 200 | 651 | 495 | 575 | 472 | * | * | * | * | * | * | 684 | 389 |
| 08:00 | * | * | 623 | 143 | 399 | 353 | 436 | 320 | * | * | * | * | * | * | 486 | 272 |
| 09:00 | * | * | 428 | 108 | 305 | 204 | * | * | * | * | * | * | * | * | 366 | 156 |
| 10:00 | * | * | 341 | 151 | 267 | 167 | * | * | * | * | * | * | * | * | 304 | 159 |
| 11:00 | * | * | 271 | 145 | 260 | 162 | * | * | * | * | * | * | * | * | 266 | 154 |
| 12:00 PM | * | * | 289 | 187 | 276 | 189 | * | * | * | * | * | * | * | * | 282 | 188 |
| 01:00 | * | * | 270 | 139 | 278 | 191 | * | * | * | * | * | * | * | * | 274 | 165 |
| 02:00 | * | * | 303 | 138 | 320 | 189 | * | * | * | * | * | * | * | * | 312 | 164 |
| 03:00 | * | * | 393 | 129 | 325 | 318 | * | * | * | * | * | * | * | * | 359 | 224 |
| 04:00 | * | * | 401 | 206 | 460 | 291 | * | * | * | * | * | * | * | * | 430 | 248 |
| 05:00 | * | * | 323 | 249 | 340 | 282 | * | * | * | * | * | * | * | * | 332 | 266 |
| 06:00 | * | * | 228 | 174 | 244 | 183 | * | * | * | * | * | * | * | * | 236 | 178 |
| 07:00 | * | * | 136 | 112 | 144 | 118 | * | * | * | * | * | * | * | * | 140 | 115 |
| 08:00 | * | * | 88 | 108 | 110 | 129 | * | * | * | * | * | * | * | * | 99 | 118 |
| 09:00 | * | * | 85 | 108 | 98 | 113 | * | * | * | * | * | * | * | * | 92 | 110 |
| 10:00 | * | * | 51 | 82 | 71 | 71 | * | * | * | * | * | * | * | * | 61 | 76 |
| 11:00 | * | * | 35 | 84 | 42 | 91 | * | * | * | * | * | * | * | * | 38 | 88 |
| Lane | 0 | 0 | 6012 | 2955 | 5394 | 4233 | 1792 | 1417 | 0 | 0 | 0 | 0 | 0 | 0 | 5597 | 3671 |
| Day | 0 | | 896 | | 962 | | 320 | | 0 | | 0 | | 0 | | 9268 | |
| AM Peak | | | 07:00 | 07:00 | 07:00 | 07:00 | 07:00 | 07:00 | | | | | | | 07:00 | 07:00 |
| Vol. | | | 826 | 200 | 651 | 495 | 575 | 472 | | | | | | | 684 | 389 |
| PM Peak | | | 16:00 | 17:00 | 16:00 | 15:00 | | | | | | | | | 16:00 | 17:00 |
| Vol. | | | 401 | 249 | 460 | 318 | | | | | | | | | 430 | 266 |
| Comb. Total | | 0 | | 8967 | | 9627 | | 3209 | | 0 | | 0 | | 0 | | 9268 |

I-64 EIS counts

3656 E. Stratford Road Virginia Beach, VA 23455 (757) 464-5129

I-64 EIS #25007-08

I-64 EB on ramp fm EB Ft Eustis I-64 EB off ramp to EB Ft Eustis

| Start | 11-Ap | r-11 | Т | ue | W | ed | Т | hu | F | ri | Sa | at | Sı | un | Week A | Average |
|----------------|-------|--------|-------|--------|------------|--------|-------|--------|-------|--------|-------|--------|-------|--------|--------|---------|
| Time | EB on | EB off | EB on | EB off | EB on | EB off | EB on | EB off | EB on | EB off | EB on | EB off | EB on | EB off | EB on | EB off |
| 12:00 AM | * | * | * | * | 134 | 45 | 128 | 35 | * | * | * | * | * | * | 131 | 40 |
| 01:00 | * | * | * | * | 63 | 15 | 52 | 10 | * | * | * | * | * | * | 58 | 12 |
| 02:00 | * | * | * | * | 49 | 17 | 52 | 26 | * | * | * | * | * | * | 50 | 22 |
| 03:00 | * | * | * | * | 41 | 6 | 27 | 14 | * | * | * | * | * | * | 34 | 10 |
| 04:00 | * | * | * | * | 78 | 24 | 71 | 24 | * | * | * | * | * | * | 74 | 24 |
| 05:00 | * | * | * | * | 203 | 77 | 230 | 74 | * | * | * | * | * | * | 216 | 76 |
| 06:00 | * | * | * | * | 512 | 210 | 505 | 225 | * | * | * | * | * | * | 508 | 218 |
| 07:00 | * | * | * | * | 720 | 335 | 722 | 310 | * | * | * | * | * | * | 721 | 322 |
| 08:00 | * | * | * | * | 603 | 256 | 584 | 249 | * | * | * | * | * | * | 594 | 252 |
| 09:00 | * | * | * | * | 460 | 204 | * | * | * | * | * | * | * | * | 460 | 204 |
| 10:00 | * | * | * | * | 511 | 180 | * | * | * | * | * | * | * | * | 511 | 180 |
| 11:00 | * | * | * | * | 575 | 181 | * | * | * | * | * | * | * | * | 575 | 181 |
| 12:00 PM | * | * | * | * | 517 | 134 | * | * | * | * | * | * | * | * | 517 | 134 |
| 01:00 | * | * | * | * | 480 | 196 | * | * | * | * | * | * | * | * | 480 | 196 |
| 02:00 | * | * | * | * | 803 | 246 | * | * | * | * | * | * | * | * | 803 | 246 |
| 03:00 | * | * | * | * | 946 | 569 | * | * | * | * | * | * | * | * | 946 | 569 |
| 04:00 | * | * | 1289 | 362 | 1281 | 405 | * | * | * | * | * | * | * | * | 1285 | 384 |
| 05:00 | * | * | 1002 | 378 | 1006 | 369 | * | * | * | * | * | * | * | * | 1004 | 374 |
| 06:00 | * | * | 543 | 263 | 547 | 268 | * | * | * | * | * | * | * | * | 545 | 266 |
| 07:00 | * | * | 271 | 188 | 305 | 204 | * | * | * | * | * | * | * | * | 288 | 196 |
| 08:00 | * | * | 157 | 154 | 215 | 151 | * | * | * | * | * | * | * | * | 186 | 152 |
| 09:00 | * | * | 157 | 159 | 191 | 149 | * | * | * | * | * | * | * | * | 174 | 154 |
| 10:00 | * | * | 128 | 109 | 139 | 112 | * | * | * | * | * | * | * | * | 134 | 110 |
| 11:00 | * | * | 91 | 77 | 82 | 71 | * | * | * | * | * | * | * | * | 86 | 74 |
| Lane | 0 | 0 | 3638 | 1690 | 10461 | 4424 | 2371 | 967 | 0 | 0 | 0 | 0 | 0 | 0 | 10380 | 4396 |
| Day | 0 | | 532 | 28 | 1488 | 35 | 333 | 88 | 0 | | 0 | | 0 | | 147 | 76 |
| AM Peak | | | | | 07:00 | 07:00 | 07:00 | 07:00 | | | | | | | 07:00 | 07:00 |
| Vol. | | | | | 720 | 335 | 722 | 310 | | | | | | | 721 | 322 |
| PM Peak | | | 16:00 | 17:00 | 16:00 | 15:00 | | | | | | | | | 16:00 | 15:00 |
| Vol. | | | 1289 | 378 | 1281 | 569 | | | | | | | | | 1285 | 569 |
| Comb. Total | | 0 | | 5328 | | 14885 | | 3338 | | 0 | | 0 | | 0 | | 14776 |
| ADT | | ADT 1 | 4,885 | A | ADT 14,885 | | | | | | | | | | | |

I-64 EIS counts

3656 E. Stratford Road Virginia Beach, VA 23455 (757) 464-5129

I-64 EIS #25501-02

I-64 WB on ramp fm EB Jefferson I-64 WB off ramp to EB Jefferson

| Start | 18-Ap | or-11 | Т | ue | W | ed | Т | hu . | F | ri | S | | Sı | ın | Week A | verage |
|----------------|-------|--------|-------|--------|-----------|--------|-------|--------|-------|--------|-------|--------|-------|--------|--------|--------|
| Time | WB on | WB off | WB on | WB off | WB on | WB off | WB on | WB off | WB on | WB off | WB on | WB off | WB on | WB off | WB on | WB off |
| 12:00 AM | * | * | 19 | 16 | 22 | 15 | 32 | 18 | * | * | * | * | * | * | 24 | 16 |
| 01:00 | * | * | 16 | 10 | 5 | 12 | 10 | 16 | * | * | * | * | * | * | 10 | 13 |
| 02:00 | * | * | 14 | 6 | 9 | 6 | 8 | 6 | * | * | * | * | * | * | 10 | 6 |
| 03:00 | * | * | 15 | 6 | 10 | 5 | 8 | 5 | * | * | * | * | * | * | 11 | 5 |
| 04:00 | * | * | 14 | 10 | 19 | 9 | 13 | 12 | * | * | * | * | * | * | 15 | 10 |
| 05:00 | * | * | 96 | 35 | 83 | 25 | 66 | 28 | * | * | * | * | * | * | 82 | 29 |
| 06:00 | * | * | 102 | 95 | 133 | 102 | 149 | 113 | * | * | * | * | * | * | 128 | 103 |
| 07:00 | * | * | 178 | 80 | 195 | 83 | 166 | 84 | * | * | * | * | * | * | 180 | 82 |
| 08:00 | * | * | 152 | 106 | 175 | 129 | 149 | 114 | * | * | * | * | * | * | 159 | 116 |
| 09:00 | * | * | 124 | 144 | 137 | 158 | 137 | 140 | * | * | * | * | * | * | 133 | 147 |
| 10:00 | * | * | 140 | 144 | 127 | 153 | 112 | 169 | * | * | * | * | * | * | 126 | 155 |
| 11:00 | * | * | 136 | 189 | 131 | 216 | 120 | 252 | * | * | * | * | * | * | 129 | 219 |
| 12:00 PM | * | * | 153 | 212 | 168 | 204 | 145 | 248 | * | * | * | * | * | * | 155 | 221 |
| 01:00 | * | * | 138 | 162 | 145 | 219 | 147 | 203 | * | * | * | * | * | * | 143 | 195 |
| 02:00 | * | * | 157 | 185 | 171 | 201 | 151 | 192 | * | * | * | * | * | * | 160 | 193 |
| 03:00 | * | * | 148 | 231 | 160 | 236 | 179 | 291 | * | * | * | * | * | * | 162 | 253 |
| 04:00 | * | * | 119 | 402 | 150 | 345 | 131 | 409 | * | * | * | * | * | * | 133 | 385 |
| 05:00 | * | * | 164 | 397 | 158 | 376 | 122 | 377 | * | * | * | * | * | * | 148 | 383 |
| 06:00 | * | * | 126 | 270 | 132 | 233 | * | * | * | * | * | * | * | * | 129 | 252 |
| 07:00 | * | * | 115 | 226 | 114 | 187 | * | * | * | * | * | * | * | * | 114 | 206 |
| 08:00 | * | * | 112 | 141 | 111 | 163 | * | * | * | * | * | * | * | * | 112 | 152 |
| 09:00 | * | * | 90 | 93 | 94 | 82 | * | * | * | * | * | * | * | * | 92 | 88 |
| 10:00 | * | * | 36 | 57 | 65 | 53 | * | * | * | * | * | * | * | * | 50 | 55 |
| 11:00 | * | * | 36 | 25 | 45 | 31 | * | * | * | * | * | * | * | * | 40 | 28 |
| Lane | 0 | 0 | 2400 | 3242 | 2559 | 3243 | 1845 | 2677 | 0 | 0 | 0 | 0 | 0 | 0 | 2445 | 3312 |
| Day | 0 | | 564 | | 580 | | 452 | | 0 | | 0 | | 0 | | 575 | |
| AM Peak | | | 07:00 | 11:00 | 07:00 | 11:00 | 07:00 | 11:00 | | | | | | | 07:00 | 11:00 |
| Vol. | | | 178 | 189 | 195 | 216 | 166 | 252 | | | | | | | 180 | 219 |
| PM Peak | | | 17:00 | 16:00 | 14:00 | 17:00 | 15:00 | 16:00 | | | | | | | 15:00 | 16:00 |
| Vol. | | | 164 | 402 | 171 | 376 | 179 | 409 | | | | | | | 162 | 385 |
| Comb. Total | | 0 | | 5642 | | 5802 | | 4522 | | 0 | | 0 | | 0 | | 5757 |
| ADT | - | ADT : | 5,722 | А | ADT 5,722 | | | | | | | | | | | |

I-64 EIS counts

ADT

ADT 23,726

AADT 23,726

3656 E. Stratford Road Virginia Beach, VA 23455 (757) 464-5129

I-64 EIS #25503-04

I-64 WB on ramp fm WB Jefferson I-64 WB off ramp to WB Jefferson

| Start | 18-Ap | or-11 | Т | ue | V | /ed | Т | hu | F | ri | S | at | S | un | Week A | Average |
|----------------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|--------|---------|
| Time | WB on | WB off | WB on | WB off |
| 12:00 AM | * | * | 37 | 201 | 34 | 212 | 41 | 209 | * | * | * | * | * | * | 37 | 207 |
| 01:00 | * | * | 23 | 108 | 24 | 119 | 27 | 130 | * | * | * | * | * | * | 25 | 119 |
| 02:00 | * | * | 14 | 67 | 15 | 66 | 22 | 72 | * | * | * | * | * | * | 17 | 68 |
| 03:00 | * | * | 25 | 75 | 19 | 81 | 22 | 88 | * | * | * | * | * | * | 22 | 81 |
| 04:00 | * | * | 50 | 148 | 38 | 136 | 38 | 133 | * | * | * | * | * | * | 42 | 139 |
| 05:00 | * | * | 138 | 306 | 143 | 320 | 140 | 311 | * | * | * | * | * | * | 140 | 312 |
| 06:00 | * | * | 293 | 760 | 301 | 760 | 334 | 739 | * | * | * | * | * | * | 309 | 753 |
| 07:00 | * | * | 407 | 1111 | 424 | 1115 | 396 | 1124 | * | * | * | * | * | * | 409 | 1117 |
| 08:00 | * | * | 380 | 1040 | 357 | 1068 | 348 | 1116 | * | * | * | * | * | * | 362 | 1075 |
| 09:00 | * | * | 289 | 957 | 341 | 919 | 295 | 932 | * | * | * | * | * | * | 308 | 936 |
| 10:00 | * | * | 276 | 848 | 290 | 850 | 275 | 908 | * | * | * | * | * | * | 280 | 869 |
| 11:00 | * | * | 341 | 941 | 287 | 931 | 244 | 901 | * | * | * | * | * | * | 291 | 924 |
| 12:00 PM | * | * | 304 | 983 | 355 | 1051 | 341 | 998 | * | * | * | * | * | * | 333 | 1011 |
| 01:00 | * | * | 363 | 822 | 395 | 1038 | 404 | 1018 | * | * | * | * | * | * | 387 | 959 |
| 02:00 | * | * | 350 | 981 | 404 | 1110 | 375 | 1086 | * | * | * | * | * | * | 376 | 1059 |
| 03:00 | * | * | 419 | 1297 | 394 | 1250 | 443 | 1140 | * | * | * | * | * | * | 419 | 1229 |
| 04:00 | * | * | 355 | 1249 | 416 | 1313 | 264 | 1224 | * | * | * | * | * | * | 345 | 1262 |
| 05:00 | * | * | 402 | 1246 | 414 | 1234 | 305 | 1209 | * | * | * | * | * | * | 374 | 1230 |
| 06:00 | * | * | 330 | 1165 | 286 | 1187 | * | * | * | * | * | * | * | * | 308 | 1176 |
| 07:00 | * | * | 277 | 946 | 251 | 942 | * | * | * | * | * | * | * | * | 264 | 944 |
| 08:00 | * | * | 221 | 880 | 274 | 920 | * | * | * | * | * | * | * | * | 248 | 900 |
| 09:00 | * | * | 177 | 718 | 198 | 736 | * | * | * | * | * | * | * | * | 188 | 727 |
| 10:00 | * | * | 113 | 475 | 146 | 498 | * | * | * | * | * | * | * | * | 130 | 486 |
| 11:00 | * | * | 66 | 334 | 68 | 415 | * | * | * | * | * | * | * | * | 67 | 374 |
| Lane | 0 | 0 | 5650 | 17658 | 5874 | 18271 | 4314 | 13338 | 0 | 0 | 0 | 0 | 0 | 0 | 5681 | 17957 |
| Day | 0 | 1 | 233 | | 241 | | 176 | | 0 | | 0 | | 0 | | 2363 | |
| AM Peak | | | 07:00 | 07:00 | 07:00 | 07:00 | 07:00 | 07:00 | | | | | | | 07:00 | 07:00 |
| Vol. | | | 407 | 1111 | 424 | 1115 | 396 | 1124 | | | | | | | 409 | 1117 |
| PM Peak | | | 15:00 | 15:00 | 16:00 | 16:00 | 15:00 | 16:00 | | | | | | | 15:00 | 16:00 |
| Vol. | | | 419 | 1297 | 416 | 1313 | 443 | 1224 | | | | | | | 419 | 1262 |
| Comb. Total | | 0 | | 23308 | | 24145 | | 17652 | | 0 | | 0 | | 0 | | 23638 |

I-64 EIS counts

3656 E. Stratford Road Virginia Beach, VA 23455 (757) 464-5129

I-64 EIS #25505-06

I-64 EB on ramp fm WB Jefferson I-64 EB off ramp to WB Jefferson

| Start | 18-Ap | r-11 | Т | ue | W | 'ed | Т | hu | F | ri | S | at | Sı | un | Week A | verage |
|----------------|-------|--------|-------|--------|-----------|--------|-------|--------|-------|--------|-------|--------|-------|--------|--------|--------|
| Time | EB on | EB off | EB on | EB off | EB on | EB off | EB on | EB off | EB on | EB off | EB on | EB off | EB on | EB off | EB on | EB off |
| 12:00 AM | * | * | 25 | 16 | 29 | 22 | 20 | 19 | * | * | * | * | * | * | 25 | 19 |
| 01:00 | * | * | 13 | 12 | 16 | 11 | 18 | 10 | * | * | * | * | * | * | 16 | 11 |
| 02:00 | * | * | 18 | 15 | 9 | 20 | 16 | 10 | * | * | * | * | * | * | 14 | 15 |
| 03:00 | * | * | 7 | 15 | 6 | 20 | 2 | 8 | * | * | * | * | * | * | 5 | 14 |
| 04:00 | * | * | 6 | 28 | 3 | 20 | 7 | 21 | * | * | * | * | * | * | 5 | 23 |
| 05:00 | * | * | 31 | 43 | 29 | 49 | 25 | 36 | * | * | * | * | * | * | 28 | 43 |
| 06:00 | * | * | 57 | 98 | 64 | 100 | 57 | 99 | * | * | * | * | * | * | 59 | 99 |
| 07:00 | * | * | 109 | 213 | 104 | 168 | 127 | 169 | * | * | * | * | * | * | 113 | 183 |
| 08:00 | * | * | 89 | 132 | 95 | 156 | 96 | 144 | * | * | * | * | * | * | 93 | 144 |
| 09:00 | * | * | 93 | 145 | 98 | 134 | 103 | 146 | * | * | * | * | * | * | 98 | 142 |
| 10:00 | * | * | 121 | 130 | 129 | 123 | 143 | 133 | * | * | * | * | * | * | 131 | 129 |
| 11:00 | * | * | 162 | 122 | 186 | 161 | 164 | 177 | * | * | * | * | * | * | 171 | 153 |
| 12:00 PM | * | * | 203 | 154 | 259 | 153 | 212 | 184 | * | * | * | * | * | * | 225 | 164 |
| 01:00 | * | * | 235 | 129 | 244 | 145 | 226 | 133 | * | * | * | * | * | * | 235 | 136 |
| 02:00 | * | * | 189 | 141 | 239 | 169 | 237 | 174 | * | * | * | * | * | * | 222 | 161 |
| 03:00 | * | * | 220 | 160 | 244 | 149 | 217 | 192 | * | * | * | * | * | * | 227 | 167 |
| 04:00 | * | * | 210 | 192 | 235 | 171 | 213 | 173 | * | * | * | * | * | * | 219 | 179 |
| 05:00 | * | * | 275 | 193 | 262 | 214 | 249 | 155 | * | * | * | * | * | * | 262 | 187 |
| 06:00 | * | * | 279 | 126 | 214 | 168 | * | * | * | * | * | * | * | * | 246 | 147 |
| 07:00 | * | * | 229 | 146 | 260 | 121 | * | * | * | * | * | * | * | * | 244 | 134 |
| 08:00 | * | * | 223 | 92 | 225 | 124 | * | * | * | * | * | * | * | * | 224 | 108 |
| 09:00 | * | * | 235 | 53 | 208 | 87 | * | * | * | * | * | * | * | * | 222 | 70 |
| 10:00 | * | * | 128 | 55 | 86 | 55 | * | * | * | * | * | * | * | * | 107 | 55 |
| 11:00 | * | * | 54 | 39 | 54 | 52 | * | * | * | * | * | * | * | * | 54 | 46 |
| Lane | 0 | 0 | 3211 | 2449 | 3298 | 2592 | 2132 | 1983 | 0 | 0 | 0 | 0 | 0 | 0 | 3245 | 2529 |
| Day | 0 | | 566 | 60 | 589 | 0 | 411 | 15 | 0 | | 0 | | 0 | | 577 | 4 |
| AM Peak | | | 11:00 | 07:00 | 11:00 | 07:00 | 11:00 | 11:00 | | | | | | | 11:00 | 07:00 |
| Vol. | | | 162 | 213 | 186 | 168 | 164 | 177 | | | | | | | 171 | 183 |
| PM Peak | | | 18:00 | 17:00 | 17:00 | 17:00 | 17:00 | 15:00 | | | | | | | 17:00 | 17:00 |
| Vol. | | | 279 | 193 | 262 | 214 | 249 | 192 | | | | | | | 262 | 187 |
| Comb. Total | | 0 | | 5660 | | 5890 | | 4115 | | 0 | | 0 | | 0 | | 5774 |
| ADT | | ADT : | 5,775 | А | ADT 5,775 | | | | | | | | | | | |

I-64 EIS counts

ADT

ADT 23,684

AADT 23,684

3656 E. Stratford Road Virginia Beach, VA 23455 (757) 464-5129

I-64 EIS #25507-08

I-64 EB on ramp fm EB Jefferson I-64 EB off ramp to EB Jefferson

| Start | 18-Ap | r-11 | Т | ue | W | ed | Т | hu . | F | ri | S | at | Sı | ın | Week A | Average |
|----------------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|--------|---------|
| Time | EB on | EB off | EB on | EB off |
| 12:00 AM | * | * | 153 | 67 | 138 | 70 | 197 | 71 | * | * | * | * | * | * | 163 | 69 |
| 01:00 | * | * | 57 | 28 | 92 | 26 | 90 | 48 | * | * | * | * | * | * | 80 | 34 |
| 02:00 | * | * | 49 | 15 | 51 | 26 | 57 | 19 | * | * | * | * | * | * | 52 | 20 |
| 03:00 | * | * | 65 | 16 | 85 | 22 | 55 | 18 | * | * | * | * | * | * | 68 | 19 |
| 04:00 | * | * | 192 | 34 | 164 | 27 | 173 | 34 | * | * | * | * | * | * | 176 | 32 |
| 05:00 | * | * | 555 | 136 | 562 | 122 | 545 | 127 | * | * | * | * | * | * | 554 | 128 |
| 06:00 | * | * | 1114 | 319 | 1091 | 315 | 1092 | 312 | * | * | * | * | * | * | 1099 | 315 |
| 07:00 | * | * | 1432 | 505 | 1483 | 470 | 1430 | 522 | * | * | * | * | * | * | 1448 | 499 |
| 08:00 | * | * | 1052 | 450 | 1042 | 522 | 1074 | 440 | * | * | * | * | * | * | 1056 | 471 |
| 09:00 | * | * | 873 | 438 | 852 | 418 | 869 | 394 | * | * | * | * | * | * | 865 | 417 |
| 10:00 | * | * | 755 | 331 | 787 | 379 | 814 | 382 | * | * | * | * | * | * | 785 | 364 |
| 11:00 | * | * | 773 | 378 | 735 | 416 | 737 | 386 | * | * | * | * | * | * | 748 | 393 |
| 12:00 PM | * | * | 832 | 393 | 876 | 443 | 743 | 456 | * | * | * | * | * | * | 817 | 431 |
| 01:00 | * | * | 809 | 395 | 883 | 396 | 885 | 414 | * | * | * | * | * | * | 859 | 402 |
| 02:00 | * | * | 869 | 452 | 904 | 435 | 933 | 423 | * | * | * | * | * | * | 902 | 437 |
| 03:00 | * | * | 988 | 465 | 1069 | 454 | 1068 | 482 | * | * | * | * | * | * | 1042 | 467 |
| 04:00 | * | * | 1079 | 468 | 1177 | 377 | 1175 | 364 | * | * | * | * | * | * | 1144 | 403 |
| 05:00 | * | * | 1321 | 433 | 1281 | 502 | 1295 | 347 | * | * | * | * | * | * | 1299 | 427 |
| 06:00 | * | * | 951 | 395 | 1018 | 451 | * | * | * | * | * | * | * | * | 984 | 423 |
| 07:00 | * | * | 736 | 324 | 730 | 363 | * | * | * | * | * | * | * | * | 733 | 344 |
| 08:00 | * | * | 681 | 284 | 744 | 300 | * | * | * | * | * | * | * | * | 712 | 292 |
| 09:00 | * | * | 557 | 221 | 595 | 232 | * | * | * | * | * | * | * | * | 576 | 226 |
| 10:00 | * | * | 372 | 124 | 457 | 145 | * | * | * | * | * | * | * | * | 414 | 134 |
| 11:00 | * | * | 249 | 97 | 248 | 112 | * | * | * | * | * | * | * | * | 248 | 104 |
| Lane | 0 | 0 | 16514 | 6768 | 17064 | 7023 | 13232 | 5239 | 0 | 0 | 0 | 0 | 0 | 0 | 16824 | 6851 |
| Day | 0 | | 232 | 82 | 240 | 37 | 184 | 71 | 0 | | 0 | | 0 | | 2367 | 75 |
| AM Peak | | | 07:00 | 07:00 | 07:00 | 08:00 | 07:00 | 07:00 | | | | | | | 07:00 | 07:00 |
| Vol. | | | 1432 | 505 | 1483 | 522 | 1430 | 522 | | | | | | | 1448 | 499 |
| PM Peak | | | 17:00 | 16:00 | 17:00 | 17:00 | 17:00 | 15:00 | | | | | | | 17:00 | 15:00 |
| Vol. | | | 1321 | 468 | 1281 | 502 | 1295 | 482 | | | | | | | 1299 | 467 |
| Comb. Total | | 0 | | 23282 | | 24087 | | 18471 | | 0 | | 0 | | 0 | | 23675 |

I-64 EIS counts

3656 E. Stratford Road Virginia Beach, VA 23455 (757) 464-5129

I-64 EIS #25601-02

I-64 WB on ramp fm EB Oyster Pt I-64 WB off ramp to EB Victory Blvd

| Start | 11-Ap | r-11 | Т | ue | W | 'ed | Т | hu | F | ri | S | at | Sı | ın | Week A | Average |
|----------------|---------|--------|-------|--------|-----------|--------|-------|--------|-------|--------|-------|--------|-------|--------|--------|---------|
| Time | WB on ' | WB off | WB on | WB off | WB on | WB off | WB on | WB off | WB on | WB off | WB on | WB off | WB on | WB off | WB on | WB off |
| 12:00 AM | * | * | 35 | 64 | 31 | 50 | 33 | 83 | * | * | * | * | * | * | 33 | 66 |
| 01:00 | * | * | 18 | 51 | 13 | 32 | 20 | 44 | * | * | * | * | * | * | 17 | 42 |
| 02:00 | * | * | 10 | 34 | 16 | 34 | 14 | 38 | * | * | * | * | * | * | 13 | 35 |
| 03:00 | * | * | 21 | 40 | 14 | 30 | 16 | 47 | * | * | * | * | * | * | 17 | 39 |
| 04:00 | * | * | 33 | 30 | 40 | 43 | 30 | 41 | * | * | * | * | * | * | 34 | 38 |
| 05:00 | * | * | 146 | 111 | 160 | 103 | 168 | 104 | * | * | * | * | * | * | 158 | 106 |
| 06:00 | * | * | 376 | 377 | 406 | 359 | 421 | 389 | * | * | * | * | * | * | 401 | 375 |
| 07:00 | * | * | 636 | 438 | 629 | 461 | 581 | 464 | * | * | * | * | * | * | 615 | 454 |
| 08:00 | * | * | 427 | 476 | 496 | 431 | * | * | * | * | * | * | * | * | 462 | 454 |
| 09:00 | * | * | 267 | 374 | 300 | 434 | * | * | * | * | * | * | * | * | 284 | 404 |
| 10:00 | * | * | 265 | 332 | 252 | 319 | * | * | * | * | * | * | * | * | 258 | 326 |
| 11:00 | * | * | 232 | 355 | 235 | 432 | * | * | * | * | * | * | * | * | 234 | 394 |
| 12:00 PM | * | * | 301 | 439 | 283 | 409 | * | * | * | * | * | * | * | * | 292 | 424 |
| 01:00 | * | * | 296 | 436 | 276 | 443 | * | * | * | * | * | * | * | * | 286 | 440 |
| 02:00 | * | * | 266 | 507 | 293 | 474 | * | * | * | * | * | * | * | * | 280 | 490 |
| 03:00 | * | * | 285 | 626 | 292 | 910 | * | * | * | * | * | * | * | * | 288 | 768 |
| 04:00 | * | * | 312 | 716 | 293 | 765 | * | * | * | * | * | * | * | * | 302 | 740 |
| 05:00 | * | * | 333 | 685 | 334 | 876 | * | * | * | * | * | * | * | * | 334 | 780 |
| 06:00 | * | * | 264 | 524 | 317 | 601 | * | * | * | * | * | * | * | * | 290 | 562 |
| 07:00 | * | * | 191 | 363 | 226 | 401 | * | * | * | * | * | * | * | * | 208 | 382 |
| 08:00 | * | * | 175 | 339 | 175 | 365 | * | * | * | * | * | * | * | * | 175 | 352 |
| 09:00 | * | * | 124 | 254 | 110 | 277 | * | * | * | * | * | * | * | * | 117 | 266 |
| 10:00 | * | * | 66 | 211 | 86 | 184 | * | * | * | * | * | * | * | * | 76 | 198 |
| 11:00 | * | * | 58 | 122 | 53 | 107 | * | * | * | * | * | * | * | * | 56 | 114 |
| Lane | 0 | 0 | 5137 | 7904 | 5330 | 8540 | 1283 | 1210 | 0 | 0 | 0 | 0 | 0 | 0 | 5230 | 8249 |
| Day | 0 | | 130 | | 138 | | 249 | | 0 | | 0 | | 0 | | 1347 | |
| AM Peak | | | 07:00 | 08:00 | 07:00 | 07:00 | 07:00 | 07:00 | | | | | | | 07:00 | 07:00 |
| Vol. | | | 636 | 476 | 629 | 461 | 581 | 464 | | | | | | | 615 | 454 |
| PM Peak | | | 17:00 | 16:00 | 17:00 | 15:00 | | | | | | | | | 17:00 | 17:00 |
| Vol. | | | 333 | 716 | 334 | 910 | | | | | | | | | 334 | 780 |
| Comb. Total | | 0 | | 13041 | | 13870 | | 2493 | | 0 | | 0 | | 0 | | 13479 |
| ADT | - | ADT 13 | 3,456 | AA | DT 13,456 | | | | | | | | | | | |

I-64 EIS counts

3656 E. Stratford Road Virginia Beach, VA 23455 (757) 464-5129

I-64 EIS #25603-04

I-64 WB on ramp fm WB Victory I-64 WB off ramp to WB Oyster Pt

| Start | 11-Ap | or-11 | Т | ue | W | ed | Т | | | ri | S | at | S | un | Week A | |
|----------------|-------|--------|-------|--------|-----------|--------|-------|--------|-------|--------|-------|--------|-------|--------|--------|--------|
| Time | WB on | WB off | WB on | WB off | WB on | WB off | WB on | WB off | WB on | WB off | WB on | WB off | WB on | WB off | WB on | WB off |
| 12:00 AM | * | * | 15 | 43 | 11 | 32 | 13 | 45 | * | * | * | * | * | * | 13 | 40 |
| 01:00 | * | * | 4 | 22 | 5 | 19 | 5 | 11 | * | * | * | * | * | * | 5 | 17 |
| 02:00 | * | * | 6 | 7 | 9 | 8 | 8 | 9 | * | * | * | * | * | * | 8 | 8 |
| 03:00 | * | * | 2 | 18 | 5 | 3 | 5 | 13 | * | * | * | * | * | * | 4 | 11 |
| 04:00 | * | * | 6 | 12 | 8 | 21 | 8 | 17 | * | * | * | * | * | * | 7 | 17 |
| 05:00 | * | * | 25 | 54 | 38 | 54 | 21 | 60 | * | * | * | * | * | * | 28 | 56 |
| 06:00 | * | * | 92 | 129 | 82 | 153 | 95 | 131 | * | * | * | * | * | * | 90 | 138 |
| 07:00 | * | * | 130 | 261 | 134 | 239 | 126 | 248 | * | * | * | * | * | * | 130 | 249 |
| 08:00 | * | * | 148 | 256 | 153 | 250 | 168 | 247 | * | * | * | * | * | * | 156 | 251 |
| 09:00 | * | * | 97 | 232 | 133 | 241 | * | * | * | * | * | * | * | * | 115 | 236 |
| 10:00 | * | * | 124 | 215 | 101 | 210 | * | * | * | * | * | * | * | * | 112 | 212 |
| 11:00 | * | * | 101 | 218 | 114 | 212 | * | * | * | * | * | * | * | * | 108 | 215 |
| 12:00 PM | * | * | 129 | 280 | 118 | 296 | * | * | * | * | * | * | * | * | 124 | 288 |
| 01:00 | * | * | 119 | 274 | 140 | 256 | * | * | * | * | * | * | * | * | 130 | 265 |
| 02:00 | * | * | 125 | 337 | 121 | 329 | * | * | * | * | * | * | * | * | 123 | 333 |
| 03:00 | * | * | 172 | 460 | 138 | 497 | * | * | * | * | * | * | * | * | 155 | 478 |
| 04:00 | * | * | 239 | 782 | 224 | 747 | * | * | * | * | * | * | * | * | 232 | 764 |
| 05:00 | * | * | 240 | 744 | 238 | 813 | * | * | * | * | * | * | * | * | 239 | 778 |
| 06:00 | * | * | 138 | 417 | 146 | 457 | * | * | * | * | * | * | * | * | 142 | 437 |
| 07:00 | * | * | 85 | 245 | 86 | 248 | * | * | * | * | * | * | * | * | 86 | 246 |
| 08:00 | * | * | 73 | 200 | 70 | 223 | * | * | * | * | * | * | * | * | 72 | 212 |
| 09:00 | * | * | 54 | 156 | 75 | 193 | * | * | * | * | * | * | * | * | 64 | 174 |
| 10:00 | * | * | 34 | 102 | 50 | 91 | * | * | * | * | * | * | * | * | 42 | 96 |
| 11:00 | * | * | 18 | 66 | 20 | 71 | * | * | * | * | * | * | * | * | 19 | 68 |
| Lane | 0 | 0 | 2176 | 5530 | 2219 | 5663 | 449 | 781 | 0 | 0 | 0 | 0 | 0 | 0 | 2204 | 5589 |
| Day | 0 | | 770 | | 788 | | 123 | | 0 | | 0 | | 0 | | 7793 | |
| AM Peak | | | 08:00 | 07:00 | 08:00 | 08:00 | 08:00 | 07:00 | | | | | | | 08:00 | 08:00 |
| Vol. | | | 148 | 261 | 153 | 250 | 168 | 248 | | | | | | | 156 | 251 |
| PM Peak | | | 17:00 | 16:00 | 17:00 | 17:00 | | | | | | | | | 17:00 | 17:00 |
| Vol. | | | 240 | 782 | 238 | 813 | | | | | | | | | 239 | 778 |
| Comb. Total | | 0 | | 7706 | | 7882 | | 1230 | | 0 | | 0 | | 0 | | 7793 |
| ADT | | ADT | 7,794 | А | ADT 7,794 | | | | | | | | | | | |

I-64 EIS counts

3656 E. Stratford Road Virginia Beach, VA 23455 (757) 464-5129

I-64 EIS #25605-06

I-64 EB on ramp fm WB Victory I-64 EB off ramp to WB Ostyer Pt

| Start | 11-Apı | ·-11 | Т | ue | W | ed | Т | hu . | F | ri | Sa | at | Sı | un | Week A | Average |
|----------------|--------|--------|-------|--------|-----------|--------|-------|--------|-------|--------|-------|--------|-------|--------|--------|---------|
| Time | EB on | EB off | EB on | EB off | EB on | EB off | EB on | EB off | EB on | EB off | EB on | EB off | EB on | EB off | EB on | EB off |
| 12:00 AM | * | * | 77 | 34 | 70 | 35 | 57 | 32 | * | * | * | * | * | * | 68 | 34 |
| 01:00 | * | * | 34 | 14 | 32 | 11 | 42 | 18 | * | * | * | * | * | * | 36 | 14 |
| 02:00 | * | * | 20 | 14 | 18 | 17 | 29 | 23 | * | * | * | * | * | * | 22 | 18 |
| 03:00 | * | * | 24 | 8 | 34 | 6 | 27 | 9 | * | * | * | * | * | * | 28 | 8 |
| 04:00 | * | * | 88 | 7 | 88 | 12 | 88 | 9 | * | * | * | * | * | * | 88 | 9 |
| 05:00 | * | * | 261 | 48 | 249 | 43 | 253 | 47 | * | * | * | * | * | * | 254 | 46 |
| 06:00 | * | * | 633 | 135 | 649 | 148 | 639 | 154 | * | * | * | * | * | * | 640 | 146 |
| 07:00 | * | * | 875 | 220 | 876 | 250 | 884 | 242 | * | * | * | * | * | * | 878 | 237 |
| 08:00 | * | * | 726 | 206 | 681 | 237 | 672 | 282 | * | * | * | * | * | * | 693 | 242 |
| 09:00 | * | * | 475 | 162 | 510 | 208 | * | * | * | * | * | * | * | * | 492 | 185 |
| 10:00 | * | * | 472 | 143 | 429 | 173 | * | * | * | * | * | * | * | * | 450 | 158 |
| 11:00 | * | * | 393 | 162 | 431 | 219 | * | * | * | * | * | * | * | * | 412 | 190 |
| 12:00 PM | * | * | 478 | 156 | 464 | 214 | * | * | * | * | * | * | * | * | 471 | 185 |
| 01:00 | * | * | 492 | 180 | 499 | 216 | * | * | * | * | * | * | * | * | 496 | 198 |
| 02:00 | * | * | 502 | 205 | 516 | 197 | * | * | * | * | * | * | * | * | 509 | 201 |
| 03:00 | * | * | 680 | 293 | 703 | 272 | * | * | * | * | * | * | * | * | 692 | 282 |
| 04:00 | * | * | 653 | 394 | 643 | 406 | * | * | * | * | * | * | * | * | 648 | 400 |
| 05:00 | * | * | 625 | 503 | 669 | 486 | * | * | * | * | * | * | * | * | 647 | 494 |
| 06:00 | * | * | 517 | 308 | 518 | 329 | * | * | * | * | * | * | * | * | 518 | 318 |
| 07:00 | * | * | 358 | 205 | 378 | 221 | * | * | * | * | * | * | * | * | 368 | 213 |
| 08:00 | * | * | 406 | 133 | 340 | 163 | * | * | * | * | * | * | * | * | 373 | 148 |
| 09:00 | * | * | 335 | 153 | 316 | 194 | * | * | * | * | * | * | * | * | 326 | 174 |
| 10:00 | * | * | 146 | 93 | 190 | 112 | * | * | * | * | * | * | * | * | 168 | 102 |
| 11:00 | * | * | 111 | 66 | 117 | 61 | * | * | * | * | * | * | * | * | 114 | 64 |
| Lane | 0 | 0 | 9381 | 3842 | 9420 | 4230 | 2691 | 816 | 0 | 0 | 0 | 0 | 0 | 0 | 9391 | 4066 |
| Day | 0 | | 132 | | 1365 | | 350 | | 0 | | 0 | | 0 | | 134 | |
| AM Peak | | | 07:00 | 07:00 | 07:00 | 07:00 | 07:00 | 08:00 | | | | | | | 07:00 | 08:00 |
| Vol. | | | 875 | 220 | 876 | 250 | 884 | 282 | | | | | | | 878 | 242 |
| PM Peak | | | 15:00 | 17:00 | 15:00 | 17:00 | | | | | | | | | 15:00 | 17:00 |
| Vol. | | | 680 | 503 | 703 | 486 | | | | | | | | | 692 | 494 |
| Comb. Total | | 0 | | 13223 | | 13650 | | 3507 | | 0 | | 0 | | 0 | | 13457 |
| ADT | | ADT 13 | 3,436 | AA | DT 13,436 | | | | | | | | | | | |

I-64 EIS counts

3656 E. Stratford Road Virginia Beach, VA 23455 (757) 464-5129

I-64 EIS #25607-08

I-64 EB on ramp fm EB Oyster Pt I-64 EB off ramp to EB Victory

| Start | 11-Ap | r-11 | Т | ue | | ed | Т | 'hu | F | ri | Sa | at | Sı | un | Week Av | verage |
|----------------|---------|--------|-------|--------|-----------|--------|-------|--------|-------|--------|-------|--------|-------|--------|---------|--------|
| Time | EB on ' | EB off | EB on | EB off | EB on | EB off | EB on | EB off | EB on | EB off | EB on | EB off | EB on | EB off | EB on | EB off |
| 12:00 AM | * | * | 25 | 15 | 22 | 11 | 24 | 11 | * | * | * | * | * | * | 24 | 12 |
| 01:00 | * | * | 15 | 10 | 19 | 10 | 11 | 3 | * | * | * | * | * | * | 15 | 8 |
| 02:00 | * | * | 13 | 3 | 7 | 5 | 3 | 10 | * | * | * | * | * | * | 8 | 6 |
| 03:00 | * | * | 20 | 13 | 16 | 5 | 15 | 11 | * | * | * | * | * | * | 17 | 10 |
| 04:00 | * | * | 59 | 18 | 52 | 31 | 57 | 24 | * | * | * | * | * | * | 56 | 24 |
| 05:00 | * | * | 183 | 30 | 185 | 24 | 193 | 43 | * | * | * | * | * | * | 187 | 32 |
| 06:00 | * | * | 487 | 88 | 482 | 109 | 513 | 142 | * | * | * | * | * | * | 494 | 113 |
| 07:00 | * | * | 789 | 193 | 832 | 200 | 786 | 235 | * | * | * | * | * | * | 802 | 209 |
| 08:00 | * | * | 506 | 172 | 453 | 184 | 499 | 227 | * | * | * | * | * | * | 486 | 194 |
| 09:00 | * | * | 290 | 107 | 274 | 111 | * | * | * | * | * | * | * | * | 282 | 109 |
| 10:00 | * | * | 252 | 103 | 219 | 113 | * | * | * | * | * | * | * | * | 236 | 108 |
| 11:00 | * | * | 251 | 93 | 273 | 107 | * | * | * | * | * | * | * | * | 262 | 100 |
| 12:00 PM | * | * | 251 | 108 | 277 | 116 | * | * | * | * | * | * | * | * | 264 | 112 |
| 01:00 | * | * | 293 | 70 | 292 | 119 | * | * | * | * | * | * | * | * | 292 | 94 |
| 02:00 | * | * | 281 | 94 | 305 | 114 | * | * | * | * | * | * | * | * | 293 | 104 |
| 03:00 | * | * | 305 | 85 | 322 | 148 | * | * | * | * | * | * | * | * | 314 | 116 |
| 04:00 | * | * | 296 | 101 | 333 | 128 | * | * | * | * | * | * | * | * | 314 | 114 |
| 05:00 | * | * | 358 | 109 | 376 | 145 | * | * | * | * | * | * | * | * | 367 | 127 |
| 06:00 | * | * | 315 | 61 | 334 | 138 | * | * | * | * | * | * | * | * | 324 | 100 |
| 07:00 | * | * | 236 | 42 | 215 | 63 | * | * | * | * | * | * | * | * | 226 | 52 |
| 08:00 | * | * | 188 | 23 | 158 | 41 | * | * | * | * | * | * | * | * | 173 | 32 |
| 09:00 | * | * | 180 | 22 | 135 | 36 | * | * | * | * | * | * | * | * | 158 | 29 |
| 10:00 | * | * | 66 | 23 | 91 | 29 | * | * | * | * | * | * | * | * | 78 | 26 |
| 11:00 | * | * | 50 | 21 | 45 | 21 | * | * | * | * | * | * | * | * | 48 | 21 |
| Lane | 0 | 0 | 5709 | 1604 | 5717 | 2008 | 2101 | 706 | 0 | 0 | 0 | 0 | 0 | 0 | 5720 | 1852 |
| Day | 0 | | 731 | | 772 | | 280 | | 0 | | 0 | | 0 | | 7572 | |
| AM Peak | | | 07:00 | 07:00 | 07:00 | 07:00 | 07:00 | 07:00 | | | | | | | 07:00 | 07:00 |
| Vol. | | | 789 | 193 | 832 | 200 | 786 | 235 | | | | | | | 802 | 209 |
| PM Peak | | | 17:00 | 17:00 | 17:00 | 15:00 | | | | | | | | | 17:00 | 17:00 |
| Vol. | | | 358 | 109 | 376 | 148 | | | | | | | | | 367 | 127 |
| Comb. Total | | 0 | | 7313 | | 7725 | | 2807 | | 0 | | 0 | | 0 | | 7572 |
| ADT | - | ADT 1 | 7,519 | А | ADT 7,519 | | | | | | | | | | | |

I-64 EIS counts

3656 E. Stratford Road Virginia Beach, VA 23455 (757) 464-5129

I-64 EIS #25801-02

I-64 WB on ramp fm EB J Clyde Morris I-64 WB off ramp to EB J Clyde Morris

| Start | 11-Ap | or-11 | Т | ue | V | /ed | Т | hu | F | ri | S | at | S | un | Week A | Average |
|----------------|-------|--------|-------|--------|-----------|--------|-------|--------|-------|--------|-------|--------|-------|--------|--------|---------|
| Time | WB on | WB off | WB on | WB off | WB on | WB off | WB on | WB off | WB on | WB off | WB on | WB off | WB on | WB off | WB on | WB off |
| 12:00 AM | * | * | 16 | 95 | 20 | 79 | 15 | 95 | * | * | * | * | * | * | 17 | 90 |
| 01:00 | * | * | 9 | 37 | 11 | 36 | 8 | 45 | * | * | * | * | * | * | 9 | 39 |
| 02:00 | * | * | 10 | 48 | 5 | 36 | 5 | 53 | * | * | * | * | * | * | 7 | 46 |
| 03:00 | * | * | 9 | 40 | 12 | 48 | 15 | 45 | * | * | * | * | * | * | 12 | 44 |
| 04:00 | * | * | 23 | 74 | 22 | 65 | 21 | 85 | * | * | * | * | * | * | 22 | 75 |
| 05:00 | * | * | 90 | 151 | 86 | 154 | 70 | 146 | * | * | * | * | * | * | 82 | 150 |
| 06:00 | * | * | 173 | 581 | 183 | 567 | 183 | 566 | * | * | * | * | * | * | 180 | 571 |
| 07:00 | * | * | 217 | 1247 | 218 | 1187 | 225 | 1210 | * | * | * | * | * | * | 220 | 1215 |
| 08:00 | * | * | 171 | 1207 | 170 | 1121 | 157 | 1233 | * | * | * | * | * | * | 166 | 1187 |
| 09:00 | * | * | 120 | 864 | 127 | 999 | 129 | 863 | * | * | * | * | * | * | 125 | 909 |
| 10:00 | * | * | 101 | 754 | 89 | 762 | * | * | * | * | * | * | * | * | 95 | 758 |
| 11:00 | * | * | 119 | 672 | 128 | 756 | * | * | * | * | * | * | * | * | 124 | 714 |
| 12:00 PM | * | * | 105 | 730 | 116 | 830 | * | * | * | * | * | * | * | * | 110 | 780 |
| 01:00 | * | * | 126 | 794 | 144 | 746 | * | * | * | * | * | * | * | * | 135 | 770 |
| 02:00 | * | * | 109 | 761 | 120 | 742 | * | * | * | * | * | * | * | * | 114 | 752 |
| 03:00 | * | * | 135 | 877 | 133 | 818 | * | * | * | * | * | * | * | * | 134 | 848 |
| 04:00 | * | * | 177 | 906 | 159 | 917 | * | * | * | * | * | * | * | * | 168 | 912 |
| 05:00 | * | * | 172 | 897 | 171 | 1024 | * | * | * | * | * | * | * | * | 172 | 960 |
| 06:00 | * | * | 128 | 660 | 122 | 773 | * | * | * | * | * | * | * | * | 125 | 716 |
| 07:00 | * | * | 91 | 415 | 129 | 446 | * | * | * | * | * | * | * | * | 110 | 430 |
| 08:00 | * | * | 97 | 330 | 97 | 386 | * | * | * | * | * | * | * | * | 97 | 358 |
| 09:00 | * | * | 60 | 300 | 74 | 309 | * | * | * | * | * | * | * | * | 67 | 304 |
| 10:00 | * | * | 44 | 211 | 45 | 256 | * | * | * | * | * | * | * | * | 44 | 234 |
| 11:00 | * | * | 34 | 145 | 27 | 184 | * | * | * | * | * | * | * | * | 30 | 164 |
| Lane | 0 | 0 | 2336 | 12796 | 2408 | 13241 | 828 | 4341 | 0 | 0 | 0 | 0 | 0 | 0 | 2365 | 13026 |
| Day | 0 | | 151 | | 156 | | 516 | | 0 | | 0 | | 0 | | 1539 | |
| AM Peak | | | 07:00 | 07:00 | 07:00 | 07:00 | 07:00 | 08:00 | | | | | | | 07:00 | 07:00 |
| Vol. | | | 217 | 1247 | 218 | 1187 | 225 | 1233 | | | | | | | 220 | 1215 |
| PM Peak | | | 16:00 | 16:00 | 17:00 | 17:00 | | | | | | | | | 17:00 | 17:00 |
| Vol. | | | 177 | 906 | 171 | 1024 | | | | | | | | | 172 | 960 |
| Comb. Total | | 0 | | 15132 | | 15649 | | 5169 | | 0 | | 0 | | 0 | | 15391 |
| ADT | | ADT 1 | 5,390 | AA | DT 15,390 | | | | | | | | | | | |

I-64 EIS counts

3656 E. Stratford Road Virginia Beach, VA 23455 (757) 464-5129

I-64 EIS #25803-04

I-64 WB on ramp fm WB J Clyde Morris I-64 WB off ramp to WB J Clyde Morris

| Start | 11-Ap | or-11 | Т | ue | W | 'ed | Т | hu | F | ri | S | at | S | un | Week A | Average |
|----------------|-------|--------|-------|--------|-----------|--------|-------|--------|-------|--------|-------|--------|-------|--------|--------|---------|
| Time | WB on | WB off | WB on | WB off | WB on | WB off | WB on | WB off | WB on | WB off | WB on | WB off | WB on | WB off | WB on | WB off |
| 12:00 AM | * | * | 41 | 66 | 37 | 59 | 47 | 75 | * | * | * | * | * | * | 42 | 67 |
| 01:00 | * | * | 26 | 42 | 20 | 40 | 20 | 31 | * | * | * | * | * | * | 22 | 38 |
| 02:00 | * | * | 17 | 27 | 18 | 23 | 15 | 30 | * | * | * | * | * | * | 17 | 27 |
| 03:00 | * | * | 11 | 16 | 22 | 35 | 19 | 28 | * | * | * | * | * | * | 17 | 26 |
| 04:00 | * | * | 37 | 33 | 38 | 35 | 38 | 36 | * | * | * | * | * | * | 38 | 35 |
| 05:00 | * | * | 127 | 93 | 117 | 80 | 114 | 104 | * | * | * | * | * | * | 119 | 92 |
| 06:00 | * | * | 309 | 280 | 320 | 249 | 301 | 281 | * | * | * | * | * | * | 310 | 270 |
| 07:00 | * | * | 373 | 410 | 358 | 441 | 402 | 432 | * | * | * | * | * | * | 378 | 428 |
| 08:00 | * | * | 358 | 385 | 353 | 348 | 383 | 405 | * | * | * | * | * | * | 365 | 379 |
| 09:00 | * | * | 248 | 317 | 323 | 426 | 304 | 436 | * | * | * | * | * | * | 292 | 393 |
| 10:00 | * | * | 229 | 353 | 264 | 328 | * | * | * | * | * | * | * | * | 246 | 340 |
| 11:00 | * | * | 280 | 366 | 263 | 380 | * | * | * | * | * | * | * | * | 272 | 373 |
| 12:00 PM | * | * | 295 | 394 | 360 | 450 | * | * | * | * | * | * | * | * | 328 | 422 |
| 01:00 | * | * | 324 | 374 | 326 | 412 | * | * | * | * | * | * | * | * | 325 | 393 |
| 02:00 | * | * | 341 | 430 | 388 | 449 | * | * | * | * | * | * | * | * | 364 | 440 |
| 03:00 | * | * | 401 | 609 | 373 | 630 | * | * | * | * | * | * | * | * | 387 | 620 |
| 04:00 | * | * | 490 | 685 | 406 | 762 | * | * | * | * | * | * | * | * | 448 | 724 |
| 05:00 | * | * | 433 | 616 | 432 | 735 | * | * | * | * | * | * | * | * | 432 | 676 |
| 06:00 | * | * | 293 | 473 | 317 | 495 | * | * | * | * | * | * | * | * | 305 | 484 |
| 07:00 | * | * | 223 | 298 | 219 | 310 | * | * | * | * | * | * | * | * | 221 | 304 |
| 08:00 | * | * | 182 | 247 | 211 | 311 | * | * | * | * | * | * | * | * | 196 | 279 |
| 09:00 | * | * | 155 | 189 | 173 | 242 | * | * | * | * | * | * | * | * | 164 | 216 |
| 10:00 | * | * | 113 | 163 | 115 | 175 | * | * | * | * | * | * | * | * | 114 | 169 |
| 11:00 | * | * | 62 | 107 | 75 | 98 | * | * | * | * | * | * | * | * | 68 | 102 |
| Lane | 0 | 0 | 5368 | 6973 | 5528 | 7513 | 1643 | 1858 | 0 | 0 | 0 | 0 | 0 | 0 | 5470 | 7297 |
| Day | 0 | | 123 | | 130 | | 350 | | 0 | | 0 | | 0 | | 1276 | |
| AM Peak | | | 07:00 | 07:00 | 07:00 | 07:00 | 07:00 | 09:00 | | | | | | | 07:00 | 07:00 |
| Vol. | | | 373 | 410 | 358 | 441 | 402 | 436 | | | | | | | 378 | 428 |
| PM Peak | | | 16:00 | 16:00 | 17:00 | 16:00 | | | | | | | | | 16:00 | 16:00 |
| Vol. | | | 490 | 685 | 432 | 762 | | | | | | | | | 448 | 724 |
| Comb. Total | | 0 | | 12341 | | 13041 | | 3501 | | 0 | | 0 | | 0 | | 12767 |
| ADT | | ADT 1 | 2,691 | AA | DT 12,691 | | | | | | | | | | | |

I-64 EIS counts

3656 E. Stratford Road Virginia Beach, VA 23455 (757) 464-5129

I-64 EIS #25805-06

I-64 EB off ramp to WB J Clyde Morris I-64 EB on ramp fm WB J Clyde Morris

| Start | 11-Ap | r-11 | Tu | Je . | V | /ed | Т | hu . | F | ri | Sa | at | Sı | ın | Week A | Average |
|----------------|--------|-----------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|---------|
| Time | EB off | EB on | EB off | EB on | EB off | EB on | EB off | EB on | EB off | EB on | EB off | EB on | EB off | EB on | EB off | EB on |
| 12:00 AM | * | * | * | * | * | * | 103 | 28 | * | * | * | * | * | * | 103 | 28 |
| 01:00 | * | * | * | * | * | * | 68 | 11 | * | * | * | * | * | * | 68 | 11 |
| 02:00 | * | * | * | * | * | * | 59 | 15 | * | * | * | * | * | * | 59 | 15 |
| 03:00 | * | * | * | * | * | * | 47 | 9 | * | * | * | * | * | * | 47 | 9 |
| 04:00 | * | * | * | * | * | * | 83 | 8 | * | * | * | * | * | * | 83 | 8 |
| 05:00 | * | * | * | * | * | * | 273 | 22 | * | * | * | * | * | * | 273 | 22 |
| 06:00 | * | * | * | * | * | * | 537 | 60 | * | * | * | * | * | * | 537 | 60 |
| 07:00 | * | * | * | * | * | * | 735 | 116 | * | * | * | * | * | * | 735 | 116 |
| 08:00 | * | * | * | * | * | * | 693 | 450 | * | * | * | * | * | * | 693 | 450 |
| 09:00 | * | * | * | * | * | * | 710 | 98 | * | * | * | * | * | * | 710 | 98 |
| 10:00 | * | * | * | * | 673 | 66 | * | * | * | * | * | * | * | * | 673 | 66 |
| 11:00 | * | * | * | * | 816 | 108 | * | * | * | * | * | * | * | * | 816 | 108 |
| 12:00 PM | * | * | * | * | 876 | 91 | * | * | * | * | * | * | * | * | 876 | 91 |
| 01:00 | * | * | * | * | 863 | 108 | * | * | * | * | * | * | * | * | 863 | 108 |
| 02:00 | * | * | * | * | 814 | 120 | * | * | * | * | * | * | * | * | 814 | 120 |
| 03:00 | * | * | * | * | 1000 | 131 | * | * | * | * | * | * | * | * | 1000 | 131 |
| 04:00 | * | * | * | * | 1151 | 171 | * | * | * | * | * | * | * | * | 1151 | 171 |
| 05:00 | * | * | * | * | 1154 | 210 | * | * | * | * | * | * | * | * | 1154 | 210 |
| 06:00 | * | * | * | * | 766 | 142 | * | * | * | * | * | * | * | * | 766 | 142 |
| 07:00 | * | * | * | * | 536 | 115 | * | * | * | * | * | * | * | * | 536 | 115 |
| 08:00 | * | * | * | * | 483 | 83 | * | * | * | * | * | * | * | * | 483 | 83 |
| 09:00 | * | * | * | * | 531 | 92 | * | * | * | * | * | * | * | * | 531 | 92 |
| 10:00 | * | * | * | * | 260 | 52 | * | * | * | * | * | * | * | * | 260 | 52 |
| 11:00 | * | * | * | * | 201 | 41 | * | * | * | * | * | * | * | * | 201 | 41 |
| Lane | 0 | 0 | 0 | 0 | 10124 | 1530 | 3308 | 817 | 0 | 0 | 0 | 0 | 0 | 0 | 13432 | 2347 |
| Day | 0 | | 0 | | 116 | | 412 | | 0 | | 0 | | 0 | | 1577 | |
| AM Peak | | | | | 11:00 | 11:00 | 07:00 | 08:00 | | | | | | | 11:00 | 08:00 |
| Vol. | | | | | 816 | 108 | 735 | 450 | | | | | | | 816 | 450 |
| PM Peak | | | | | 17:00 | 17:00 | | | | | | | | | 17:00 | 17:00 |
| Vol. | | | | | 1154 | 210 | | | | | | | | | 1154 | 210 |
| Comb. Total | | 0 | | 0 | | 11654 | | 4125 | | 0 | | 0 | | 0 | | 15779 |
| ADT | - | Not Calcu | lated | | | | | | | | | | | | | |

I-64 EIS counts

3656 E. Stratford Road Virginia Beach, VA 23455 (757) 464-5129

I-64 EIS #25807-08

I-64 EB on ramp fm EB J Clyde Morris I-64 EB off ramp to EB J Clyde Morris

| Start | 11-Apı | r-11 | Т | ue | W | ed | Т | hu | F | ri | Sa | | S | un | Week A | Average |
|----------------|--------|--------|-------|--------|-----------|--------|-------|--------|-------|--------|-------|--------|-------|--------|--------|---------|
| Time | EB on | EB off | EB on | EB off | EB on | EB off | EB on | EB off | EB on | EB off | EB on | EB off | EB on | EB off | EB on | EB off |
| 12:00 AM | * | * | 35 | 37 | 38 | 44 | 43 | 51 | * | * | * | * | * | * | 39 | 44 |
| 01:00 | * | * | 39 | 24 | 21 | 24 | 30 | 29 | * | * | * | * | * | * | 30 | 26 |
| 02:00 | * | * | 24 | 14 | 12 | 17 | 27 | 21 | * | * | * | * | * | * | 21 | 17 |
| 03:00 | * | * | 49 | 13 | 22 | 9 | 28 | 15 | * | * | * | * | * | * | 33 | 12 |
| 04:00 | * | * | 104 | 23 | 117 | 35 | 109 | 32 | * | * | * | * | * | * | 110 | 30 |
| 05:00 | * | * | 332 | 79 | 326 | 77 | 326 | 76 | * | * | * | * | * | * | 328 | 77 |
| 06:00 | * | * | 577 | 157 | 587 | 173 | 583 | 182 | * | * | * | * | * | * | 582 | 171 |
| 07:00 | * | * | 538 | 480 | 535 | 492 | 566 | 539 | * | * | * | * | * | * | 546 | 504 |
| 08:00 | * | * | 363 | 473 | 376 | 518 | 404 | 624 | * | * | * | * | * | * | 381 | 538 |
| 09:00 | * | * | 308 | 349 | 311 | 377 | 337 | 382 | * | * | * | * | * | * | 319 | 369 |
| 10:00 | * | * | 264 | 281 | 273 | 306 | * | * | * | * | * | * | * | * | 268 | 294 |
| 11:00 | * | * | 236 | 247 | 278 | 300 | * | * | * | * | * | * | * | * | 257 | 274 |
| 12:00 PM | * | * | 259 | 269 | 322 | 292 | * | * | * | * | * | * | * | * | 290 | 280 |
| 01:00 | * | * | 268 | 285 | 335 | 377 | * | * | * | * | * | * | * | * | 302 | 331 |
| 02:00 | * | * | 300 | 302 | 280 | 304 | * | * | * | * | * | * | * | * | 290 | 303 |
| 03:00 | * | * | 369 | 398 | 395 | 378 | * | * | * | * | * | * | * | * | 382 | 388 |
| 04:00 | * | * | 351 | 436 | 414 | 430 | * | * | * | * | * | * | * | * | 382 | 433 |
| 05:00 | * | * | 374 | 466 | 373 | 517 | * | * | * | * | * | * | * | * | 374 | 492 |
| 06:00 | * | * | 290 | 301 | 337 | 320 | * | * | * | * | * | * | * | * | 314 | 310 |
| 07:00 | * | * | 188 | 158 | 209 | 199 | * | * | * | * | * | * | * | * | 198 | 178 |
| 08:00 | * | * | 204 | 122 | 192 | 151 | * | * | * | * | * | * | * | * | 198 | 136 |
| 09:00 | * | * | 148 | 138 | 156 | 136 | * | * | * | * | * | * | * | * | 152 | 137 |
| 10:00 | * | * | 119 | 81 | 104 | 99 | * | * | * | * | * | * | * | * | 112 | 90 |
| 11:00 | * | * | 55 | 60 | 75 | 58 | * | * | * | * | * | * | * | * | 65 | 59 |
| Lane | 0 | 0 | 5794 | 5193 | 6088 | 5633 | 2453 | 1951 | 0 | 0 | 0 | 0 | 0 | 0 | 5973 | 5493 |
| Day | 0 | | 109 | | 1172 | | 440 | | 0 | | 0 | | 0 | | 1146 | |
| AM Peak | | | 06:00 | 07:00 | 06:00 | 08:00 | 06:00 | 08:00 | | | | | | | 06:00 | 08:00 |
| Vol. | | | 577 | 480 | 587 | 518 | 583 | 624 | | | | | | | 582 | 538 |
| PM Peak | | | 17:00 | 17:00 | 16:00 | 17:00 | | | | | | | | | 15:00 | 17:00 |
| Vol. | | | 374 | 466 | 414 | 517 | | | | | | | | | 382 | 492 |
| Comb. Total | | 0 | | 10987 | | 11721 | | 4404 | | 0 | | 0 | | 0 | | 11466 |
| ADT | - | ADT 11 | 1,354 | AA | DT 11,354 | | | | | | | | | | | |

I-64 EIS counts

ADT

ADT 42,540

AADT 42,540

3656 E. Stratford Road Virginia Beach, VA 23455 (757) 464-5129

I-64 EIS #25809

J Clyde Morris Blvd

| Start | 11-Apr | ·-11 | | Tue | | Ved | - | Гhu | F | ri | Sa | at | Sur | า | Week A | Average |
|----------|--------|------|-------|--------|-------|-------|-------|-------|----|----|----|----|-----|----|--------|---------|
| Time | EB . | WB | EB | WB | EB | WB | EB | WB | EB | WB | EB | WB | EB | WB | EB | ŴВ |
| 12:00 AM | * | * | 161 | 167 | 176 | 144 | 233 | 186 | * | * | * | * | * | * | 190 | 166 |
| 01:00 | * | * | 88 | 87 | 69 | 86 | 96 | 115 | * | * | * | * | * | * | 84 | 96 |
| 02:00 | * | * | 58 | 77 | 50 | 78 | 78 | 99 | * | * | * | * | * | * | 62 | 85 |
| 03:00 | * | * | 55 | 90 | 48 | 82 | 58 | 82 | * | * | * | * | * | * | 54 | 85 |
| 04:00 | * | * | 71 | 204 | 76 | 189 | 74 | 207 | * | * | * | * | * | * | 74 | 200 |
| 05:00 | * | * | 222 | 563 | 220 | 569 | 214 | 543 | * | * | * | * | * | * | 219 | 558 |
| 06:00 | * | * | 556 | 1172 | 627 | 1199 | 624 | 1165 | * | * | * | * | * | * | 602 | 1179 |
| 07:00 | * | * | 888 | 1992 | 883 | 1994 | 934 | 1970 | * | * | * | * | * | * | 902 | 1985 |
| 08:00 | * | * | 864 | 2034 | 878 | 2047 | 889 | 2160 | * | * | * | * | * | * | 877 | 2080 |
| 09:00 | * | * | 818 | 1637 | 933 | 1745 | 910 | 1665 | * | * | * | * | * | * | 887 | 1682 |
| 10:00 | * | * | 907 | 1452 | 874 | 1436 | * | * | * | * | * | * | * | * | 890 | 1444 |
| 11:00 | * | * | 1074 | 1384 | 969 | 1456 | * | * | * | * | * | * | * | * | 1022 | 1420 |
| 12:00 PM | * | * | 1128 | 1454 | 1169 | 1628 | * | * | * | * | * | * | * | * | 1148 | 1541 |
| 01:00 | * | * | 1068 | 1582 | 1118 | 1592 | * | * | * | * | * | * | * | * | 1093 | 1587 |
| 02:00 | * | * | 1128 | 1486 | 1189 | 1447 | * | * | * | * | * | * | * | * | 1158 | 1466 |
| 03:00 | * | * | 1383 | 1621 | 1441 | 1605 | * | * | * | * | * | * | * | * | 1412 | 1613 |
| 04:00 | * | * | 1575 | 1708 | 1544 | 1690 | * | * | * | * | * | * | * | * | 1560 | 1699 |
| 05:00 | * | * | 1458 | 1709 | 1550 | 1824 | * | * | * | * | * | * | * | * | 1504 | 1766 |
| 06:00 | * | * | 1103 | 1254 | 1159 | 1478 | * | * | * | * | * | * | * | * | 1131 | 1366 |
| 07:00 | * | * | 808 | 870 | 855 | 1012 | * | * | * | * | * | * | * | * | 832 | 941 |
| 08:00 | * | * | 661 | 681 | 742 | 769 | * | * | * | * | * | * | * | * | 702 | 725 |
| 09:00 | * | * | 559 | 634 | 610 | 630 | * | * | * | * | * | * | * | * | 584 | 632 |
| 10:00 | * | * | 349 | 440 | 352 | 485 | * | * | * | * | * | * | * | * | 350 | 462 |
| 11:00 | * | * | 244 | 279 | 243 | 318 | * | * | * | * | * | * | * | * | 244 | 298 |
| Lane | 0 | 0 | 17226 | 24577 | 17775 | 25503 | 4110 | 8192 | 0 | 0 | 0 | 0 | 0 | 0 | 17581 | 25076 |
| Day | 0 | | 418 | 303 | 432 | 278 | 123 | 302 | 0 | | 0 | | 0 | | 4265 | 57 |
| AM Peak | | | 11:00 | 08:00 | 11:00 | 08:00 | 07:00 | 08:00 | | | | | | | 11:00 | 08:00 |
| Vol. | | | 1074 | 2034 | 969 | 2047 | 934 | 2160 | | | | | | | 1022 | 2080 |
| PM Peak | | | 16:00 | 17:00 | 17:00 | 17:00 | | | | | | | | | 16:00 | 17:00 |
| Vol. | | | 1575 | 1709 | 1550 | 1824 | | | | | | | | | 1560 | 1766 |
| Comb. | | 0 | | 44.000 | | 42270 | | 40202 | | 0 | | 0 | | 0 | | 40657 |
| Total | | 0 | | 41803 | | 43278 | | 12302 | | 0 | | 0 | | 0 | | 42657 |

I-64 EIS counts

3656 E. Stratford Road Virginia Beach, VA 23455 (757) 464-5129

I-64 EIS #26102

I-64 WB on ramp fm EB HR Ctr Pkwy

| Start | Mon | Tue | Wed | Thu | Fri | Average | Sat | Sun | Week |
|-----------------|-----------|-----------|-----------|-------|-----------|---------|-----------|-----------|---------|
| Time | 18-Apr-11 | 19-Apr-11 | 20-Apr-11 | | 22-Apr-11 | Day | 23-Apr-11 | 24-Apr-11 | Average |
| 12:00 AM | * | 28 | 41 | 30 | * | 33 | * | * | 33 🔲 |
| 01:00 | * | 14 | 18 | 21 | * | 18 | * | * | 18 🛘 |
| 02:00 | * | 12 | 14 | 23 | * | 16 | * | * | 16 🛮 |
| 03:00 | * | 15 | 22 | 16 | * | 18 | * | * | 18 📘 |
| 04:00 | * | 36 | 38 | 37 | * | 37 | * | * | 37 |
| 05:00 | * | 122 | 128 | 136 | * | 129 | * | * | 129 |
| 06:00 | * | 335 | 333 | 334 | * | 334 | * | * | 334 |
| 07:00 | * | 363 | 366 | 346 | * | 358 | * | * | 358 |
| 08:00 | * | 341 | 329 | 332 | * | 334 | * | * | 334 |
| 09:00 | * | 291 | 240 | 297 | * | 276 | * | * | 276 |
| 10:00 | * | 238 | 244 | 278 | * | 253 | * | * | 253 |
| 11:00 | * | 243 | 254 | 269 | * | 255 | * | * | 255 |
| 12:00 PM | * | 306 | 323 | 301 | * | 310 | * | * | 310 |
| 01:00 | * | 327 | 284 | 339 | * | 317 | * | * | 317 |
| 02:00 | * | 289 | 288 | 309 | * | 295 | * | * | 295 |
| 03:00 | * | 331 | 339 | * | * | 335 | * | * | 335 |
| 04:00 | * | 255 | 293 | * | * | 274 | * | * | 274 |
| 05:00 | * | 299 | 319 | * | * | 309 | * | * | 309 |
| 06:00 | * | 294 | 315 | * | * | 304 | * | * | 304 |
| 07:00 | * | 254 | 244 | * | * | 249 | * | * | 249 |
| 08:00 | * | 229 | 233 | * | * | 231 | * | * | 231 |
| 09:00 | * | 194 | 211 | * | * | 202 | * | * | 202 |
| 10:00 | * | 129 | 157 | * | * | 143 | * | * | 143 |
| 11:00 | * | 79 | 73 | * | * | 76 | * | * | 76 |
| Day Total | 0 | 5024 | 5106 | 3068 | 0 | 5106 | 0 | 0 | 5106 |
| % Avg. WkDay | 0.0% | 98.4% | 100.0% | 60.1% | 0.0% | | | | |
| Avg. Week | 0.0% | 98.4% | 100.0% | 60.1% | 0.0% | 100.0% | 0.0% | 0.0% | |
| AM Peak | 0.070 | 07:00 | 07:00 | 07:00 | 0.070 | 07:00 | U.U /0 | U.U /0 | 07:00 |
| Vol. | | 363 | 366 | 346 | | 358 | | | 358 |
| PM Peak | | 15:00 | 15:00 | 13:00 | | 15:00 | | | 15:00 |
| Vol. | | 331 | 339 | 339 | | 335 | | | 335 |
| Grand Tota | I | | | |)68 | 0 5106 | | 0 | 0 5106 |

ADT

ADT 5,065

AADT 5,065

I-64 EIS counts

3656 E. Stratford Road Virginia Beach, VA 23455 (757) 464-5129

I-64 EIS #26103-04

I-64 WB on ramp fm WB HR Ctr Pkwy I-64 WB off ramp to WB HR Ctr Pkwy

| Start | 18-Ap | or-11 | Т | ue | V | /ed | Т | hu . | F | ri | Sa | at | Sı | ın | Week A | verage |
|----------------|-------|--------|-------|--------|------------|--------|-------|--------|-------|--------|-------|--------|-------|--------|--------|--------|
| Time | WB on | WB off | WB on | WB off | WB on | WB off | WB on | WB off | WB on | WB off | WB on | WB off | WB on | WB off | WB on | WB off |
| 12:00 AM | * | * | * | * | 66 | 63 | 61 | 67 | * | * | * | * | * | * | 64 | 65 |
| 01:00 | * | * | * | * | 34 | 32 | 32 | 31 | * | * | * | * | * | * | 33 | 32 |
| 02:00 | * | * | * | * | 28 | 19 | 19 | 25 | * | * | * | * | * | * | 24 | 22 |
| 03:00 | * | * | * | * | 31 | 20 | 24 | 21 | * | * | * | * | * | * | 28 | 20 |
| 04:00 | * | * | * | * | 41 | 20 | 41 | 17 | * | * | * | * | * | * | 41 | 18 |
| 05:00 | * | * | * | * | 135 | 35 | 124 | 43 | * | * | * | * | * | * | 130 | 39 |
| 06:00 | * | * | * | * | 339 | 178 | 354 | 166 | * | * | * | * | * | * | 346 | 172 |
| 07:00 | * | * | * | * | 578 | 379 | 591 | 309 | * | * | * | * | * | * | 584 | 344 |
| 08:00 | * | * | * | * | 507 | 253 | 493 | 316 | * | * | * | * | * | * | 500 | 284 |
| 09:00 | * | * | * | * | 519 | 226 | 542 | 263 | * | * | * | * | * | * | 530 | 244 |
| 10:00 | * | * | * | * | 555 | 239 | 562 | 261 | * | * | * | * | * | * | 558 | 250 |
| 11:00 | * | * | * | * | 618 | 274 | 656 | 294 | * | * | * | * | * | * | 637 | 284 |
| 12:00 PM | * | * | * | * | 606 | 318 | 612 | 277 | * | * | * | * | * | * | 609 | 298 |
| 01:00 | * | * | * | * | 571 | 292 | 608 | 356 | * | * | * | * | * | * | 590 | 324 |
| 02:00 | * | * | * | * | 640 | 365 | 676 | 332 | * | * | * | * | * | * | 658 | 348 |
| 03:00 | * | * | * | * | 887 | 461 | * | * | * | * | * | * | * | * | 887 | 461 |
| 04:00 | * | * | * | * | 1238 | 662 | * | * | * | * | * | * | * | * | 1238 | 662 |
| 05:00 | * | * | * | * | 1197 | 614 | * | * | * | * | * | * | * | * | 1197 | 614 |
| 06:00 | * | * | * | * | 741 | 432 | * | * | * | * | * | * | * | * | 741 | 432 |
| 07:00 | * | * | 463 | 401 | 459 | 337 | * | * | * | * | * | * | * | * | 461 | 369 |
| 08:00 | * | * | 351 | 322 | 404 | 358 | * | * | * | * | * | * | * | * | 378 | 340 |
| 09:00 | * | * | 323 | 224 | 274 | 291 | * | * | * | * | * | * | * | * | 298 | 258 |
| 10:00 | * | * | 179 | 186 | 184 | 165 | * | * | * | * | * | * | * | * | 182 | 176 |
| 11:00 | * | * | 103 | 109 | 115 | 124 | * | * | * | * | * | * | * | * | 109 | 116 |
| Lane | 0 | 0 | 1419 | 1242 | 10767 | 6157 | 5395 | 2778 | 0 | 0 | 0 | 0 | 0 | 0 | 10823 | 6172 |
| Day | 0 | | 266 | 51 | 169 | | 817 | | 0 | | 0 | | 0 | | 1699 | |
| AM Peak | | | | | 11:00 | 07:00 | 11:00 | 08:00 | | | | | | | 11:00 | 07:00 |
| Vol. | | | | | 618 | 379 | 656 | 316 | | | | | | | 637 | 344 |
| PM Peak | | | 19:00 | 19:00 | 16:00 | 16:00 | 14:00 | 13:00 | | | | | | | 16:00 | 16:00 |
| Vol. | | | 463 | 401 | 1238 | 662 | 676 | 356 | | | | | | | 1238 | 662 |
| Comb. Total | | 0 | | 2661 | | 16924 | | 8173 | | 0 | | 0 | | 0 | | 16995 |
| ADT | - | ADT 16 | 5,924 | AA | ADT 16,924 | | | | | | | | | | | |

I-64 EIS counts

3656 E. Stratford Road Virginia Beach, VA 23455 (757) 464-5129

I-64 EIS #26105

I-64 EB off ramp to WB HR Ctr Pkwy

| Start Time | Mon 18-Apr-11 | Tue 19-Apr-11 | Wed 20-Apr-11 | Thu 21-Apr-11 | Fri 22-Apr-11 | Average Day | Sat 23-Apr-11 | Sun 24-Apr-11 | Week Average |
|-----------------|------------------|------------------|------------------|------------------|------------------|----------------|------------------|------------------|-----------------|
| 12:00 AM | * | 61 | 57 | 63 | * | 60 | * | * | 60 - |
| 01:00 | * | 30 | 27 | 37 | * | 31 | * | * | 31 🗓 |
| 02:00 | * | 22 | 16 | 19 | * | 19 | * | * | 19 📗 |
| 03:00 | * | 11 | 20 | 22 | * | 18 | * | * | 18 |
| 04:00 | * | 17 | 21 | 15 | * | 18 | * | * | 18 🛮 |
| 05:00 | * | 41 | 39 | 42 | * | 41 | * | * | 41 |
| 06:00 | * | 136 | 158 | 120 | * | 138 | * | * | 138 |
| 07:00 | * | 371 | 381 | 360 | * | 371 | * | * | 371 |
| 08:00 | * | 342 | 332 | 364 | * | 346 | * | * | 346 |
| 09:00 | * | 384 | 334 | 376 | * | 365 | * | * | 365 |
| 10:00 | * | 317 | 272 | 329 | * | 306 | * | * | 306 |
| 11:00 | * | 339 | 331 | 339 | * | 336 | * | * | 336 |
| 12:00 PM | * | 391 | 399 | 375 | * | 388 | * | * | 388 |
| 01:00 | * | 373 | 379 | 336 | * | 363 | * | * | 363 |
| 02:00 | * | 326 | 368 | 354 | * | 349 | * | * | 349 |
| 03:00 | * | 416 | 424 | * | * | 420 | * | * | 420 |
| 04:00 | * | 509 | 551 | * | * | 530 | * | * | 530 |
| 05:00 | * | 590 | 608 | * | * | 599 | * | * | 599 |
| 06:00 | * | 488 | 536 | * | * | 512 | * | * | 512 |
| 07:00 | * | 321 | 306 | * | * | 314 | * | * | 314 |
| 08:00 | * | 250 | 260 | * | * | 255 | * | * | 255 |
| 09:00 | * | 201 | 251 | * | * | 226 | * | * | 226 |
| 10:00 | * | 135 | 152 | * | * | 144 | * | * | 144 |
| 11:00 | * | 77 | 86 | * | * | 82 | * | * | 82 |
| Day Total | 0 | 6148 | 6308 | 3151 | 0 | 6231 | 0 | 0 | 6231 |
| % Avg. WkDay | 0.0% | 98.7% | 101.2% | 50.6% | 0.0% | | | | |
| Avg. Week | 0.0% | 98.7% | 101.2% | 50.6% | 0.0% | 100.0% | 0.0% | 0.0% | |
| AM Peak | | 09:00 | 07:00 | 09:00 | | 07:00 | | | 07:00 |
| Vol. | | 384 | 381 | 376 | | 371 | | | 371 |
| PM Peak | | 17:00 | 17:00 | 12:00 | | 17:00 | | | 17:00 |
| Vol. | | 590 | 608 | 375 | | 599 | | | 599 |
| Grand Tota | 1 | 0 6 | 148 6 | 308 31 | 51 | 0 6231 | | 0 | 0 6231 |

I-64 EIS counts

3656 E. Stratford Road Virginia Beach, VA 23455 (757) 464-5129

I-64 EIS #26107-08

I-64 EB on ramp fm EB HR Ctr Pkwy I-64 EB off ramp to EB HR Ctr Pkwy

| Start | 18-Ap | r-11 | Т | ue | W | 'ed | Т | hu . | F | ri | S | at | Sı | ın | Week A | Average |
|---------------|-------|--------|-------|--------|-----------|--------|-------|--------|-------|--------|-------|--------|-------|--------|--------|---------|
| Time | EB on | EB off | EB on | EB off | EB on | EB off | EB on | EB off | EB on | EB off | EB on | EB off | EB on | EB off | EB on | EB off |
| 12:00 AM | * | * | 57 | 56 | 50 | 21 | 36 | 46 | * | * | * | * | * | * | 48 | 41 |
| 01:00 | * | * | 28 | 20 | 27 | 30 | 23 | 27 | * | * | * | * | * | * | 26 | 26 |
| 02:00 | * | * | 25 | 10 | 20 | 21 | 30 | 21 | * | * | * | * | * | * | 25 | 17 |
| 03:00 | * | * | 20 | 21 | 38 | 25 | 30 | 15 | * | * | * | * | * | * | 29 | 20 |
| 04:00 | * | * | 76 | 46 | 66 | 34 | 76 | 37 | * | * | * | * | * | * | 73 | 39 |
| 05:00 | * | * | 282 | 144 | 291 | 147 | 257 | 137 | * | * | * | * | * | * | 277 | 143 |
| 06:00 | * | * | 553 | 674 | 553 | 690 | 591 | 678 | * | * | * | * | * | * | 566 | 681 |
| 07:00 | * | * | 814 | 1109 | 804 | 1073 | 801 | 1068 | * | * | * | * | * | * | 806 | 1083 |
| 08:00 | * | * | 600 | 839 | 599 | 794 | 554 | 821 | * | * | * | * | * | * | 584 | 818 |
| 09:00 | * | * | 390 | 472 | 394 | 484 | 402 | 460 | * | * | * | * | * | * | 395 | 472 |
| 10:00 | * | * | 387 | 373 | 360 | 398 | 393 | 391 | * | * | * | * | * | * | 380 | 387 |
| 11:00 | * | * | 373 | 357 | 318 | 373 | 374 | 390 | * | * | * | * | * | * | 355 | 373 |
| 12:00 PM | * | * | 389 | 413 | 376 | 396 | 400 | 407 | * | * | * | * | * | * | 388 | 405 |
| 01:00 | * | * | 378 | 386 | 444 | 367 | 418 | 424 | * | * | * | * | * | * | 413 | 392 |
| 02:00 | * | * | 362 | 418 | 402 | 323 | 404 | 400 | * | * | * | * | * | * | 389 | 380 |
| 03:00 | * | * | 498 | 395 | 507 | 346 | 465 | 467 | * | * | * | * | * | * | 490 | 403 |
| 04:00 | * | * | 409 | 404 | 419 | 368 | 402 | 442 | * | * | * | * | * | * | 410 | 405 |
| 05:00 | * | * | 470 | 455 | 461 | 387 | 456 | 414 | * | * | * | * | * | * | 462 | 419 |
| 06:00 | * | * | 429 | 333 | 452 | 332 | * | * | * | * | * | * | * | * | 440 | 332 |
| 07:00 | * | * | 319 | 220 | 353 | 252 | * | * | * | * | * | * | * | * | 336 | 236 |
| 08:00 | * | * | 260 | 200 | 268 | 204 | * | * | * | * | * | * | * | * | 264 | 202 |
| 09:00 | * | * | 233 | 202 | 278 | 177 | * | * | * | * | * | * | * | * | 256 | 190 |
| 10:00 | * | * | 149 | 138 | 144 | 104 | * | * | * | * | * | * | * | * | 146 | 121 |
| 11:00 | * | * | 107 | 60 | 83 | 79 | * | * | * | * | * | * | * | * | 95 | 70 |
| Lane | 0 | 0 | 7608 | 7745 | 7707 | 7425 | 6112 | 6645 | 0 | 0 | 0 | 0 | 0 | 0 | 7653 | 7655 |
| Day | 0 | | 153 | | 1513 | | 127 | | 0 | | 0 | | 0 | | 1530 | |
| AM Peak | | | 07:00 | 07:00 | 07:00 | 07:00 | 07:00 | 07:00 | | | | | | | 07:00 | 07:00 |
| Vol. | | | 814 | 1109 | 804 | 1073 | 801 | 1068 | | | | | | | 806 | 1083 |
| PM Peak | | | 15:00 | 17:00 | 15:00 | 12:00 | 15:00 | 15:00 | | | | | | | 15:00 | 17:00 |
| Vol. | | | 498 | 455 | 507 | 396 | 465 | 467 | | | | | | | 490 | 419 |
| Comb. Tota | | 0 | | 15353 | | 15132 | | 12757 | | 0 | | 0 | | 0 | | 15308 |
| ADT | - | ADT 1 | 5,242 | AA | DT 15,242 | | | | | | | | | | | |

I-64 EIS counts

3656 E. Stratford Road Virginia Beach, VA 23455 (757) 464-5129

I-64 EIS #26201

I-64 WB off ramp to NB Magruder

| Start | Mon | Tue | Wed | Thu | Fri | Average | Sat | Sun | Week |
|-------------------------|----------------|-------------------------|------------------|------------------|----------------|-------------------|----------------|----------------|-------------|
| <u>Time</u> 12:00 AM | 18-Apr-11 * | <u>19-Apr-11</u> 104 | 20-Apr-11 123 | 21-Apr-11 144 | 22-Apr-11 * | <u>Day</u> 124 | 23-Apr-11 * | 24-Apr-11 * | Average 124 |
| 01:00 | * | 56 | 49 | 97 | * | 67 | * | * | 67 |
| 01:00 | * | 50 47 | 49 | 60 | * | 51 | * | * | 51 🛮 |
| 03:00 | * | 25 | 40 | 28 | * | 31 | * | * | 31] |
| 03.00 | * | 49 | 41 | 57 | * | 52 | * | * | 52 |
| 05:00 | * | 167 | 186 | 164 | * | 172 | * | * | 172 |
| 06:00 | * | 657 | 668 | 646 | * | 657 | * | * | 657 |
| 07:00 | * | 1147 | 1162 | 1027 | * | 1112 | * | * | 1112 |
| | * | | | | * | | * | * | |
| 08:00 | * | 1118 | 1108 | 1135 | * | 1120 | * | * | 1120 |
| 09:00 | * | 738 | 753 | 783 | * | 758 | * | * | 758 |
| 10:00 | * | 726 | 732 | 679 | * | 712 | * | * | 712 |
| 11:00 | * | 632 | 668 | 692 | * | 664 | * | * | 664 |
| 12:00 PM | * | 771 | 812 | 752 | * | 778 | * | * | 778 |
| 01:00 | * | 638 | 828 | 740 | * | 735 | * | * | 735 |
| 02:00 | | 791 | 829 | 760 | * | 793 | * | * | 793 |
| 03:00 | * | 1051 | 1066 | 1034 | | 1050 | | | 1050 |
| 04:00 | * | 1307 | 1336 | 1352 | * | 1332 | * | * | 1332 |
| 05:00 | * | 1180 | 1148 | 1170 | * | 1166 | * | * | 1166 |
| 06:00 | * | 858 | 853 | 806 | * | 839 | * | * | 839 |
| 07:00 | * | 642 | 557 | * | * | 600 | * | * | 600 |
| 08:00 | * | 499 | 530 | * | * | 514 | * | * | 514 |
| 09:00 | * | 416 | 431 | * | * | 424 | * | * | 424 |
| 10:00 | * | 320 | 321 | * | * | 320 | * | * | 320 |
| 11:00 | * | 192 | 209 | * | * | 200 | * | * | 200 |
| Day Total | 0 | 14131 | 14505 | 12126 | 0 | 14271 | 0 | 0 | 14271 |
| % Avg. | 0.0% | 99.0% | 101.6% | 85.0% | 0.0% | | | | |
| WkDay | | | | | | | | | |
| Avg. Week | 0.0% | 99.0% | 101.6% | 85.0% | 0.0% | 100.0% | 0.0% | 0.0% | |
| AM Peak | | 07:00 | 07:00 | 08:00 | | 08:00 | | | 08:00 |
| Vol. | | 1147 | 1162 | 1135 | | 1120 | | | 1120 |
| PM Peak | | 16:00 | 16:00 | 16:00 | | 16:00 | | | 16:00 |
| Vol. | | 1307 | 1336 | 1352 | | 1332 | | | 1332 |
| Grand Total | | 0 141 | 31 145 | 05 121 | 26 | 0 14271 | | 0 (| 14271 |

I-64 EIS counts

3656 E. Stratford Road Virginia Beach, VA 23455 (757) 464-5129

I-64 EIS #26202-03

I-64 EB on ramp from SB Magruder SB Magruder ramp to Mercury Blvd

| Start | 18-A | or-11 | 7 | ue | V | Ved | 7 | Γhu | ı | Fri | 5 | Sat | S | Sun | Week | Average |
|----------------|-------|---------|-------|---------|-----------|---------|-------|---------|-------|---------|---|---------|---|---------|-------|---------|
| Time | EB on | SB ramp | EB on | SB ramp | EB on | SB ramp | EB on | SB ramp | EB on | SB ramp | | SB ramp | | SB ramp | EB on | SB ramp |
| 12:00 AM | * | * | 70 | 13 | 64 | 23 | 89 | 18 | * | * | * | * | * | * | 74 | 18 |
| 01:00 | * | * | 51 | 10 | 49 | 11 | 82 | 8 | * | * | * | * | * | * | 61 | 10 |
| 02:00 | * | * | 30 | 5 | 39 | 4 | 35 | 8 | * | * | * | * | * | * | 35 | 6 |
| 03:00 | * | * | 47 | 6 | 51 | 8 | 45 | 7 | * | * | * | * | * | * | 48 | 7 |
| 04:00 | * | * | 192 | 10 | 181 | 12 | 182 | 8 | * | * | * | * | * | * | 185 | 10 |
| 05:00 | * | * | 544 | 37 | 533 | 38 | 495 | 39 | * | * | * | * | * | * | 524 | 38 |
| 06:00 | * | * | 970 | 101 | 976 | 98 | 939 | 93 | * | * | * | * | * | * | 962 | 97 |
| 07:00 | * | * | 1157 | 159 | 1115 | 162 | 1067 | 160 | * | * | * | * | * | * | 1113 | 160 |
| 08:00 | * | * | 788 | 152 | 839 | 152 | 838 | 122 | * | * | * | * | * | * | 822 | 142 |
| 09:00 | * | * | 657 | 154 | 614 | 160 | 673 | 151 | * | * | * | * | * | * | 648 | 155 |
| 10:00 | * | * | 604 | 172 | 644 | 177 | 617 | 160 | * | * | * | * | * | * | 622 | 170 |
| 11:00 | * | * | 654 | 205 | 687 | 195 | 615 | 175 | * | * | * | * | * | * | 652 | 192 |
| 12:00 PM | * | * | 696 | 198 | 682 | 212 | 701 | 205 | * | * | * | * | * | * | 693 | 205 |
| 01:00 | * | * | 571 | 193 | 657 | 174 | 658 | 187 | * | * | * | * | * | * | 629 | 185 |
| 02:00 | * | * | 736 | 203 | 763 | 175 | 774 | 169 | * | * | * | * | * | * | 758 | 182 |
| 03:00 | * | * | 968 | 222 | 975 | 235 | 924 | 209 | * | * | * | * | * | * | 956 | 222 |
| 04:00 | * | * | 958 | 303 | 923 | 286 | 895 | 271 | * | * | * | * | * | * | 925 | 287 |
| 05:00 | * | * | 1117 | 305 | 1027 | 307 | 1066 | 306 | * | * | * | * | * | * | 1070 | 306 |
| 06:00 | * | * | 742 | 236 | 753 | 241 | 742 | 224 | * | * | * | * | * | * | 746 | 234 |
| 07:00 | * | * | 473 | 147 | 498 | 156 | * | * | * | * | * | * | * | * | 486 | 152 |
| 08:00 | * | * | 423 | 89 | 386 | 107 | * | * | * | * | * | * | * | * | 404 | 98 |
| 09:00 | * | * | 327 | 83 | 395 | 96 | * | * | * | * | * | * | * | * | 361 | 90 |
| 10:00 | * | * | 231 | 53 | 238 | 52 | * | * | * | * | * | * | * | * | 234 | 52 |
| 11:00 | * | * | 118 | 25 | 142 | 26 | * | * | * | * | * | * | * | * | 130 | 26 |
| Lane | 0 | 0 | 13124 | 3081 | 13231 | 3107 | 11437 | 2520 | 0 | 0 | 0 | 0 | 0 | 0 | 13138 | 3044 |
| Day | | | 162 | | 163 | | 139 | | 0 | | 0 | l | 0 | | 161 | |
| AM Peak | | | 07:00 | 11:00 | 07:00 | 11:00 | 07:00 | 11:00 | | | | | | | 07:00 | 11:00 |
| Vol. | | | 1157 | 205 | 1115 | 195 | 1067 | 175 | | | | | | | 1113 | 192 |
| PM Peak | | | 17:00 | 17:00 | 17:00 | 17:00 | 17:00 | 17:00 | | | | | | | 17:00 | 17:00 |
| Vol. | | | 1117 | 305 | 1027 | 307 | 1066 | 306 | | | | | | | 1070 | 306 |
| Comb. Total | | 0 | | 16205 | | 16338 | | 13957 | | 0 | | 0 | | 0 | | 16182 |
| ADT | | ADT 16 | ,272 | AA | DT 16,272 | | | | | | | | | | | |

I-64 EIS counts

3656 E. Stratford Road Virginia Beach, VA 23455 (757) 464-5129

I-64 EIS #26301 #6

I-64 WB off ramp to EB Mercury

| Start | Mon | Tue | Wed | Thu | Fri | Avera | age Sat | Sun | Week |
|-------------|-----------|-----------|--------|--------|-----------|--------|---------|-------|--------|
| Time | 18-Apr-11 | 19-Apr-11 | | | 22-Apr-11 | Da | | | |
| 12:00 AM | * | 91 | 65 | 97 | * | 8 | | * | 84 |
| 01:00 | * | 26 | 47 | 50 | * | 4 | | * | 41 |
| 02:00 | * | 20 | 51 | 40 | * | 3 | | * | 37 🔲 |
| 03:00 | * | 24 | 27 | 27 | * | 2 | 6 * | * | 26 |
| 04:00 | * | 34 | 31 | 29 | * | 3 | | * | 31 🛮 |
| 05:00 | * | 84 | 64 | 75 | * | 7 | | * | 74 |
| 06:00 | * | 159 | 182 | 151 | * | 16 | | * | 164 |
| 07:00 | * | 301 | 312 | 309 | * | 30 | 7 * | * | 307 |
| 08:00 | * | 379 | 417 | 430 | * | 40 | 9 * | * | 409 |
| 09:00 | * | 332 | 362 | 348 | * | 34 | | * | 347 |
| 10:00 | * | 375 | 394 | 422 | * | 39 | 7* | * | 397 |
| 11:00 | * | 453 | 520 | 517 | * | 49 | * | * | 497 |
| 12:00 PM | * | 522 | 463 | 530 | * | 50 | 5 * | * | 505 |
| 01:00 | * | 340 | 486 | 499 | * | 44 | | * | 442 |
| 02:00 | * | 421 | 482 | * | * | 45 | | * | 452 |
| 03:00 | * | 544 | 566 | * | * | 55 | | * | 555 |
| 04:00 | * | 600 | 668 | * | * | 63 | | * | 634 |
| 05:00 | * | 608 | 581 | * | * | 59 | | * | 594 |
| 06:00 | * | 473 | 510 | * | * | 49 | | * | 492 |
| 07:00 | * | 409 | 385 | * | * | 39 | | * | 397 |
| 08:00 | * | 352 | 350 | * | * | 35 | | * | 351 |
| 09:00 | * | 245 | 264 | * | * | 25 | | * | 254 |
| 10:00 | * | 162 | 164 | * | * | 16 | | * | 163 |
| 11:00 | * | 87 | 102 | * | * | 9 | | * | 94 |
| Day Total | 0 | 7041 | 7493 | 3524 | 0 | 734 | | 0 | 7347 |
| % Avg. | 0.0% | 95.8% | 102.0% | 48.0% | 0.0% | | | | |
| WkDay | | | | | | 400.00 | 0.007 | 0.007 | |
| Avg. Week | 0.0% | 95.8% | 102.0% | 48.0% | 0.0% | 100.09 | | 0.0% | 11.00 |
| AM Peak | | 11:00 | 11:00 | 11:00 | | 11:0 | | | 11:00 |
| Vol. | | 453 | 520 | 517 | | 49 | | | 497 |
| PM Peak | | 17:00 | 16:00 | 12:00 | | 16:0 | | | 16:00 |
| Vol. | | 608 | 668 | 530 | = | 63 | | | 634 |
| Grand Total | | 0 7 | 041 | 7493 3 | 524 | 0 | 7347 | 0 | 0 7347 |

I-64 EIS counts

ADT

ADT 19,494

AADT 19,494

3656 E. Stratford Road Virginia Beach, VA 23455 (757) 464-5129

I-64 EIS #26302-07

I-64 WB on ramp fm EB Mercury I-64 EB on ramp fm EB Mercury

| Start | 18-Ap | r-11 | Т | ue | W | /ed | Т | hu | F | ri | Sa | at | Sı | un | Week Av | verage |
|----------------|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---------|--------|
| Time | WB on . | EB on | WB on | EB on |
| 12:00 AM | * | * | 73 | 75 | 100 | 87 | 104 | 102 | * | * | * | * | * | * | 92 | 88 |
| 01:00 | * | * | 41 | 37 | 47 | 44 | 80 | 107 | * | * | * | * | * | * | 56 | 63 |
| 02:00 | * | * | 37 | 28 | 34 | 41 | 62 | 74 | * | * | * | * | * | * | 44 | 48 |
| 03:00 | * | * | 33 | 31 | 45 | 27 | 44 | 40 | * | * | * | * | * | * | 41 | 33 |
| 04:00 | * | * | 69 | 79 | 63 | 82 | 78 | 79 | * | * | * | * | * | * | 70 | 80 |
| 05:00 | * | * | 192 | 326 | 225 | 308 | 194 | 305 | * | * | * | * | * | * | 204 | 313 |
| 06:00 | * | * | 545 | 513 | 521 | 506 | 547 | 530 | * | * | * | * | * | * | 538 | 516 |
| 07:00 | * | * | 800 | 690 | 803 | 667 | 758 | 657 | * | * | * | * | * | * | 787 | 671 |
| 08:00 | * | * | 665 | 579 | 640 | 604 | 646 | 579 | * | * | * | * | * | * | 650 | 587 |
| 09:00 | * | * | 544 | 465 | 563 | 478 | 561 | 454 | * | * | * | * | * | * | 556 | 466 |
| 10:00 | * | * | 533 | 431 | 599 | 431 | 556 | 423 | * | * | * | * | * | * | 563 | 428 |
| 11:00 | * | * | 537 | 455 | 535 | 503 | 538 | 421 | * | * | * | * | * | * | 537 | 460 |
| 12:00 PM | * | * | 569 | 482 | 623 | 476 | 619 | 486 | * | * | * | * | * | * | 604 | 481 |
| 01:00 | * | * | 602 | 451 | 593 | 465 | 625 | 489 | * | * | * | * | * | * | 607 | 468 |
| 02:00 | * | * | 654 | 436 | 663 | 487 | 736 | 497 | * | * | * | * | * | * | 684 | 473 |
| 03:00 | * | * | 777 | 481 | 797 | 519 | * | * | * | * | * | * | * | * | 787 | 500 |
| 04:00 | * | * | 904 | 510 | 873 | 536 | * | * | * | * | * | * | * | * | 888 | 523 |
| 05:00 | * | * | 775 | 510 | 819 | 489 | * | * | * | * | * | * | * | * | 797 | 500 |
| 06:00 | * | * | 611 | 511 | 666 | 479 | * | * | * | * | * | * | * | * | 638 | 495 |
| 07:00 | * | * | 446 | 392 | 462 | 379 | * | * | * | * | * | * | * | * | 454 | 386 |
| 08:00 | * | * | 444 | 372 | 464 | 370 | * | * | * | * | * | * | * | * | 454 | 371 |
| 09:00 | * | * | 403 | 302 | 451 | 410 | * | * | * | * | * | * | * | * | 427 | 356 |
| 10:00 | * | * | 277 | 189 | 256 | 222 | * | * | * | * | * | * | * | * | 266 | 206 |
| 11:00 | * | * | 174 | 136 | 196 | 154 | * | * | * | * | * | * | * | * | 185 | 145 |
| Lane | 0 | 0 | 10705 | 8481 | 11038 | 8764 | 6148 | 5243 | 0 | 0 | 0 | 0 | 0 | 0 | 10929 | 8657 |
| Day | 0 | | 1918 | 86 | 198 | 02 | 113 | | 0 | | 0 | | 0 | | 19586 | |
| AM Peak | | | 07:00 | 07:00 | 07:00 | 07:00 | 07:00 | 07:00 | | | | | | | 07:00 | 07:00 |
| Vol. | | | 800 | 690 | 803 | 667 | 758 | 657 | | | | | | | 787 | 671 |
| PM Peak | | | 16:00 | 18:00 | 16:00 | 16:00 | 14:00 | 14:00 | | | | | | | 16:00 | 16:00 |
| Vol. | | | 904 | 511 | 873 | 536 | 736 | 497 | | | | | | | 888 | 523 |
| Comb. Total | | 0 | | 19186 | | 19802 | | 11391 | | 0 | | 0 | | 0 | | 19586 |

I-64 EIS counts

3656 E. Stratford Road Virginia Beach, VA 23455 (757) 464-5129

I-64 EIS #26303-04

I-64 WB on ramp fm WB Mercury I-64 WB off ramp to WB Mercury

| Start | 18-Ap | r-11 | Т | ue | W | 'ed | Т | 'hu | F | ri | S | at | Sı | un | Week A | Average |
|----------------|---------|--------|-------|--------|-----------|--------|-------|--------|-------|--------|-------|--------|-------|--------|--------|---------|
| Time | WB on . | WB off | WB on | WB off | WB on | WB off | WB on | WB off | WB on | WB off | WB on | WB off | WB on | WB off | WB on | WB off |
| 12:00 AM | * | * | 80 | 88 | 85 | 89 | 105 | 127 | * | * | * | * | * | * | 90 | 101 |
| 01:00 | * | * | 45 | 42 | 47 | 34 | 71 | 54 | * | * | * | * | * | * | 54 | 43 |
| 02:00 | * | * | 20 | 26 | 28 | 14 | 39 | 37 | * | * | * | * | * | * | 29 | 26 |
| 03:00 | * | * | 28 | 13 | 34 | 20 | 43 | 20 | * | * | * | * | * | * | 35 | 18 |
| 04:00 | * | * | 49 | 33 | 51 | 29 | 36 | 48 | * | * | * | * | * | * | 45 | 37 |
| 05:00 | * | * | 134 | 100 | 134 | 87 | 128 | 87 | * | * | * | * | * | * | 132 | 91 |
| 06:00 | * | * | 333 | 231 | 337 | 229 | 381 | 239 | * | * | * | * | * | * | 350 | 233 |
| 07:00 | * | * | 571 | 430 | 542 | 412 | 535 | 360 | * | * | * | * | * | * | 549 | 401 |
| 08:00 | * | * | 457 | 394 | 463 | 386 | 442 | 409 | * | * | * | * | * | * | 454 | 396 |
| 09:00 | * | * | 453 | 360 | 384 | 380 | 386 | 344 | * | * | * | * | * | * | 408 | 361 |
| 10:00 | * | * | 398 | 321 | 388 | 360 | 419 | 321 | * | * | * | * | * | * | 402 | 334 |
| 11:00 | * | * | 457 | 400 | 464 | 434 | 452 | 415 | * | * | * | * | * | * | 458 | 416 |
| 12:00 PM | * | * | 532 | 426 | 538 | 440 | 597 | 392 | * | * | * | * | * | * | 556 | 419 |
| 01:00 | * | * | 519 | 228 | 580 | 442 | 529 | 410 | * | * | * | * | * | * | 543 | 360 |
| 02:00 | * | * | 449 | 358 | 559 | 502 | * | * | * | * | * | * | * | * | 504 | 430 |
| 03:00 | * | * | 565 | 587 | 540 | 542 | * | * | * | * | * | * | * | * | 552 | 564 |
| 04:00 | * | * | 597 | 627 | 574 | 592 | * | * | * | * | * | * | * | * | 586 | 610 |
| 05:00 | * | * | 625 | 643 | 644 | 581 | * | * | * | * | * | * | * | * | 634 | 612 |
| 06:00 | * | * | 520 | 517 | 559 | 501 | * | * | * | * | * | * | * | * | 540 | 509 |
| 07:00 | * | * | 506 | 435 | 460 | 428 | * | * | * | * | * | * | * | * | 483 | 432 |
| 08:00 | * | * | 470 | 343 | 399 | 340 | * | * | * | * | * | * | * | * | 434 | 342 |
| 09:00 | * | * | 462 | 220 | 361 | 240 | * | * | * | * | * | * | * | * | 412 | 230 |
| 10:00 | * | * | 251 | 175 | 217 | 226 | * | * | * | * | * | * | * | * | 234 | 200 |
| 11:00 | * | * | 137 | 101 | 149 | 154 | * | * | * | * | * | * | * | * | 143 | 128 |
| Lane | 0 | 0 | 8658 | 7098 | 8537 | 7462 | 4163 | 3263 | 0 | 0 | 0 | 0 | 0 | 0 | 8627 | 7293 |
| Day | 0 | | 157 | | 159 | | 742 | | 0 | | 0 | | 0 | | 1592 | |
| AM Peak | | | 07:00 | 07:00 | 07:00 | 11:00 | 07:00 | 11:00 | | | | | | | 07:00 | 11:00 |
| Vol. | | | 571 | 430 | 542 | 434 | 535 | 415 | | | | | | | 549 | 416 |
| PM Peak | | | 17:00 | 17:00 | 17:00 | 16:00 | 12:00 | 13:00 | | | | | | | 17:00 | 17:00 |
| Vol. | | | 625 | 643 | 644 | 592 | 597 | 410 | | | | | | | 634 | 612 |
| Comb. Total | | 0 | | 15756 | | 15999 | | 7426 | | 0 | | 0 | | 0 | | 15920 |
| ADT | - | ADT 15 | 5,878 | AA | DT 15,878 | | | | | | | | | | | |

I-64 EIS counts

3656 E. Stratford Road Virginia Beach, VA 23455 (757) 464-5129

I-64 EIS #26305-08

I-64 EB off ramp to WB Mercury I-64 EB off ramp to EB Mercury

| Start | 18-Ap | r-11 | Т | ue | W | ed | Т | hu | F | ri | Sa | at | S | un | Week A | Average |
|--------------|----------|---------|---------|---------|-----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Time | EB to WB | EB to E | EB to W | EB to E | EB to W | EB to E | EB to W | EB to E | EB to W | EB to E | EB to W | EB to E | EB to W | EB to E | EB to W | EB to E |
| 12:00 AM | * | * | * | * | 88 | 85 | 96 | 82 | * | * | * | * | * | * | 92 | 84 |
| 01:00 | * | * | * | * | 51 | 40 | 63 | 47 | * | * | * | * | * | * | 57 | 44 |
| 02:00 | * | * | * | * | 33 | 36 | 48 | 45 | * | * | * | * | * | * | 40 | 40 |
| 03:00 | * | * | * | * | 29 | 25 | 40 | 16 | * | * | * | * | * | * | 34 | 20 |
| 04:00 | * | * | * | * | 89 | 30 | 78 | 41 | * | * | * | * | * | * | 84 | 36 |
| 05:00 | * | * | * | * | 212 | 66 | 224 | 53 | * | * | * | * | * | * | 218 | 60 |
| 06:00 | * | * | * | * | 426 | 209 | 444 | 230 | * | * | * | * | * | * | 435 | 220 |
| 07:00 | * | * | * | * | 659 | 478 | 615 | 506 | * | * | * | * | * | * | 637 | 492 |
| 08:00 | * | * | * | * | 571 | 459 | 575 | 531 | * | * | * | * | * | * | 573 | 495 |
| 09:00 | * | * | * | * | 502 | 377 | 490 | 419 | * | * | * | * | * | * | 496 | 398 |
| 10:00 | * | * | * | * | 484 | 412 | 508 | 428 | * | * | * | * | * | * | 496 | 420 |
| 11:00 | * | * | * | * | 550 | 484 | 558 | 462 | * | * | * | * | * | * | 554 | 473 |
| 12:00 PM | * | * | * | * | 550 | 496 | 621 | 519 | * | * | * | * | * | * | 586 | 508 |
| 01:00 | * | * | * | * | 574 | 484 | 612 | 494 | * | * | * | * | * | * | 593 | 489 |
| 02:00 | * | * | * | * | 560 | 478 | 630 | 488 | * | * | * | * | * | * | 595 | 483 |
| 03:00 | * | * | * | * | 706 | 634 | * | * | * | * | * | * | * | * | 706 | 634 |
| 04:00 | * | * | * | * | 828 | 750 | * | * | * | * | * | * | * | * | 828 | 750 |
| 05:00 | * | * | * | * | 853 | 814 | * | * | * | * | * | * | * | * | 853 | 814 |
| 06:00 | * | * | * | * | 760 | 604 | * | * | * | * | * | * | * | * | 760 | 604 |
| 07:00 | * | * | 545 | 437 | 535 | 432 | * | * | * | * | * | * | * | * | 540 | 434 |
| 08:00 | * | * | 388 | 373 | 431 | 372 | * | * | * | * | * | * | * | * | 410 | 372 |
| 09:00 | * | * | 300 | 280 | 380 | 321 | * | * | * | * | * | * | * | * | 340 | 300 |
| 10:00 | * | * | 237 | 185 | 236 | 173 | * | * | * | * | * | * | * | * | 236 | 179 |
| 11:00 | * | * | 139 | 143 | 170 | 94 | * | * | * | * | * | * | * | * | 154 | 118 |
| Lane | 0 | 0 | 1609 | 1418 | 10277 | 8353 | 5602 | 4361 | 0 | 0 | 0 | 0 | 0 | 0 | 10317 | 8467 |
| Day | 0 | | 302 | 27 | 1863 | | 996 | | 0 | | 0 | | 0 | | 1878 | |
| AM Peak | | | | | 07:00 | 11:00 | 07:00 | 08:00 | | | | | | | 07:00 | 08:00 |
| Vol. | | | | | 659 | 484 | 615 | 531 | | | | | | | 637 | 495 |
| PM Peak | | | 19:00 | 19:00 | 17:00 | 17:00 | 14:00 | 12:00 | | | | | | | 17:00 | 17:00 |
| Vol. | | | 545 | 437 | 853 | 814 | 630 | 519 | | | | | | | 853 | 814 |
| Comb Tota | | 0 | | 3027 | | 18630 | | 9963 | | 0 | | 0 | | 0 | | 18784 |
| AD | т | ADT 1 | 8,630 | AA | DT 18,630 | | | | | | | | | | | |

I-64 EIS counts

3656 E. Stratford Road Virginia Beach, VA 23455 (757) 464-5129

I-64 EIS #26306

I-64 EB on ramp fm WB Mercury

| T' | Mon | Tue | Wed | Thu | Fri | Avera | age Sat | Sun | Week | |
|-----------------|----------------|-----------|--------|-------------|----------------|--------|---------|-------------|-------|------|
| Time | 18-Apr-11 * | 19-Apr-11 | | 1 21-Apr-11 | 22-Apr-11 * | Da | | 11 24-Apr-1 | | |
| 12:00 AM | * | 71 | 59 | 77 | * | | 9 | | 69 | |
| 01:00 | * | 31 | 42 | 48 | * | | U | | 40 | |
| 02:00 | * | 19 | 16 | 45 | * | | 1 | | 27 | _ |
| 03:00 | * | 14 | 16 | 21 | * | | 1 | * | 17 | |
| 04:00 | * | 33 | 37 | 46 | * | | 9 | | 39 | |
| 05:00 | * | 132 | 109 | 119 | * | 12 | | | 120 | |
| 06:00 | * | 206 | 199 | 182 | * | 19 | | | 196 | |
| 07:00 | | 175 | 188 | 191 | * | 18 | ວ | | 185 | |
| 08:00 | * | 181 | 219 | 197 | * | 19 | | * | 199 | |
| 09:00 | * | 220 | 217 | 214 | * | 21 | 1 | | 217 | |
| 10:00 | * | 222 | 262 | 244 | | 24 | | | 243 | |
| 11:00 | * | 248 | 276 | 265 | * | 26 | | * | 263 | |
| 12:00 PM | * | 372 | 408 | 359 | * | 38 | * | * | 380 | |
| 01:00 | * | 334 | 370 | 383 | * | 36 | 2 * | * | 362 | |
| 02:00 | * | 298 | 349 | 360 | * | 33 | 6 * | * | 336 | |
| 03:00 | * | 298 | 349 | * | * | 32 | 4 * | * | 324 | |
| 04:00 | * | 306 | 322 | * | * | 31 | 4 * | * | 314 | |
| 05:00 | * | 329 | 401 | * | * | 36 | 5 * | * | 365 | |
| 06:00 | * | 334 | 280 | * | * | 30 | 7 * | * | 307 | |
| 07:00 | * | 303 | 305 | * | * | 30 | 4 * | * | 304 | |
| 08:00 | * | 300 | 316 | * | * | 30 | 8 * | * | 308 | |
| 09:00 | * | 270 | 240 | * | * | 25 | | * | 255 | |
| 10:00 | * | 186 | 166 | * | * | 17 | 6 * | * | 176 | |
| 11:00 | * | 110 | 127 | * | * | 11 | | * | 118 | |
| Day Total | 0 | 4992 | 5273 | 2751 | 0 | 516 | 4 0 | 0 | 5164 | |
| % Avg. WkDay | 0.0% | 96.7% | 102.1% | 53.3% | 0.0% | | | | | |
| Avg. Week | 0.0% | 96.7% | 102.1% | 53.3% | 0.0% | 100.09 | % 0.0% | 0.0% | | |
| AM Peak | | 11:00 | 11:00 | 11:00 | | 11:0 | | | 11:00 | |
| Vol. | | 248 | 276 | 265 | | 26 | | | 263 | |
| PM Peak | | 12:00 | 12:00 | 13:00 | | 12:0 | 0 | | 12:00 | |
| Vol. | | 372 | 408 | 383 | | 38 | 0 | | 380 | |
| Grand Total | | 0 4 | 1992 | 5273 2 | 751 | 0 | 5164 | 0 | 0 | 5164 |

I-64 EIS counts

Total

ADT

ADT 41,420

AADT 41,420

3656 E. Stratford Road Virginia Beach, VA 23455 (757) 464-5129

I-64 EIS #26309

Mercury Blvd EB Mercury Blvd WB

| Start | 18-Apr | ·-11 | - | Tue | V | Ved | - | Thu | F | ri | Sa | at | Su | n | Week A | Average |
|----------------|--------|------|-------|-------|-------|-------|-------|-------|----|----|----|----|----|----|--------|---------|
| Time | EB . | WB | EB | WB | EB | WB | EB | WB | EB | WB | EB | WB | EB | WB | EB | WВ |
| 12:00 AM | * | * | 141 | 219 | 140 | 230 | 163 | 317 | * | * | * | * | * | * | 148 | 255 |
| 01:00 | * | * | 69 | 140 | 75 | 138 | 122 | 177 | * | * | * | * | * | * | 89 | 152 |
| 02:00 | * | * | 57 | 84 | 59 | 85 | 162 | 124 | * | * | * | * | * | * | 93 | 98 |
| 03:00 | * | * | 40 | 60 | 60 | 72 | 57 | 78 | * | * | * | * | * | * | 52 | 70 |
| 04:00 | * | * | 54 | 134 | 52 | 119 | 52 | 141 | * | * | * | * | * | * | 53 | 131 |
| 05:00 | * | * | 131 | 335 | 142 | 345 | 135 | 323 | * | * | * | * | * | * | 136 | 334 |
| 06:00 | * | * | 422 | 656 | 430 | 649 | 462 | 656 | * | * | * | * | * | * | 438 | 654 |
| 07:00 | * | * | 916 | 1087 | 909 | 1075 | 944 | 1054 | * | * | * | * | * | * | 923 | 1072 |
| 08:00 | * | * | 823 | 1112 | 843 | 1152 | 901 | 1125 | * | * | * | * | * | * | 856 | 1130 |
| 09:00 | * | * | 801 | 1151 | 844 | 1171 | 781 | 1129 | * | * | * | * | * | * | 809 | 1150 |
| 10:00 | * | * | 919 | 1232 | 981 | 1272 | 902 | 1178 | * | * | * | * | * | * | 934 | 1227 |
| 11:00 | * | * | 1133 | 1411 | 1143 | 1533 | 1098 | 1461 | * | * | * | * | * | * | 1125 | 1468 |
| 12:00 PM | * | * | 1173 | 1606 | 1241 | 1566 | 1251 | 1504 | * | * | * | * | * | * | 1222 | 1559 |
| 01:00 | * | * | 1142 | 1369 | 1171 | 1560 | 1131 | 1541 | * | * | * | * | * | * | 1148 | 1490 |
| 02:00 | * | * | 1128 | 1481 | 1168 | 1588 | 1188 | 1452 | * | * | * | * | * | * | 1161 | 1507 |
| 03:00 | * | * | 1295 | 1659 | 1383 | 1710 | * | * | * | * | * | * | * | * | 1339 | 1684 |
| 04:00 | * | * | 1417 | 1940 | 1415 | 1979 | * | * | * | * | * | * | * | * | 1416 | 1960 |
| 05:00 | * | * | 1469 | 1991 | 1299 | 1917 | * | * | * | * | * | * | * | * | 1384 | 1954 |
| 06:00 | * | * | 1139 | 1645 | 1157 | 1673 | * | * | * | * | * | * | * | * | 1148 | 1659 |
| 07:00 | * | * | 971 | 1428 | 962 | 1405 | * | * | * | * | * | * | * | * | 966 | 1416 |
| 08:00 | * | * | 769 | 1146 | 828 | 1155 | * | * | * | * | * | * | * | * | 798 | 1150 |
| 09:00 | * | * | 636 | 853 | 635 | 918 | * | * | * | * | * | * | * | * | 636 | 886 |
| 10:00 | * | * | 356 | 595 | 387 | 651 | * | * | * | * | * | * | * | * | 372 | 623 |
| 11:00 | * | * | 213 | 339 | 231 | 435 | * | * | * | * | * | * | * | * | 222 | 387 |
| Lane | 0 | 0 | 17214 | 23673 | 17555 | 24398 | 9349 | 12260 | 0 | 0 | 0 | 0 | 0 | 0 | 17468 | 24016 |
| Day | 0 | | 408 | 387 | 419 | 953 | 216 | 609 | 0 | | 0 | | 0 | | 4148 | 34 |
| AM Peak | | | 11:00 | 11:00 | 11:00 | 11:00 | 11:00 | 11:00 | | | | | | | 11:00 | 11:00 |
| Vol. | | | 1133 | 1411 | 1143 | 1533 | 1098 | 1461 | | | | | | | 1125 | 1468 |
| PM Peak | | | 17:00 | 17:00 | 16:00 | 16:00 | 12:00 | 13:00 | | | | | | | 16:00 | 16:00 |
| Vol. | | | 1469 | 1991 | 1415 | 1979 | 1251 | 1541 | | | | | | | 1416 | 1960 |
| Comb. Total | | 0 | | 40887 | | 41953 | | 21609 | | 0 | | 0 | | 0 | | 41484 |

3656 E. Stratford Road Virginia Beach, VA 23455 (757) 464-5129

I-64 EIS counts Exit 190 - I-95

AM counted: 05/04/11 PM counted: 05/03/11

File Name: I-64 EIS #190

Site Code : 190 Start Date : 5/4/2011

Page No : 1

| | | | | | | | G | roups I | Printed | <u>- All V</u> | ehicles | | | | | | | | |
|---------------------|------------|--------------|-------------|------|--------------|-------------|------------|---------|----------------|----------------|--------------|------|------|-------|-------|------|--------------|--------------|------------|
| | | I- | 95 | | | I- | 64 | | | I- | 95 | | | | | | | | |
| | | Southb | ound | | | Westb | ound | | | North | bound | | | Eastb | ound | | | | |
| Start Time | Left | Thru | Right | Trks | Left | Thru | Right | Trks | Left | Thru | Right | Trks | Left | Thru | Right | Trks | Exclu. Total | Inclu. Total | Int. Total |
| 07:00 AM | 311 | 663 | 203 | 56 | 326 | 182 | 423 | 15 | 0 | 294 | 135 | 31 | 0 | 0 | 0 | 0 | 102 | 2537 | 2639 |
| 07:15 AM | 294 | 828 | 264 | 54 | 360 | 254 | 471 | 10 | 0 | 306 | 161 | 13 | 0 | 0 | 0 | 0 | 77 | 2938 | 3015 |
| 07:30 AM | 356 | 781 | 323 | 63 | 396 | 304 | 440 | 19 | 0 | 372 | 169 | 26 | 0 | 0 | 0 | 0 | 108 | 3141 | 3249 |
| 07:45 AM | 312 | 695 | 323 | 55 | 418 | 287 | 380 | 10 | 0 | 450 | 243 | 34 | 0 | 0 | 0 | 0 | 99 | 3108 | 3207 |
| Total | 1273 | 2967 | 1113 | 228 | 1500 | 1027 | 1714 | 54 | 0 | 1422 | 708 | 104 | 0 | 0 | 0 | 0 | 386 | 11724 | 12110 |
| 08:00 AM | 269 | 723 | 273 | 83 | 350 | 288 | 378 | 18 | 0 | 499 | 216 | 28 | 0 | 0 | 0 | 0 | 129 | 2996 | 3125 |
| 08:15 AM | 271 | 798 | 350 | 61 | 322 | 286 | 389 | 15 | 0 | 550 | 310 | 37 | 0 | 0 | 0 | 0 | 113 | 3276 | 3389 |
| 08:30 AM | 260 | 787 | 308 | 60 | 333 | 256 | 423 | 19 | 0 | 552 | 269 | 41 | 0 | 0 | 0 | 0 | 120 | 3188 | 3308 |
| 08:45 AM | 239 | 719 | 262 | 79 | 346 | 230 | 404 | 15 | 0 | 620 | 310 | 51 | 0 | 0 | 0 | 0 | 145 | 3130 | 3275 |
| Total | 1039 | 3027 | 1193 | 283 | 1351 | 1060 | 1594 | 67 | 0 | 2221 | 1105 | 157 | 0 | 0 | 0 | 0 | 507 | 12590 | 13097 |
| 04:00 PM | 576 | 761 | 68 | 87 | 364 | 247 | 205 | 26 | 0 | 549 | 420 | 34 | 0 | 0 | 0 | 0 | 147 | 3190 | 3337 |
| 04:15 PM | 561 | 633 | 63 | 51 | 348 | 264 | 223 | 18 | 0 | 569 | 449 | 32 | 0 | 0 | 0 | 0 | 101 | 3110 | 3211 |
| 04:30 PM | 616 | 784 | 71 | 73 | 401 | 219 | 204 | 20 | 0 | 567 | 444 | 39 | 0 | 0 | 0 | 0 | 132 | 3306 | 3438 |
| 04:45 PM | 566 | 661 | 83 | 48 | 367 | 183 | 213 | 12 | 0 | 505 | 439 | 40 | 0 | 0 | 0 | 0 | 100 | 3017 | 3117 |
| Total | 2319 | 2839 | 285 | 259 | 1480 | 913 | 845 | 76 | 0 | 2190 | 1752 | 145 | 0 | 0 | 0 | 0 | 480 | 12623 | 13103 |
| 05:00 PM | 562 | 785 | 56 | 61 | 392 | 208 | 183 | 18 | 0 | 417 | 458 | 22 | 0 | 0 | 0 | 0 | 101 | 3061 | 3162 |
| 05:15 PM | 566 | 767 | 62 | 36 | 377 | 225 | 148 | 7 | 0 | 319 | 385 | 14 | 0 | 0 | 0 | Ő | 57 | 2849 | 2906 |
| 05:30 PM | 621 | 720 | 66 | 45 | 289 | 186 | 175 | 14 | 0 | 333 | 345 | 26 | 0 | 0 | 0 | Ő | 85 | 2735 | 2820 |
| 05:45 PM | 483 | 636 | 62 | 30 | 216 | 141 | 164 | 6 | 0 | 360 | 318 | 19 | 0 | 0 | 0 | Ö | 55 | 2380 | 2435 |
| Total | 2232 | 2908 | 246 | 172 | 1274 | 760 | 670 | 45 | 0 | 1429 | 1506 | 81 | 0 | 0 | 0 | 0 | 298 | 11025 | 11323 |
| Grand Total | 6863 | 11741 | 2837 | 942 | 5605 | 3760 | 4823 | 242 | 0 | 7262 | 5071 | 487 | 0 | 0 | 0 | 0 | 1671 | 47962 | 49633 |
| Apprch % Total % | 32 14.3 | 54.8 24.5 | 13.2 5.9 | | 39.5 11.7 | 26.5 7.8 | 34 10.1 | | 0 0 | 58.9 15.1 | 41.1 10.6 | | 0 | 0 | 0 | | 3.4 | 96.6 | |

| | | I | -95 | | | I | -64 | | | I | -95 | | | | | | |
|-----------------|------------|-----------|----------|------------|----------|------|-------|------------|------|-------|-------|------------|------|-------|-------|------------|------------|
| | | South | bound | | | West | bound | | | North | bound | | | Eastl | oound | | |
| Start Time | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Int. Total |
| Peak Hour Analy | ysis Froi | m 07:00 | AM to (| 08:45 AM | - Peak 1 | of 1 | | | | | | | | | | | |
| Peak Hour for E | ntire Inte | ersection | n Begins | at 08:00 A | M | | | | | | | | | | | | |
| 08:00 AM | 269 | 723 | 273 | 1265 | 350 | 288 | 378 | 1016 | 0 | 499 | 216 | 715 | 0 | 0 | 0 | 0 | 2996 |
| 08:15 AM | 271 | 798 | 350 | 1419 | 322 | 286 | 389 | 997 | 0 | 550 | 310 | 860 | 0 | 0 | 0 | 0 | 3276 |
| 08:30 AM | 260 | 787 | 308 | 1355 | 333 | 256 | 423 | 1012 | 0 | 552 | 269 | 821 | 0 | 0 | 0 | 0 | 3188 |
| 08:45 AM | 239 | 719 | 262 | 1220 | 346 | 230 | 404 | 980 | 0 | 620 | 310 | 930 | 0 | 0 | 0 | 0 | 3130 |
| Total Volume | 1039 | 3027 | 1193 | 5259 | 1351 | 1060 | 1594 | 4005 | 0 | 2221 | 1105 | 3326 | 0 | 0 | 0 | 0 | 12590 |
| % App. Total | 19.8 | 57.6 | 22.7 | | 33.7 | 26.5 | 39.8 | | 0 | 66.8 | 33.2 | | 0 | 0 | 0 | | |
| DHE | 958 | 9/18 | 852 | 927 | 965 | 920 | 9/12 | 985 | 000 | 896 | 801 | 804 | 000 | 000 | 000 | 000 | 961 |

3656 E. Stratford Road Virginia Beach, VA 23455 (757) 464-5129

I-64 EIS counts Exit 190 - I-95

AM counted: 05/04/11 PM counted: 05/03/11

File Name: I-64 EIS #190

Site Code : 190 Start Date : 5/4/2011

Page No : 2

| | | I- | -95 | | | I | -64 | | | I | -95 | | | | | |] |
|-----------------|-----------|-----------|---------|------------|----------|------|-------|------------|------|-------|-------|------------|------|-------|-------|------------|------------|
| | | South | bound | | | West | bound | | | North | bound | | | Eastl | oound | | |
| Start Time | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Int. Total |
| Peak Hour Analy | ysis Froi | m 04:00 | PM to 0 | 5:45 PM - | Peak 1 c | of 1 | | | | | | | | | _ | | |
| Peak Hour for E | ntire Int | ersection | Begins | at 04:00 P | M | | | | | | | | | | | | |
| 04:00 PM | 576 | 761 | 68 | 1405 | 364 | 247 | 205 | 816 | 0 | 549 | 420 | 969 | 0 | 0 | 0 | 0 | 3190 |
| 04:15 PM | 561 | 633 | 63 | 1257 | 348 | 264 | 223 | 835 | 0 | 569 | 449 | 1018 | 0 | 0 | 0 | 0 | 3110 |
| 04:30 PM | 616 | 784 | 71 | 1471 | 401 | 219 | 204 | 824 | 0 | 567 | 444 | 1011 | 0 | 0 | 0 | 0 | 3306 |
| 04:45 PM | 566 | 661 | 83 | 1310 | 367 | 183 | 213 | 763 | 0 | 505 | 439 | 944 | 0 | 0 | 0 | 0 | 3017 |
| Total Volume | 2319 | 2839 | 285 | 5443 | 1480 | 913 | 845 | 3238 | 0 | 2190 | 1752 | 3942 | 0 | 0 | 0 | 0 | 12623 |
| % App. Total | 42.6 | 52.2 | 5.2 | | 45.7 | 28.2 | 26.1 | | 0 | 55.6 | 44.4 | | 0 | 0 | 0 | | |
| PHF | .941 | .905 | .858 | .925 | .923 | .865 | .947 | .969 | .000 | .962 | .976 | .968 | .000 | .000 | .000 | .000 | .955 |

3656 E. Stratford Road Virginia Beach, VA 23455 (757) 464-5129

I-64 EIS counts Exit 190 - I-95

AM counted: 05/04/11 PM counted: 05/03/11

File Name: I-64 EIS #19014

Site Code : 19014 Start Date : 5/3/2011

Page No : 1

| | | | | | | | <u> </u> | toups i | rimeu | | | | | | | | 1 | | |
|-------------|------|--------|-------|------|------|-------|----------|---------|-------|-------|-------|------|------|-------|-------|------|--------------|--------------|------------|
| | | N 5t | h St | | | | | | | N 5t | h St | | | | | | | | |
| | | Southb | ound | | | Westb | ound | | | North | oound | | | Eastb | ound | | | | |
| Start Time | Left | Thru | Right | Trks | Left | Thru | Right | Trks | Left | Thru | Right | Trks | Left | Thru | Right | Trks | Exclu. Total | Inclu. Total | Int. Total |
| 07:00 AM | 0 | 21 | 3 | 7 | 0 | 0 | 0 | 0 | 6 | 13 | 0 | 4 | 0 | 0 | 0 | 0 | 11 | 43 | 54 |
| 07:15 AM | 0 | 15 | 1 | 4 | 0 | 0 | 0 | 0 | 11 | 30 | 0 | 3 | 0 | 0 | 0 | 0 | 7 | 57 | 64 |
| 07:30 AM | 0 | 29 | 6 | 4 | 0 | 0 | 0 | 0 | 7 | 40 | 0 | 1 | 0 | 0 | 0 | 0 | 5 | 82 | 87 |
| 07:45 AM | 0 | 24 | 5 | 2 | 0 | 0 | 0 | 0 | 12 | 58 | 0 | 3 | 0 | 0 | 0 | 0 | 5 | 99 | 104 |
| Total | 0 | 89 | 15 | 17 | 0 | 0 | 0 | 0 | 36 | 141 | 0 | 11 | 0 | 0 | 0 | 0 | 28 | 281 | 309 |
| 08:00 AM | 0 | 32 | 10 | 5 | 0 | 0 | 0 | 0 | 20 | 32 | 0 | 4 | 0 | 0 | 0 | 0 | 9 | 94 | 103 |
| 08:15 AM | 0 | 27 | 6 | 4 | 0 | 0 | 0 | 0 | 11 | 43 | 0 | 2 | 0 | 0 | 0 | 0 | 6 | 87 | 93 |
| 08:30 AM | 0 | 21 | 7 | 3 | 0 | 0 | 0 | 0 | 9 | 29 | 0 | 3 | 0 | 0 | 0 | 0 | 6 | 66 | 72 |
| 08:45 AM | 0 | 29 | 29 | 1 | 0 | 0 | 0 | 0 | 3 | 37 | 0 | 3 | 0 | 0 | 0 | 0 | 4 | 98 | 102 |
| Total | 0 | 109 | 52 | 13 | 0 | 0 | 0 | 0 | 43 | 141 | 0 | 12 | 0 | 0 | 0 | 0 | 25 | 345 | 370 |
| | | | | | | | | | | | | | | | | | | | |
| 04:00 PM | 3 | 45 | 19 | 5 | 0 | 0 | 0 | 0 | 8 | 42 | 0 | 3 | 0 | 0 | 0 | 0 | 8 | 117 | 125 |
| 04:15 PM | 2 | 49 | 27 | 3 | 0 | 0 | 0 | 0 | 7 | 36 | 0 | 1 | 0 | 0 | 0 | 0 | 4 | 121 | 125 |
| 04:30 PM | 1 | 52 | 32 | 3 | 0 | 0 | 0 | 0 | 10 | 39 | 0 | 1 | 0 | 0 | 0 | 0 | 4 | 134 | 138 |
| 04:45 PM | 0 | 49 | 33 | 3 | 0 | 0 | 0 | 0 | 11 | 40 | 0 | 1 | 0 | 0 | 0 | 0 | 4 | 133 | 137 |
| Total | 6 | 195 | 111 | 14 | 0 | 0 | 0 | 0 | 36 | 157 | 0 | 6 | 0 | 0 | 0 | 0 | 20 | 505 | 525 |
| 05:00 PM | 2 | 63 | 48 | 5 | 0 | 0 | 0 | 0 | 7 | 38 | 0 | 1 | 0 | 0 | 0 | 0 | 6 | 158 | 164 |
| 05:15 PM | 1 | 58 | 21 | 3 | 0 | 0 | 0 | 0 | 1 | 35 | 0 | 2 | 0 | 0 | 0 | 0 | 5 | 116 | 121 |
| 05:30 PM | 2 | 50 | 32 | 4 | 0 | 0 | 0 | 0 | 5 | 30 | 0 | 1 | 0 | 0 | 0 | 0 | 5 | 119 | 124 |
| 05:45 PM | 1 | 36 | 19 | 5 | 0 | 0 | 0 | 0 | 3 | 30 | 0 | 2 | 0 | 0 | 0 | 0 | 7 | 89 | 96 |
| Total | 6 | 207 | 120 | 17 | 0 | 0 | 0 | 0 | 16 | 133 | 0 | 6 | 0 | 0 | 0 | 0 | 23 | 482 | 505 |
| Grand Total | 12 | 600 | 298 | 61 | 0 | 0 | 0 | 0 | 131 | 572 | 0 | 35 | 0 | 0 | 0 | 0 | 96 | 1613 | 1709 |
| Apprch % | 1.3 | 65.9 | 32.7 | | 0 | 0 | 0 | | 18.6 | 81.4 | 0 | | 0 | 0 | 0 | | | | |
| Total % | 0.7 | 37.2 | 18.5 | | 0 | 0 | 0 | | 8.1 | 35.5 | 0 | | 0 | 0 | 0 | | 5.6 | 94.4 | |

| | | N 5 | th St | | | | | | | N 5 | th St | | | | | | |
|-----------------|------------|----------|---------|------------|--------|------|-------|------------|------|-------|-------|------------|------|------|-------|------------|------------|
| | | South | bound | | | West | bound | | | North | bound | | | East | bound | | |
| Start Time | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Int. Total |
| Peak Hour Analy | sis Fron | n 07:00 | AM to 0 | 8:45 AM | Peak 1 | of 1 | | | | | | | | | | | |
| Peak Hour for E | ntire Inte | rsection | Begins | at 07:30 A | M | | | | | | | | | | | | |
| 07:30 AM | 0 | 29 | 6 | 35 | 0 | 0 | 0 | 0 | 7 | 40 | 0 | 47 | 0 | 0 | 0 | 0 | 82 |
| 07:45 AM | 0 | 24 | 5 | 29 | 0 | 0 | 0 | 0 | 12 | 58 | 0 | 70 | 0 | 0 | 0 | 0 | 99 |
| 08:00 AM | 0 | 32 | 10 | 42 | 0 | 0 | 0 | 0 | 20 | 32 | 0 | 52 | 0 | 0 | 0 | 0 | 94 |
| 08:15 AM | 0 | 27 | 6 | 33 | 0 | 0 | 0 | 0 | 11 | 43 | 0 | 54 | 0 | 0 | 0 | 0 | 87 |
| Total Volume | 0 | 112 | 27 | 139 | 0 | 0 | 0 | 0 | 50 | 173 | 0 | 223 | 0 | 0 | 0 | 0 | 362 |
| % App. Total | 0 | 80.6 | 19.4 | | 0 | 0 | 0 | | 22.4 | 77.6 | 0 | | 0 | 0 | 0 | | |
| PHF | .000 | .875 | .675 | .827 | .000 | .000 | .000 | .000 | .625 | .746 | .000 | .796 | .000 | .000 | .000 | .000 | .914 |
| D 1 II 4 1 | | 04.00 | D) (| 5 45 D) 5 | D 1.1 | C 1 | | | | | | | | | | | |
| Peak Hour Analy | | | | | | of 1 | | | | | | | | | | | |
| Peak Hour for E | | | _ | | 1 | | | | _ | | | | | | | | |
| 04:15 PM | 2 | 49 | 27 | 78 | 0 | 0 | 0 | 0 | 7 | 36 | 0 | 43 | 0 | 0 | 0 | 0 | 121 |
| 04:30 PM | 1 | 52 | 32 | 85 | 0 | 0 | 0 | 0 | 10 | 39 | 0 | 49 | 0 | 0 | 0 | 0 | 134 |
| 04:45 PM | 0 | 49 | 33 | 82 | 0 | 0 | 0 | 0 | 11 | 40 | 0 | 51 | 0 | 0 | 0 | 0 | 133 |
| 05:00 PM | 2 | 63 | 48 | 113 | 0 | 0 | 0 | 0 | 7 | 38 | 0 | 45 | 0 | 0 | 0 | 0 | 158 |
| Total Volume | 5 | 213 | 140 | 358 | 0 | 0 | 0 | 0 | 35 | 153 | 0 | 188 | 0 | 0 | 0 | 0 | 546 |
| % App. Total | 1.4 | 59.5 | 39.1 | | 0 | 0 | 0 | | 18.6 | 81.4 | 0 | | 0 | 0 | 0 | | |
| PHF | .625 | .845 | .729 | .792 | .000 | .000 | .000 | .000 | .795 | .956 | .000 | .922 | .000 | .000 | .000 | .000 | .864 |

3656 E. Stratford Road Virginia Beach, VA 23455 (757) 464-5129

Exit 192 - Mechanicsville Rd

AM counted: 04/06/11 PM counted: 04/07/11

164 EIS

File Name: I-64 EIS #19211

Site Code : 19211 Start Date : 4/6/2011

Page No : 1

| | | LIC D | 200 / | | Ι | | | Оиро | 1 111110 | | | | Ι | | | | 1 | | |
|-------------|------|-------|---------|------|------|-------|---------|------|----------|--------|-------|------|------|-------|---------|------|--------------|--------------|------------|
| | | | 360 / | | 16 | 4 WB | off ram | a | | US Rt | | _ | | Magn | olia St | | | | |
| | Mec | | ville T | rnpk | | Westk | | r | Mec | hanics | | rnpk | | Eastb | | | | | |
| | | South | bound | | | | Journa | | | North | oound | | | | Journa | | | | |
| Start Time | Left | Thru | Right | Trks | Left | Thru | Right | Trks | Left | Thru | Right | Trks | Left | Thru | Right | Trks | Exclu. Total | Inclu. Total | Int. Total |
| 07:00 AM | 0 | 367 | 4 | 14 | 12 | 24 | 8 | 1 | 45 | 190 | 0 | 11 | 5 | 0 | 36 | 15 | 41 | 691 | 732 |
| 07:15 AM | 0 | 414 | 9 | 9 | 13 | 33 | 17 | 2 | 71 | 179 | 0 | 16 | 4 | 0 | 47 | 5 | 32 | 787 | 819 |
| 07:30 AM | 0 | 478 | 1 | 13 | 13 | 40 | 24 | 4 | 53 | 191 | 0 | 14 | 13 | 0 | 60 | 4 | 35 | 873 | 908 |
| 07:45 AM | 0 | 416 | 3 | 6 | 53 | 90 | 34 | 5 | 67 | 243 | 0 | 14 | 8 | 0 | 66 | 6 | 31 | 980 | 1011 |
| Total | 0 | 1675 | 17 | 42 | 91 | 187 | 83 | 12 | 236 | 803 | 0 | 55 | 30 | 0 | 209 | 30 | 139 | 3331 | 3470 |
| | | | | | | | | | | | | | | | | | | | |
| 08:00 AM | 0 | 376 | 4 | 12 | 121 | 107 | 64 | 13 | 46 | 151 | 0 | 12 | 16 | 0 | 82 | 11 | 48 | 967 | 1015 |
| 08:15 AM | 0 | 485 | 1 | 10 | 49 | 84 | 36 | 3 | 49 | 200 | 0 | 14 | 12 | 0 | 64 | 11 | 38 | 980 | 1018 |
| 08:30 AM | 0 | 430 | 8 | 11 | 8 | 15 | 14 | 3 | 44 | 182 | 0 | 6 | 9 | 0 | 60 | 4 | 24 | 770 | 794 |
| 08:45 AM | 0 | 338 | 11_ | 12 | 15 | 23 | 27 | 2 | 41 | 184 | 0 | 24 | 9 | 0 | 64 | 9 | 47 | 712 | 759 |
| Total | 0 | 1629 | 24 | 45 | 193 | 229 | 141 | 21 | 180 | 717 | 0 | 56 | 46 | 0 | 270 | 35 | 157 | 3429 | 3586 |
| | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| 04:00 PM | 0 | 249 | 7 | 13 | 12 | 27 | 21 | 7 | 66 | 429 | 0 | 18 | 23 | 0 | 108 | 2 | 40 | 942 | 982 |
| 04:15 PM | 0 | 270 | 12 | 14 | 13 | 18 | 26 | 8 | 53 | 471 | 0 | 28 | 20 | 0 | 101 | 3 | 53 | 984 | 1037 |
| 04:30 PM | 0 | 265 | 3 | 12 | 13 | 26 | 25 | 2 | 48 | 432 | 0 | 6 | 20 | 0 | 103 | 8 | 28 | 935 | 963 |
| 04:45 PM | 0 | 296 | 6 | 12 | 21 | 20 | 35 | 11 | 40 | 523 | 9 | 12 | 31 | 0 | 85 | 0 | 35 | 1066 | 1101 |
| Total | 0 | 1080 | 28 | 51 | 59 | 91 | 107 | 28 | 207 | 1855 | 9 | 64 | 94 | 0 | 397 | 13 | 156 | 3927 | 4083 |
| | | | | | | | | | | | | | | | | | | | |
| 05:00 PM | 0 | 286 | 3 | 13 | 11 | 15 | 33 | 2 | 56 | 581 | 0 | 14 | 31 | 0 | 83 | 7 | 36 | 1099 | 1135 |
| 05:15 PM | 0 | 277 | 6 | 17 | 11 | 17 | 38 | 1 | 32 | 520 | 0 | 17 | 28 | 0 | 74 | 2 | 37 | 1003 | 1040 |
| 05:30 PM | 0 | 259 | 5 | 7 | 16 | 24 | 26 | 1 | 41 | 525 | 0 | 6 | 16 | 0 | 88 | 2 | 16 | 1000 | 1016 |
| 05:45 PM | 0 | 281 | 15_ | 10 | 10 | 23 | 27 | 4 | 43 | 489 | 0 | 7 | 19 | 0 | 77 | 5 | 26 | 984 | 1010 |
| Total | 0 | 1103 | 29 | 47 | 48 | 79 | 124 | 8 | 172 | 2115 | 0 | 44 | 94 | 0 | 322 | 16 | 115 | 4086 | 4201 |
| | | | | | | | | | | | | | | | | | | | |
| Grand Total | 0 | E 107 | 98 | | 391 | 586 | 455 | 69 | 795 | 5490 | 9 | | 264 | 0 | 1198 | 94 | 567 | 14773 | 15340 |
| | 0 | 5487 | 96 | 185 | 391 | 300 | 400 | 09 | 195 | 5490 | 9 | 219 | 204 | U | 1198 | 94 | 367 | 14//3 | 15540 |
| Apprch % | 0 | 98.2 | 1.8 | | 27.3 | 40.9 | 31.8 | | 12.6 | 87.2 | 0.1 | | 18.1 | 0 | 81.9 | | | | |
| Total % | 0 | 37.1 | 0.7 | | 2.6 | 4 | 3.1 | | 5.4 | 37.2 | 0.1 | | 1.8 | 0 | 8.1 | | 3.7 | 96.3 | |
| | | | | | | | | | | | | | | | | | | | |

| | Ме | chanic | t 360 / sville Ti bound | rnpk | I | | off ran | ıp | Me | chanic | t 360 / sville T bound | • | | _ | nolia St bound | | |
|----------------------------------|-----------|----------|-------------------------------|------------|---------|-----------|---------|------------|------|--------|------------------------------|------------|------|------|-------------------|------------|------------|
| Start Time | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Int. Total |
| Peak Hour Ana | llysis Fr | om 07:0 | 00 AM to | 08:45 A | M - Pea | k 1 of 1 | | | | | | | | | | | |
| Peak Hour for I | Entire In | tersecti | ion Begi | ns at 07: | 30 AM | | | | | | | | | | | | |
| 07:30 AM | 0 | 478 | 1 | 479 | 13 | 40 | 24 | 77 | 53 | 191 | 0 | 244 | 13 | 0 | 60 | 73 | 873 |
| 07:45 AM | 0 | 416 | 3 | 419 | 53 | 90 | 34 | 177 | 67 | 243 | 0 | 310 | 8 | 0 | 66 | 74 | 980 |
| 08:00 AM | 0 | 376 | 4 | 380 | 121 | 107 | 64 | 292 | 46 | 151 | 0 | 197 | 16 | 0 | 82 | 98 | 967 |
| 08:15 AM | 0 | 485 | 1_ | 486 | 49 | 84 | 36 | 169 | 49 | 200 | 0 | 249 | 12 | 0 | 64 | 76 | 980 |
| Total Volume | 0 | 1755 | 9 | 1764 | 236 | 321 | 158 | 715 | 215 | 785 | 0 | 1000 | 49 | 0 | 272 | 321 | 3800 |
| % App. Total | 0 | 99.5 | 0.5 | | 33 | 44.9 | 22.1 | | 21.5 | 78.5 | 0 | | 15.3 | 0 | 84.7 | | |
| PHF | .000 | .905 | .563 | .907 | .488 | .750 | .617 | .612 | .802 | .808 | .000 | .806 | .766 | .000 | .829 | .819 | .969 |
| Peak Hour Ana Peak Hour for I | , | | | | | ak 1 of 1 | l | | | | | | | | | | |
| 04:45 PM | 0 | 296 | 6 | 302 | 21 | 20 | 35 | 76 | 40 | 523 | 9 | 572 | 31 | 0 | 85 | 116 | 1066 |
| 05:00 PM | 0 | 286 | 3 | 289 | 11 | 15 | 33 | 59 | 56 | 581 | 0 | 637 | 31 | 0 | 83 | 114 | 1099 |
| 05:15 PM | 0 | 277 | 6 | 283 | 11 | 17 | 38 | 66 | 32 | 520 | 0 | 552 | 28 | 0 | 74 | 102 | 1003 |
| 05:30 PM | 0 | 259 | 5 | 264 | 16 | 24 | 26 | 66 | 41 | 525 | 0 | 566 | 16 | 0 | 88 | 104 | 1000 |
| Total Volume | 0 | 1118 | 20 | 1138 | 59 | 76 | 132 | 267 | 169 | 2149 | 9 | 2327 | 106 | 0 | 330 | 436 | 4168 |
| % App. Total | 0 | 98.2 | 1.8 | | 22.1 | 28.5 | 49.4 | | 7.3 | 92.4 | 0.4 | | 24.3 | 0 | 75.7 | | |
| PHF | .000 | .944 | .833 | .942 | .702 | .792 | .868 | .878 | .754 | .925 | .250 | .913 | .855 | .000 | .938 | .940 | .948 |

3656 E. Stratford Road Virginia Beach, VA 23455 (757) 464-5129

164 EIS counts

Exit 193 - Nine Mile Rd AM counted: 04/07/11 PM counted: 04/06/11 File Name: I-64 EIS #19311

Site Code : 19311 Start Date : 4/7/2011

Page No : 1

| | | | | | | | G | roups 1 | rinted | - All V | enicies | | | | | | - | | |
|-------------|------|------------|-----------------|----------------|------|-------|-------|---------|-----------|------------|---------|---------|-----------|--------|----------|------|--------------|--------------|------------|
| | | Nine M | Iile Rd | | | | | | | Nine M | Iile Rd | | (| Gordon | s Lane | | | | |
| | | South | ound | | | Westb | ound | | | North | oound | | | Eastb | ound | | | | |
| Start Time | Left | Thru | Right | Trks | Left | Thru | Right | Trks | Left | Thru | Right | Trks | Left | Thru | Right | Trks | Exclu. Total | Inclu. Total | Int. Total |
| 07:00 AM | 0 | 215 | 9 | 11 | 0 | 0 | 0 | 0 | 7 | 116 | 0 | 6 | 6 | 0 | 21 | 0 | 17 | 374 | 391 |
| 07:15 AM | 0 | 234 | 18 | 10 | 0 | 0 | 0 | 0 | 17 | 157 | 0 | 14 | 12 | 0 | 38 | 2 | 26 | 476 | 502 |
| 07:30 AM | 0 | 307 | 16 | 6 | 0 | 0 | 0 | 0 | 21 | 138 | 0 | 13 | 15 | 0 | 34 | 3 | 22 | 531 | 553 |
| 07:45 AM | 0 | 303 | 19 | 15 | 0 | 0 | 0 | 0 | 19 | 150 | 0 | 11 | 15 | 0 | 41 | 3 | 29 | 547 | 576 |
| Total | 0 | 1059 | 62 | 42 | 0 | 0 | 0 | 0 | 64 | 561 | 0 | 44 | 48 | 0 | 134 | 8 | 94 | 1928 | 2022 |
| | | | | | | | | | | | | | | | | | | | |
| 08:00 AM | 0 | 258 | 23 | 14 | 0 | 0 | 0 | 0 | 22 | 143 | 0 | 15 | 15 | 0 | 27 | 4 | 33 | 488 | 521 |
| 08:15 AM | 0 | 241 | 15 | 17 | 0 | 0 | 0 | 0 | 17 | 105 | 0 | 16 | 15 | 0 | 34 | 4 | 37 | 427 | 464 |
| 08:30 AM | 0 | 227 | 5 | 22 | 0 | 0 | 0 | 0 | 11 | 104 | 0 | 8 | 8 | 0 | 20 | 2 | 32 | 375 | 407 |
| 08:45 AM | 0 | 170 | 14 | 10 | 0 | 0 | 0 | 0 | 18 | 126 | 0 | 9 | 18 | 0 | 28 | 3 | 22 | 374 | 396 |
| Total | 0 | 896 | 57 | 63 | 0 | 0 | 0 | 0 | 68 | 478 | 0 | 48 | 56 | 0 | 109 | 13 | 124 | 1664 | 1788 |
| | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| | | | | | ı | | | | | | | | II. | | | | ı | | |
| 04:00 PM | 0 | 177 | 28 | 6 | 0 | 0 | 0 | 0 | 32 | 274 | 0 | 18 | 33 | 0 | 16 | 3 | 27 | 560 | 587 |
| 04:15 PM | 0 | 247 | 34 | 10 | 0 | 0 | 0 | 0 | 25 | 253 | 0 | 14 | 29 | 0 | 16 | 1 | 25 | 604 | 629 |
| 04:30 PM | 0 | 210 | 33 | 14 | 0 | 0 | 0 | 0 | 34 | 255 | 0 | 8 | 32 | 0 | 15 | 0 | 22 | 579 | 601 |
| 04:45 PM | 0 | 219 | 18 | 6 | 0 | 0 | 0 | 0 | 24 | 303 | 0 | 4_ | 46 | 0 | 20 | 0 | 10 | 630 | 640 |
| Total | 0 | 853 | 113 | 36 | 0 | 0 | 0 | 0 | 115 | 1085 | 0 | 44 | 140 | 0 | 67 | 4 | 84 | 2373 | 2457 |
| 05:00 PM | 0 | 211 | 20 | 15 | 0 | 0 | 0 | 0 | 31 | 206 | 0 | | 26 | 0 | 22 | 0 | | (25 | (1) |
| 00.000 | | 211 | 28 25 | 15 9 | - | 0 | 0 | 0 | 25 | 306 302 | 0 | 6 | 26 34 | 0 | 23 23 | 0 2 | 21 | 625 | 646 |
| 05:15 PM | 0 | 196 | | - | 0 | | 0 | 0 | | 282 | 0 | 6 4 | - | 0 | | | 1 | 605 | 622 |
| 05:30 PM | 0 | 172 | 20 24 | 6 | | 0 | 0 | | 25 | | 0 | • | 34 | 0 | 29 | 1 | 11 | 562 | 573 |
| 05:45 PM | 0 | 147 726 | <u>24</u> 97 | <u>6</u> 36 | 0 | 0 | 0 | 0 | 31 112 | 224 | 0 | 2 18 | 23 117 | 0 | 20 95 | 14 | 58 | 469 2261 | 478 |
| Total | U | 726 | 97 | 30 | 0 | U | U | U | 112 | 1114 | U | 18 | 11/ | U | 93 | 4 | 38 | 2201 | 2319 |
| 1 | | | | | ĺ | | | | I | | | | | | | | I | | |
| Grand Total | 0 | 3534 | 329 | 177 | 0 | 0 | 0 | 0 | 359 | 3238 | 0 | 154 | 361 | 0 | 405 | 29 | 360 | 8226 | 8586 |
| Apprch % | 0 | 91.5 | 8.5 | 1// | 0 | 0 | 0 | | 10 | 90 | 0 | 134 | 47.1 | 0 | 52.9 | | | | |
| Total % | 0 | 43 | 4 | | 0 | 0 | 0 | | 4.4 | 39.4 | 0 | | 4.4 | 0 | 4.9 | | 4.2 | 95.8 | |
| 1 Otal 70 | U | 43 | + | | ı U | U | U | | 1 4.4 | 37.4 | U | | 4.4 | U | 4.7 | | 1 4.2 | 23.0 | |

| | | Nine N | Aile Rd | | | | | | | Nine I | Mile Rd | | | Gordo | ns Lane | | |
|-----------------|------------|-----------|---------|------------|----------|-------|-------|------------|------|--------|---------|------------|------|-------|---------|------------|------------|
| | | South | bound | | | Westl | bound | | | North | bound | | | Eastl | oound | | |
| Start Time | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Int. Total |
| Peak Hour Analy | ysis Fron | n 07:00 | AM to 0 | 8:45 AM | - Peak 1 | of 1 | | | | | | | | | | | |
| Peak Hour for E | ntire Inte | ersection | Begins | at 07:15 A | M | | | | | | | | | | | | |
| 07:15 AM | 0 | 234 | 18 | 252 | 0 | 0 | 0 | 0 | 17 | 157 | 0 | 174 | 12 | 0 | 38 | 50 | 476 |
| 07:30 AM | 0 | 307 | 16 | 323 | 0 | 0 | 0 | 0 | 21 | 138 | 0 | 159 | 15 | 0 | 34 | 49 | 531 |
| 07:45 AM | 0 | 303 | 19 | 322 | 0 | 0 | 0 | 0 | 19 | 150 | 0 | 169 | 15 | 0 | 41 | 56 | 547 |
| 08:00 AM | 0 | 258 | 23 | 281 | 0 | 0 | 0 | 0 | 22 | 143 | 0 | 165 | 15 | 0 | 27 | 42 | 488 |
| Total Volume | 0 | 1102 | 76 | 1178 | 0 | 0 | 0 | 0 | 79 | 588 | 0 | 667 | 57 | 0 | 140 | 197 | 2042 |
| % App. Total | 0 | 93.5 | 6.5 | | 0 | 0 | 0 | | 11.8 | 88.2 | 0 | | 28.9 | 0 | 71.1 | | |
| PHF | .000 | .897 | .826 | .912 | .000 | .000 | .000 | .000 | .898 | .936 | .000 | .958 | .950 | .000 | .854 | .879 | .933 |
| | | | | | | | | | | | | | | | | | |
| Peak Hour Analy | , | | | | | of 1 | | | | | | | | | | | |
| Peak Hour for E | | | _ | | ı | | | ı | | | | | | | | 1 | |
| 04:30 PM | 0 | 210 | 33 | 243 | 0 | 0 | 0 | 0 | 34 | 255 | 0 | 289 | 32 | 0 | 15 | 47 | 579 |
| 04:45 PM | 0 | 219 | 18 | 237 | 0 | 0 | 0 | 0 | 24 | 303 | 0 | 327 | 46 | 0 | 20 | 66 | 630 |
| 05:00 PM | 0 | 211 | 28 | 239 | 0 | 0 | 0 | 0 | 31 | 306 | 0 | 337 | 26 | 0 | 23 | 49 | 625 |
| 05:15 PM | 0 | 196 | 25 | 221 | 0 | 0 | 0 | 0 | 25 | 302 | 0 | 327 | 34 | 0 | 23 | 57 | 605 |
| Total Volume | 0 | 836 | 104 | 940 | 0 | 0 | 0 | 0 | 114 | 1166 | 0 | 1280 | 138 | 0 | 81 | 219 | 2439 |
| % App. Total | 0 | 88.9 | 11.1 | | 0 | 0 | 0 | | 8.9 | 91.1 | 0 | | 63 | 0 | 37 | | |
| PHF | .000 | .954 | .788 | .967 | .000 | .000 | .000 | .000 | .838 | .953 | .000 | .950 | .750 | .000 | .880 | .830 | .968 |

3656 E. Stratford Road Virginia Beach, VA 23455 (757) 464-5129

I64 EIS counts

Exit 193 - Nine Mile Rd AM counted: 04/07/11 PM counted: 04/06/11 File Name: I-64 EIS #19312

Site Code : 19312 Start Date : 4/7/2011

Page No : 1

| | | | | | | | G | roups I | rinted | <u>- All V</u> | enicles | | | | | | | | |
|-------------|------|--------|---------|------|------|-------|---------|---------|--------|----------------|---------|---|------|-------|-------|------|--------------|--------------|------------|
| | | Nine M | Iile Rd | | I-0 | 64 WB | off ram | ıp | | Nine M | Iile Rd | | | | | | | | |
| | | Southb | ound | | | Westb | ound | | | North | ound | | | Eastb | ound | | | | |
| Start Time | Left | Thru | Right | Trks | Left | Thru | Right | Trks | Left | Thru | Right | Trks | Left | Thru | Right | Trks | Exclu. Total | Inclu. Total | Int. Total |
| 07:00 AM | 7 | 55 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 25 | 17 | 2 | 1 | 0 | 20 | 2 | 7 | 125 | 132 |
| 07:15 AM | 4 | 66 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 42 | 12 | 5 | 0 | 0 | 20 | 2 | 9 | 144 | 153 |
| 07:30 AM | 11 | 80 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 53 | 13 | 1 | 0 | 0 | 14 | 1 | 5 | 171 | 176 |
| 07:45 AM | 9 | 124 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 32 | 13 | 1 | 0 | 0 | 27 | 0 | 9 | 205 | 214 |
| Total | 31 | 325 | 0 | 16 | 0 | 0 | 0 | 0 | 0 | 152 | 55 | 9 | 1 | 0 | 81 | 5 | 30 | 645 | 675 |
| | | | | | | | | | | | | | | | | | | | |
| 08:00 AM | 6 | 119 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 40 | 15 | 3 | 0 | 0 | 27 | 1 | 6 | 207 | 213 |
| 08:15 AM | 9 | 98 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 35 | 10 | 5 | 0 | 0 | 35 | 2 | 16 | 187 | 203 |
| 08:30 AM | 5 | 101 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 44 | 13 | 6 | 1 | 0 | 31 | 2 | 17 | 195 | 212 |
| 08:45 AM | 6 | 79 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 58 | 10 | 6 | 0 | 0 | 25 | 0 | 9 | 178 | 187 |
| Total | 26 | 397 | 0 | 23 | 0 | 0 | 0 | 0 | 0 | 177 | 48 | 20 | 1 | 0 | 118 | 5 | 48 | 767 | 815 |
| | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| | | | | | 1 | | | | ı | | | | I. | | | | ı | | |
| 04:00 PM | 17 | 74 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 143 | 33 | 6 | 1 | 0 | 19 | 1 | 9 | 287 | 296 |
| 04:15 PM | 22 | 99 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 130 | 28 | 4 | 1 | 0 | 13 | 0 | 8 | 293 | 301 |
| 04:30 PM | 16 | 77 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 130 | 43 | 2 | 0 | 0 | 13 | 0 | 6 | 279 | 285 |
| 04:45 PM | 16 | 97 | 0 | 1_ | 0 | 0 | 0 | 0 | 0 | 117 | 39 | 0 | 0 | 0 | 12 | 1 | 2 | 281 | 283 |
| Total | 71 | 347 | 0 | 11 | 0 | 0 | 0 | 0 | 0 | 520 | 143 | 12 | 2 | 0 | 57 | 2 | 25 | 1140 | 1165 |
| 05.00 72.5 | | 0.2 | | | | | | | ۱ ۵ | 40.5 | 25 | | | | 4.0 | | ۔ ا | 205 | 202 |
| 05:00 PM | 12 | 83 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 135 | 37 | 3 | 1 | 0 | 19 | 0 | 6 | 287 | 293 |
| 05:15 PM | 10 | 88 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 130 | 38 | 1 | 0 | 0 | 21 | 0 | 3 | 287 | 290 |
| 05:30 PM | 5 | 87 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 111 | 44 | 4 | 0 | 0 | 22 | 0 | 8 | 269 | 277 |
| 05:45 PM | 4_ | 75 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 87 | 27 | 0 | 0 | 0 | 25 | 0 | 3 | 218 | 221_ |
| Total | 31 | 333 | 0 | 12 | 0 | 0 | 0 | 0 | 0 | 463 | 146 | 8 | 1 | 0 | 87 | 0 | 20 | 1061 | 1081 |
| Grand Total | 159 | 1402 | 0 | 62 | 0 | 0 | 0 | 0 | 0 | 1312 | 392 | 49 | 5 | 0 | 343 | 12 | 123 | 3613 | 3736 |
| Apprch % | 10.2 | 89.8 | 0 | 32 | 0 | 0 | 0 | Ü | 0 | 77 | 23 | • | 1.4 | 0 | 98.6 | 12 | 123 | 3313 | 3,30 |
| Total % | 4.4 | 38.8 | 0 | | 0 | 0 | 0 | | 0 | 36.3 | 10.8 | | 0.1 | 0 | 9.5 | | 3.3 | 96.7 | |
| 10tai 70 | 7.7 | 50.0 | U | | | U | U | | | 50.5 | 10.0 | | 0.1 | U | 7.5 | | 1 3.3 | 70.7 | |

| | | | Aile Rd | | I. | | off ran | ıp | | | Mile Rd | | | | | | |
|-----------------|------------|-----------|----------|------------|----------|------|---------|------------|------|-------|---------|------------|------|------|-------|------------|------------|
| | | South | bound | | | West | bound | | | North | bound | | | East | oound | | |
| Start Time | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Int. Total |
| Peak Hour Analy | ysis Fron | n 07:00 . | AM to 0 | 8:45 AM | - Peak 1 | of 1 | | | | | | | | | | | |
| Peak Hour for E | ntire Inte | rsection | Begins | at 07:45 A | M | | | | | | | | 1 | | | | |
| 07:45 AM | 9 | 124 | 0 | 133 | 0 | 0 | 0 | 0 | 0 | 32 | 13 | 45 | 0 | 0 | 27 | 27 | 205 |
| 08:00 AM | 6 | 119 | 0 | 125 | 0 | 0 | 0 | 0 | 0 | 40 | 15 | 55 | 0 | 0 | 27 | 27 | 207 |
| 08:15 AM | 9 | 98 | 0 | 107 | 0 | 0 | 0 | 0 | 0 | 35 | 10 | 45 | 0 | 0 | 35 | 35 | 187 |
| 08:30 AM | 5 | 101 | 0 | 106 | 0 | 0 | 0 | 0 | 0 | 44 | 13 | 57 | 1 | 0 | 31 | 32 | 195 |
| Total Volume | 29 | 442 | 0 | 471 | 0 | 0 | 0 | 0 | 0 | 151 | 51 | 202 | 1 | 0 | 120 | 121 | 794 |
| % App. Total | 6.2 | 93.8 | 0 | | 0 | 0 | 0 | | 0 | 74.8 | 25.2 | | 0.8 | 0 | 99.2 | | |
| PHF | .806 | .891 | .000 | .885 | .000 | .000 | .000 | .000 | .000 | .858 | .850 | .886 | .250 | .000 | .857 | .864 | .959 |
| | | | | | | | | | | | | | | | | | |
| Peak Hour Analy | ysis Fron | n 04:00 | PM to 05 | 5:45 PM - | Peak 1 o | of 1 | | | | | | | | | | | |
| Peak Hour for E | ntire Inte | rsection | Begins | at 04:00 P | M | | | | | | | | | | | | |
| 04:00 PM | 17 | 74 | 0 | 91 | 0 | 0 | 0 | 0 | 0 | 143 | 33 | 176 | 1 | 0 | 19 | 20 | 287 |
| 04:15 PM | 22 | 99 | 0 | 121 | 0 | 0 | 0 | 0 | 0 | 130 | 28 | 158 | 1 | 0 | 13 | 14 | 293 |
| 04:30 PM | 16 | 77 | 0 | 93 | 0 | 0 | 0 | 0 | 0 | 130 | 43 | 173 | 0 | 0 | 13 | 13 | 279 |
| 04:45 PM | 16 | 97 | 0 | 113 | 0 | 0 | 0 | 0 | 0 | 117 | 39 | 156 | 0 | 0 | 12 | 12 | 281 |
| Total Volume | 71 | 347 | 0 | 418 | 0 | 0 | 0 | 0 | 0 | 520 | 143 | 663 | 2 | 0 | 57 | 59 | 1140 |
| % App. Total | 17 | 83 | 0 | | 0 | 0 | 0 | | 0 | 78.4 | 21.6 | | 3.4 | 0 | 96.6 | | |
| PHF | .807 | .876 | .000 | .864 | .000 | .000 | .000 | .000 | .000 | .909 | .831 | .942 | .500 | .000 | .750 | .738 | .973 |

3656 E. Stratford Road Virginia Beach, VA 23455 (757) 464-5129

I64 EIS counts Exit 200 - I-295

AM counted: 05/18/11 PM counted: 05/17/11

File Name: I-64 EIS #20011-16

Site Code : 20011-16 Start Date : 5/18/2011

Page No : 1

| | | | | | | | | Toups. | r rimea. | | | | | | | | 1 | | |
|-------------|------|--------|-------|------|------|-------|-------|--------|----------|-------|-------|------|------|-------|-------|------|--------------|--------------|------------|
| | | | | | | I- | 64 | | | I-2 | 95 | | | | | | | | |
| | | Southb | ound | | | Westb | ound | | | North | oound | | | Eastb | ound | | | | |
| Start Time | Left | Thru | Right | Trks | CD | Trks | Right | Trks | ML | Trks | CD | Trks | Left | Thru | Right | Trks | Exclu. Total | Inclu. Total | Int. Total |
| 07:00 AM | 0 | 0 | 0 | 0 | 82 | 7 | 200 | 18 | 129 | 28 | 83 | 8 | 0 | 0 | 0 | 0 | 54 | 501 | 555 |
| 07:15 AM | 0 | 0 | 0 | 0 | 101 | 8 | 265 | 12 | 178 | 24 | 137 | 7 | 0 | 0 | 0 | 0 | 43 | 689 | 732 |
| 07:30 AM | 0 | 0 | 0 | 0 | 101 | 4 | 273 | 20 | 212 | 31 | 147 | 4 | 0 | 0 | 0 | 0 | 55 | 737 | 792 |
| 07:45 AM | 0 | 0 | 0 | 0 | 81 | 4 | 250 | 20 | 222 | 28 | 156 | 6 | 0 | 0 | 0 | 0 | 54 | 713 | 767 |
| Total | 0 | 0 | 0 | 0 | 365 | 23 | 988 | 70 | 741 | 111 | 523 | 25 | 0 | 0 | 0 | 0 | 206 | 2640 | 2846 |
| | | | | | | | | | | | | | | | | | | | |
| 08:00 AM | 0 | 0 | 0 | 0 | 75 | 4 | 242 | 27 | 183 | 37 | 107 | 3 | 0 | 0 | 0 | 0 | 67 | 611 | 678 |
| 08:15 AM | 0 | 0 | 0 | 0 | 61 | 10 | 224 | 22 | 179 | 40 | 103 | 11 | 0 | 0 | 0 | 0 | 73 | 577 | 650 |
| 08:30 AM | 0 | 0 | 0 | 0 | 52 | 1 | 192 | 28 | 143 | 39 | 90 | 10 | 0 | 0 | 0 | 0 | 77 | 478 | 555 |
| 08:45 AM | 0 | 0 | 0 | 0 | 47 | 5 | 216 | 20 | 132 | 30 | 65 | 7 | 0 | 0 | 0 | 30 | 57 | 495 | 552 |
| Total | 0 | 0 | 0 | 0 | 235 | 20 | 874 | 97 | 637 | 146 | 365 | 31 | 0 | 0 | 0 | 30 | 274 | 2161 | 2435 |
| | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| , | | | | | | | | | | | | | ii. | | | | | | |
| 04:00 PM | 0 | 0 | 0 | 0 | 54 | 9 | 192 | 31 | 187 | 35 | 69 | 8 | 0 | 0 | 0 | 0 | 74 | 511 | 585 |
| 04:15 PM | 0 | 0 | 0 | 0 | 47 | 18 | 201 | 23 | 232 | 43 | 62 | 7 | 0 | 0 | 0 | 0 | 73 | 560 | 633 |
| 04:30 PM | 0 | 0 | 0 | 0 | 58 | 10 | 164 | 29 | 212 | 33 | 62 | 4 | 0 | 0 | 0 | 0 | 66 | 506 | 572 |
| 04:45 PM | 0 | 0 | 0 | 0 | 59 | 10 | 210 | 26 | 209 | 32 | 64 | 7 | 0 | 0 | 0 | 0 | 65 | 552 | 617 |
| Total | 0 | 0 | 0 | 0 | 218 | 47 | 767 | 109 | 840 | 143 | 257 | 26 | 0 | 0 | 0 | 0 | 278 | 2129 | 2407 |
| | | | | ا م | | | | | 1 | | | | | | | | | | |
| 05:00 PM | 0 | 0 | 0 | 0 | 68 | 11 | 165 | 27 | 240 | 47 | 62 | 3 | 0 | 0 | 0 | 0 | 77 | 546 | 623 |
| 05:15 PM | 0 | 0 | 0 | 0 | 67 | 12 | 212 | 25 | 278 | 66 | 74 | 5 | 0 | 0 | 0 | 0 | 96 | 643 | 739 |
| 05:30 PM | 0 | 0 | 0 | 0 | 68 | 8 | 201 | 24 | 258 | 43 | 101 | 11 | 0 | 0 | 0 | 0 | 78 | 636 | 714 |
| 05:45 PM | 0 | 0 | 0 | 0 | 65 | 8 | 178 | 23 | 276 | 63 | 67 | 2 | 0 | 0 | 0 | 0 | 88 | 594 | 682 |
| Total | 0 | 0 | 0 | 0 | 268 | 39 | 756 | 99 | 1052 | 219 | 304 | 21 | 0 | 0 | 0 | 0 | 339 | 2419 | 2758 |
| Grand Total | 0 | 0 | 0 | 0 | 1086 | 129 | 3385 | 375 | 3270 | 619 | 1449 | 103 | 0 | 0 | 0 | 30 | 1097 | 9349 | 10446 |
| Appreh % | 0 | 0 | 0 | 0 | 23.6 | 2.8 | 73.6 | 313 | 69.3 | 017 | 30.7 | 103 | 0 | 0 | 0 | 100 | 1077 | 7547 | 10440 |
| Total % | 0 | 0 | 0 | 0 | 11.6 | 1.4 | 36.2 | | 35 | | 15.5 | | 0 | 0 | 0 | 0.3 | 10.5 | 89.5 | |
| 10tai 70 | J | U | J | U I | 11.0 | 1.4 | 30.2 | | 1 33 | | 15.5 | | | J | U | 0.5 | 10.5 | 67.5 | |

| | | | | | | | Į. | -64 | | | I-295 | | | | | | | |
|-----------------------------------|------------|-----------|----------|----------|------------|------|-------|-------|------------|------|--------|------------|------|------|---------|------|------------|------------|
| | | So | uthbou | nd | | | Westl | ound | | No | rthbou | | | E | astbour | ıd | | |
| Start Time | Left | Thru | Right | Trks | App. Total | CD | Trks | Right | App. Total | ML | CD | App. Total | Left | Thru | Right | Trks | App. Total | Int. Total |
| Peak Hour Analy | | | AM to | 08:45 AM | 1 - Peak | of 1 | | | | | | | | | | | | |
| Peak Hour for E | ntire Inte | ersection | n Begins | at 07:15 | AM | | | | | 1 | | | 1 | | | | | |
| 07:15 AM | 0 | 0 | 0 | 0 | 0 | 101 | 8 | 265 | 374 | 178 | 137 | 315 | 0 | 0 | 0 | 0 | 0 | 689 |
| 07:30 AM | 0 | 0 | 0 | 0 | 0 | 101 | 4 | 273 | 378 | 212 | 147 | 359 | 0 | 0 | 0 | 0 | 0 | 737 |
| 07:45 AM | 0 | 0 | 0 | 0 | 0 | 81 | 4 | 250 | 335 | 222 | 156 | 378 | 0 | 0 | 0 | 0 | 0 | 713 |
| 08:00 AM | 0 | 0 | 0 | 0 | 0 | 75 | 4 | 242 | 321 | 183 | 107 | 290 | 0 | 0 | 0_ | 0 | 0 | 611 |
| Total Volume | 0 | 0 | 0 | 0 | 0 | 358 | 20 | 1030 | 1408 | 795 | 547 | 1342 | 0 | 0 | 0 | 0 | 0 | 2750 |
| % App. Total | 0 | 0 | 0 | 0 | | 25.4 | 1.4 | 73.2 | | 59.2 | 40.8 | | 0 | 0 | 0_ | 0 | | |
| PHF | .000 | .000 | .000 | .000 | .000 | .886 | .625 | .943 | .931 | .895 | .877 | .888 | .000 | .000 | .000 | .000 | .000 | .933 |
| Peak Hour Anal Peak Hour for E | - | | | | | of 1 | | | | | | | | | | | | |
| 05:00 PM | 0 | 0 | 0 | 0 | 0 | 68 | 11 | 165 | 244 | 240 | 62 | 302 | 0 | 0 | 0 | 0 | 0 | 546 |
| 05:15 PM | 0 | 0 | 0 | 0 | 0 | 67 | 12 | 212 | 291 | 278 | 74 | 352 | 0 | 0 | 0 | 0 | 0 | 643 |
| 05:30 PM | 0 | 0 | 0 | 0 | 0 | 68 | 8 | 201 | 277 | 258 | 101 | 359 | 0 | 0 | 0 | 0 | 0 | 636 |
| 05:45 PM | 0 | 0 | 0 | 0 | 0 | 65 | 8 | 178 | 251 | 276 | 67 | 343 | 0 | 0 | 0 | 0 | 0 | 594 |
| Total Volume | 0 | 0 | 0 | 0 | 0 | 268 | 39 | 756 | 1063 | 1052 | 304 | 1356 | 0 | 0 | 0 | 0 | 0 | 2419 |
| % App. Total | 0 | 0 | 0 | 0 | | 25.2 | 3.7 | 71.1 | | 77.6 | 22.4 | | 0 | 0 | 0 | 0 | | |
| PHF | .000 | .000 | .000 | .000 | .000 | .985 | .813 | .892 | .913 | .946 | .752 | .944 | .000 | .000 | .000 | .000 | .000 | .941 |

3656 E. Stratford Road Virginia Beach, VA 23455 (757) 464-5129

I64 EIS counts Exit 200 - I-295

AM counted: 05/18/11 PM counted: 05/17/11

File Name: I-64 EIS #20014-15

Site Code : 20014-15 Start Date : 5/18/2011

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| | | I-2 | 95 | | | | <u> </u> | oups 1 | Timecu | | 295 | | | | | |] | | |
|----------------------|------------|--------|-------|----------|------|-------|----------|--------|--|--------|----------|--------|------|-------|-------|------|--------------|--------------|------------|
| | ; | Southb | ound | | | Westb | ound | | | Northl | oound | | | Eastb | ound | | | | |
| Start Time | Left | Thru | Right | Trks | Left | Thru | Right | Trks | Left | Thru | Right | Trks | Left | Thru | Right | Trks | Exclu. Total | Inclu. Total | Int. Total |
| 07:00 AM | 140 | 0 | 0 | 29 | 0 | 0 | 0 | 0 | 0 | 0 | 64 | 12 | 0 | 0 | 0 | 0 | 41 | 204 | 245 |
| 07:15 AM | 134 | 0 | 0 | 33 | 0 | 0 | 0 | 0 | 0 | 0 | 82 | 17 | 0 | 0 | 0 | 0 | 50 | 216 | 266 |
| 07:30 AM | 145 | 0 | 0 | 25 | 0 | 0 | 0 | 0 | 0 | 0 | 61 | 14 | 0 | 0 | 0 | 0 | 39 | 206 | 245 |
| 07:45 AM | 178 | 0 | 0 | 32 | 0 | 0 | 0 | 0 | 0 | 0 | 76 | 18 | 0 | 0 | 0 | 0 | 50 | 254 | 304 |
| Total | 597 | 0 | 0 | 119 | 0 | 0 | 0 | 0 | 0 | 0 | 283 | 61 | 0 | 0 | 0 | 0 | 180 | 880 | 1060 |
| 08:00 AM | 181 | 0 | 0 | 27 | 0 | 0 | 0 | 0 | 0 | 0 | 85 | 9 | 0 | 0 | 0 | 0 | 36 | 266 | 302 |
| 08:15 AM | 194 | 0 | 0 | 35 | 0 | 0 | 0 | 0 | 0 | 0 | 61 | 11 | 0 | 0 | 0 | 0 | 46 | 255 | 301 |
| 08:30 AM | 203 | 0 | 0 | 32 | 0 | 0 | 0 | 0 | 0 | 0 | 62 | 11 | 0 | 0 | 0 | 0 | 43 | 265 | 308 |
| 08:45 AM | 167 | 0 | 0 | 41 | 0 | 0 | 0 | 0 | 0 | 0 | 65 | 10 | 0 | 0 | 0 | 0 | 51 | 232 | 283 |
| Total | 745 | 0 | 0 | 135 | 0 | 0 | 0 | 0 | 0 | 0 | 273 | 41 | 0 | 0 | 0 | 0 | 176 | 1018 | 1194 |
| 04.00 77.5 | | | | •• | | | | | | | 0.4 | | | | | | | 20.5 | 242 |
| 04:00 PM | 224 | 0 | 0 | 23 | 0 | 0 | 0 | 0 | 0 | 0 | 81 86 | 15 | 0 | 0 | 0 | 0 | 38 33 | 305 | 343 |
| 04:15 PM 04:30 PM | 230 240 | 0 | 0 | 25 17 | 0 | 0 | 0 | 0 | $\begin{bmatrix} 0 \\ 0 \end{bmatrix}$ | 0 | 100 | 8 4 | 0 | 0 | 0 | 0 | 21 | 316 340 | 349 361 |
| 04:45 PM | 262 | 0 | 0 | 28 | 0 | 0 | 0 | 0 | 0 | 0 | 67 | 4 | 0 | 0 | 0 | 0 | 32 | 329 | 361 |
| Total | 956 | 0 | 0 | 93 | 0 | 0 | 0 | 0 | 0 | 0 | 334 | 31 | 0 | 0 | 0 | 0 | 124 | 1290 | 1414 |
| Total | 1 750 | Ü | Ü | 75 | U | Ü | Ü | Ü | | Ü | 334 | 31 | , 0 | O | Ü | O | 124 | 1270 | 1717 |
| 05:00 PM | 240 | 0 | 0 | 16 | 0 | 0 | 0 | 0 | 0 | 0 | 89 | 8 | 0 | 0 | 0 | 0 | 24 | 329 | 353 |
| 05:15 PM | 296 | 0 | 0 | 25 | 0 | 0 | 0 | 0 | 0 | 0 | 73 | 2 | 0 | 0 | 0 | 0 | 27 | 369 | 396 |
| 05:30 PM | 251 | 0 | 0 | 18 | 0 | 0 | 0 | 0 | 0 | 0 | 84 | 2 | 0 | 0 | 0 | 0 | 20 | 335 | 355 |
| 05:45 PM | 241 | 0 | 0 | 17 | 0 | 0 | 0 | 0 | 0 | 0 | 67 | 5 | 0 | 0 | 0 | 0 | 22 | 308 | 330 |
| Total | 1028 | 0 | 0 | 76 | 0 | 0 | 0 | 0 | 0 | 0 | 313 | 17 | 0 | 0 | 0 | 0 | 93 | 1341 | 1434 |
| | | | | | | | | | | | | | | | | | | | |
| Grand Total | 3326 | 0 | 0 | 423 | 0 | 0 | 0 | 0 | 0 | 0 | 1203 | 150 | 0 | 0 | 0 | 0 | 573 | 4529 | 5102 |
| Apprch % | 100 | 0 | 0 | 123 | 0 | 0 | 0 | | 0 | 0 | 100 | 150 | 0 | 0 | 0 | | | | |
| Total % | 73.4 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 | 26.6 | | 0 | 0 | 0 | | 11.2 | 88.8 | |

| | | I-2 | 295 | | | | | | | I- | 295 | | | | | | |
|-----------------|------------|-----------|----------|------------|----------|------|-------|------------|------|-------|-------|------------|------|-------|-------|------------|------------|
| | | South | oound | | | West | bound | | | North | bound | | | Eastl | oound | | |
| Start Time | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Int. Total |
| Peak Hour Analy | ysis Fron | n 07:00 A | AM to 0 | 8:45 AM | - Peak 1 | of 1 | | | | | | | | | | | |
| Peak Hour for E | ntire Inte | ersection | Begins | at 07:45 A | M | | | | | | | | | | | | i |
| 07:45 AM | 178 | 0 | 0 | 178 | 0 | 0 | 0 | 0 | 0 | 0 | 76 | 76 | 0 | 0 | 0 | 0 | 254 |
| 08:00 AM | 181 | 0 | 0 | 181 | 0 | 0 | 0 | 0 | 0 | 0 | 85 | 85 | 0 | 0 | 0 | 0 | 266 |
| 08:15 AM | 194 | 0 | 0 | 194 | 0 | 0 | 0 | 0 | 0 | 0 | 61 | 61 | 0 | 0 | 0 | 0 | 255 |
| 08:30 AM | 203 | 0 | 0 | 203 | 0 | 0 | 0 | 0 | 0 | 0 | 62 | 62 | 0 | 0 | 0 | 0 | 265 |
| Total Volume | 756 | 0 | 0 | 756 | 0 | 0 | 0 | 0 | 0 | 0 | 284 | 284 | 0 | 0 | 0 | 0 | 1040 |
| % App. Total | 100 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 | 100 | | 0 | 0 | 0 | | |
| PHF | .931 | .000 | .000 | .931 | .000 | .000 | .000 | .000 | .000 | .000 | .835 | .835 | .000 | .000 | .000 | .000 | .977 |
| | | | | | | | | | | | | | | | | | |
| Peak Hour Analy | ysis Fron | n 04:00 l | PM to 0: | 5:45 PM - | Peak 1 o | f 1 | | | | | | | | | | | |
| Peak Hour for E | ntire Inte | ersection | Begins | at 04:30 P | PM | | | | | | | | | | | | |
| 04:30 PM | 240 | 0 | 0 | 240 | 0 | 0 | 0 | 0 | 0 | 0 | 100 | 100 | 0 | 0 | 0 | 0 | 340 |
| 04:45 PM | 262 | 0 | 0 | 262 | 0 | 0 | 0 | 0 | 0 | 0 | 67 | 67 | 0 | 0 | 0 | 0 | 329 |
| 05:00 PM | 240 | 0 | 0 | 240 | 0 | 0 | 0 | 0 | 0 | 0 | 89 | 89 | 0 | 0 | 0 | 0 | 329 |
| 05:15 PM | 296 | 0 | 0 | 296 | 0 | 0 | 0 | 0 | 0 | 0 | 73 | 73 | 0 | 0 | 0 | 0 | 369 |
| Total Volume | 1038 | 0 | 0 | 1038 | 0 | 0 | 0 | 0 | 0 | 0 | 329 | 329 | 0 | 0 | 0 | 0 | 1367 |
| % App. Total | 100 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 | 100 | | 0 | 0 | 0 | | |
| PHF | .877 | .000 | .000 | .877 | .000 | .000 | .000 | .000 | .000 | .000 | .823 | .823 | .000 | .000 | .000 | .000 | .926 |

3656 E. Stratford Road Virginia Beach, VA 23455 (757) 464-5129

I64 EIS counts Exit 200 - I-295

AM counted: 05/18/11 PM counted: 05/17/11

File Name: I-64 EIS #20017

Site Code : 20017 Start Date : 5/18/2011

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| | | I-2 | 295 | | | | | | | | | | | | | |] | | |
|----------------------|------|----------|----------|--------|------|-------|-------|------|------|-------|-------|------|------|-------|-------|------|--------------|--------------|------------|
| | | Southb | ound | | | Westb | ound | | | North | oound | | | Eastb | ound | | | | |
| Start Time | ML | Trks | CD | Trks | Left | Thru | Right | Trks | Left | Thru | Right | Trks | Left | Thru | Right | Trks | Exclu. Total | Inclu. Total | Int. Total |
| 07:00 AM | 309 | 64 | 41 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 74 | 350 | 424 |
| 07:15 AM | 328 | 73 | 44 | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 84 | 372 | 456 |
| 07:30 AM | 333 | 58 | 40 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 61 | 373 | 434 |
| 07:45 AM | 341 | 70 | 43 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 75 | 384 | 459 |
| Total | 1311 | 265 | 168 | 29 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 294 | 1479 | 1773 |
| | 1 | | | | | | | | | | | | | | | | | | |
| 08:00 AM | 350 | 44 | 59 | 13 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 57 | 409 | 466 |
| 08:15 AM | 351 | 50 | 59 | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 62 | 410 | 472 |
| 08:30 AM | 328 | 48 | 44 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 57 | 372 | 429 |
| 08:45 AM | 326 | 62 | 42 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 69 | 368 | 437 |
| Total | 1355 | 204 | 204 | 41 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 245 | 1559 | 1804 |
| | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| | | | | | ۱ . | | | | | | | | | | | | | | |
| 04:00 PM | 264 | 35 | 50 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 39 | 314 | 353 |
| 04:15 PM | 213 | 36 | 51 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 41 | 264 | 305 |
| 04:30 PM | 336 | 54 | 57 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 60 | 393 | 453 |
| 04:45 PM | 410 | 30 | 93 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 37 | 503 | 540 |
| Total | 1223 | 155 | 251 | 22 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 177 | 1474 | 1651 |
| 05:00 PM | 354 | 26 | 86 | _ | ۱ ۵ | 0 | 0 | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 41 | 440 | 481 |
| 05:00 PM 05:15 PM | 472 | 36 34 | 110 | 5 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 0 | | 41 42 | 582 | 481 624 |
| 05:15 PM 05:30 PM | 364 | 34 34 | 98 | 8 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 42 | 382 462 | |
| 05:30 PM 05:45 PM | 398 | 34 36 | 98 98 | 1 | 0 | 0 | 0 | | 0 | | | | - | - | 0 | | 37 | 462 496 | 503 |
| | 1588 | 140 | 392 | 21 | 0 | | 0 | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 161 | | 533 |
| Total | 1588 | 140 | 392 | 21 | 1 0 | 0 | 0 | 0 | 0 | 0 | Ü | 0 | U | 0 | 0 | Ü | 161 | 1980 | 2141 |
| Grand Total | 5477 | 764 | 1015 | 113 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 877 | 6492 | 7369 |
| Appreh % | 84.4 | / 04 | 15.6 | 113 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6// | 0472 | 1309 |
| Total % | 84.4 | | 15.6 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 11.9 | 88.1 | |
| 10tai % | 04.4 | | 13.0 | | ı U | U | U | U | U | 0 | U | U | U | U | U | U | 11.9 | 00.1 | |

| | | I-295 | | | | | | | | | | | | | | | | | |
|----------------------------------|----------|---------|------------|------|------|----------|------|------------|------|------|---------|------|------------|------|------|---------|------|------------|------------|
| | So | uthboui | nd | | W | estbou | nd | | | No | orthbou | ınd | | | E | astbour | ıd | | |
| Start Time | ML | CD | App. Total | Left | Thru | Right | Trks | App. Total | Left | Thru | Right | Trks | App. Total | Left | Thru | Right | Trks | App. Total | Int. Total |
| Peak Hour Analysis | | | | | | | | | | | | | | | | | | | |
| Peak Hour for Entire | | - | | | | | | | | | | | | | | | | | ı |
| 07:30 AM | 333 | 40 | 373 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 373 |
| 07:45 AM | 341 | 43 | 384 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 384 |
| 08:00 AM | 350 | 59 | | | | | | | | | | | | | | | | | |
| 08:15 AM | 351 | 59 | 410 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 410 |
| Total Volume | 137 5 | 201 | 1576 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1576 |
| % App. Total | 87.2 | 12.8 | | 0 | 0 | 0 | 0 | | 0 | 0 | 0 | 0 | | 0 | 0 | 0 | 0 | | |
| PHF | .979 | .852 | .961 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .961 |
| Peak Hour Ana Peak Hour for I | - | | | | | x 1 of 1 | | | | | | | | | | | | | |
| 04:45 PM | 410 | 93 | 503 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 503 |
| 05:00 PM | 354 | 86 | 440 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 440 |
| 05:15 PM | 472 | 110 | 582 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 582 |
| 05:30 PM | 364 | 98 | 462 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 462 |
| Total Volume | 1600 | 387 | 1987 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1987 |
| % App. Total | 80.5 | 19.5 | | 0 | 0 | 0 | 0 | | 0 | 0 | 0 | 0 | | 0 | 0 | 0 | 0 | | |
| PHF | .847 | .880 | .854 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .854 |

3656 E. Stratford Road Virginia Beach, VA 23455 (757) 464-5129

I64 EIS counts

Exit 211 - Talleysville AM counted: 05/11/11 PM counted: 05/11/11 File Name: I-64 EIS #21111

Site Code : 21111 Start Date : 5/11/2011

Page No : 1

| | | | | | | | <u> </u> | roups i | Timeeu | | | | - | (4 ED | 00 | | 1 | | |
|-------------|------|--------|-------|------|------|-------|----------|---------|--------|--------|-------|------|------|-------|---------|------|--------------|--------------|------------|
| | | | hurch | Kd | | | | | Emi | | hurch | Kd | 1-0 | | off ram | p | | | |
| | | Southb | ound | | | Westb | ound | | | Northl | ound | | | Eastb | ound | | | | |
| Start Time | Left | Thru | Right | Trks | Left | Thru | Right | Trks | Left | Thru | Right | Trks | Left | Thru | Right | Trks | Exclu. Total | Inclu. Total | Int. Total |
| 07:00 AM | 5 | 30 | 0 | 10 | 0 | 0 | 0 | 0 | 0 | 15 | 30 | 17 | 0 | 0 | 12 | 5 | 32 | 92 | 124 |
| 07:15 AM | 6 | 39 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 24 | 54 | 25 | 7 | 0 | 9 | 3 | 36 | 139 | 175 |
| 07:30 AM | 8 | 28 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 19 | 29 | 10 | 1 | 0 | 8 | 5 | 20 | 93 | 113 |
| 07:45 AM | 7 | 29 | 0 | 11 | 0 | 0 | 0 | 0 | 0 | 20 | 29 | 17 | 4 | 0 | 18 | 7 | 35 | 107 | 142 |
| Total | 26 | 126 | 0 | 34 | 0 | 0 | 0 | 0 | 0 | 78 | 142 | 69 | 12 | 0 | 47 | 20 | 123 | 431 | 554 |
| | | | | | | | | | | | | | | | | | | | |
| 08:00 AM | 9 | 33 | 0 | 14 | 0 | 0 | 0 | 0 | 0 | 22 | 28 | 13 | 5 | 0 | 21 | 9 | 36 | 118 | 154 |
| 08:15 AM | 8 | 20 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 23 | 39 | 24 | 4 | 1 | 14 | 11 | 43 | 109 | 152 |
| 08:30 AM | 3 | 22 | 0 | 12 | 0 | 0 | 0 | 0 | 0 | 27 | 29 | 25 | 8 | 0 | 10 | 5 | 42 | 99 | 141 |
| 08:45 AM | 5 | 29 | 0 | 14 | 0 | 0 | 0 | 0 | 0 | 14 | 20 | 17 | 3 | 0 | 22 | 11 | 42 | 93 | 135 |
| Total | 25 | 104 | 0 | 48 | 0 | 0 | 0 | 0 | 0 | 86 | 116 | 79 | 20 | 1 | 67 | 36 | 163 | 419 | 582 |
| | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| 04:00 PM | 5 | 36 | 0 | 14 | 0 | 0 | 0 | 0 | 0 | 26 | 21 | 15 | 6 | 0 | 12 | 4 | 33 | 106 | 139 |
| 04:15 PM | 7 | 49 | 0 | 19 | 0 | 0 | 0 | 0 | 0 | 27 | 11 | 20 | 5 | 0 | 16 | 4 | 43 | 115 | 158 |
| 04:30 PM | 4 | 45 | 0 | 19 | 0 | 0 | 0 | 0 | 0 | 30 | 31 | 21 | 8 | 1 | 16 | 4 | 44 | 135 | 179 |
| 04:45 PM | 3 | 45 | 0 | 19 | 0 | 0 | 0 | 0 | 0 | 36 | 22 | 24 | 7 | 0 | 6 | 1 | 44 | 119 | 163 |
| Total | 19 | 175 | 0 | 71 | 0 | 0 | 0 | 0 | 0 | 119 | 85 | 80 | 26 | 1 | 50 | 13 | 164 | 475 | 639 |
| | | | | | | | | | | | | | | | | | | | |
| 05:00 PM | 0 | 41 | 0 | 13 | 0 | 0 | 0 | 0 | 0 | 34 | 20 | 14 | 5 | 0 | 16 | 7 | 34 | 116 | 150 |
| 05:15 PM | 4 | 44 | 0 | 12 | 0 | 0 | 0 | 0 | 0 | 28 | 34 | 21 | 19 | 0 | 10 | 4 | 37 | 139 | 176 |
| 05:30 PM | 4 | 51 | 0 | 12 | 0 | 0 | 0 | 0 | 0 | 29 | 29 | 12 | 11 | 0 | 13 | 2 | 26 | 137 | 163 |
| 05:45 PM | 1 | 38 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 36 | 31 | 22 | 10 | 0 | 21 | 8 | 39 | 137 | 176 |
| Total | 9 | 174 | 0 | 46 | 0 | 0 | 0 | 0 | 0 | 127 | 114 | 69 | 45 | 0 | 60 | 21 | 136 | 529 | 665 |
| | | | | | | | | | | | | | | | | | | | |
| Grand Total | 79 | 579 | 0 | | 0 | 0 | 0 | 0 | 0 | 410 | 457 | | 103 | 2 | 224 | 90 | 586 | 1854 | 2440 |
| Grand Total | 19 | 319 | U | 199 | 0 | U | U | U | " | 410 | 437 | 297 | 103 | 2 | 224 | 90 | 300 | 1034 | 2440 |
| Apprch % | 12 | 88 | 0 | | 0 | 0 | 0 | | 0 | 47.3 | 52.7 | | 31.3 | 0.6 | 68.1 | | | | |
| Total % | 4.3 | 31.2 | 0 | | 0 | 0 | 0 | | 0 | 22.1 | 24.6 | | 5.6 | 0.1 | 12.1 | | 24 | 76 | |
| | | | | | • | | | | | | | | • | | | | | | |

| | En | maus (| Church I | Rd | | | | | Em | maus | Church | Rd | I | -64 EB | off ram | ıp | |
|-----------------|------------|----------|----------|------------|----------|------|-------|------------|------|-------|--------|------------|------|--------|---------|------------|------------|
| | | South | bound | | | West | bound | | | North | bound | | | Eastl | oound | _ | |
| Start Time | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Int. Total |
| Peak Hour Analy | ysis Fron | n 07:00 | AM to 08 | 3:45 AM | - Peak 1 | of 1 | | | | | | | | | | | |
| Peak Hour for E | ntire Inte | rsection | Begins a | it 07:15 A | M | | | | | | | | | | | | |
| 07:15 AM | 6 | 39 | 0 | 45 | 0 | 0 | 0 | 0 | 0 | 24 | 54 | 78 | 7 | 0 | 9 | 16 | 139 |
| 07:30 AM | 8 | 28 | 0 | 36 | 0 | 0 | 0 | 0 | 0 | 19 | 29 | 48 | 1 | 0 | 8 | 9 | 93 |
| 07:45 AM | 7 | 29 | 0 | 36 | 0 | 0 | 0 | 0 | 0 | 20 | 29 | 49 | 4 | 0 | 18 | 22 | 107 |
| 08:00 AM | 9 | 33 | 0 | 42 | 0 | 0 | 0 | 0 | 0 | 22 | 28 | 50 | 5 | 0 | 21 | 26 | 118 |
| Total Volume | 30 | 129 | 0 | 159 | 0 | 0 | 0 | 0 | 0 | 85 | 140 | 225 | 17 | 0 | 56 | 73 | 457 |
| % App. Total | 18.9 | 81.1 | 0 | | 0 | 0 | 0 | | 0 | 37.8 | 62.2 | | 23.3 | 0 | 76.7 | | |
| PHF | .833 | .827 | .000 | .883 | .000 | .000 | .000 | .000 | .000 | .885 | .648 | .721 | .607 | .000 | .667 | .702 | .822 |
| | | | | | | | | | | | | | | | | | |
| Peak Hour Analy | , | | | | | f 1 | | | | | | | | | | | |
| Peak Hour for E | ntire Inte | rsection | Begins a | ıt 05:00 P | M | | | | | | | | | | | | i |
| 05:00 PM | 0 | 41 | 0 | 41 | 0 | 0 | 0 | 0 | 0 | 34 | 20 | 54 | 5 | 0 | 16 | 21 | 116 |
| 05:15 PM | 4 | 44 | 0 | 48 | 0 | 0 | 0 | 0 | 0 | 28 | 34 | 62 | 19 | 0 | 10 | 29 | 139 |
| 05:30 PM | 4 | 51 | 0 | 55 | 0 | 0 | 0 | 0 | 0 | 29 | 29 | 58 | 11 | 0 | 13 | 24 | 137 |
| 05:45 PM | 1 | 38 | 0 | 39 | 0 | 0 | 0 | 0 | 0 | 36 | 31 | 67 | 10 | 0 | 21 | 31 | 137 |
| Total Volume | 9 | 174 | 0 | 183 | 0 | 0 | 0 | 0 | 0 | 127 | 114 | 241 | 45 | 0 | 60 | 105 | 529 |
| % App. Total | 4.9 | 95.1 | 0 | | 0 | 0 | 0 | | 0 | 52.7 | 47.3 | | 42.9 | 0 | 57.1 | | |
| PHF | .563 | .853 | .000 | .832 | .000 | .000 | .000 | .000 | .000 | .882 | .838 | .899 | .592 | .000 | .714 | .847 | .951 |

3656 E. Stratford Road Virginia Beach, VA 23455 (757) 464-5129

I64 EIS counts Exit 211 - Talleysville AM counted: 05/11/11

PM counted: 05/11/11

File Name: I-64 EIS #21112

Site Code : 21112 Start Date : 5/11/2011

Page No : 1

| | | | | | | | | | Printed | | | | | | | | , | | |
|-------------|------|--------|---------|------|------|-------|---------|------|---------|--------|---------|------|------|-------|-------|------|--------------|--------------|------------|
| | Emr | naus C | hurch l | Rd | I-6 | 64 WB | off ram | ıp | Emi | naus C | hurch l | Rd | | | | | | | |
| | | Southb | ound | | | Westb | ound | | | North | oound | | | Eastb | ound | | | | |
| Start Time | Left | Thru | Right | Trks | Left | Thru | Right | Trks | Left | Thru | Right | Trks | Left | Thru | Right | Trks | Exclu. Total | Inclu. Total | Int. Total |
| 07:00 AM | 0 | 17 | 13 | 0 | 19 | 0 | 1 | 10 | 12 | 4 | 0 | 5 | 0 | 0 | 0 | 0 | 15 | 66 | 81 |
| 07:15 AM | 0 | 21 | 15 | 1 | 23 | 1 | 4 | 9 | 12 | 19 | 0 | 7 | 0 | 0 | 0 | 0 | 17 | 95 | 112 |
| 07:30 AM | 0 | 23 | 14 | 0 | 17 | 0 | 3 | 5 | 12 | 6 | 0 | 4 | 0 | 0 | 0 | 0 | 9 | 75 | 84 |
| 07:45 AM | 0 | 13 | 10 | 0 | 25 | 0 | 4 | 13 | 11 | 13 | 0 | 6 | 0 | 0 | 0 | 0 | 19 | 76 | 95 |
| Total | 0 | 74 | 52 | 1 | 84 | 1 | 12 | 37 | 47 | 42 | 0 | 22 | 0 | 0 | 0 | 0 | 60 | 312 | 372 |
| | | | | | | | | | | | | | | | | | | | |
| 08:00 AM | 0 | 18 | 9 | 3 | 23 | 1 | 8 | 10 | 15 | 11 | 0 | 6 | 0 | 0 | 0 | 0 | 19 | 85 | 104 |
| 08:15 AM | 0 | 16 | 14 | 0 | 11 | 0 | 4 | 5 | 13 | 16 | 0 | 6 | 0 | 0 | 0 | 0 | 11 | 74 | 85 |
| 08:30 AM | 0 | 8 | 9 | 0 | 18 | 0 | 1 | 11 | 14 | 19 | 0 | 9 | 0 | 0 | 0 | 0 | 20 | 69 | 89 |
| 08:45 AM | 0 | 11 | 2 | 1 | 21 | 1 | 5 | 12 | 9 | 8 | 0 | 7 | 0 | 0 | 0 | 0 | 20 | 57 | 77 |
| Total | 0 | 53 | 34 | 4 | 73 | 2 | 18 | 38 | 51 | 54 | 0 | 28 | 0 | 0 | 0 | 0 | 70 | 285 | 355 |
| | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| | | | | | 1 | | | | | | | | | | | | | | |
| 04:00 PM | 0 | 11 | 4 | 1 | 30 | 0 | 13 | 11 | 12 | 18 | 0 | 6 | 0 | 0 | 0 | 0 | 18 | 88 | 106 |
| 04:15 PM | 0 | 15 | 7 | 1 | 42 | 0 | 2 | 16 | 14 | 17 | 0 | 12 | 0 | 0 | 0 | 0 | 29 | 97 | 126 |
| 04:30 PM | 0 | 11 | 11 | 0 | 34 | 1 | 5 | 19 | 18 | 16 | 0 | 7 | 0 | 0 | 0 | 0 | 26 | 96 | 122 |
| 04:45 PM | 0 | 5 | 3 | 0 | 39 | 0 | 11 | 16 | 22 | 22 | 0 | 16 | 0 | 0 | 0 | 0 | 32 | 102 | 134 |
| Total | 0 | 42 | 25 | 2 | 145 | 1 | 31 | 62 | 66 | 73 | 0 | 41 | 0 | 0 | 0 | 0 | 105 | 383 | 488 |
| | | | | | 1 | | | | | | | | ı | | | | | | |
| 05:00 PM | 0 | 10 | 3 | 2 | 31 | 0 | 5 | 9 | 15 | 22 | 0 | 7 | 0 | 0 | 0 | 0 | 18 | 86 | 104 |
| 05:15 PM | 0 | 12 | 0 | 0 | 15 | 1 | 1 | 8 | 15 | 28 | 0 | 11 | 0 | 0 | 0 | 0 | 19 | 72 | 91 |
| 05:30 PM | 0 | 11 | 6 | 0 | 37 | 1 | 3 | 10 | 13 | 27 | 0 | 7 | 0 | 0 | 0 | 0 | 17 | 98 | 115 |
| 05:45 PM | 0 | 8 | 3 | 0 | 30 | 0 | 6 | 8 | 17 | 27 | 0 | 11 | 0 | 0 | 0 | 0 | 19 | 91 | 110 |
| Total | 0 | 41 | 12 | 2 | 113 | 2 | 15 | 35 | 60 | 104 | 0 | 36 | 0 | 0 | 0 | 0 | 73 | 347 | 420 |
| | | | | | | | | | | | | | | | | | | | |
| Grand Total | 0 | 210 | 123 | 9 | 415 | 6 | 76 | | 224 | 273 | 0 | | 0 | 0 | 0 | 0 | 308 | 1327 | 1635 |
| | | | | | | | | 172 | | | | 127 | | | | v | 300 | 1,541 | 1033 |
| Apprch % | 0 | 63.1 | 36.9 | | 83.5 | 1.2 | 15.3 | | 45.1 | 54.9 | 0 | | 0 | 0 | 0 | | | | |
| Total % | 0 | 15.8 | 9.3 | | 31.3 | 0.5 | 5.7 | | 16.9 | 20.6 | 0 | | 0 | 0 | 0 | | 18.8 | 81.2 | |
| | | | | | | | | | | | | | | | | | | | |

| | Em | maus (| Church I | Rd | Į. | -64 WB | off ram | ıp | En | ımaus (| Church | Rd | | | | | |
|-----------------|------------|----------|----------|------------|--------|--------|---------|------------|------|---------|--------|------------|------|-------|-------|------------|------------|
| | | South | bound | | | West | bound | _ | | North | bound | | | Eastl | oound | | |
| Start Time | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Int. Total |
| Peak Hour Analy | ysis Fron | n 07:00 | AM to 08 | 3:45 AM - | Peak 1 | of 1 | | | | | | | | | | | |
| Peak Hour for E | ntire Inte | rsection | Begins a | at 07:15 A | M | | | | | | | | | | | | |
| 07:15 AM | 0 | 21 | 15 | 36 | 23 | 1 | 4 | 28 | 12 | 19 | 0 | 31 | 0 | 0 | 0 | 0 | 95 |
| 07:30 AM | 0 | 23 | 14 | 37 | 17 | 0 | 3 | 20 | 12 | 6 | 0 | 18 | 0 | 0 | 0 | 0 | 75 |
| 07:45 AM | 0 | 13 | 10 | 23 | 25 | 0 | 4 | 29 | 11 | 13 | 0 | 24 | 0 | 0 | 0 | 0 | 76 |
| 08:00 AM | 0 | 18 | 9 | 27 | 23 | 1 | 8 | 32 | 15 | 11 | 0 | 26 | 0 | 0 | 0 | 0 | 85 |
| Total Volume | 0 | 75 | 48 | 123 | 88 | 2 | 19 | 109 | 50 | 49 | 0 | 99 | 0 | 0 | 0 | 0 | 331 |
| % App. Total | 0 | 61 | 39 | | 80.7 | 1.8 | 17.4 | | 50.5 | 49.5 | 0 | | 0 | 0 | 0 | | |
| PHF | .000 | .815 | .800 | .831 | .880 | .500 | .594 | .852 | .833 | .645 | .000 | .798 | .000 | .000 | .000 | .000 | .871 |
| | | | | | | | | | | | | | | | | | |
| Peak Hour Analy | , | | | | | of 1 | | | | | | | | | | | |
| Peak Hour for E | ntire Inte | rsection | Begins a | at 04:00 P | 1 | | | | | | | | | | | | |
| 04:00 PM | 0 | 11 | 4 | 15 | 30 | 0 | 13 | 43 | 12 | 18 | 0 | 30 | 0 | 0 | 0 | 0 | 88 |
| 04:15 PM | 0 | 15 | 7 | 22 | 42 | 0 | 2 | 44 | 14 | 17 | 0 | 31 | 0 | 0 | 0 | 0 | 97 |
| 04:30 PM | 0 | 11 | 11 | 22 | 34 | 1 | 5 | 40 | 18 | 16 | 0 | 34 | 0 | 0 | 0 | 0 | 96 |
| 04:45 PM | 0 | 5_ | 3 | 8 | 39 | 0 | 11 | 50 | 22 | 22 | 0 | 44 | 0 | 0 | 0 | 0 | 102 |
| Total Volume | 0 | 42 | 25 | 67 | 145 | 1 | 31 | 177 | 66 | 73 | 0 | 139 | 0 | 0 | 0 | 0 | 383 |
| % App. Total | 0 | 62.7 | 37.3 | | 81.9 | 0.6 | 17.5 | | 47.5 | 52.5 | 0 | | 0 | 0 | 0 | | |
| PHF | .000 | .700 | .568 | .761 | .863 | .250 | .596 | .885 | .750 | .830 | 000 | .790 | .000 | .000 | .000 | .000 | .939 |

3656 E. Stratford Road Virginia Beach, VA 23455 (757) 464-5129

I64 EIS counts Exit 227 - Toano

AM counted: 05/12/11 PM counted: 05/12/11

File Name: I-64 EIS #22711

Site Code : 22711 Start Date : 5/12/2011

Page No : 1

| | | | | | | | G | roups 1 | rintea | - All V | emcles | | | | | | , | | |
|-------------|------|-------|---------|------|------|-------|-------|---------|--------|---------|---------|------|------|---------|---------|------|--------------|--------------|------------|
| | | | Stage 1 | Rd | | | | | Rt 3 | 0 / Old | Stage 1 | Rd | I-0 | 64 EB (| off ram | p | | | |
| | | South | ound | | | Westb | ound | | | North | bound | | | Eastb | ound | | | | |
| Start Time | Left | Thru | Right | Trks | Left | Thru | Right | Trks | Left | Thru | Right | Trks | Left | Thru | Right | Trks | Exclu. Total | Inclu. Total | Int. Total |
| 07:00 AM | 0 | 108 | 81 | 8 | 0 | 0 | 0 | 0 | 0 | 59 | 33 | 2 | 0 | 0 | 14 | 4 | 14 | 295 | 309 |
| 07:15 AM | 0 | 77 | 85 | 3 | 0 | 0 | 0 | 0 | 0 | 73 | 30 | 11 | 1 | 0 | 23 | 7 | 21 | 289 | 310 |
| 07:30 AM | 0 | 86 | 92 | 7 | 0 | 0 | 0 | 0 | 0 | 49 | 35 | 4 | 0 | 0 | 20 | 4 | 15 | 282 | 297 |
| 07:45 AM | 0 | 115 | 144 | 9 | 0 | 0 | 0 | 0 | 0 | 42 | 28 | 7 | 2 | 0 | 29 | 5 | 21 | 360 | 381 |
| Total | 0 | 386 | 402 | 27 | 0 | 0 | 0 | 0 | 0 | 223 | 126 | 24 | 3 | 0 | 86 | 20 | 71 | 1226 | 1297 |
| | | | | | i | | | | | | | | ı | | | | | | |
| 08:00 AM | 0 | 109 | 103 | 7 | 0 | 0 | 0 | 0 | 0 | 57 | 34 | 13 | 0 | 0 | 33 | 2 | 22 | 336 | 358 |
| 08:15 AM | 0 | 100 | 99 | 9 | 0 | 0 | 0 | 0 | 0 | 44 | 15 | 7 | 2 | 0 | 27 | 3 | 19 | 287 | 306 |
| 08:30 AM | 0 | 101 | 93 | 12 | 0 | 0 | 0 | 0 | 0 | 62 | 29 | 12 | 1 | 0 | 30 | 5 | 29 | 316 | 345 |
| 08:45 AM | 0 | 73 | 72 | 6 | 0 | 0 | 0 | 0 | 0 | 57 | 29 | 8 | 2 | 0 | 24 | 5 | 19 | 257 | 276 |
| Total | 0 | 383 | 367 | 34 | 0 | 0 | 0 | 0 | 0 | 220 | 107 | 40 | 5 | 0 | 114 | 15 | 89 | 1196 | 1285 |
| | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| 04:00 PM | 0 | 56 | 39 | 4 | 0 | 0 | 0 | 0 | 0 | 121 | 21 | 9 | 4 | 0 | 20 | 0 | 13 | 261 | 274 |
| 04:15 PM | 0 | 66 | 38 | 6 | 0 | 0 | 0 | 0 | 0 | 115 | 25 | 7 | 4 | 0 | 21 | 2 | 15 | 269 | 284 |
| 04:30 PM | 0 | 72 | 38 | 7 | 0 | 0 | 0 | 0 | 0 | 106 | 19 | 9 | 6 | 0 | 23 | 4 | 20 | 264 | 284 |
| 04:45 PM | 0 | 78 | 35 | 9 | 0 | 0 | 0 | 0 | 0 | 116 | 29 | 4 | 6 | 0 | 25 | 2 | 15 | 289 | 304 |
| Total | 0 | 272 | 150 | 26 | 0 | 0 | 0 | 0 | 0 | 458 | 94 | 29 | 20 | 0 | 89 | 8 | 63 | 1083 | 1146 |
| | | | | | | | | | | | | | | | | | | | |
| 05:00 PM | 0 | 80 | 48 | 1 | 0 | 0 | 0 | 0 | 0 | 132 | 33 | 9 | 9 | 0 | 20 | 4 | 14 | 322 | 336 |
| 05:15 PM | 0 | 70 | 43 | 5 | 0 | 0 | 0 | 0 | 0 | 100 | 25 | 6 | 8 | 0 | 18 | 1 | 12 | 264 | 276 |
| 05:30 PM | 0 | 83 | 48 | 5 | 0 | 0 | 0 | 0 | 0 | 108 | 17 | 10 | 5 | 0 | 27 | 2 | 17 | 288 | 305 |
| 05:45 PM | 0 | 61 | 34 | 6 | 0 | 0 | 0 | 0 | 0 | 95 | 24 | 8 | 7 | 0 | 17 | 1 | 15 | 238 | 253 |
| Total | 0 | 294 | 173 | 17 | 0 | 0 | 0 | 0 | 0 | 435 | 99 | 33 | 29 | 0 | 82 | 8 | 58 | 1112 | 1170 |
| | | | | | ı | | | | | | | | ı | | | | | | |
| Grand Total | 0 | 1335 | 1092 | | 0 | 0 | 0 | 0 | 0 | 1336 | 426 | | 57 | 0 | 371 | 51 | 281 | 4617 | 4898 |
| | | | | 104 | | | | Ü | | | | 126 | | | | 31 | 201 | | |
| Apprch % | 0 | 55 | 45 | | 0 | 0 | 0 | | 0 | 75.8 | 24.2 | | 13.3 | 0 | 86.7 | | | 0.1.5 | |
| Total % | 0 | 28.9 | 23.7 | | 0 | 0 | 0 | | 0 | 28.9 | 9.2 | | 1.2 | 0 | 8 | | 5.7 | 94.3 | |

| | Rt | 30 / Old | l Stage l | Rd | | | | | Rt | 30 / Ol | d Stage | Rd | I | -64 EB | off ram | ıp | |
|-----------------|------------|-----------|-----------|------------|--------|-------|-------|------------|------|---------|---------|------------|------|--------|---------|------------|------------|
| | | South | bound | | | Westl | bound | | | North | bound | | | Eastl | bound | | |
| Start Time | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Int. Total |
| Peak Hour Analy | ysis Fron | n 07:00 | AM to 0 | 8:45 AM | Peak 1 | of 1 | | | | | | | | | | | |
| Peak Hour for E | ntire Inte | ersection | Begins | at 07:45 A | M | | | | | | | | | | | | |
| 07:45 AM | 0 | 115 | 144 | 259 | 0 | 0 | 0 | 0 | 0 | 42 | 28 | 70 | 2 | 0 | 29 | 31 | 360 |
| 08:00 AM | 0 | 109 | 103 | 212 | 0 | 0 | 0 | 0 | 0 | 57 | 34 | 91 | 0 | 0 | 33 | 33 | 336 |
| 08:15 AM | 0 | 100 | 99 | 199 | 0 | 0 | 0 | 0 | 0 | 44 | 15 | 59 | 2 | 0 | 27 | 29 | 287 |
| 08:30 AM | 0 | 101 | 93 | 194 | 0 | 0 | 0 | 0 | 0 | 62 | 29 | 91 | 1 | 0 | 30 | 31 | 316 |
| Total Volume | 0 | 425 | 439 | 864 | 0 | 0 | 0 | 0 | 0 | 205 | 106 | 311 | 5 | 0 | 119 | 124 | 1299 |
| % App. Total | 0 | 49.2 | 50.8 | | 0 | 0 | 0 | | 0 | 65.9 | 34.1 | | 4 | 0 | 96 | | |
| PHF | .000 | .924 | .762 | .834 | .000 | .000 | .000 | .000 | .000 | .827 | .779 | .854 | .625 | .000 | .902 | .939 | .902 |
| | | | | | | | | | | | | | | | | | |
| Peak Hour Analy | • | | | | | f 1 | | | | | | | | | | | |
| Peak Hour for E | ntire Inte | ersection | Begins | at 04:45 P | M | | | | | | | | | | | | |
| 04:45 PM | 0 | 78 | 35 | 113 | 0 | 0 | 0 | 0 | 0 | 116 | 29 | 145 | 6 | 0 | 25 | 31 | 289 |
| 05:00 PM | 0 | 80 | 48 | 128 | 0 | 0 | 0 | 0 | 0 | 132 | 33 | 165 | 9 | 0 | 20 | 29 | 322 |
| 05:15 PM | 0 | 70 | 43 | 113 | 0 | 0 | 0 | 0 | 0 | 100 | 25 | 125 | 8 | 0 | 18 | 26 | 264 |
| 05:30 PM | 0 | 83 | 48 | 131 | 0 | 0 | 0 | 0 | 0 | 108 | 17 | 125 | 5 | 0 | 27 | 32 | 288 |
| Total Volume | 0 | 311 | 174 | 485 | 0 | 0 | 0 | 0 | 0 | 456 | 104 | 560 | 28 | 0 | 90 | 118 | 1163 |
| % App. Total | 0 | 64.1 | 35.9 | | 0 | 0 | 0 | | 0 | 81.4 | 18.6 | | 23.7 | 0 | 76.3 | | |
| PHF | .000 | .937 | .906 | .926 | .000 | .000 | .000 | .000 | .000 | .864 | .788 | .848 | .778 | .000 | .833 | .922 | .903 |

3656 E. Stratford Road Virginia Beach, VA 23455 (757) 464-5129

I64 EIS counts Exit 227 - Toano

AM counted: 05/12/11 PM counted: 05/12/11

File Name: I-64 EIS #22712

Site Code : 22712 Start Date : 5/12/2011

Page No : 1

| | | | | | | | | | rimeu | - All V | emcies | | | | | | 1 | | |
|-------------|------|---------|---------|------|------|-------|---------|------|-------|---------|--------|------|------|-------|-------|------|--------------|--------------|------------|
| | Rt 3 | 0 / Old | Stage 1 | Rd | I-6 | 64 WB | off ram | p | | | | | | | | | | | |
| | | Southb | ound | | | Westb | ound | | | Northl | oound | | | Eastb | ound | | | | |
| Start Time | Left | Thru | Right | Trks | Left | Thru | Right | Trks | Left | Thru | Right | Trks | Left | Thru | Right | Trks | Exclu. Total | Inclu. Total | Int. Total |
| 07:00 AM | 0 | 167 | 16 | 1 | 22 | 0 | 43 | 0 | 26 | 37 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 311 | 312 |
| 07:15 AM | 0 | 154 | 8 | 2 | 8 | 0 | 38 | 1 | 32 | 38 | 0 | 5 | 0 | 0 | 0 | 0 | 8 | 278 | 286 |
| 07:30 AM | 0 | 163 | 11 | 6 | 15 | 1 | 33 | 1 | 24 | 24 | 0 | 1 | 0 | 0 | 0 | 0 | 8 | 271 | 279 |
| 07:45 AM | 0 | 234 | 5 | 5 | 25 | 0 | 39 | 1 | 18 | 28 | 0 | 1 | 0 | 0 | 0 | 0 | 7 | 349 | 356 |
| Total | 0 | 718 | 40 | 14 | 70 | 1 | 153 | 3 | 100 | 127 | 0 | 7 | 0 | 0 | 0 | 0 | 24 | 1209 | 1233 |
| | | | | | | | | | | | | | | | | | | | |
| 08:00 AM | 0 | 192 | 3 | 2 | 20 | 3 | 42 | 0 | 23 | 29 | 0 | 4 | 0 | 0 | 0 | 0 | 6 | 312 | 318 |
| 08:15 AM | 0 | 171 | 6 | 3 | 28 | 0 | 40 | 2 | 15 | 33 | 0 | 3 | 0 | 0 | 0 | 0 | 8 | 293 | 301 |
| 08:30 AM | 0 | 173 | 5 | 8 | 21 | 0 | 33 | 2 | 23 | 39 | 0 | 6 | 0 | 0 | 0 | 0 | 16 | 294 | 310 |
| 08:45 AM | 0 | 124 | 7 | 5 | 21 | 0 | 31 | 2 | 19 | 29 | 0 | 1 | 0 | 0 | 0 | 0 | 8 | 231 | 239 |
| Total | 0 | 660 | 21 | 18 | 90 | 3 | 146 | 6 | 80 | 130 | 0 | 14 | 0 | 0 | 0 | 0 | 38 | 1130 | 1168 |
| | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| 04:00 PM | 0 | 74 | 0 | 0 | 16 | 1 | 91 | 5 | 18 | 68 | 0 | 5 | 0 | 0 | 0 | 0 | 10 | 268 | 278 |
| 04:15 PM | 0 | 66 | 4 | 5 | 21 | 1 | 100 | 3 | 22 | 77 | 0 | 2 | 0 | 0 | 0 | 0 | 10 | 291 | 301 |
| 04:30 PM | 0 | 73 | 3 | 3 | 22 | 0 | 92 | 1 | 19 | 80 | 0 | 3 | 0 | 0 | 0 | 0 | 7 | 289 | 296 |
| 04:45 PM | 0 | 79 | 0 | 1 | 17 | 0 | 115 | 1 | 26 | 88 | 0 | 2 | 0 | 0 | 0 | 0 | 4 | 325 | 329 |
| Total | 0 | 292 | 7 | 9 | 76 | 2 | 398 | 10 | 85 | 313 | 0 | 12 | 0 | 0 | 0 | 0 | 31 | 1173 | 1204 |
| | | | | | ı | | | | ı | | | | ı | | | | 1 | | |
| 05:00 PM | 0 | 92 | 6 | 0 | 19 | 0 | 100 | 1 | 40 | 104 | 0 | 5 | 0 | 0 | 0 | 0 | 6 | 361 | 367 |
| 05:15 PM | 0 | 82 | 3 | 1 | 13 | 1 | 97 | 1 | 25 | 76 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 297 | 299 |
| 05:30 PM | 0 | 76 | 4 | 0 | 16 | 0 | 86 | 0 | 22 | 71 | 0 | 4 | 0 | 0 | 0 | 0 | 4 | 275 | 279 |
| 05:45 PM | 0 | 66 | 1 | 0 | 17 | 0 | 78 | 0 | 19 | 65 | 0 | 2 | 0 | 0 | 0 | 0 | 2 | 246 | 248 |
| Total | 0 | 316 | 14 | 1 | 65 | 1 | 361 | 2 | 106 | 316 | 0 | 11 | 0 | 0 | 0 | 0 | 14 | 1179 | 1193 |
| | | | | | | | | | 1 | | | | | | | | 1 | | |
| Grand Total | 0 | 1986 | 82 | 42 | 301 | 7 | 1058 | 21 | 371 | 886 | 0 | 44 | 0 | 0 | 0 | 0 | 107 | 4691 | 4798 |
| Apprch % | 0 | 96 | 4 | | 22 | 0.5 | 77.5 | | 29.5 | 70.5 | 0 | | 0 | 0 | 0 | | | | |
| Total % | 0 | 42.3 | 1.7 | | 6.4 | 0.1 | 22.6 | | 7.9 | 18.9 | 0 | | 0 | 0 | 0 | | 2.2 | 97.8 | |

| | Rt | 30 / Old | l Stage R | 2d | I. | -64 WB | off ran | ıp | | | | | | | | | |
|-----------------|------------|-----------|-----------|------------|--------|--------|---------|------------|------|-------|-------|------------|------|-------|-------|------------|------------|
| | | South | bound | | | Westl | oound | - | | North | bound | | | Eastl | oound | | |
| Start Time | Left | Thru | Right . | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Int. Total |
| Peak Hour Analy | ysis Fron | n 07:00 . | AM to 08 | :45 AM - | Peak 1 | of 1 | | | | | | | | | | | |
| Peak Hour for E | ntire Inte | rsection | Begins a | t 07:45 A | M | | | | | | | | | | | | |
| 07:45 AM | 0 | 234 | 5 | 239 | 25 | 0 | 39 | 64 | 18 | 28 | 0 | 46 | 0 | 0 | 0 | 0 | 349 |
| 08:00 AM | 0 | 192 | 3 | 195 | 20 | 3 | 42 | 65 | 23 | 29 | 0 | 52 | 0 | 0 | 0 | 0 | 312 |
| 08:15 AM | 0 | 171 | 6 | 177 | 28 | 0 | 40 | 68 | 15 | 33 | 0 | 48 | 0 | 0 | 0 | 0 | 293 |
| 08:30 AM | 0 | 173 | 5 | 178 | 21 | 0 | 33 | 54 | 23 | 39 | 0 | 62 | 0 | 0 | 0 | 0 | 294 |
| Total Volume | 0 | 770 | 19 | 789 | 94 | 3 | 154 | 251 | 79 | 129 | 0 | 208 | 0 | 0 | 0 | 0 | 1248 |
| % App. Total | 0 | 97.6 | 2.4 | | 37.5 | 1.2 | 61.4 | | 38 | 62 | 0 | | 0 | 0 | 0 | | |
| PHF | .000 | .823 | .792 | .825 | .839 | .250 | .917 | .923 | .859 | .827 | .000 | .839 | .000 | .000 | .000 | .000 | .894 |
| | | 0.4.00 | | 45.00.5 | | | | | | | | | | | | | |
| Peak Hour Analy | | | | | | of 1 | | | | | | | | | | | |
| Peak Hour for E | | | _ | | | | | | | | | 1 | | | | | |
| 04:30 PM | 0 | 73 | 3 | 76 | 22 | 0 | 92 | 114 | 19 | 80 | 0 | 99 | 0 | 0 | 0 | 0 | 289 |
| 04:45 PM | 0 | 79 | 0 | 79 | 17 | 0 | 115 | 132 | 26 | 88 | 0 | 114 | 0 | 0 | 0 | 0 | 325 |
| 05:00 PM | 0 | 92 | 6 | 98 | 19 | 0 | 100 | 119 | 40 | 104 | 0 | 144 | 0 | 0 | 0 | 0 | 361 |
| 05:15 PM | 0 | 82 | 3 | 85 | 13 | 1 | 97 | 111 | 25 | 76 | 0 | 101 | 0 | 0 | 0 | 0 | 297 |
| Total Volume | 0 | 326 | 12 | 338 | 71 | 1 | 404 | 476 | 110 | 348 | 0 | 458 | 0 | 0 | 0 | 0 | 1272 |
| % App. Total | 0 | 96.4 | 3.6 | | 14.9 | 0.2 | 84.9 | | 24 | 76 | 0 | | 0 | 0 | 0 | | |
| PHF | .000 | .886 | .500 | .862 | .807 | .250 | .878 | .902 | .688 | .837 | .000 | .795 | .000 | .000 | .000 | .000 | .881 |

3656 E. Stratford Road Virginia Beach, VA 23455 (757) 464-5129

I64 EIS counts
Exit 231 - Croaker
AM counted: 04/14/11
PM counted: 04/14/11

File Name : I-64 EIS #23111

Site Code : 23111 Start Date : 4/14/2011

Page No : 1

| | | | | | | | | | rintea | | | | | | | | 1 | | |
|-------------------------|-----------|-----------|-----------|------|------------|------------|------------|------|-------------|-------------|-----------|------|------------|-----------|-------------|------|--------------|--------------|------------|
| | | Croak | er Rd | | F | enton 1 | Mill Rd | | | Croak | er Rd | | F | enton 1 | Mill Rd | l | | | |
| | | Southb | ound | | | Westb | ound | | | Northl | oound | | | Eastb | ound | | | | |
| Start Time | Left | Thru | Right | Trks | Left | Thru | Right | Trks | Left | Thru | Right | Trks | Left | Thru | Right | Trks | Exclu. Total | Inclu. Total | Int. Total |
| 07:00 AM | 3 | 50 | 0 | 3 | 7 | 0 | 0 | 0 | 20 | 11 | 1 | 0 | 3 | 3 | 27 | 2 | 5 | 125 | 130 |
| 07:15 AM | 0 | 48 | 2 | 1 | 2 | 0 | 0 | 0 | 21 | 12 | 3 | 2 | 1 | 1 | 22 | 1 | 4 | 112 | 116 |
| 07:30 AM | 2 | 31 | 0 | 3 | 5 | 2 | 2 | 0 | 31 | 18 | 1 | 2 | 2 | 2 | 29 | 1 | 6 | 125 | 131 |
| 07:45 AM | 4 | 36 | 3 | 3 | 6 | 1 | 2 | 2 | 19 | 12 | 2 | 2 | 8 | 3 | 24 | 0 | 7 | 120 | 127 |
| Total | 9 | 165 | 5 | 10 | 20 | 3 | 4 | 2 | 91 | 53 | 7 | 6 | 14 | 9 | 102 | 4 | 22 | 482 | 504 |
| 08:00 AM | 1 | 39 | 1 | 6 | 7 | 1 | 1 | 0 | 20 | 17 | 3 | 6 | 5 | 3 | 26 | 2 | 14 | 124 | 138 |
| 08:15 AM | 3 | 45 | 3 | 4 | 4 | 0 | 1 | 1 | 14 | 20 | 3 | 3 | 2 | 0 | 18 | 2 | 10 | 113 | 123 |
| 08:30 AM | 4 | 24 | 2 | 2 | 2 | 0 | 2 | 0 | 17 | 21 | 3 | 7 | 1 | 1 | 19 | 1 | 10 | 96 | 106 |
| 08:45 AM | 1 | 38 | 1 | 5 | 0 | 0 | 1 | 0 | 16 | 24 | 2 | 5 | 2 | 1 | 16 | 2 | 12 | 102 | 114 |
| Total | 9 | 146 | 7 | 17 | 13 | 1 | 5 | 1 | 67 | 82 | 11 | 21 | 10 | 5 | 79 | 7 | 46 | 435 | 481 |
| | | | | | ı | | | | | | | | 1 | | | | ı | | |
| 04:00 PM | 4 | 25 | 0 | 0 | 3 | 1 | 6 | 1 | 30 | 40 | 7 | 3 | 3 | 3 | 14 | 1 | 5 | 136 | 141 |
| 04:15 PM | 3 | 43 | 0 | 2 | 2 | 3 | 4 | 2 | 30 | 55 | 3 | 11 | 7 | 2 | 18 | 1 | 16 | 170 | 186 |
| 04:30 PM | 10 | 40 | 0 | 3 | 4 | 5 | 4 | 1 | 32 | 40 | 4 | 4 | 5 | 1 | 16 | 3 | 11 | 161 | 172 |
| 04:45 PM | 3 | 45 | 1 | 4 | 4 | 5 | 5_ | 0 | 37 | 49 | 3 | 2 | 4 | 2 | 20 | 1 | 7 | 178 | 185 |
| Total | 20 | 153 | 1 | 9 | 13 | 14 | 19 | 4 | 129 | 184 | 17 | 20 | 19 | 8 | 68 | 6 | 39 | 645 | 684 |
| 05:00 PM | 3 | 62 | 0 | 2 | 4 | 2 | 6 | 1 | 31 | 55 | 4 | 9 | 3 | 1 | 14 | 1 | 13 | 185 | 198 |
| 05:15 PM | 4 | 40 | 3 | 4 | 8 | 3 | 3 | 0 | 26 | 52 | 3 | 5 | 4 | 2 | 22 | 1 | 10 | 170 | 180 |
| 05:30 PM | 3 | 32 | 1 | 0 | 3 | 2 | 2 | 0 | 21 | 44 | 7 | 4 | 2 | 1 | 21 | 1 | 5 | 139 | 144 |
| 05:45 PM | 6 | 38 | 0 | 1 | 4 | 2 | 8 | 0 | 41 | 34 | 2 | 5 | 4 | 2 | 19 | 0 | 6 | 160 | 166 |
| Total | 16 | 172 | 4 | 7 | 19 | 9 | 19 | 1 | 119 | 185 | 16 | 23 | 13 | 6 | 76 | 3 | 34 | 654 | 688 |
| Grand Total Apprch % | 54 7.6 | 636 90 | 17 2.4 | 43 | 65 46.8 | 27 19.4 | 47 33.8 | 8 | 406 42.2 | 504 52.4 | 51 5.3 | 70 | 56 13.7 | 28 6.8 | 325 79.5 | 20 | 141 | 2216 | 2357 |
| Total % | 2.4 | 28.7 | 0.8 | | 2.9 | 1.2 | 2.1 | | 18.3 | 22.7 | 2.3 | | 2.5 | 1.3 | 14.7 | | 6 | 94 | |

| | | Croal | ker Rd | | | Fenton | Mill Ro | i | | Croa | ker Rd | | | Fenton | Mill Ro | i | |
|-----------------|------------|----------|----------|------------|------|--------|---------|------------|------|-------|--------|------------|------|--------|---------|------------|------------|
| | | South | bound | | | West | bound | | | North | bound | | | Eastl | oound | | |
| Start Time | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Int. Total |
| Peak Hour Analy | | | | | | of 1 | | | | | | | | | | | |
| Peak Hour for E | ntire Inte | rsection | Begins a | at 07:00 A | M | | | | | | | | | | | | |
| 07:00 AM | 3 | 50 | 0 | 53 | 7 | 0 | 0 | 7 | 20 | 11 | 1 | 32 | 3 | 3 | 27 | 33 | 125 |
| 07:15 AM | 0 | 48 | 2 | 50 | 2 | 0 | 0 | 2 | 21 | 12 | 3 | 36 | 1 | 1 | 22 | 24 | 112 |
| 07:30 AM | 2 | 31 | 0 | 33 | 5 | 2 | 2 | 9 | 31 | 18 | 1 | 50 | 2 | 2 | 29 | 33 | 125 |
| 07:45 AM | 4 | 36 | 3 | 43 | 6 | 1 | 2 | 9 | 19 | 12 | 2 | 33 | 8 | 3 | 24 | 35 | 120 |
| Total Volume | 9 | 165 | 5 | 179 | 20 | 3 | 4 | 27 | 91 | 53 | 7 | 151 | 14 | 9 | 102 | 125 | 482 |
| % App. Total | 5 | 92.2 | 2.8 | | 74.1 | 11.1 | 14.8 | | 60.3 | 35.1 | 4.6 | | 11.2 | 7.2 | 81.6 | | |
| PHF | .563 | .825 | .417 | .844 | .714 | .375 | .500 | .750 | .734 | .736 | .583 | .755 | .438 | .750 | .879 | .893 | .964 |
| | | | | | | | | | | | | | | | | | |
| Peak Hour Analy | , | | | | | of 1 | | | | | | | | | | | |
| Peak Hour for E | | | _ | | | | | | | | | | | | | | |
| 04:15 PM | 3 | 43 | 0 | 46 | 2 | 3 | 4 | 9 | 30 | 55 | 3 | 88 | 7 | 2 | 18 | 27 | 170 |
| 04:30 PM | 10 | 40 | 0 | 50 | 4 | 5 | 4 | 13 | 32 | 40 | 4 | 76 | 5 | 1 | 16 | 22 | 161 |
| 04:45 PM | 3 | 45 | 1 | 49 | 4 | 5 | 5 | 14 | 37 | 49 | 3 | 89 | 4 | 2 | 20 | 26 | 178 |
| 05:00 PM | 3 | 62 | 0 | 65 | 4 | 2 | 6 | 12 | 31 | 55 | 4 | 90 | 3 | 1 | 14 | 18 | 185 |
| Total Volume | 19 | 190 | 1 | 210 | 14 | 15 | 19 | 48 | 130 | 199 | 14 | 343 | 19 | 6 | 68 | 93 | 694 |
| % App. Total | 9 | 90.5 | 0.5 | | 29.2 | 31.2 | 39.6 | | 37.9 | 58 | 4.1 | | 20.4 | 6.5 | 73.1 | | |
| PHF | .475 | .766 | .250 | .808 | .875 | .750 | .792 | .857 | .878 | .905 | .875 | .953 | .679 | .750 | .850 | .861 | .938 |

3656 E. Stratford Road Virginia Beach, VA 23455 (757) 464-5129

164 EIS

Exit 234 - Lightfoot AM counted: 05/10/11 PM counted: 05/10/11 File Name: I-64 EIS #23411

Site Code : 23411 Start Date : 5/10/2011

Page No : 1

| | | | | | | | | oups | 1 111116 | u- All 1 | V ETTICLE | | | | | | 1 | | |
|---------------------|------------|--------------------------|--------|------|------|-------|--------|------|----------|--------------|--------------|------|-----------|----------|-----------------------|-------|--------------|--------------|------------|
| | | Rt ⁻ South | | | | Westk | oound | | | Rt North | | | I-64 | 19 | ramp 1 99 oound | to Rt | | | |
| Start Time | Left | Thru | Right | Trks | Left | Thru | Right | Trks | Left | Thru | Right | Trks | Left | Thru | Right | Trks | Exclu. Total | Inclu. Total | Int. Total |
| 07:00 AM | 30 | 105 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 104 | 89 | 13 | 3 | 0 | 113 | 5 | 27 | 444 | 471 |
| 07:15 AM | 25 | 108 | Ö | 7 | 0 | Ö | ő | Ö | 0 | 138 | 107 | 10 | 4 | 0 | 119 | 9 | 26 | 501 | 527 |
| 07:30 AM | 29 | 133 | 0 | 12 | Ö | 0 | 0 | Ō | Ō | 114 | 105 | 12 | 3 | 0 | 126 | 9 | 33 | 510 | 543 |
| 07:45 AM | 26 | 149 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 118 | 78 | 12 | 6 | 0 | 188 | 14 | 31 | 565 | 596 |
| Total | 110 | 495 | 0 | 33 | 0 | 0 | 0 | 0 | 0 | 474 | 379 | 47 | 16 | 0 | 546 | 37 | 117 | 2020 | 2137 |
| 08:00 AM | 13 | 100 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 124 | 85 | 12 | 2 | 1 | 133 | 8 | 27 | 458 | 485 |
| 08:15 AM | 14 | 124 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 93 | 86 | 10 | 3 | 0 | 167 | 10 | 28 | 487 | 515 |
| 08:30 AM | 20 | 137 | 0 | 11 | 0 | 0 | 0 | 0 | 0 | 99 | 78 | 16 | 3 | 1 | 146 | 6 | 33 | 484 | 517 |
| 08:45 AM | 17 | 146 | 0 | 19 | 0 | 0 | 0 | 0 | 0 | 88 | 61 | 12 | 4 | 0 | 144 | 7 | 38 | 460 | 498 |
| Total | 64 | 507 | 0 | 45 | 0 | 0 | 0 | 0 | 0 | 404 | 310 | 50 | 12 | 2 | 590 | 31 | 126 | 1889 | 2015 |
| | | | | | ı | | | | ı | | | | ı | | | | ı | | |
| 04:00 PM | 18 | 160 | 0 | 12 | 0 | 0 | 0 | 0 | 0 | 184 | 96 | 19 | 7 | 0 | 114 | 4 | 35 | 579 | 614 |
| 04:15 PM | 12 | 163 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 199 | 66 | 18 | 8 | 0 | 137 | 6 | 31 | 585 | 616 |
| 04:30 PM | 10 | 153 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 195 | 100 | 8 | 4 | 0 | 106 | 8 | 22 | 568 | 590 |
| 04:45 PM | 7 | 145 | 0 | 5_ | 0 | 0 | 0_ | 0 | 0 | 194 | 84 | 8 | 10 | 0 | 121 | 1_ | 14 | <u>561</u> | 575 |
| Total | 47 | 621 | 0 | 30 | 0 | 0 | 0 | 0 | 0 | 772 | 346 | 53 | 29 | 0 | 478 | 19 | 102 | 2293 | 2395 |
| 05:00 PM | 7 | 167 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 216 | 92 | 13 | 7 | 0 | 142 | 8 | 23 | 631 | 654 |
| 05:15 PM | 10 | 167 | 0 | 3 | 0 | 0 | 0 | 0 | 6 | 210 | 116 | 6 | 7 | 0 | 146 | 1 | 10 | 662 | 672 |
| 05:30 PM | 4 | 176 | 0 | 4 | 0 | 0 | 0 | 0 | 1 | 202 | 68 | 7 | 4 | 0 | 133 | 5 | 16 | 588 | 604 |
| 05:45 PM | 7 | 138 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 164 | 77 | 9 | 12 | 0 | 162 | 4 | 18 | 560 | 578 |
| Total | 28 | 648 | 0 | 14 | 0 | 0 | 0 | 0 | 7 | 792 | 353 | 35 | 30 | 0 | 583 | 18 | 67 | 2441 | 2508 |
| Grand Total | 249 | 2271 | 0 | 122 | 0 | 0 | 0 | 0 | 7 | 2442 63.6 | 1388 | 185 | 87 3.8 | 2 0.1 | 2197 96.1 | 105 | 412 | 8643 | 9055 |
| Apprch % Total % | 9.9 2.9 | 90.1 26.3 | 0 0 | | 0 | 0 | 0 0 | | 0.2 | 28.3 | 36.2 16.1 | | 3.8 | 0.1 | 25.4 | | 4.5 | 95.5 | |

| | | Rt | 199 | | | | | | | Rt | 199 | | I-64 E | B off r | amp to | Rt 199 | |
|-----------------|-----------|----------|---------|------------|-------|-----------|-------|------------|------|------|-------|------------|--------|---------|--------|------------|------------|
| | | | bound | | | West | bound | | | | bound | | | | bound | | |
| Start Time | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Int. Total |
| Peak Hour Ana | | | | | | k 1 of 1 | | | | | | | | | | | |
| Peak Hour for I | Entire In | tersecti | ion Beg | ins at 07: | 15 AM | | | | | | | | | | | | |
| 07:15 AM | 25 | 108 | 0 | 133 | 0 | 0 | 0 | 0 | 0 | 138 | 107 | 245 | 4 | 0 | 119 | 123 | 501 |
| 07:30 AM | 29 | 133 | 0 | 162 | 0 | 0 | 0 | 0 | 0 | 114 | 105 | 219 | 3 | 0 | 126 | 129 | 510 |
| 07:45 AM | 26 | 149 | 0 | 175 | 0 | 0 | 0 | 0 | 0 | 118 | 78 | 196 | 6 | 0 | 188 | 194 | 565 |
| 08:00 AM | 13 | 100 | 0 | 113 | 0 | 0 | 0 | 0 | 0 | 124 | 85 | 209 | 2 | 1 | 133 | 136 | 458 |
| Total Volume | 93 | 490 | 0 | 583 | 0 | 0 | 0 | 0 | 0 | 494 | 375 | 869 | 15 | 1 | 566 | 582 | 2034 |
| % App. Total | 16 | 84 | 0 | | 0 | 0 | 0 | | 0 | 56.8 | 43.2 | | 2.6 | 0.2 | 97.3 | | |
| PHF | .802 | .822 | .000 | .833 | .000 | .000 | .000 | .000 | .000 | .895 | .876 | .887 | .625 | .250 | .753 | .750 | .900 |
| | | | | | | | | | | | | | | | | | |
| Peak Hour Ana | , | | | | | ık 1 of 1 | | | | | | | | | | | |
| Peak Hour for I | Entire In | | ion Beg | | 1 | | | | | | | | | | | | |
| 04:45 PM | 7 | 145 | 0 | 152 | 0 | 0 | 0 | 0 | 0 | 194 | 84 | 278 | 10 | 0 | 121 | 131 | 561 |
| 05:00 PM | 7 | 167 | 0 | 174 | 0 | 0 | 0 | 0 | 0 | 216 | 92 | 308 | 7 | 0 | 142 | 149 | 631 |
| 05:15 PM | 10 | 167 | 0 | 177 | 0 | 0 | 0 | 0 | 6 | 210 | 116 | 332 | 7 | 0 | 146 | 153 | 662 |
| 05:30 PM | 4 | 176 | 0 | 180 | 0 | 0 | 0 | 0 | 1_ | 202 | 68 | 271 | 4 | 0 | 133 | 137 | 588 |
| Total Volume | 28 | 655 | 0 | 683 | 0 | 0 | 0 | 0 | 7 | 822 | 360 | 1189 | 28 | 0 | 542 | 570 | 2442 |
| % App. Total | 4.1 | 95.9 | 0 | | 0 | 0 | 0 | | 0.6 | 69.1 | 30.3 | | 4.9 | 0 | 95.1 | | |
| PHF | .700 | .930 | .000 | .949 | .000 | .000 | .000 | .000 | .292 | .951 | .776 | .895 | .700 | .000 | .928 | .931 | .922 |

3656 E. Stratford Road Virginia Beach, VA 23455 (757) 464-5129

I64 EIS

Exit 234 - Lightfoot AM counted: 05/10/11 PM counted: 05/10/11 File Name: I-64 EIS #23412

Site Code : 23412 Start Date : 5/10/2011

Page No : 1

| | | | | | | | | | Printe | | | | | | | | 1 | | |
|-------------------------|-----------|-------------|-----------|------|------------|------------|------------|------|-------------|-------------|-----------|------|-----------|----------|-------------|------|--------------|--------------|------------|
| | Rt 6 | 86 / Ne | ewman | Rd | F | | Mill R | t | | | ewman | Rd | F | enton | Mill R | d | | | |
| | , | Southl | bound | | | Westk | ound | | | North | bound | | | Eastb | ound | | | | |
| Start Time | Left | Thru | Right | Trks | Left | Thru | Right | Trks | Left | Thru | Right | Trks | Left | Thru | Right | Trks | Exclu. Total | Inclu. Total | Int. Total |
| 07:00 AM | 5 | 52 | 0 | 2 | 3 | 2 | 1 | 1 | 8 | 11 | 3 | 1 | 1 | 5 | 15 | 0 | 4 | 106 | 110 |
| 07:15 AM | 0 | 52 | 0 | 1 | 2 | 1 | 1 | 0 | 4 | 28 | 1 | 1 | 0 | 1 | 15 | 1 | 3 | 105 | 108 |
| 07:30 AM | 0 | 59 | 1 | 3 | 2 | 0 | 0 | 0 | 5 | 21 | 1 | 1 | 1 | 0 | 9 | 1 | 5 | 99 | 104 |
| 07:45 AM | 0 | 43 | 2 | 1 | 2 | 1_ | 0 | 0 | 6 | 22 | 0 | 0 | 1 | 1 | 23 | 2 | 3 | 101 | 104 |
| Total | 5 | 206 | 3 | 7 | 9 | 4 | 2 | 1 | 23 | 82 | 5 | 3 | 3 | 7 | 62 | 4 | 15 | 411 | 426 |
| 08:00 AM | 1 | 32 | 0 | 1 | 3 | 1 | 1 | 0 | 3 | 10 | 1 | 1 | 0 | 3 | 4 | 0 | 2 | 59 | 61 |
| 08:15 AM | 1 | 54 | 0 | 2 | 2 | 0 | 0 | Ō | 7 | 15 | 1 | 0 | 1 | 0 | 16 | 0 | 2 | 97 | 99 |
| 08:30 AM | 0 | 51 | 1 | 3 | 1 | 2 | 1 | Ō | 4 | 15 | 1 | 3 | 1 | 0 | 11 | 0 | 6 | 88 | 94 |
| 08:45 AM | Ö | 52 | 2 | 1 | 1 | 1 | 0 | Ö | 11 | 18 | 2 | 1 | 0 | Ö | 9 | Ö | 2 | 96 | 98 |
| Total | 2 | 189 | 3 | 7 | 7 | 4 | 2 | 0 | 25 | 58 | 5 | 5 | 2 | 3 | 40 | 0 | 12 | 340 | 352 |
| | | | | | i | | | | | | | | | | | | | | |
| 04:00 PM | 1 | 40 | 1 | 0 | 4 | 3 | 3 | 1 | 22 | 55 | 2 | 1 | 1 | 0 | 12 | 2 | 4 | 144 | 148 |
| 04:15 PM | 0 | 42 | 2 | 3 | 1 | 6 | 3 | 1 | 17 | 53 | 6 | 3 | 0 | 2 | 8 | 2 | 9 | 140 | 149 |
| 04:30 PM | 1 | 42 | 0 | 1 | 2 | 3 | 2 | 0 | 21 | 65 | 1 | 3 | 1 | 4 | 9 | 1 | 5 | 151 | 156 |
| 04:45 PM | 0 | 46 | 4 | 0 | 1 | 3 | 4 | 0 | 18 | 38 | 1_ | 2 | 4 | 1_ | 10 | 0 | 2 | 130 | 132 |
| Total | 2 | 170 | 7 | 4 | 8 | 15 | 12 | 2 | 78 | 211 | 10 | 9 | 6 | 7 | 39 | 5 | 20 | 565 | 585 |
| 05:00 PM | 0 | 36 | 2 | 1 | 1 | 1 | 0 | 0 | 23 | 65 | 3 | 0 | 2 | 1 | 8 | 0 | 1 | 142 | 143 |
| 05:15 PM | 1 | 36 | 1 | 1 | 3 | 6 | 0 | 0 | 21 | 52 | 4 | 1 | 0 | 0 | 8 | 0 | 2 | 132 | 134 |
| 05:30 PM | 1 | 41 | 1 | 0 | 1 | 2 | 3 | 0 | 21 | 63 | 4 | 0 | 1 | 4 | 11 | 1 | 1 | 153 | 154 |
| 05:45 PM | 0 | 24 | 2 | 1_ | 1 | 1_ | 1 | 0 | 8 | 51 | 2 | 2 | 1 | 0 | 16 | 1_ | 4 | 107 | 111_ |
| Total | 2 | 137 | 6 | 3 | 6 | 10 | 4 | 0 | 73 | 231 | 13 | 3 | 4 | 5 | 43 | 2 | 8 | 534 | 542 |
| Grand Total Apprch % | 11 1.5 | 702 95.9 | 19 2.6 | 21 | 30 36.1 | 33 39.8 | 20 24.1 | 3 | 199 24.4 | 582 71.5 | 33 4.1 | 20 | 15 6.8 | 22 10 | 184 83.3 | 11 | 55 | 1850 | 1905 |
| Total % | 0.6 | 37.9 | 1 | | 1.6 | 1.8 | 1.1 | | 10.8 | 31.5 | 1.8 | | 0.8 | 1.2 | 9.9 | | 2.9 | 97.1 | |

| | Rt | 686 / N | ewman | Rd | | Fenton | Mill R | d | Rt | 686 / N | lewmar | ı Rd | | Fentor | n Mill R | d | |
|-----------------|-----------|----------|----------|------------|---------|----------|--------|------------|------|---------|--------|------------|------|--------|----------|------------|------------|
| | | South | bound | | | West | bound | | | North | bound | | | East | bound | | |
| Start Time | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Int. Total |
| Peak Hour Ana | lysis Fro | om 07:0 | 0 AM to | 08:45 A | M - Pea | k 1 of 1 | | | | | | | | | | | |
| Peak Hour for I | Entire In | tersecti | on Begir | ns at 07: | 00 AM | | | | | | | | | | | | i |
| 07:00 AM | 5 | 52 | 0 | 57 | 3 | 2 | 1 | 6 | 8 | 11 | 3 | 22 | 1 | 5 | 15 | 21 | 106 |
| 07:15 AM | 0 | 52 | 0 | 52 | 2 | 1 | 1 | 4 | 4 | 28 | 1 | 33 | 0 | 1 | 15 | 16 | 105 |
| 07:30 AM | 0 | 59 | 1 | 60 | 2 | 0 | 0 | 2 | 5 | 21 | 1 | 27 | 1 | 0 | 9 | 10 | 99 |
| 07:45 AM | 0 | 43 | 2 | 45 | 2 | 1_ | 0 | 3 | 6 | 22 | 0 | 28 | 1_ | 1 | 23 | 25 | 101 |
| Total Volume | 5 | 206 | 3 | 214 | 9 | 4 | 2 | 15 | 23 | 82 | 5 | 110 | 3 | 7 | 62 | 72 | 411 |
| % App. Total | 2.3 | 96.3 | 1.4 | | 60 | 26.7 | 13.3 | | 20.9 | 74.5 | 4.5 | | 4.2 | 9.7 | 86.1 | | |
| PHF | .250 | .873 | .375 | .892 | .750 | .500 | .500 | .625 | .719 | .732 | .417 | .833 | .750 | .350 | .674 | .720 | .969 |
| | | | | _ | | | | | | | | | | | | | |
| Peak Hour Ana | , | | | | | k 1 of 1 | | | | | | | | | | | |
| Peak Hour for I | Entire In | | on Begir | ns at 04: | 00 PM | | | | | | | | | | | | |
| 04:00 PM | 1 | 40 | 1 | 42 | 4 | 3 | 3 | 10 | 22 | 55 | 2 | 79 | 1 | 0 | 12 | 13 | 144 |
| 04:15 PM | 0 | 42 | 2 | 44 | 1 | 6 | 3 | 10 | 17 | 53 | 6 | 76 | 0 | 2 | 8 | 10 | 140 |
| 04:30 PM | 1 | 42 | 0 | 43 | 2 | 3 | 2 | 7 | 21 | 65 | 1 | 87 | 1 | 4 | 9 | 14 | 151 |
| 04:45 PM | 0 | 46 | 4 | 50 | 1 | 3 | 4 | 8 | 18 | 38 | 1 | 57 | 4 | 1 | 10 | 15 | 130 |
| Total Volume | 2 | 170 | 7 | 179 | 8 | 15 | 12 | 35 | 78 | 211 | 10 | 299 | 6 | 7 | 39 | 52 | 565 |
| % App. Total | 1.1 | 95 | 3.9 | | 22.9 | 42.9 | 34.3 | | 26.1 | 70.6 | 3.3 | | 11.5 | 13.5 | 75 | | |
| PHF | .500 | .924 | .438 | .895 | .500 | .625 | .750 | .875 | .886 | .812 | .417 | .859 | .375 | .438 | .813 | .867 | .935 |

3656 E. Stratford Road Virginia Beach, VA 23455 (757) 464-5129

AM counted: 05/10/11 PM counted: 05/10/11

164 EIS

Site Code : 23811 Start Date : 5/10/2011

Page No : 1

File Name: I-64 EIS #23811

| | Po | cohant | as Trai | l | | | <u> </u> | oups 1 | Po | | as Trai | l | Roc | chamb | eau Tra | nil |] | | |
|-------------------------|-----------|--------------|-------------|------|------|--------|----------|--------|-------------|-------------|-------------|------|-----------|-------------|-------------|------|--------------|--------------|------------|
| | | Southb | ound | | | Westbo | ound | | | North | ound | | | Eastb | ound | | | | |
| Start Time | Left | Thru | Right | Trks | Left | Thru | Right | Trks | Left | Thru | Right | Trks | Left | Thru | Right | Trks | Exclu. Total | Inclu. Total | Int. Total |
| 07:00 AM | 2 | 72 | 49 | 7 | 0 | 0 | 0 | 0 | 105 | 62 | 35 | 2 | 6 | 56 | 55 | 15 | 24 | 442 | 466 |
| 07:15 AM | 1 | 103 | 18 | 8 | 0 | 0 | 0 | 0 | 23 | 63 | 43 | 2 | 11 | 61 | 38 | 4 | 14 | 361 | 375 |
| 07:30 AM | 1 | 127 | 35 | 9 | 0 | 0 | 0 | 0 | 33 | 61 | 43 | 1 | 4 | 47 | 25 | 6 | 16 | 376 | 392 |
| 07:45 AM | 4 | 166 | 54 | 10 | 0 | 0 | 0 | 0 | 38 | 49 | 34 | 7 | 1 | 36 | 29 | 2 | 19 | 411 | 430 |
| Total | 8 | 468 | 156 | 34 | 0 | 0 | 0 | 0 | 199 | 235 | 155 | 12 | 22 | 200 | 147 | 27 | 73 | 1590 | 1663 |
| 08:00 AM | 0 | 109 | 36 | 13 | 0 | 0 | 0 | 0 | 26 | 55 | 29 | 7 | 2 | 31 | 25 | 3 | 23 | 313 | 336 |
| 08:15 AM | 2 | 130 | 32 | 4 | 0 | Ö | 0 | 0 | 27 | 36 | 23 | 9 | 2 | 35 | 26 | 2 | 15 | 313 | 328 |
| 08:30 AM | 4 | 125 | 35 | 4 | Ö | Ö | 0 | Ö | 26 | 35 | 25 | 5 | 1 | 39 | 29 | 8 | 17 | 319 | 336 |
| 08:45 AM | 2 | 111 | 51 | 4 | 0 | 0 | 0 | 0 | 30 | 36 | 26 | 7 | 2 | 22 | 26 | 2 | 13 | 306 | 319 |
| Total | 8 | 475 | 154 | 25 | 0 | 0 | 0 | 0 | 109 | 162 | 103 | 28 | 7 | 127 | 106 | 15 | 68 | 1251 | 1319 |
| | | | | | ı | | | | ı | | | | | | | | ı | | |
| 04:00 PM | 7 | 97 | 54 | 6 | 0 | 0 | 0 | 0 | 53 | 59 | 52 | 6 | 4 | 45 | 62 | 4 | 16 | 433 | 449 |
| 04:15 PM | 10 | 100 | 66 | 3 | 0 | 0 | 0 | 0 | 59 | 76 | 42 | 12 | 3 | 37 | 61 | 4 | 19 | 454 | 473 |
| 04:30 PM | 8 | 133 | 51 | 2 | 0 | 0 | 0 | 0 | 48 | 67 | 52 | 2 | 1 | 33 | 44 | 3 | 7 | 437 | 444 |
| 04:45 PM | 10 | 116 | 69 | 3 | 0 | 0 | 0 | 0 | 83 | 59 | 49 | 3 | 2 | 36 | 48 | 0 | 6 | 472 | 478 |
| Total | 35 | 446 | 240 | 14 | 0 | 0 | 0 | 0 | 243 | 261 | 195 | 23 | 10 | 151 | 215 | 11 | 48 | 1796 | 1844 |
| 05:00 PM | 6 | 85 | 66 | 4 | 0 | 0 | 0 | 0 | 53 | 72 | 38 | 3 | 1 | 39 | 63 | 5 | 12 | 423 | 435 |
| 05:15 PM | 7 | 126 | 61 | 5 | 0 | 0 | 0 | 0 | 62 | 86 | 51 | 0 | 0 | 50 | 46 | 4 | 9 | 489 | 498 |
| 05:30 PM | 7 | 133 | 54 | 4 | 0 | 0 | 0 | 0 | 43 | 79 | 69 | 3 | 0 | 39 | 58 | 1 | 8 | 482 | 490 |
| 05:45 PM | 4 | 113 | 44 | 1_ | 0 | 0 | 0 | 0 | 57 | 65 | 49 | 2 | 2 | 40 | 42 | 1_ | 4 | 416 | 420 |
| Total | 24 | 457 | 225 | 14 | 0 | 0 | 0 | 0 | 215 | 302 | 207 | 8 | 3 | 168 | 209 | 11 | 33 | 1810 | 1843 |
| Grand Total Apprch % | 75 2.8 | 1846 68.5 | 775 28.7 | 87 | 0 | 0 | 0 | 0 | 766 32.1 | 960 40.2 | 660 27.7 | 71 | 42 3.1 | 646 47.3 | 677 49.6 | 64 | 222 | 6447 | 6669 |
| Total % | 1.2 | 28.6 | 12 | | 0 | 0 | 0 | | 11.9 | 14.9 | 10.2 | | 0.7 | 10 | 10.5 | | 3.3 | 96.7 | |

| | P | ocohan | tas Trail | l | | | | | P | ocohan | tas Trai | il | Re | ochamb | eau Tra | ail | |
|-----------------|-----------|----------|-----------|------------|---------|----------|-------|------------|------|--------|----------|------------|------|--------|---------|------------|------------|
| | | South | oound | | | Westl | oound | | | North | bound | | | Eastl | oound | | |
| Start Time | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Int. Total |
| Peak Hour Ana | lysis Fro | om 07:0 | 00 AM to | 08:45 A | M - Pea | k 1 of 1 | | | | | | | | | | | |
| Peak Hour for E | Entire In | tersecti | on Begi | ns at 07: | 00 AM | | | | | | | | | | | | |
| 07:00 AM | 2 | 72 | 49 | 123 | 0 | 0 | 0 | 0 | 105 | 62 | 35 | 202 | 6 | 56 | 55 | 117 | 442 |
| 07:15 AM | 1 | 103 | 18 | 122 | 0 | 0 | 0 | 0 | 23 | 63 | 43 | 129 | 11 | 61 | 38 | 110 | 361 |
| 07:30 AM | 1 | 127 | 35 | 163 | 0 | 0 | 0 | 0 | 33 | 61 | 43 | 137 | 4 | 47 | 25 | 76 | 376 |
| 07:45 AM | 4 | 166 | 54 | 224 | 0 | 0 | 0 | 0 | 38 | 49 | 34 | 121 | 1_ | 36 | 29 | 66 | 411 |
| Total Volume | 8 | 468 | 156 | 632 | 0 | 0 | 0 | 0 | 199 | 235 | 155 | 589 | 22 | 200 | 147 | 369 | 1590 |
| % App. Total | 1.3 | 74.1 | 24.7 | | 0 | 0 | 0 | | 33.8 | 39.9 | 26.3 | | 6 | 54.2 | 39.8 | | |
| PHF | .500 | .705 | .722 | .705 | .000 | .000 | .000 | .000 | .474 | .933 | .901 | .729 | .500 | .820 | .668 | .788 | .899 |
| | | | | | | | | | | | | | | | | | |
| Peak Hour Ana | , | | | | | k 1 of 1 | | | | | | | | | | | |
| Peak Hour for [| Entire In | tersecti | on Begi | ns at 04: | 45 PM | | | | | | | | | | | | |
| 04:45 PM | 10 | 116 | 69 | 195 | 0 | 0 | 0 | 0 | 83 | 59 | 49 | 191 | 2 | 36 | 48 | 86 | 472 |
| 05:00 PM | 6 | 85 | 66 | 157 | 0 | 0 | 0 | 0 | 53 | 72 | 38 | 163 | 1 | 39 | 63 | 103 | 423 |
| 05:15 PM | 7 | 126 | 61 | 194 | 0 | 0 | 0 | 0 | 62 | 86 | 51 | 199 | 0 | 50 | 46 | 96 | 489 |
| 05:30 PM | 7 | 133 | 54 | 194 | 0 | 0 | 0 | 0 | 43 | 79 | 69 | 191 | 0 | 39 | 58 | 97 | 482 |
| Total Volume | 30 | 460 | 250 | 740 | 0 | 0 | 0 | 0 | 241 | 296 | 207 | 744 | 3 | 164 | 215 | 382 | 1866 |
| % App. Total | 4.1 | 62.2 | 33.8 | | 0 | 0 | 0 | | 32.4 | 39.8 | 27.8 | | 0.8 | 42.9 | 56.3 | | |
| PHF | .750 | .865 | .906 | .949 | .000 | .000 | .000 | .000 | .726 | .860 | .750 | .935 | .375 | .820 | .853 | .927 | .954 |

3656 E. Stratford Road Virginia Beach, VA 23455 (757) 464-5129

I64 EIS

AM counted: 5/10/11 PM counted: 5/10/11

File Name: I-64 EIS #23812 Site Code: 23811

Site Code : 23811 Start Date : 5/10/2011

Page No : 1

| | Po | cohant | as Trai | 1 | | | | . oups i | Po | | as Trai | 1 | J-0 | 64 EB 0 | off ram | D |] | | |
|-------------------------|------|-------------|---------|------|------|-------|-------|----------|------|------------|---------|------|-----------|----------|--------------|------|--------------|--------------|------------|
| | | Southb | | _ | | Westb | ound | | | North | | _ | | Eastb | | r | | | |
| Start Time | Left | Thru | Right | Trks | Left | Thru | Right | Trks | Left | Thru | Right | Trks | Left | Thru | Right | Trks | Exclu. Total | Inclu. Total | Int. Total |
| 07:00 AM | 0 | 84 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 62 | 0 | 0 | 14 | 0 | 39 | 1 | 7 | 199 | 206 |
| 07:15 AM | 0 | 55 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 63 | 0 | 1 | 13 | 0 | 67 | 5 | 9 | 198 | 207 |
| 07:30 AM | 0 | 111 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 61 | 0 | 0 | 9 | 0 | 52 | 5 | 9 | 233 | 242 |
| 07:45 AM | 0 | 158 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 49 | 0 | 3 | 12 | 0 | 66 | 6 | 13 | 285 | 298 |
| Total | 0 | 408 | 0 | 17 | 0 | 0 | 0 | 0 | 0 | 235 | 0 | 4 | 48 | 0 | 224 | 17 | 38 | 915 | 953 |
| 08:00 AM | 0 | 94 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 55 | 0 | 4 | 6 | 0 | 51 | 4 | 17 | 206 | 223 |
| 08:15 AM | 0 | 81 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 36 | 0 | 4 | 6 | 0 | 83 | 2 | 8 | 206 | 214 |
| 08:30 AM | 0 | 85 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 35 | 0 | 2 | 9 | 0 | 79 | 1 | 6 | 208 | 214 |
| 08:45 AM | 0 | 113 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 36 | 0 | 3 | 3 | 0 | 51 | 1 | 7 | 203 | 210 |
| Total | 0 | 373 | 0 | 17 | 0 | 0 | 0 | 0 | 0 | 162 | 0 | 13 | 24 | 0 | 264 | 8 | 38 | 823 | 861 |
| | | | | | ı | | | | ı | | | | ı | | | | ı | | |
| 04:00 PM | 0 | 100 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 56 | 0 | 2 | 7 | 0 | 61 | 2 | 5 | 224 | 229 |
| 04:15 PM | 0 | 116 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 63 | 0 | 0 | 2 | 0 | 65 | 0 | 1 | 246 | 247 |
| 04:30 PM | 0 | 88 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 51 | 0 | 0 | 1 | 0 | 63 | 0 | 0 | 203 | 203 |
| 04:45 PM | 0 | 132 | 0 | I | 0 | 0 | 0 | 0 | 0 | 38 | 0 | I | 3 | 0 | 81 | 1 | 3 | 254 | 257 |
| Total | 0 | 436 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 208 | 0 | 3 | 13 | 0 | 270 | 3 | 9 | 927 | 936 |
| 05:00 PM | 0 | 96 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 61 | 0 | 2 | 2 | 0 | 29 | 1 | 5 | 188 | 193 |
| 05:15 PM | 0 | 119 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 79 | 0 | 0 | 2 | 0 | 102 | 3 | 5 | 302 | 307 |
| 05:30 PM | 0 | 112 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 67 | 0 | 0 | 0 | 1 | 69 | 1 | 1 | 249 | 250 |
| 05:45 PM | 0 | 73 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 44 | 0 | 0 | 5 | 1 | 70 | 0 | 1 | 193 | 194 |
| Total | 0 | 400 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 251 | 0 | 2 | 9 | 2 | 270 | 5 | 12 | 932 | 944 |
| Grand Total Apprch % | 0 | 1617 100 | 0 | 42 | 0 | 0 | 0 | 0 | 0 0 | 856 100 | 0 | 22 | 94 8.4 | 2 0.2 | 1028 91.5 | 33 | 97 | 3597 | 3694 |
| Total % | 0 | 45 | 0 | | 0 | 0 | 0 | | 0 | 23.8 | 0 | | 2.6 | 0.1 | 28.6 | | 2.6 | 97.4 | |

| | P | ocohan | tas Trail | l | | | | | P | ocohan | ıtas Tra | il | I | -64 EB | off ran | ıp | |
|-----------------|------------|----------|-----------|------------|--------|-------|-------|------------|------|--------|----------|------------|------|--------|---------|------------|------------|
| | | South | bound | | | Westl | bound | | | North | bound | | | Eastl | bound | | |
| Start Time | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Int. Total |
| Peak Hour Analy | ysis Fron | n 07:00 | AM to 08 | 3:45 AM | Peak 1 | of 1 | | | | | | | | | | | |
| Peak Hour for E | ntire Inte | rsection | Begins a | at 07:30 A | M | | | | | | | | | | | | |
| 07:30 AM | 0 | 111 | 0 | 111 | 0 | 0 | 0 | 0 | 0 | 61 | 0 | 61 | 9 | 0 | 52 | 61 | 233 |
| 07:45 AM | 0 | 158 | 0 | 158 | 0 | 0 | 0 | 0 | 0 | 49 | 0 | 49 | 12 | 0 | 66 | 78 | 285 |
| 08:00 AM | 0 | 94 | 0 | 94 | 0 | 0 | 0 | 0 | 0 | 55 | 0 | 55 | 6 | 0 | 51 | 57 | 206 |
| 08:15 AM | 0 | 81 | 0 | 81 | 0 | 0 | 0 | 0 | 0 | 36 | 0 | 36 | 6 | 0 | 83 | 89 | 206 |
| Total Volume | 0 | 444 | 0 | 444 | 0 | 0 | 0 | 0 | 0 | 201 | 0 | 201 | 33 | 0 | 252 | 285 | 930 |
| % App. Total | 0 | 100 | 0 | | 0 | 0 | 0 | | 0 | 100 | 0 | | 11.6 | 0 | 88.4 | | |
| PHF | .000 | .703 | .000 | .703 | .000 | .000 | .000 | .000 | .000 | .824 | .000 | .824 | .688 | .000 | .759 | .801 | .816 |
| | | | | | | | | | | | | | | | | | |
| Peak Hour Analy | | | | | | of 1 | | | | | | | | | | | |
| Peak Hour for E | ntire Inte | rsection | Begins a | at 04:45 P | M | | | | | | | | | | | | |
| 04:45 PM | 0 | 132 | 0 | 132 | 0 | 0 | 0 | 0 | 0 | 38 | 0 | 38 | 3 | 0 | 81 | 84 | 254 |
| 05:00 PM | 0 | 96 | 0 | 96 | 0 | 0 | 0 | 0 | 0 | 61 | 0 | 61 | 2 | 0 | 29 | 31 | 188 |
| 05:15 PM | 0 | 119 | 0 | 119 | 0 | 0 | 0 | 0 | 0 | 79 | 0 | 79 | 2 | 0 | 102 | 104 | 302 |
| 05:30 PM | 0 | 112 | 0 | 112 | 0 | 0 | 0 | 0 | 0 | 67 | 0 | 67 | 0 | 1 | 69 | 70 | 249 |
| Total Volume | 0 | 459 | 0 | 459 | 0 | 0 | 0 | 0 | 0 | 245 | 0 | 245 | 7 | 1 | 281 | 289 | 993 |
| % App. Total | 0 | 100 | 0 | | 0 | 0 | 0 | | 0 | 100 | 0 | | 2.4 | 0.3 | 97.2 | | |
| PHF | .000 | .869 | .000 | .869 | .000 | .000 | .000 | .000 | .000 | .775 | .000 | .775 | .583 | .250 | .689 | .695 | .822 |

3656 E. Stratford Road Virginia Beach, VA 23455 (757) 464-5129

I-64 EIS

AM counted: 04/28/11 PM counted: 04/27/11

File Name : I-64 EIS #24311

Site Code : 24311 Start Date : 4/28/2011

Page No : 1

| | Southbound | | | | US R | Tı | ocohont ail | | 1 | | ardens | | US F | Tr | cohont ail | as | | | |
|----------------------|------------|-------|-------|------|--------------|--------------|----------------|---------|-------------|-----------|-------------|--------|------------|--------------|---------------|----------------|--------------|--------------|------------|
| | | South | | | | Westh | ound | | | 1101 1111 | Journa | | | Eastb | ound | | | | |
| Start Time | Left | Thru | Right | Trks | Left | Thru | Right | Trks | Left | Thru | Right | Trks | Left | Thru | Right | Trks | Exclu. Total | Inclu. Total | Int. Total |
| 07:00 AM | 0 | 0 | 0 | 0 | 17 | 55 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 29 | 55 | 7 | 12 | 156 | 168 |
| 07:15 AM | 0 | 0 | 0 | 0 | 20 | 67 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 44 | 25 | 1 | 3 | 156 | 159 |
| 07:30 AM | 0 | 0 | 0 | 0 | 30 | 69 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 39 | 39 | 9 | 18 | 177 | 195 |
| 07:45 AM | 0 | 0 | 0 | 0 | 19 | 72 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 24 | 28 | 6 | 12 | 143 | 155 |
| Total | 0 | 0 | 0 | 0 | 86 | 263 | 0 | 22 | 0 | 0 | 0 | 0 | 0 | 136 | 147 | 23 | 45 | 632 | 677 |
| | | | | | | | | _ | | | | | | | | | | | |
| 08:00 AM | 0 | 0 | 0 | 0 | 27 | 91 | 0 | 6 | 1 | 0 | 0 | 0 | 0 | 17 | 30 | 2 | 8 | 166 | 174 |
| 08:15 AM | 0 | 0 | 0 | 0 | 29 | 71 | 0 | 14 | 3 | 0 | 1 | 0 | 0 | 16 | 23 | 1 | 15 | 143 | 158 |
| 08:30 AM | 0 | 0 | 0 | 0 | 20 | 100 | 0 | 14 | 1 | 0 | 0 | 0 | 0 | 18 | 30 | 5 | 19 | 169 | 188 |
| 08:45 AM | 0 | 0 | 0 | 0 | 90 | 67 329 | 0 | 6 40 | 5 | 0 | 0 1 | 0 | 0 | 32 83 | 25 108 | <u>5</u> 13 | 11 53 | 138 616 | 149 669 |
| Total | U | U | U | U | 90 | 329 | U | 40 | 3 | U | 1 | U | U | 83 | 108 | 13 | 33 | 010 | 009 |
| | | | | | | | | | | | | | | | | | | | |
| 04:00 PM | 0 | 0 | 0 | 0 | 30 | 61 | 0 | 5 | 5 | 0 | 1 | 1 | 0 | 112 | 47 | 7 | 13 | 256 | 269 |
| 04:00 PM 04:15 PM | 0 | 0 | 0 | 0 | 30 | 74 | 0 | 8 | 1 1 | 0 | 0 | 1 0 | 0 | 128 | 38 | 16 | 24 | 230 | 209 |
| 04:30 PM | 0 | 0 | 0 | 0 | 17 | 86 | 0 | 5 | 1 1 | 0 | 0 | 0 | 0 | 141 | 33 | 15 | 20 | 278 | 293 |
| 04:45 PM | 0 | 0 | 0 | 0 | 18 | 98 | 0 | 5 | 1 | 0 | 0 | 0 | 0 | 121 | 44 | 12 | 17 | 282 | 299 |
| Total | 0 | 0 | 0 | 0 | 95 | 319 | 0 | 23 | 8 | 0 | 1 | 1 | 0 | 502 | 162 | 50 | 74 | 1087 | 1161 |
| Total | Ü | · · | o | Ů | , ,,, | 31) | Ü | 23 | , , | · · | • | | U | 302 | 102 | 50 | , , , | 1007 | 1101 |
| 05:00 PM | 0 | 0 | 0 | 0 | 35 | 65 | 0 | 4 | 0 | 0 | 0 | 0 | 1 | 109 | 25 | 9 | 13 | 235 | 248 |
| 05:15 PM | 0 | 0 | 0 | 0 | 24 | 74 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 141 | 40 | 7 | 14 | 279 | 293 |
| 05:30 PM | 0 | 0 | 0 | 0 | 8 | 72 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 108 | 31 | 8 | 10 | 219 | 229 |
| 05:45 PM | 0 | 0 | 0 | 0 | 14 | 44 | 0 | 3 | 3 | 0 | 0 | 0 | 1 | 87 | 29 | 5 | 8 | 178 | 186 |
| Total | 0 | 0 | 0 | 0 | 81 | 255 | 0 | 16 | 3 | 0 | 0 | 0 | 2 | 445 | 125 | 29 | 45 | 911 | 956 |
| 1 | | | | | ı | | | | 1 | | | | 1 | | | | ı | | |
| Grand Total | 0 | 0 | 0 | 0 | 352 | 1166 | 0 | 101 | 16 | 0 | 2 | 1 | 2 | 1166 | 542 | 115 | 217 | 3246 | 3463 |
| A | 0 | 0 | 0 | | 22.2 | 76.0 | | 101 | 000 | 0 | 11.1 | | 0.1 | 60.2 | | 115 | | | |
| Apprch % Total % | 0 | 0 | 0 | | 23.2 10.8 | 76.8 35.9 | 0 | | 88.9 0.5 | 0 | 11.1 0.1 | | 0.1 0.1 | 68.2 35.9 | 31.7 16.7 | | 6.3 | 93.7 | |
| rotai % | U | U | U | | 10.8 | 33.9 | U | | 0.5 | U | 0.1 | | 0.1 | 33.9 | 10./ | | 0.3 | 93.7 | |

| | | | | | US Rt | 60/Poc | ohontas | Trail |] | Busch (| Gardens | | US Rt | 60/Poc | ohontas | Trail |] |
|-----------------|------------|-----------|----------|------------|----------|--------|---------|------------|------|---------|---------|------------|-------|--------|---------|------------|------------|
| | | South | bound | | | West | bound | | | North | bound | | | East | bound | | |
| Start Time | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Int. Total |
| Peak Hour Analy | ysis Fron | n 07:00 | AM to 0 | 8:45 AM - | - Peak 1 | of 1 | | | | | | | | | | | |
| Peak Hour for E | ntire Inte | ersection | Begins | at 07:15 A | M | | | | | | | | | | | | |
| 07:15 AM | 0 | 0 | 0 | 0 | 20 | 67 | 0 | 87 | 0 | 0 | 0 | 0 | 0 | 44 | 25 | 69 | 156 |
| 07:30 AM | 0 | 0 | 0 | 0 | 30 | 69 | 0 | 99 | 0 | 0 | 0 | 0 | 0 | 39 | 39 | 78 | 177 |
| 07:45 AM | 0 | 0 | 0 | 0 | 19 | 72 | 0 | 91 | 0 | 0 | 0 | 0 | 0 | 24 | 28 | 52 | 143 |
| 08:00 AM | 0 | 0 | 0 | 0 | 27 | 91 | 0 | 118 | 1 | 0 | 0 | 1 | 0 | 17 | 30 | 47 | 166 |
| Total Volume | 0 | 0 | 0 | 0 | 96 | 299 | 0 | 395 | 1 | 0 | 0 | 1 | 0 | 124 | 122 | 246 | 642 |
| % App. Total | 0 | 0 | 0 | | 24.3 | 75.7 | 0 | | 100 | 0 | 0 | | 0 | 50.4 | 49.6 | | |
| PHF | .000 | .000 | .000 | .000 | .800 | .821 | .000 | .837 | .250 | .000 | .000 | .250 | .000 | .705 | .782 | .788 | .907 |
| | | | | | | | | | | | | | | | | | |
| Peak Hour Analy | ysis Fron | n 04:00 | PM to 0: | 5:45 PM - | Peak 1 o | of 1 | | | | | | | | | | | |
| Peak Hour for E | ntire Inte | ersection | Begins | at 04:00 P | M | | | | | | | | | | | | |
| 04:00 PM | 0 | 0 | 0 | 0 | 30 | 61 | 0 | 91 | 5 | 0 | 1 | 6 | 0 | 112 | 47 | 159 | 256 |
| 04:15 PM | 0 | 0 | 0 | 0 | 30 | 74 | 0 | 104 | 1 | 0 | 0 | 1 | 0 | 128 | 38 | 166 | 271 |
| 04:30 PM | 0 | 0 | 0 | 0 | 17 | 86 | 0 | 103 | 1 | 0 | 0 | 1 | 0 | 141 | 33 | 174 | 278 |
| 04:45 PM | 0 | 0 | 0 | 0 | 18 | 98 | 0 | 116 | 1 | 0 | 0 | 1 | 0 | 121 | 44 | 165 | 282 |
| Total Volume | 0 | 0 | 0 | 0 | 95 | 319 | 0 | 414 | 8 | 0 | 1 | 9 | 0 | 502 | 162 | 664 | 1087 |
| % App. Total | 0 | 0 | 0 | | 22.9 | 77.1 | 0 | | 88.9 | 0 | 11.1 | | 0 | 75.6 | 24.4 | | |
| PHF | .000 | .000 | .000 | .000 | .792 | .814 | .000 | .892 | .400 | .000 | .250 | .375 | .000 | .890 | .862 | .954 | .964 |

3656 E. Stratford Road Virginia Beach, VA 23455 (757) 464-5129

I-64 EIS AM counted: 04/28/11

PM counted: 04/27/11

File Name: I-64 EIS #24312

Site Code : 24312 Start Date : 4/28/2011

Page No : 1

| | Southbound Left Thru Right Trl | | | | US R | | ocohont ail | as | | I-64 of Northl | f ramp | | US F | | ocohont ail ound | tas | | | |
|---------------------|---------------------------------------|------|-------|------|-------|--------------|----------------|------|------|-------------------|-----------|------|------|--------------|------------------------|------|--------------|--------------|------------|
| Start Time | Left | Thru | Right | Trks | Left | Thru | Right | Trks | Left | Thru | Right | Trks | Left | Thru | Right | Trks | Exclu. Total | Inclu. Total | Int. Total |
| 07:00 AM | 0 | 0 | 0 | 0 | 0 | 55 | 0 | 4 | 33 | 0 | 20 | 6 | 1 | 84 | 0 | 7 | 17 | 193 | 210 |
| 07:15 AM | 0 | 0 | 0 | 0 | 0 | 67 | 0 | 1 | 35 | 0 | 28 | 3 | 0 | 69 | 0 | 2 | 6 | 199 | 205 |
| 07:30 AM | 0 | 0 | 0 | 0 | 0 | 69 | 0 | 3 | 60 | 0 | 26 | 6 | 0 | 78 | 0 | 13 | 22 | 233 | 255 |
| 07:45 AM | 0 | 0 | 0 | 0 | 0 | 72 | 0 | 2 | 28 | 0 | 28 | 8 | 0 | 52 | 0 | 6 | 16 | 180 | 196 |
| Total | 0 | 0 | 0 | 0 | 0 | 263 | 0 | 10 | 156 | 0 | 102 | 23 | 1 | 283 | 0 | 28 | 61 | 805 | 866 |
| 08:00 AM | 0 | 0 | 0 | 0 | 0 | 92 | 0 | 2 | 39 | 0 | 24 | 6 | 0 | 47 | 0 | 6 | 14 | 202 | 216 |
| 08:15 AM | 0 | 0 | 0 | 0 | 0 | 74 | 0 | 8 | 53 | 0 | 20 | 4 | 0 | 39 | 0 | 1 | 13 | 186 | 199 |
| 08:30 AM | 0 | 0 | 0 | 0 | 0 | 101 | 0 | 7 | 46 | 0 | 15 | 2 | 0 | 48 | 0 | 8 | 17 | 210 | 227 |
| 08:45 AM | 0 | 0 | 0 | 0 | 0 | 67 | 0 | 3 | 49 | 0 | 17 | 3 | 0 | 57 | 0 | 6 | 12 | 190 | 202 |
| Total | 0 | 0 | 0 | 0 | 0 | 334 | 0 | 20 | 187 | 0 | 76 | 15 | 0 | 191 | 0 | 21 | 56 | 788 | 844 |
| | | | | | | | | | | | | | | | | | | | |
| 04:00 PM | 0 | 0 | 0 | 0 | 0 | 67 | 0 | 5 | 22 | 0 | 31 | 4 | 0 | 130 | 0 | 9 | 18 | 250 | 268 |
| 04:15 PM | 0 | 0 | 0 | 0 | 0 | 72 | 0 | 2 | 22 | 0 | 35 | 4 | 0 | 142 | 0 | 15 | 21 | 271 | 292 |
| 04:30 PM | 0 | 0 | 0 | 0 | 0 | 84 | 0 | 3 | 15 | 0 | 40 | 9 | 0 | 144 | 0 | 8 | 20 | 283 | 303 |
| 04:45 PM | 0 | 0 | 0 | 0 | 1 | 100 | 0 | 2 | 29 | 0 | 30 | 5 | 0 | 132 | 0 | 9 | 16 | 292 | 308 |
| Total | 0 | 0 | 0 | 0 | 1 | 323 | 0 | 12 | 88 | 0 | 136 | 22 | 0 | 548 | 0 | 41 | 75 | 1096 | 1171 |
| 05:00 PM | 0 | 0 | 0 | 0 | 0 | 67 | 0 | 1 | 20 | 0 | 36 | 5 | 0 | 112 | 0 | 6 | 12 | 235 | 247 |
| 05:15 PM | 0 | 0 | 0 | 0 | 0 | 71 | 0 | 3 | 22 | 0 | 40 | 2 | 0 | 134 | 0 | 6 | 11 | 267 | 278 |
| 05:30 PM | 0 | 0 | 0 | 0 | 1 | 72 | 0 | 2 | 12 | 0 | 35 | 4 | 0 | 110 | 1 | 5 | 11 | 231 | 242 |
| 05:45 PM | 0 | 0 | 0 | 0 | 1 | 47 | 0 | 1 | 21 | 0 | 24 | 2 | 0 | 93 | 2 | 4 | 7 | 188 | 195 |
| Total | 0 | 0 | 0 | 0 | 2 | 257 | 0 | 7 | 75 | 0 | 135 | 13 | 0 | 449 | 3 | 21 | 41 | 921 | 962 |
| Grand Total | 0 | 0 | 0 | 0 | 3 0.3 | 1177 99.7 | 0 | 49 | 506 | 0 | 449 47 | 73 | 0.1 | 1471 99.7 | 3 0.2 | 111 | 233 | 3610 | 3843 |
| Apprch % Total % | 0 | 0 | 0 | | 0.3 | 32.6 | 0 | | 14 | 0 | 12.4 | | 0.1 | 40.7 | 0.2 | | 6.1 | 93.9 | |

| | | | | | US Rt | 60/Poc | ohontas | Trail | | I-64 o | ff ramp | | US Rt | 60/Poc | ohontas | Trail | |
|-----------------|------------|----------|----------|------------|----------|--------|---------|------------|------|--------|---------|------------|-------|--------|---------|------------|------------|
| | | South | bound | | | West | bound | | | North | bound | | | Eastl | bound | | |
| Start Time | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Int. Total |
| Peak Hour Analy | ysis Fron | n 07:00 | AM to 0 | 8:45 AM - | Peak 1 | of 1 | | | | | | | | | | | |
| Peak Hour for E | ntire Inte | rsection | Begins | at 07:15 A | M | | | | | | | | | | | | |
| 07:15 AM | 0 | 0 | 0 | 0 | 0 | 67 | 0 | 67 | 35 | 0 | 28 | 63 | 0 | 69 | 0 | 69 | 199 |
| 07:30 AM | 0 | 0 | 0 | 0 | 0 | 69 | 0 | 69 | 60 | 0 | 26 | 86 | 0 | 78 | 0 | 78 | 233 |
| 07:45 AM | 0 | 0 | 0 | 0 | 0 | 72 | 0 | 72 | 28 | 0 | 28 | 56 | 0 | 52 | 0 | 52 | 180 |
| 08:00 AM | 0 | 0 | 0 | 0 | 0 | 92 | 0 | 92 | 39 | 0 | 24 | 63 | 0 | 47 | 0 | 47 | 202 |
| Total Volume | 0 | 0 | 0 | 0 | 0 | 300 | 0 | 300 | 162 | 0 | 106 | 268 | 0 | 246 | 0 | 246 | 814 |
| % App. Total | 0 | 0 | 0 | | 0 | 100 | 0 | | 60.4 | 0 | 39.6 | | 0 | 100 | 0 | | |
| PHF | .000 | .000 | .000 | .000 | .000 | .815 | .000 | .815 | .675 | .000 | .946 | .779 | .000 | .788 | .000 | .788 | .873 |
| | | | | | | | | | | | | | | | | | |
| Peak Hour Analy | ysis Fron | n 04:00 | PM to 05 | 5:45 PM - | Peak 1 c | of 1 | | | | | | | | | | | |
| Peak Hour for E | ntire Inte | rsection | Begins | at 04:00 P | M | | | | | | | | | | | | |
| 04:00 PM | 0 | 0 | 0 | 0 | 0 | 67 | 0 | 67 | 22 | 0 | 31 | 53 | 0 | 130 | 0 | 130 | 250 |
| 04:15 PM | 0 | 0 | 0 | 0 | 0 | 72 | 0 | 72 | 22 | 0 | 35 | 57 | 0 | 142 | 0 | 142 | 271 |
| 04:30 PM | 0 | 0 | 0 | 0 | 0 | 84 | 0 | 84 | 15 | 0 | 40 | 55 | 0 | 144 | 0 | 144 | 283 |
| 04:45 PM | 0 | 0 | 0 | 0 | 1 | 100 | 0 | 101 | 29 | 0 | 30 | 59 | 0 | 132 | 0 | 132 | 292 |
| Total Volume | 0 | 0 | 0 | 0 | 1 | 323 | 0 | 324 | 88 | 0 | 136 | 224 | 0 | 548 | 0 | 548 | 1096 |
| % App. Total | 0 | 0 | 0 | | 0.3 | 99.7 | 0 | | 39.3 | 0 | 60.7 | | 0 | 100 | 0 | | |
| PHF | .000 | .000 | .000 | .000 | .250 | .808 | .000 | .802 | .759 | .000 | .850 | .949 | .000 | .951 | .000 | .951 | .938 |

3656 E. Stratford Road Virginia Beach, VA 23455 (757) 464-5129

I-64 EIS AM counted: 04/26/11

PM counted: 04/26/11

Site Code : 24711 Start Date : 4/26/2011

File Name: I-64 EIS #24711

Page No : 1

| | | | | | | | | | 1 111110 | u- Ali 1 | Cilicie | | | | | | 1 | | |
|-------------|------|--------|-------|------|------|-------|---------|------|----------|----------|---------|------|------|-------|-------|------|--------------|--------------|------------|
| | • | Yorkto | wn Rd | | I-6 | 4 WB | off ran | np | ' | Yorkto | wn Rd | | | | | | | | |
| | | South | bound | | | Westk | ound | | | North | bound | | | Eastb | ound | | | | |
| Start Time | Left | Thru | Right | Trks | Left | Thru | Right | Trks | Left | Thru | Right | Trks | Left | Thru | Right | Trks | Exclu, Total | Inclu. Total | Int. Total |
| 07:00 AM | 0 | 134 | 0 | 3 | 6 | 0 | 60 | 5 | 0 | 35 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 235 | 243 |
| 07:15 AM | 0 | 154 | 0 | 11 | 8 | 0 | 83 | 3 | 0 | 38 | 0 | 2 | 0 | 0 | 0 | 0 | 16 | 283 | 299 |
| 07:30 AM | 0 | 103 | 0 | 7 | 7 | 0 | 68 | 10 | 0 | 50 | 0 | 2 | 0 | 0 | 0 | 0 | 19 | 228 | 247 |
| 07:45 AM | 0 | 119 | 0 | 3 | 12 | 0 | 85 | 14 | 0 | 53 | 0 | 1 | 0 | 0 | 0 | 0 | 18 | 269 | 287 |
| Total | 0 | 510 | 0 | 24 | 33 | 0 | 296 | 32 | 0 | 176 | 0 | 5 | 0 | 0 | 0 | 0 | 61 | 1015 | 1076 |
| | | | | | | | | | | | | | | | | | | | |
| 08:00 AM | 0 | 85 | 0 | 10 | 12 | 0 | 46 | 8 | 0 | 31 | 0 | 5 | 0 | 0 | 0 | 0 | 23 | 174 | 197 |
| 08:15 AM | 0 | 95 | 0 | 4 | 5 | 0 | 38 | 7 | 0 | 65 | 0 | 11 | 0 | 0 | 0 | 0 | 22 | 203 | 225 |
| 08:30 AM | 0 | 65 | 0 | 4 | 2 | 0 | 35 | 10 | 0 | 38 | 0 | 4 | 0 | 0 | 0 | 0 | 18 | 140 | 158 |
| 08:45 AM | 0 | 78 | 0 | 9 | 11 | 0 | 48 | 10 | 0 | 42 | 0 | 6 | 0 | 0 | 0 | 0 | 25 | 179 | 204 |
| Total | 0 | 323 | 0 | 27 | 30 | 0 | 167 | 35 | 0 | 176 | 0 | 26 | 0 | 0 | 0 | 0 | 88 | 696 | 784 |
| | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| | | | | | ı | | | | | | | | i | | | | | | |
| 04:00 PM | 0 | 107 | 0 | 5 | 7 | 0 | 113 | 3 | 0 | 77 | 0 | 6 | 0 | 0 | 0 | 0 | 14 | 304 | 318 |
| 04:15 PM | 0 | 104 | 0 | 1 | 10 | 0 | 112 | 4 | 0 | 62 | 0 | 2 | 0 | 0 | 0 | 0 | 7 | 288 | 295 |
| 04:30 PM | 0 | 93 | 0 | 2 | 8 | 0 | 126 | 5 | 0 | 59 | 0 | 3 | 0 | 0 | 0 | 0 | 10 | 286 | 296 |
| 04:45 PM | 0 | 90 | 0 | 6 | 14 | 0 | 109 | 1_ | 0 | 73 | 0 | 7 | 0 | 0 | 0 | 0 | 14 | 286_ | 300 |
| Total | 0 | 394 | 0 | 14 | 39 | 0 | 460 | 13 | 0 | 271 | 0 | 18 | 0 | 0 | 0 | 0 | 45 | 1164 | 1209 |
| | | | | | İ | | | | ı | | | | i | | | | ı | | |
| 05:00 PM | 0 | 111 | 0 | 1 | 8 | 0 | 104 | 7 | 0 | 56 | 0 | 4 | 0 | 0 | 0 | 0 | 12 | 279 | 291 |
| 05:15 PM | 0 | 86 | 0 | 3 | 7 | 0 | 102 | 5 | 0 | 80 | 0 | 2 | 0 | 0 | 0 | 0 | 10 | 275 | 285 |
| 05:30 PM | 0 | 105 | 0 | 1 | 17 | 0 | 106 | 5 | 0 | 52 | 0 | 3 | 0 | 0 | 0 | 0 | 9 | 280 | 289 |
| 05:45 PM | 0 | 93 | 0 | 2 | 15 | 0 | 87 | 5 | 0 | 36 | 0 | 1 | 0 | 0 | 0 | 0 | 8 | 231 | 239 |
| Total | 0 | 395 | 0 | 7 | 47 | 0 | 399 | 22 | 0 | 224 | 0 | 10 | 0 | 0 | 0 | 0 | 39 | 1065 | 1104 |
| | | | | | | | | | | | | | | | | | | | |
| Grand Total | 0 | 1622 | 0 | 72 | 149 | 0 | 1322 | | 0 | 847 | 0 | 59 | 0 | 0 | 0 | 0 | 233 | 3940 | 4173 |
| | U | | | , _ | | U | | 102 | 0 | - | | 33 | | _ | _ | U | 200 | 0040 | 7170 |
| Apprch % | 0 | 100 | 0 | | 10.1 | 0 | 89.9 | | 0 | 100 | 0 | | 0 | 0 | 0 | | | | |
| Total % | 0 | 41.2 | 0 | | 3.8 | 0 | 33.6 | | 0 | 21.5 | 0 | | 0 | 0 | 0 | | 5.6 | 94.4 | |

| | | Yorkto | wn Rd | | I- | 64 WB | off rar | np | | Yorkt | own Rd | l | | | | | |
|-----------------|-----------|----------|----------|------------|---------|----------|---------|------------|------|-------|--------|------------|------|------|-------|------------|------------|
| | | South | bound | | | West | bound | • | | North | bound | | | East | bound | | |
| Start Time | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Int. Total |
| Peak Hour Ana | lysis Fro | om 07:0 | 00 AM to | 08:45 A | M - Pea | k 1 of 1 | | | | | | | | | | | |
| Peak Hour for E | Entire In | tersecti | on Begir | ns at 07: | 00 AM | | | | | | | | | | | | |
| 07:00 AM | 0 | 134 | 0 | 134 | 6 | 0 | 60 | 66 | 0 | 35 | 0 | 35 | 0 | 0 | 0 | 0 | 235 |
| 07:15 AM | 0 | 154 | 0 | 154 | 8 | 0 | 83 | 91 | 0 | 38 | 0 | 38 | 0 | 0 | 0 | 0 | 283 |
| 07:30 AM | 0 | 103 | 0 | 103 | 7 | 0 | 68 | 75 | 0 | 50 | 0 | 50 | 0 | 0 | 0 | 0 | 228 |
| 07:45 AM | 0 | 119 | 0 | 119 | 12 | 0 | 85 | 97 | 0 | 53 | 0 | 53 | 0 | 0 | 0 | 0 | 269 |
| Total Volume | 0 | 510 | 0 | 510 | 33 | 0 | 296 | 329 | 0 | 176 | 0 | 176 | 0 | 0 | 0 | 0 | 1015 |
| % App. Total | 0 | 100 | 0 | | 10 | 0 | 90 | | 0 | 100 | 0 | | 0 | 0 | 0 | | |
| PHF | .000 | .828 | .000 | .828 | .688 | .000 | .871 | .848 | .000 | .830 | .000 | .830 | .000 | .000 | .000 | .000 | .897 |
| 5 | | 0.4.0 | | 05 45 5 | | | | | | | | | | | | | |
| Peak Hour Ana | , | | | | | k 1 of 1 | | | | | | | | | | | |
| Peak Hour for E | | | on Begir | | 00 PM | | | i | | | | | | | | 1 | |
| 04:00 PM | 0 | 107 | 0 | 107 | 7 | 0 | 113 | 120 | 0 | 77 | 0 | 77 | 0 | 0 | 0 | 0 | 304 |
| 04:15 PM | 0 | 104 | 0 | 104 | 10 | 0 | 112 | 122 | 0 | 62 | 0 | 62 | 0 | 0 | 0 | 0 | 288 |
| 04:30 PM | 0 | 93 | 0 | 93 | 8 | 0 | 126 | 134 | 0 | 59 | 0 | 59 | 0 | 0 | 0 | 0 | 286 |
| 04:45 PM | 0 | 90 | 0 | 90 | 14 | 0 | 109 | 123 | 0 | 73 | 0 | 73 | 0 | 0 | 0 | 0 | 286 |
| Total Volume | 0 | 394 | 0 | 394 | 39 | 0 | 460 | 499 | 0 | 271 | 0 | 271 | 0 | 0 | 0 | 0 | 1164 |
| % App. Total | 0 | 100 | 0 | | 7.8 | 0 | 92.2 | | 0 | 100 | 0 | | 0 | 0 | 0 | | |
| PHF | .000 | .921 | .000 | .921 | .696 | .000 | .913 | .931 | .000 | .880 | .000 | .880 | .000 | .000 | .000 | .000 | .957 |

3656 E. Stratford Road Virginia Beach, VA 23455 (757) 464-5129

I-64 EIS

AM counted: 04/26/11 PM counted: 04/26/11

File Name: I-64 EIS #24712

Site Code : 24712 Start Date : 4/26/2011

Page No : 1

| | | | | | | | G | roups I | rinted | - All V | enicles | | | | | | | | |
|-------------|------|--------|-------|------|------|-------|-------|---------|--------|---------|---------|------|------|-------|-------|------|--------------|--------------|------------|
| | | Yorkto | wn Rd | | | | | | | Yorkto | wn Rd | | | | | | | | |
| | | Southb | ound | | | Westb | ound | | | Northl | oound | | | Eastb | ound | | | | |
| Start Time | Left | Thru | Right | Trks | Left | Thru | Right | Trks | Left | Thru | Right | Trks | Left | Thru | Right | Trks | Exclu. Total | Inclu. Total | Int. Total |
| 07:00 AM | 103 | 37 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 27 | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 179 | 179 |
| 07:15 AM | 123 | 54 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 33 | 15 | 1 | 0 | 0 | 0 | 0 | 1 | 225 | 226 |
| 07:30 AM | 91 | 33 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 47 | 8 | 1 | 0 | 0 | 0 | 0 | 1 | 179 | 180 |
| 07:45 AM | 55 | 44 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 48 | 10 | 1 | 0 | 0 | 0 | 0 | 1 | 157 | 158 |
| Total | 372 | 168 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 155 | 45 | 3 | 0 | 0 | 0 | 0 | 3 | 740 | 743 |
| | | | | | | | | | | | | | | | | | | | |
| 08:00 AM | 47 | 25 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 28 | 7 | 3 | 0 | 0 | 0 | 0 | 4 | 107 | 111 |
| 08:15 AM | 42 | 50 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 60 | 0 | 1 | 0 | 0 | 0 | 0 | 2 | 152 | 154 |
| 08:30 AM | 17 | 46 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 38 | 1 | 2 | 0 | 0 | 0 | 0 | 3 | 102 | 105 |
| 08:45 AM | 36 | 48 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 37 | 0 | 4 | 0 | 0 | 0 | 0 | 10 | 121 | 131 |
| Total | 142 | 169 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 163 | 8 | 10 | 0 | 0 | 0 | 0 | 19 | 482 | 501 |
| | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| | ı | | | | ı | | | | | | | | ı | | | | ı | | |
| 04:00 PM | 81 | 38 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 77 | 7 | 7 | 0 | 0 | 0 | 0 | 11 | 203 | 214 |
| 04:15 PM | 60 | 60 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 50 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 177 | 177 |
| 04:30 PM | 55 | 39 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 33 | 6 | 2 | 0 | 0 | 0 | 0 | 4 | 133 | 137 |
| 04:45 PM | 43 | 46 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 46 | 4 | 2 | 0 | 0 | 0 | 0 | 4 | 139 | 143 |
| Total | 239 | 183 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 206 | 24 | 11 | 0 | 0 | 0 | 0 | 19 | 652 | 671 |
| 0.7.00.73.7 | ۔۔ ا | | | | | | | | ۱ ۵ | | _ | | | | | | | 4.50 | 4.60 |
| 05:00 PM | 56 | 52 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 45 | 5 | 2 | 0 | 0 | 0 | 0 | 2 | 158 | 160 |
| 05:15 PM | 42 | 47 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 75 | 4 | 1 | 0 | 0 | 0 | 0 | 2 | 168 | 170 |
| 05:30 PM | 68 | 62 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 44 | 6 | 1 | 0 | 0 | 0 | 0 | 1 | 180 | 181 |
| 05:45 PM | 53 | 62 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 18 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 134 | 134 |
| Total | 219 | 223 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 182 | 16 | 4 | 0 | 0 | 0 | 0 | 5 | 640 | 645 |
| G 155 1 | 072 | 7.42 | 0 | 10 | | | 0 | 0 | ۱ ، | 706 | 0.2 | 20 | | 0 | 0 | 0 | 1 4- | 2514 | 25.00 |
| Grand Total | 972 | 743 | 0 | 18 | 0 | 0 | 0 | 0 | 0 | 706 | 93 | 28 | 0 | 0 | 0 | 0 | 46 | 2514 | 2560 |
| Apprch % | 56.7 | 43.3 | 0 | | 0 | 0 | 0 | | 0 | 88.4 | 11.6 | | 0 | 0 | 0 | | 1.0 | 00.2 | |
| Total % | 38.7 | 29.6 | 0 | | 0 | 0 | 0 | | 0 | 28.1 | 3.7 | | 0 | 0 | 0 | | 1.8 | 98.2 | |

| | | Yorkto | own Rd | | | | | | | Yorkt | own Rd | | | | | | |
|-----------------|------------|-----------|----------|------------|----------|------|-------|------------|------|-------|--------|------------|------|-------|-------|------------|------------|
| | | South | bound | | | West | bound | | | North | bound | | | Eastl | oound | | |
| Start Time | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Int. Total |
| Peak Hour Analy | sis Fron | n 07:00 | AM to 08 | 8:45 AM | - Peak 1 | of 1 | | | | | | | | | | | |
| Peak Hour for E | ntire Inte | ersection | Begins a | at 07:00 A | M | | | | | | | | | | | | i |
| 07:00 AM | 103 | 37 | 0 | 140 | 0 | 0 | 0 | 0 | 0 | 27 | 12 | 39 | 0 | 0 | 0 | 0 | 179 |
| 07:15 AM | 123 | 54 | 0 | 177 | 0 | 0 | 0 | 0 | 0 | 33 | 15 | 48 | 0 | 0 | 0 | 0 | 225 |
| 07:30 AM | 91 | 33 | 0 | 124 | 0 | 0 | 0 | 0 | 0 | 47 | 8 | 55 | 0 | 0 | 0 | 0 | 179 |
| 07:45 AM | 55 | 44 | 0 | 99 | 0 | 0 | 0 | 0 | 0 | 48 | 10 | 58 | 0 | 0 | 0 | 0 | 157 |
| Total Volume | 372 | 168 | 0 | 540 | 0 | 0 | 0 | 0 | 0 | 155 | 45 | 200 | 0 | 0 | 0 | 0 | 740 |
| % App. Total | 68.9 | 31.1 | 0 | | 0 | 0 | 0 | | 0 | 77.5 | 22.5 | | 0 | 0 | 0 | | |
| PHF | .756 | .778 | .000 | .763 | .000 | .000 | .000 | .000 | .000 | .807 | .750 | .862 | .000 | .000 | .000 | .000 | .822 |
| | | | | | | | | | | | | | | | | | |
| Peak Hour Analy | | | | | | f 1 | | | | | | | | | | | |
| Peak Hour for E | ntire Inte | ersection | Begins a | at 04:00 P | M | | | | | | | | | | | | |
| 04:00 PM | 81 | 38 | 0 | 119 | 0 | 0 | 0 | 0 | 0 | 77 | 7 | 84 | 0 | 0 | 0 | 0 | 203 |
| 04:15 PM | 60 | 60 | 0 | 120 | 0 | 0 | 0 | 0 | 0 | 50 | 7 | 57 | 0 | 0 | 0 | 0 | 177 |
| 04:30 PM | 55 | 39 | 0 | 94 | 0 | 0 | 0 | 0 | 0 | 33 | 6 | 39 | 0 | 0 | 0 | 0 | 133 |
| 04:45 PM | 43 | 46 | 0 | 89 | 0 | 0 | 0 | 0 | 0 | 46 | 4 | 50 | 0 | 0 | 0 | 0 | 139 |
| Total Volume | 239 | 183 | 0 | 422 | 0 | 0 | 0 | 0 | 0 | 206 | 24 | 230 | 0 | 0 | 0 | 0 | 652 |
| % App. Total | 56.6 | 43.4 | 0 | | 0 | 0 | 0 | | 0 | 89.6 | 10.4 | | 0 | 0 | 0 | | |
| PHF | .738 | .763 | .000 | .879 | .000 | .000 | .000 | .000 | .000 | .669 | .857 | .685 | .000 | .000 | .000 | .000 | .803 |

3656 E. Stratford Road Virginia Beach, VA 23455 (757) 464-5129

I-64 EIS

AM counted: 04/26/11 PM counted: 04/26/11

File Name: I-64 EIS #24713

Site Code : 24713 Start Date : 4/26/2011

Page No : 1

Groups Printed- NB Rt trks

| | J | efferso | n Ave | | | | | | N | Aerrim | | il |] | I-64 Of | f ramp | | | | |
|------------------|------|---------|-------|------|------|-------|-------|------|------|---------------|-------|------|------|---------|--------|------|--------------|--------------|------------|
| | | Southb | ound | | | Westb | ound | | | North | ound | | | Eastb | | | | | |
| Start Time | Left | Thru | Right | Trks | Left | Thru | Right | Trks | Left | Thru | Right | Trks | Left | Thru | Right | Trks | Exclu. Total | Inclu. Total | Int. Total |
| | | | | | ı. | | | | | | | | ı. | | | | | | |
| 07:30 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 4 | 0 | 4 |
| 07:45 AM | 0_ | 0 | 0 | 0 | 0 | 0 | 0 | 0_ | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0_ | 1_ |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 5 | 0 | 5 |
| 00 00 124 | | | | | 1 0 | | | | ۱ ۵ | | | _ | 1 0 | | | | ۔ ا | | |
| 08:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 6 | 0 | 6 |
| 08:15 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 1 |
| 08:30 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 1 |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 0 | 0 | 0 | 0 | 8 | 0 | 8 |
| 04:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 1 |
| 04:30 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 1 |
| 04:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 1 |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 3 | 0 | 3 |
| 05:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 1 |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 1 |
| Grand Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 17 | 0 | 0 | 0 | 0 | 17 | 0 | 17 |
| Apprch % Total % | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 | 0 | | 100 | 0 | |

| | | Jeffers | on Ave | | | | | | | Merrin | nac Tra | il | | I-64 O | ff ramp | , | |
|-----------------|------------|----------|---------|------------|----------|------|-------|------------|------|--------|---------|------------|------|--------|---------|------------|------------|
| | | | bound | | | West | bound | | | | bound | | | | oound | | |
| Start Time | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Int. Total |
| Peak Hour Analy | ysis Fron | n 07:00 | | | Peak 1 | of 1 | | | | | | | | | - | | |
| Peak Hour for E | ntire Inte | rsection | Begins | at 07:00 A | M | | | | | | | | | | | | |
| 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 | | 0 | 0 | 0 | | |
| PHF | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| Peak Hour Analy | ysis Fron | n 04:00 | PM to 0 | 5:45 PM - | Peak 1 o | f 1 | | | | | | | | | | | |
| Peak Hour for E | ntire Inte | rsection | Begins | at 04:00 P | M | | | | | | | | | | | | |
| 04:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 04:15 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 04:30 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 04:45 PM | 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 |

3656 E. Stratford Road Virginia Beach, VA 23455 (757) 464-5129

I-64 EIS

AM counted: 04/26/11 PM counted: 04/26/11

File Name: I-64 EIS #24713

Site Code : 24713 Start Date : 4/26/2011

Page No : 1

| | .1 | lefferso | n Ave | | | | | roups 1 | | Merrim | ac Tra | il | 1 | [-64 Of | f ramp | |] | | |
|-------------|------|----------|-------|------|------|-------|-------|---------|------|--------|--------|------|------|---------|--------|------|--------------|--------------|------------|
| | | Southb | | | | Westb | ound | | * | North | | •• | | Eastbo | | | | | |
| Start Time | Left | Thru | Right | Trks | Left | Thru | Right | Trks | Left | Thru | Right | Trks | Left | Thru | Right | Trks | Exclu. Total | Inclu. Total | Int. Total |
| 07:00 AM | 0 | 59 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 133 | 48 | 2 | 25 | 0 | 0 | 1 | Exclu. Total | 265 | 274 |
| 07:15 AM | 0 | 85 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 166 | 53 | 9 | 32 | 0 | 0 | 2 | 17 | 336 | 353 |
| 07:30 AM | 0 | 102 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 191 | 74 | 12 | 34 | 0 | 0 | 3 | 24 | 401 | 425 |
| 07:45 AM | 0 | 119 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 165 | 41 | 9 | 38 | 0 | 8 | 3 | 18 | 371 | 389 |
| Total | 0 | 365 | 0 | 27 | 0 | 0 | 0 | 0 | 0 | 655 | 216 | 32 | 129 | 0 | 8 | 9 | 68 | 1373 | 1441 |
| Total | | 303 | Ü | 2, | , 0 | Ü | Ü | · · | 1 0 | 055 | 210 | 32 | 12) | Ü | O | | 1 00 | 1373 | |
| 08:00 AM | 0 | 90 | 0 | 12 | 0 | 0 | 0 | 0 | 0 | 138 | 39 | 14 | 28 | 0 | 4 | 1 | 27 | 299 | 326 |
| 08:15 AM | 2 | 89 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 149 | 13 | 9 | 80 | 0 | 10 | 9 | 26 | 343 | 369 |
| 08:30 AM | 1 | 63 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 175 | 9 | 16 | 101 | 0 | 10 | 8 | 30 | 359 | 389 |
| 08:45 AM | 1 | 69 | 2 | 6 | 0 | 0 | 0 | 0 | 0 | 173 | 2 | 18 | 99 | 0 | 8 | 9 | 33 | 354 | 387 |
| Total | 4 | 311 | 2 | 32 | 0 | 0 | 0 | 0 | 0 | 635 | 63 | 57 | 308 | 0 | 32 | 27 | 116 | 1355 | 1471 |
| | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| 04:00 PM | 1 | 95 | 0 | 11 | 0 | 0 | 0 | 0 | 0 | 199 | 52 | 15 | 25 | 0 | 1 | 1 | 27 | 373 | 400 |
| 04:15 PM | 1 | 93 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 174 | 45 | 3 | 31 | 0 | 3 | 2 | 6 | 347 | 353 |
| 04:30 PM | 0 | 86 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 135 | 21 | 3 | 8 | 0 | 2 | 0 | 5 | 253 | 258 |
| 04:45 PM | 0 | 86 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 194 | 49 | 2 | 38 | 0 | 4 | 2 | 6 | 371 | 377 |
| Total | 2 | 360 | 1 | 16 | 0 | 0 | 0 | 0 | 0 | 702 | 167 | 23 | 102 | 0 | 10 | 5 | 44 | 1344 | 1388 |
| | | | | | | | | | | | | | | | | | | | |
| 05:00 PM | 0 | 124 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 176 | 30 | 2 | 24 | 0 | 0 | 2 | 5 | 354 | 359 |
| 05:15 PM | 0 | 114 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 266 | 39 | 3 | 32 | 0 | 3 | 3 | 9 | 454 | 463 |
| 05:30 PM | 0 | 102 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 205 | 44 | 3 | 29 | 0 | 0 | 1 | 5 | 380 | 385 |
| 05:45 PM | 0 | 70 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 150 | 39 | 0 | 26 | 0 | 1 | 1 | 1 | 286 | 287 |
| Total | 0 | 410 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 797 | 152 | 8 | 111 | 0 | 4 | 7 | 20 | 1474 | 1494 |
| | | | | | | | | | | | | | | | | | | | |
| Grand Total | 6 | 1446 | 3 | 80 | 0 | 0 | 0 | 0 | 0 | 2789 | 598 | | 650 | 0 | 54 | 48 | 248 | 5546 | 5794 |
| | | | | 00 | | U | | U | | | | 120 | | 0 | | 70 | 240 | 2270 | 3177 |
| Apprch % | 0.4 | 99.4 | 0.2 | | 0 | 0 | 0 | | 0 | 82.3 | 17.7 | | 92.3 | 0 | 7.7 | | | | |
| Total % | 0.1 | 26.1 | 0.1 | | 0 | 0 | 0 | | 0 | 50.3 | 10.8 | | 11.7 | 0 | 1 | | 4.3 | 95.7 | |

| | | Jeffers | on Ave | | | | | | | Merrir | nac Tra | il | | I-64 O | ff ramp |) | |
|-----------------|------------|----------|---------|------------|--------|-------|-------|------------|------|--------|---------|------------|------|--------|---------|------------|------------|
| | | South | bound | | | Westl | bound | | | North | bound | | | Eastl | oound | | |
| Start Time | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Int. Total |
| Peak Hour Analy | sis Fron | n 07:00 | AM to 0 | 8:45 AM | Peak 1 | of 1 | | | | | _ | | | | _ | | |
| Peak Hour for E | ntire Inte | rsection | Begins | at 07:30 A | M | | | | | | | | | | | | |
| 07:30 AM | 0 | 102 | 0 | 102 | 0 | 0 | 0 | 0 | 0 | 191 | 74 | 265 | 34 | 0 | 0 | 34 | 401 |
| 07:45 AM | 0 | 119 | 0 | 119 | 0 | 0 | 0 | 0 | 0 | 165 | 41 | 206 | 38 | 0 | 8 | 46 | 371 |
| 08:00 AM | 0 | 90 | 0 | 90 | 0 | 0 | 0 | 0 | 0 | 138 | 39 | 177 | 28 | 0 | 4 | 32 | 299 |
| 08:15 AM | 2 | 89 | 0 | 91 | 0 | 0 | 0 | 0 | 0 | 149 | 13 | 162 | 80 | 0 | 10 | 90 | 343 |
| Total Volume | 2 | 400 | 0 | 402 | 0 | 0 | 0 | 0 | 0 | 643 | 167 | 810 | 180 | 0 | 22 | 202 | 1414 |
| % App. Total | 0.5 | 99.5 | 0 | | 0 | 0 | 0 | | 0 | 79.4 | 20.6 | | 89.1 | 0 | 10.9 | | |
| PHF | .250 | .840 | .000 | .845 | .000 | .000 | .000 | .000 | .000 | .842 | .564 | .764 | .563 | .000 | .550 | .561 | .882 |
| | | | | | | | | | | | | | | | | | |
| Peak Hour Analy | | | | | | of 1 | | | | | | | | | | | |
| Peak Hour for E | ntire Inte | rsection | Begins | at 04:45 P | M | | | | | | | | | | | | |
| 04:45 PM | 0 | 86 | 0 | 86 | 0 | 0 | 0 | 0 | 0 | 194 | 49 | 243 | 38 | 0 | 4 | 42 | 371 |
| 05:00 PM | 0 | 124 | 0 | 124 | 0 | 0 | 0 | 0 | 0 | 176 | 30 | 206 | 24 | 0 | 0 | 24 | 354 |
| 05:15 PM | 0 | 114 | 0 | 114 | 0 | 0 | 0 | 0 | 0 | 266 | 39 | 305 | 32 | 0 | 3 | 35 | 454 |
| 05:30 PM | 0 | 102 | 0 | 102 | 0 | 0 | 0 | 0 | 0 | 205 | 44 | 249 | 29 | 0 | 0 | 29 | 380 |
| Total Volume | 0 | 426 | 0 | 426 | 0 | 0 | 0 | 0 | 0 | 841 | 162 | 1003 | 123 | 0 | 7 | 130 | 1559 |
| % App. Total | 0 | 100 | 0 | | 0 | 0 | 0 | | 0 | 83.8 | 16.2 | | 94.6 | 0 | 5.4 | | |
| PHF | .000 | .859 | .000 | .859 | .000 | .000 | .000 | .000 | .000 | .790 | .827 | .822 | .809 | .000 | .438 | .774 | .858 |

3656 E. Stratford Road Virginia Beach, VA 23455 (757) 464-5129

I-64 EIS

AM counted: 05/02/11 PM counted: 05/05/11

File Name: I-64 EIS #24714

Site Code : 24714 Start Date : 5/3/2011

Page No : 1

| | | | | | | | | toups i | rintea | - All V | emcies | | | | | | 1 | | |
|-------------|------|--------|-------|------|------|---------|--------|---------|--------|---------|--------|------|------|------------------|--------|------|--------------|--------------|------------|
| | , | Yorkto | wn Rd | | J | efferso | on Ave | | | Yorkto | wn Rd | | J | Jeffers o | on Ave | | | | |
| | | Southb | ound | | | Westb | ound | | | North | bound | | | Eastb | ound | | | | |
| Start Time | Left | Thru | Right | Trks | Left | Thru | Right | Trks | Left | Thru | Right | Trks | Left | Thru | Right | Trks | Exclu. Total | Inclu. Total | Int. Total |
| 07:00 AM | 13 | 137 | 27 | 4 | 1 | 46 | 23 | 7 | 56 | 69 | 4 | 8 | 18 | 50 | 20 | 3 | 22 | 464 | 486 |
| 07:15 AM | 19 | 117 | 47 | 7 | 1 | 67 | 19 | 6 | 52 | 76 | 3 | 11 | 33 | 61 | 27 | 6 | 30 | 522 | 552 |
| 07:30 AM | 22 | 89 | 42 | 7 | 3 | 68 | 35 | 2 | 55 | 47 | 5 | 17 | 28 | 72 | 22 | 6 | 32 | 488 | 520 |
| 07:45 AM | 28 | 75 | 66 | 4 | 2 | 93 | 25 | 4 | 55 | 44 | 5 | 5 | 26 | 95 | 23 | 14 | 27 | 537 | 564 |
| Total | 82 | 418 | 182 | 22 | 7 | 274 | 102 | 19 | 218 | 236 | 17 | 41 | 105 | 278 | 92 | 29 | 111 | 2011 | 2122 |
| | 1 | | | | | | | | | | | | | | | | | | |
| 08:00 AM | 34 | 58 | 46 | 11 | 4 | 57 | 11 | 6 | 42 | 25 | 5 | 8 | 32 | 62 | 32 | 14 | 39 | 408 | 447 |
| 08:15 AM | 26 | 76 | 34 | 14 | 3 | 55 | 17 | 6 | 30 | 41 | 5 | 15 | 20 | 60 | 22 | 8 | 43 | 389 | 432 |
| 08:30 AM | 28 | 60 | 49 | 12 | 0 | 50 | 19 | 2 | 23 | 28 | 3 | 8 | 21 | 55 | 26 | 7 | 29 | 362 | 391 |
| 08:45 AM | 23 | 71 | 36 | 12 | 2 | 43 | 27 | 5 | 24 | 33 | 2 | 5 | 31 | 44 | 10 | 17 | 39 | 346 | 385 |
| Total | 111 | 265 | 165 | 49 | 9 | 205 | 74 | 19 | 119 | 127 | 15 | 36 | 104 | 221 | 90 | 46 | 150 | 1505 | 1655 |
| | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | 1 | | | | | | |
| 04:00 PM | 46 | 89 | 20 | 2 | 10 | 52 | 47 | 6 | 43 | 108 | 6 | 8 | 51 | 95 | 28 | 4 | 20 | 595 | 615 |
| 04:15 PM | 28 | 78 | 36 | 2 | 3 | 91 | 38 | 4 | 49 | 117 | 7 | 10 | 31 | 129 | 23 | 3 | 19 | 630 | 649 |
| 04:30 PM | 29 | 81 | 36 | 4 | 5 | 74 | 45 | 4 | 29 | 134 | 6 | 5 | 37 | 84 | 21 | 2 | 15 | 581 | 596 |
| 04:45 PM | 25 | 54 | 30 | 0 | 8 | 83 | 55 | 1 | 40 | 102 | 1 | 10 | 33 | 124 | 25 | 0 | 11 | 580 | 591 |
| Total | 128 | 302 | 122 | 8 | 26 | 300 | 185 | 15 | 161 | 461 | 20 | 33 | 152 | 432 | 97 | 9 | 65 | 2386 | 2451 |
| 05.00 73.5 | | =0 | 25 | | | | 40 | | | 405 | | | | | 2.4 | | | | |
| 05:00 PM | 30 | 70 | 27 | 0 | 8 | 74 | 40 | 1 | 55 | 105 | 9 | 11 | 28 | 93 | 24 | 0 | 12 | 563 | 575 |
| 05:15 PM | 20 | 68 | 22 | 0 | 5 | 88 | 42 | 5 | 54 | 103 | 4 | 6 | 45 | 152 | 24 | 1 | 12 | 627 | 639 |
| 05:30 PM | 16 | 53 | 10 | 1 | 4 | 87 | 48 | 2 | 34 | 108 | 10 | 5 | 46 | 147 | 21 | 2 | 10 | 584 | 594 |
| 05:45 PM | 18 | 53 | 27 | 2 | 13 | 53 | 35 | I | 38 | 108 | 5 | 4 | 38 | 80 | 20 | 2 | 9 | 488 | 497 |
| Total | 84 | 244 | 86 | 3 | 30 | 302 | 165 | 9 | 181 | 424 | 28 | 26 | 157 | 472 | 89 | 5 | 43 | 2262 | 2305 |
| | 1 | | | | I | | | | I | | | | I | | | | ı | | |
| Grand Total | 405 | 1229 | 555 | 82 | 72 | 1081 | 526 | 62 | 679 | 1248 | 80 | 100 | 518 | 1403 | 368 | 89 | 369 | 8164 | 8533 |
| A 1.0/ | 10.5 | 56.1 | 25.4 | | 4.2 | 61.1 | 21.2 | | 22.0 | 60.0 | 4 | 136 | 22.6 | c1 2 | 161 | | | | |
| Appreh % | 18.5 | 56.1 | 25.4 | | 4.3 | 64.4 | 31.3 | | 33.8 | 62.2 | 4 | | 22.6 | 61.3 | 16.1 | | 1 12 | 05.7 | |
| Total % | 5 | 15.1 | 6.8 | | 0.9 | 13.2 | 6.4 | | 8.3 | 15.3 | 1 | | 6.3 | 17.2 | 4.5 | | 4.3 | 95.7 | |

| | | Yorkto | own Rd | | | Jeffers | on Ave | | | Yorkt | own Rd | | | Jeffers | on Ave | | |
|-----------------|------------|----------|----------|------------|----------|---------|--------|------------|------|-------|--------|------------|------|---------|--------|------------|------------|
| | | South | bound | | | West | bound | | | North | bound | | | Eastl | bound | | |
| Start Time | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Int. Total |
| Peak Hour Analy | ysis Fron | n 07:00 | AM to 0 | 8:45 AM | - Peak 1 | of 1 | | | | | | | | | | | |
| Peak Hour for E | ntire Inte | rsection | Begins a | at 07:00 A | M | | | | | | | | | | | | |
| 07:00 AM | 13 | 137 | 27 | 177 | 1 | 46 | 23 | 70 | 56 | 69 | 4 | 129 | 18 | 50 | 20 | 88 | 464 |
| 07:15 AM | 19 | 117 | 47 | 183 | 1 | 67 | 19 | 87 | 52 | 76 | 3 | 131 | 33 | 61 | 27 | 121 | 522 |
| 07:30 AM | 22 | 89 | 42 | 153 | 3 | 68 | 35 | 106 | 55 | 47 | 5 | 107 | 28 | 72 | 22 | 122 | 488 |
| 07:45 AM | 28 | 75 | 66 | 169 | 2 | 93 | 25 | 120 | 55 | 44 | 5 | 104 | 26 | 95 | 23 | 144 | 537 |
| Total Volume | 82 | 418 | 182 | 682 | 7 | 274 | 102 | 383 | 218 | 236 | 17 | 471 | 105 | 278 | 92 | 475 | 2011 |
| % App. Total | 12 | 61.3 | 26.7 | | 1.8 | 71.5 | 26.6 | | 46.3 | 50.1 | 3.6 | | 22.1 | 58.5 | 19.4 | | |
| PHF | .732 | .763 | .689 | .932 | .583 | .737 | .729 | .798 | .973 | .776 | .850 | .899 | .795 | .732 | .852 | .825 | .936 |
| | | 0.4.00 | D | | | | | | | | | | | | | | |
| Peak Hour Analy | • | | | | | of I | | | | | | | | | | | |
| Peak Hour for E | | | | | | | | | ı | | | | ı | | | | |
| 04:00 PM | 46 | 89 | 20 | 155 | 10 | 52 | 47 | 109 | 43 | 108 | 6 | 157 | 51 | 95 | 28 | 174 | 595 |
| 04:15 PM | 28 | 78 | 36 | 142 | 3 | 91 | 38 | 132 | 49 | 117 | 7 | 173 | 31 | 129 | 23 | 183 | 630 |
| 04:30 PM | 29 | 81 | 36 | 146 | 5 | 74 | 45 | 124 | 29 | 134 | 6 | 169 | 37 | 84 | 21 | 142 | 581 |
| 04:45 PM | 25 | 54 | 30 | 109 | 8 | 83 | 55 | 146 | 40 | 102 | 1 | 143 | 33 | 124 | 25 | 182 | 580 |
| Total Volume | 128 | 302 | 122 | 552 | 26 | 300 | 185 | 511 | 161 | 461 | 20 | 642 | 152 | 432 | 97 | 681 | 2386 |
| % App. Total | 23.2 | 54.7 | 22.1 | | 5.1 | 58.7 | 36.2 | | 25.1 | 71.8 | 3.1 | | 22.3 | 63.4 | 14.2 | | |
| PHF | .696 | .848 | .847 | .890 | .650 | .824 | .841 | .875 | .821 | .860 | .714 | .928 | .745 | .837 | .866 | .930 | .947 |

3656 E. Stratford Road Virginia Beach, VA 23455 (757) 464-5129

164 EIS

AM counted: 04/14/11 PM counted: 04/13/11

File Name: I-64 EIS #25011

Site Code : 25011 Start Date : 4/14/2011

Page No : 1

| | J | lefferso | n Ave | | | | | oups 2 | J | lefferso | n Ave | | I6 | 4 WB (| off ram | p | | | |
|----------------------|------|----------|-------|---------|------|-------|-------|--------|------|--------------------|-------|---------|-----------|--------|----------|--------|--------------|--------------|------------|
| | | Southb | ound | | | Westb | ound | | | Northl | oound | | | Eastb | ound | | | | |
| Start Time | Left | Thru | Right | Trks | Left | Thru | Right | Trks | Left | Thru | Right | Trks | Left | Thru | Right | Trks | Exclu. Total | Inclu. Total | Int. Total |
| 07:00 AM | 0 | 76 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 185 | 0 | 4 | 64 | 0 | 21 | 6 | 10 | 346 | 356 |
| 07:15 AM | 0 | 104 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 211 | 0 | 9 | 48 | 0 | 18 | 2 | 17 | 381 | 398 |
| 07:30 AM | 0 | 92 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 153 | 0 | 9 | 27 | 0 | 21 | 5 | 17 | 293 | 310 |
| 07:45 AM | 0 | 59 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 132 | 0 | 8 | 15 | 0 | 10 | 3 | 13 | 216 | 229 |
| Total | 0 | 331 | 0 | 11 | 0 | 0 | 0 | 0 | 0 | 681 | 0 | 30 | 154 | 0 | 70 | 16 | 57 | 1236 | 1293 |
| | | | | | | | | | | | | | 1 | | | | | | |
| 08:00 AM | 0 | 91 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 148 | 0 | 8 | 22 | 0 | 16 | 2 | 17 | 277 | 294 |
| 08:15 AM | 0 | 102 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 179 | 0 | 10 | 29 | 0 | 14 | 3 | 15 | 324 | 339 |
| 08:30 AM | 0 | 65 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 173 | 0 | 14 | 31 | 0 | 20 | 6 | 24 | 289 | 313 |
| 08:45 AM | 0 | 85 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 191 | 0 | 11 | 29 | 0 | 13 | 3 | 21 | 318 | 339 |
| Total | 0 | 343 | 0 | 20 | 0 | 0 | 0 | 0 | 0 | 691 | 0 | 43 | 111 | 0 | 63 | 14 | 77 | 1208 | 1285 |
| | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| 04:00 PM | 0 | 318 | 0 | | | 0 | 0 | 0 | ۱ ۵ | 244 | 0 | 0 | 86 | 0 | 26 | 0 | 1.4 | 784 | 798 |
| 04:00 PM 04:15 PM | 0 | 306 | 0 | 6 16 | 0 | 0 | 0 | 0 | 0 | 344 355 | 0 | 8 11 | 82 | 0 | 36 66 | 0 5 | 14 32 | 784 809 | 798 841 |
| 04:13 PM 04:30 PM | 0 | 310 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 244 | 0 | 4 | 72 | 0 | 74 | 8 | 18 | 700 | 718 |
| 04:30 PM 04:45 PM | 0 | 296 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 253 | 0 | 4 | 76 | 0 | 50 | 8 4 | 18 | 675 | 687 |
| Total | 0 | 1230 | 0 | 32 | 0 | 0 | 0 | 0 | 0 | <u>233</u> 1196 | 0 | 27 | 316 | 0 | 226 | 17 | 76 | 2968 | 3044 |
| Total | U | 1230 | U | 32 | , 0 | U | U | U | 0 | 1190 | U | 21 | 310 | U | 220 | 1 / | /0 | 2908 | 3044 |
| 05:00 PM | 0 | 308 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 243 | 0 | 10 | 71 | 0 | 48 | 4 | 20 | 670 | 690 |
| 05:15 PM | 0 | 285 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 240 | 0 | 0 | 84 | 0 | 52 | 1 | 4 | 661 | 665 |
| 05:30 PM | 0 | 252 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 183 | 0 | 3 | 79 | 0 | 52 | 3 | 9 | 566 | 575 |
| 05:45 PM | 0 | 214 | 0 | 1 | ő | 0 | 0 | Ő | 0 | 194 | 0 | 4 | 64 | 0 | 74 | 2 | 7 | 546 | 553 |
| Total | 0 | 1059 | 0 | 13 | 0 | 0 | 0 | 0 | 0 | 860 | 0 | 17 | 298 | 0 | 226 | 10 | 40 | 2443 | 2483 |
| 101111 | | | Ü | | , | | Ü | Ü | | 200 | Ü | - ' | | Ü | | | | | 00 |
| Constant | 0 | 20.62 | 0 | 70 | | 0 | 0 | 0 | | 2420 | 0 | | 970 | 0 | 505 | 57 | 250 | 7055 | 0105 |
| Grand Total | 0 | 2963 | 0 | 76 | 0 | 0 | 0 | 0 | 0 | 3428 | 0 | 117 | 879 | 0 | 585 | 57 | 250 | 7855 | 8105 |
| Apprch % | 0 | 100 | 0 | | 0 | 0 | 0 | | 0 | 100 | 0 | | 60 | 0 | 40 | | | | |
| Total % | 0 | 37.7 | 0 | | 0 | 0 | 0 | | 0 | 43.6 | 0 | | 11.2 | 0 | 7.4 | | 3.1 | 96.9 | |

| | | Jeffers | on Ave | | | | | | | Jeffers | on Ave | |] | 64 WB | off ran | ıp | |
|-----------------|------------|----------|----------|------------|----------|-------|-------|------------|------|---------|--------|------------|------|-------|---------|------------|------------|
| | | South | bound | | | Westl | bound | | | North | bound | | | Eastl | oound | | |
| Start Time | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Int. Total |
| Peak Hour Analy | ysis Fron | n 07:00 | AM to 0 | 8:45 AM | Peak 1 | of 1 | | | | | | | | | | | |
| Peak Hour for E | ntire Inte | rsection | Begins a | at 07:00 A | M | | | | | | | | | | | | |
| 07:00 AM | 0 | 76 | 0 | 76 | 0 | 0 | 0 | 0 | 0 | 185 | 0 | 185 | 64 | 0 | 21 | 85 | 346 |
| 07:15 AM | 0 | 104 | 0 | 104 | 0 | 0 | 0 | 0 | 0 | 211 | 0 | 211 | 48 | 0 | 18 | 66 | 381 |
| 07:30 AM | 0 | 92 | 0 | 92 | 0 | 0 | 0 | 0 | 0 | 153 | 0 | 153 | 27 | 0 | 21 | 48 | 293 |
| 07:45 AM | 0 | 59 | 0 | 59 | 0 | 0 | 0 | 0 | 0 | 132 | 0 | 132 | 15 | 0 | 10 | 25 | 216 |
| Total Volume | 0 | 331 | 0 | 331 | 0 | 0 | 0 | 0 | 0 | 681 | 0 | 681 | 154 | 0 | 70 | 224 | 1236 |
| % App. Total | 0 | 100 | 0 | | 0 | 0 | 0 | | 0 | 100 | 0 | | 68.8 | 0 | 31.2 | | |
| PHF | .000 | .796 | .000 | .796 | .000 | .000 | .000 | .000 | .000 | .807 | .000 | .807 | .602 | .000 | .833 | .659 | .811 |
| | | | | | | | | | | | | | | | | | |
| Peak Hour Analy | ysis Fron | n 04:00 | PM to 05 | 5:45 PM - | Peak 1 o | f 1 | | | | | | | | | | | |
| Peak Hour for E | ntire Inte | rsection | Begins a | at 04:00 P | M | | | | | | | | | | | | i |
| 04:00 PM | 0 | 318 | 0 | 318 | 0 | 0 | 0 | 0 | 0 | 344 | 0 | 344 | 86 | 0 | 36 | 122 | 784 |
| 04:15 PM | 0 | 306 | 0 | 306 | 0 | 0 | 0 | 0 | 0 | 355 | 0 | 355 | 82 | 0 | 66 | 148 | 809 |
| 04:30 PM | 0 | 310 | 0 | 310 | 0 | 0 | 0 | 0 | 0 | 244 | 0 | 244 | 72 | 0 | 74 | 146 | 700 |
| 04:45 PM | 0 | 296 | 0 | 296 | 0 | 0 | 0 | 0 | 0 | 253 | 0 | 253 | 76 | 0 | 50 | 126 | 675 |
| Total Volume | 0 | 1230 | 0 | 1230 | 0 | 0 | 0 | 0 | 0 | 1196 | 0 | 1196 | 316 | 0 | 226 | 542 | 2968 |
| % App. Total | 0 | 100 | 0 | | 0 | 0 | 0 | | 0 | 100 | 0 | | 58.3 | 0 | 41.7 | | |
| PHF | .000 | .967 | .000 | .967 | .000 | .000 | .000 | .000 | .000 | .842 | .000 | .842 | .919 | .000 | .764 | .916 | .917 |

3656 E. Stratford Road Virginia Beach, VA 23455 (757) 464-5129

164 EIS

AM counted: 04/13/11 PM counted: 04/12/11

File Name : I-64 EIS #25012

Site Code : 25012 Start Date : 4/13/2011

Page No : 1

| | J | efferso | n Ave | | Fe | ort Eus | tis Blvd | | Jimed | lefferso | | | Fo | ort Eus | tis Blvd | l | | | |
|-------------|------|---------|-------|------|------|---------|----------|------|-------|----------|-------|------|------|---------|----------|------|--------------|--------------|------------|
| | | Southb | ound | | | Westb | ound | | | Northl | | | | Eastb | | | | | |
| Start Time | Left | Thru | Right | Trks | Left | Thru | Right | Trks | Left | Thru | Right | Trks | Left | Thru | Right | Trks | Exclu. Total | Inclu. Total | Int. Total |
| 07:00 AM | 8 | 224 | 74 | 5 | 93 | 114 | 64 | 1 | 21 | 136 | 66 | 9 | 19 | 20 | 19 | 3 | 18 | 858 | 876 |
| 07:15 AM | 12 | 227 | 59 | 3 | 100 | 147 | 67 | 1 | 19 | 78 | 88 | 11 | 14 | 48 | 23 | 4 | 19 | 882 | 901 |
| 07:30 AM | 11 | 181 | 80 | 3 | 140 | 153 | 46 | 6 | 40 | 73 | 118 | 12 | 10 | 51 | 17 | 1 | 22 | 920 | 942 |
| 07:45 AM | 13 | 180 | 48 | 2 | 104 | 132 | 51 | 5 | 35 | 85 | 151 | 10 | 12 | 81 | 68 | 9 | 26 | 960 | 986 |
| Total | 44 | 812 | 261 | 13 | 437 | 546 | 228 | 13 | 115 | 372 | 423 | 42 | 55 | 200 | 127 | 17 | 85 | 3620 | 3705 |
| | | | | | | | | | | | | | 1 . | | | | 1 | | |
| 08:00 AM | 5 | 136 | 78 | 6 | 73 | 119 | 47 | 5 | 16 | 54 | 70 | 7 | 16 | 54 | 35 | 6 | 24 | 703 | 727 |
| 08:15 AM | 4 | 92 | 65 | 11 | 94 | 83 | 11 | 0 | 8 | 57 | 65 | 14 | 23 | 46 | 18 | 7 | 32 | 566 | 598 |
| 08:30 AM | 0 | 43 | 37 | 9 | 58 | 65 | 7 | 5 | 20 | 55 | 52 | 19 | 12 | 44 | 29 | 5 | 38 | 422 | 460 |
| 08:45 AM | 3 | 131 | 47 | 3 | 157 | 101 | 45 | 3 | 9 | 50 | 67 | 19 | 13 | 38 | 20 | 6 | 31 | 681 | 712 |
| Total | 12 | 402 | 227 | 29 | 382 | 368 | 110 | 13 | 53 | 216 | 254 | 59 | 64 | 182 | 102 | 24 | 125 | 2372 | 2497 |
| | | | | | | | | | | | | | | | | | | | |
| 04:00 PM | 10 | 87 | 53 | 7 | 59 | 111 | 80 | 2 | 15 | 83 | 107 | 6 | 27 | 152 | 83 | 5 | 20 | 867 | 887 |
| 04:15 PM | 12 | 87 | 29 | 3 | 62 | 83 | 94 | 1 | 48 | 148 | 150 | 8 | 23 | 122 | 54 | 6 | 18 | 912 | 930 |
| 04:30 PM | 6 | 66 | 55 | 5 | 37 | 120 | 94 | 1 | 39 | 144 | 153 | 11 | 31 | 113 | 50 | 5 | 22 | 908 | 930 |
| 04:45 PM | 8 | 68 | 32 | 2 | 60 | 113 | 102 | 2 | 36 | 165 | 216 | 7 | 29 | 92 | 42 | 12 | 23 | 963 | 986 |
| Total | 36 | 308 | 169 | 17 | 218 | 427 | 370 | 6 | 138 | 540 | 626 | 32 | 110 | 479 | 229 | 28 | 83 | 3650 | 3733 |
| 05:00 PM | 6 | 41 | 32 | 1 | 64 | 161 | 72 | 1 | 48 | 107 | 134 | 3 | 24 | 100 | 42 | 5 | 10 | 831 | 841 |
| 05:15 PM | 17 | 76 | 20 | 0 | 80 | 134 | 111 | 0 | 34 | 145 | 196 | 6 | 28 | 98 | 27 | 6 | 12 | 966 | 978 |
| 05:30 PM | 7 | 25 | 32 | 0 | 37 | 81 | 70 | 0 | 34 | 120 | 145 | 3 | 31 | 100 | 35 | 3 | 6 | 717 | 723 |
| 05:45 PM | 6 | 62 | 2 | 1 | 63 | 103 | 85 | 1 | 14 | 117 | 127 | 5 | 15 | 82 | 30 | 2 | 9 | 706 | 715 |
| Total | 36 | 204 | 86 | 2 | 244 | 479 | 338 | 2 | 130 | 489 | 602 | 17 | 98 | 380 | 134 | 16 | 37 | 3220 | 3257 |
| Grand Total | 128 | 1726 | 743 | 61 | 1281 | 1820 | 1046 | 34 | 436 | 1617 | 1905 | 150 | 327 | 1241 | 592 | 85 | 330 | 12862 | 13192 |
| Apprch % | 4.9 | 66.5 | 28.6 | | 30.9 | 43.9 | 25.2 | | 11 | 40.9 | 48.1 | | 15.1 | 57.5 | 27.4 | | | | |
| Total % | 1 | 13.4 | 5.8 | | 10 | 14.2 | 8.1 | | 3.4 | 12.6 | 14.8 | | 2.5 | 9.6 | 4.6 | | 2.5 | 97.5 | |

| | | Jeffers | on Ave | | 1 | Fort Eu | stis Blv | d | | Jeffers | on Ave | | I | | | | |
|-----------------|------------|----------|---------|------------|----------|---------|----------|------------|-------|---------|--------|------------|------|------|-------|------------|------------|
| | | South | bound | | | bound | | | North | bound | | | | | | | |
| Start Time | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Int. Total |
| Peak Hour Analy | ysis Fron | n 07:00 | AM to 0 | 8:45 AM | - Peak 1 | of 1 | | | | | | | | | | | |
| Peak Hour for E | ntire Inte | rsection | Begins | at 07:00 A | M | | | | | | | | | | | | |
| 07:00 AM | 8 | 224 | 74 | 306 | 93 | 114 | 64 | 271 | 21 | 136 | 66 | 223 | 19 | 20 | 19 | 58 | 858 |
| 07:15 AM | 12 | 227 | 59 | 298 | 100 | 147 | 67 | 314 | 19 | 78 | 88 | 185 | 14 | 48 | 23 | 85 | 882 |
| 07:30 AM | 11 | 181 | 80 | 272 | 140 | 153 | 46 | 339 | 40 | 73 | 118 | 231 | 10 | 51 | 17 | 78 | 920 |
| 07:45 AM | 13 | 180 | 48 | 241 | 104 | 132 | 51 | 287 | 35 | 85 | 151 | 271 | 12 | 81 | 68 | 161 | 960 |
| Total Volume | 44 | 812 | 261 | 1117 | 437 | 546 | 228 | 1211 | 115 | 372 | 423 | 910 | 55 | 200 | 127 | 382 | 3620 |
| % App. Total | 3.9 | 72.7 | 23.4 | | 36.1 | 45.1 | 18.8 | | 12.6 | 40.9 | 46.5 | | 14.4 | 52.4 | 33.2 | | |
| PHF | .846 | .894 | .816 | .913 | .780 | .892 | .851 | .893 | .719 | .684 | .700 | .839 | .724 | .617 | .467 | .593 | .943 |
| | | | | | | | | | | | | | | | | | |
| Peak Hour Analy | • | | | | | of 1 | | | | | | | | | | | |
| Peak Hour for E | ntire Inte | rsection | _ | | | | | | | | | | | | | | |
| 04:30 PM | 6 | 66 | 55 | 127 | 37 | 120 | 94 | 251 | 39 | 144 | 153 | 336 | 31 | 113 | 50 | 194 | 908 |
| 04:45 PM | 8 | 68 | 32 | 108 | 60 | 113 | 102 | 275 | 36 | 165 | 216 | 417 | 29 | 92 | 42 | 163 | 963 |
| 05:00 PM | 6 | 41 | 32 | 79 | 64 | 161 | 72 | 297 | 48 | 107 | 134 | 289 | 24 | 100 | 42 | 166 | 831 |
| 05:15 PM | 17 | 76 | 20 | 113 | 80 | 134 | 111 | 325 | 34 | 145 | 196 | 375 | 28 | 98 | 27 | 153 | 966 |
| Total Volume | 37 | 251 | 139 | 427 | 241 | 528 | 379 | 1148 | 157 | 561 | 699 | 1417 | 112 | 403 | 161 | 676 | 3668 |
| % App. Total | 8.7 | 58.8 | 32.6 | | 21 | 46 | 33 | | 11.1 | 39.6 | 49.3 | | 16.6 | 59.6 | 23.8 | | |
| PHF | .544 | .826 | .632 | .841 | .753 | .820 | .854 | .883 | .818 | .850 | .809 | .850 | .903 | .892 | .805 | .871 | .949 |

3656 E. Stratford Road Virginia Beach, VA 23455 (757) 464-5129

AM counted: 04/20/11 PM counted: 04/19/11

164 EIS

File Name: I-64 EIS #25511 Site Code: 25511

Site Code : 25511 Start Date : 4/20/2011

Page No : 1

| | Groups Timed An Venicles | | | | | | | | | | | | | 1 | | | | | |
|-------------|--------------------------|----------|-------|------|------|--|-------|------|------|--------|-------|------|------|-------|-------|------|--------------|--------------|------------|
| | J | Jefferso | n Ave | | Pat | Patrick Henry Mall Jefferson Ave Freedom Way | | | | | | | | | | | | | |
| | | Southb | ound | | | Westb | ound | | | Northl | oound | | | Eastb | ound | | | | |
| Start Time | Left | Thru | Right | Trks | Left | Thru | Right | Trks | Left | Thru | Right | Trks | Left | Thru | Right | Trks | Exclu. Total | Inclu. Total | Int. Total |
| 07:00 AM | 7 | 320 | 12 | 13 | 3 | 0 | 6 | 1 | 12 | 214 | 9 | 18 | 27 | 1 | 23 | 2 | 34 | 634 | 668 |
| 07:15 AM | 7 | 402 | 13 | 13 | 1 | 1 | 4 | 1 | 10 | 296 | 4 | 19 | 49 | 1 | 16 | 2 | 35 | 804 | 839 |
| 07:30 AM | 19 | 417 | 17 | 21 | 3 | 0 | 8 | 4 | 8 | 352 | 5 | 21 | 35 | 0 | 15 | 2 | 48 | 879 | 927 |
| 07:45 AM | 21 | 494 | 26 | 15 | 3 | 0 | 8 | 3 | 14 | 312 | 9 | 22 | 40 | 3 | 30 | 1 | 41 | 960 | 1001 |
| Total | 54 | 1633 | 68 | 62 | 10 | 1 | 26 | 9 | 44 | 1174 | 27 | 80 | 151 | 5 | 84 | 7 | 158 | 3277 | 3435 |
| | | | | | | | | | | | | | | | | | | | |
| 08:00 AM | 22 | 412 | 20 | 12 | 3 | 1 | 10 | 3 | 22 | 285 | 9 | 13 | 37 | 1 | 25 | 3 | 31 | 847 | 878 |
| 08:15 AM | 26 | 374 | 28 | 29 | 3 | 1 | 8 | 0 | 25 | 318 | 14 | 17 | 28 | 3 | 21 | 5 | 51 | 849 | 900 |
| 08:30 AM | 34 | 370 | 37 | 27 | 10 | 5 | 16 | 4 | 16 | 276 | 7 | 12 | 25 | 1 | 22 | 2 | 45 | 819 | 864 |
| 08:45 AM | 46 | 365 | 43 | 24 | 4 | 1 | 6 | 1 | 27 | 352 | 10 | 21 | 27 | 2 | 15 | 3 | 49 | 898 | 947 |
| Total | 128 | 1521 | 128 | 92 | 20 | 8 | 40 | 8 | 90 | 1231 | 40 | 63 | 117 | 7 | 83 | 13 | 176 | 3413 | 3589 |
| | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| 04:00 PM | 72 | 436 | 40 | 19 | 22 | 3 | 84 | 3 | 30 | 526 | 28 | 9 | 20 | 3 | 21 | 2 | 33 | 1285 | 1318 |
| 04:15 PM | 79 | 456 | 42 | 20 | 20 | 10 | 83 | 3 | 36 | 529 | 28 | 11 | 20 | 7 | 16 | 2 | 36 | 1326 | 1362 |
| 04:30 PM | 76 | 456 | 38 | 25 | 25 | 6 | 102 | 1 | 32 | 641 | 11 | 0 | 31 | 3 | 20 | 1 | 27 | 1441 | 1468 |
| 04:45 PM | 119 | 500 | 48 | 20 | 22 | 7 | 105 | 1 | 34 | 567 | 12 | 2 | 29 | 6 | 20 | 2 | 25 | 1469 | 1494 |
| Total | 346 | 1848 | 168 | 84 | 89 | 26 | 374 | 8 | 132 | 2263 | 79 | 22 | 100 | 19 | 77 | 7 | 121 | 5521 | 5642 |
| | | | | | | | | | | | | | | | | | | | |
| 05:00 PM | 97 | 497 | 80 | 19 | 26 | 7 | 83 | 1 | 35 | 629 | 21 | 3 | 49 | 10 | 40 | 5 | 28 | 1574 | 1602 |
| 05:15 PM | 97 | 489 | 57 | 20 | 40 | 7 | 93 | 3 | 40 | 574 | 22 | 3 | 44 | 10 | 25 | 2 | 28 | 1498 | 1526 |
| 05:30 PM | 87 | 544 | 59 | 7 | 12 | 2 | 114 | 1 | 41 | 622 | 20 | 2 | 46 | 9 | 19 | 2 | 12 | 1575 | 1587 |
| 05:45 PM | 89 | 451 | 57 | 13 | 39 | 2 | 89 | 1 | 68 | 547 | 17 | 0 | 46 | 7 | 37 | 2 | 16 | 1449 | 1465 |
| Total | 370 | 1981 | 253 | 59 | 117 | 18 | 379 | 6 | 184 | 2372 | 80 | 8 | 185 | 36 | 121 | 11 | 84 | 6096 | 6180 |
| | | | | | | | | | | | | | | | | | | | |
| Grand Total | 898 | 6983 | 617 | | 236 | 53 | 819 | 31 | 450 | 7040 | 226 | | 553 | 67 | 365 | 38 | 539 | 18307 | 18846 |
| Giana Total | 070 | 0903 | 01/ | 297 | 230 | 33 | 019 | 31 | 450 | 7040 | 220 | 173 | 333 | 07 | 303 | 30 | 339 | 10307 | 10040 |
| Apprch % | 10.6 | 82.2 | 7.3 | | 21.3 | 4.8 | 73.9 | | 5.8 | 91.2 | 2.9 | | 56.1 | 6.8 | 37.1 | | | | |
| Total % | 4.9 | 38.1 | 3.4 | | 1.3 | 0.3 | 4.5 | | 2.5 | 38.5 | 1.2 | | 3 | 0.4 | 2 | | 2.9 | 97.1 | |

| | | Jeffers | on Ave | | Pa | trick I | Henry M | Iall | | Jeffers | on Ave | | | | | | |
|-----------------|--|-----------|----------|------------|----------|---------|---------|------------|------|---------|--------|------------|------|------|-------|------------|------------|
| | | South | bound | | | West | bound | | | North | bound | | | | | | |
| Start Time | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Int. Total |
| Peak Hour Analy | sis Fron | n 07:00 | AM to 0 | 8:45 AM | - Peak 1 | of 1 | | | | | | | | | | | |
| Peak Hour for E | Peak Hour for Entire Intersection Begins at 07:30 AM | | | | | | | | | | | | | | | | |
| 07:30 AM | 19 | 417 | 17 | 453 | 3 | 0 | 8 | 11 | 8 | 352 | 5 | 365 | 35 | 0 | 15 | 50 | 879 |
| 07:45 AM | 21 | 494 | 26 | 541 | 3 | 0 | 8 | 11 | 14 | 312 | 9 | 335 | 40 | 3 | 30 | 73 | 960 |
| 08:00 AM | 22 | 412 | 20 | 454 | 3 | 1 | 10 | 14 | 22 | 285 | 9 | 316 | 37 | 1 | 25 | 63 | 847 |
| 08:15 AM | 26 | 374 | 28 | 428 | 3 | 1 | 8 | 12 | 25 | 318 | 14 | 357 | 28 | 3 | 21 | 52 | 849 |
| Total Volume | 88 | 1697 | 91 | 1876 | 12 | 2 | 34 | 48 | 69 | 1267 | 37 | 1373 | 140 | 7 | 91 | 238 | 3535 |
| % App. Total | 4.7 | 90.5 | 4.9 | | 25 | 4.2 | 70.8 | | 5 | 92.3 | 2.7 | | 58.8 | 2.9 | 38.2 | | |
| PHF | .846 | .859 | .813 | .867 | 1.000 | .500 | .850 | .857 | .690 | .900 | .661 | .940 | .875 | .583 | .758 | .815 | .921 |
| | | | | | | | | | | | | | | | | | |
| Peak Hour Analy | sis Fror | n 04:00 | PM to 05 | 5:45 PM - | Peak 1 c | f 1 | | | | | | | | | | | |
| Peak Hour for E | ntire Inte | ersection | Begins | at 04:45 P | M | | | | | | | | | | | | |
| 04:45 PM | 119 | 500 | 48 | 667 | 22 | 7 | 105 | 134 | 34 | 567 | 12 | 613 | 29 | 6 | 20 | 55 | 1469 |
| 05:00 PM | 97 | 497 | 80 | 674 | 26 | 7 | 83 | 116 | 35 | 629 | 21 | 685 | 49 | 10 | 40 | 99 | 1574 |
| 05:15 PM | 97 | 489 | 57 | 643 | 40 | 7 | 93 | 140 | 40 | 574 | 22 | 636 | 44 | 10 | 25 | 79 | 1498 |
| 05:30 PM | 87 | 544 | 59 | 690 | 12 | 2 | 114 | 128 | 41 | 622 | 20 | 683 | 46 | 9 | 19 | 74 | 1575 |
| Total Volume | 400 | 2030 | 244 | 2674 | 100 | 23 | 395 | 518 | 150 | 2392 | 75 | 2617 | 168 | 35 | 104 | 307 | 6116 |
| % App. Total | 15 | 75.9 | 9.1 | | 19.3 | 4.4 | 76.3 | | 5.7 | 91.4 | 2.9 | | 54.7 | 11.4 | 33.9 | | |
| PHF | .840 | .933 | .763 | .969 | .625 | .821 | .866 | .925 | .915 | .951 | .852 | .955 | .857 | .875 | .650 | .775 | .971 |

3656 E. Stratford Road Virginia Beach, VA 23455 (757) 464-5129

164 EIS

AM counted: 04/21/11 PM counted: 04/21/11

File Name: I-64 EIS #25512

Site Code : 25512 Start Date : 4/21/2011

Page No : 1

Groups Printed- All Vehicles

| | | Jefferso | | | В | | iln Blvd | l | J | lefferso | | | 1 | | rt Way | | | | |
|-------------|------|----------|-------|------|------|-------|----------|------|------|----------|-------|------|------|-------|--------|------|--------------|--------------|------------|
| | | Southb | ound | | | Westb | ound | | | North | bound | | | Eastb | ound | | | | |
| Start Time | Left | Thru | Right | Trks | Left | Thru | Right | Trks | Left | Thru | Right | Trks | Left | Thru | Right | Trks | Exclu. Total | Inclu. Total | Int. Total |
| 07:00 AM | 36 | 511 | 12 | 18 | 51 | 12 | 62 | 0 | 21 | 424 | 9 | 0 | 7 | 3 | 19 | 3 | 21 | 1167 | 1188 |
| 07:15 AM | 51 | 566 | 8 | 15 | 56 | 10 | 67 | 1 | 31 | 457 | 10 | 8 | 3 | 3 | 31 | 2 | 26 | 1293 | 1319 |
| 07:30 AM | 57 | 588 | 10 | 21 | 60 | 5 | 52 | 2 | 29 | 459 | 17 | 13 | 7 | 2 | 44 | 1 | 37 | 1330 | 1367 |
| 07:45 AM | 73 | 699 | 6 | 32 | 63 | 5 | 90 | 0 | 20 | 498 | 22 | 2 | 14 | 7 | 37 | 3 | 37 | 1534 | 1571 |
| Total | 217 | 2364 | 36 | 86 | 230 | 32 | 271 | 3 | 101 | 1838 | 58 | 23 | 31 | 15 | 131 | 9 | 121 | 5324 | 5445 |
| | | | | | | | | | | | | | | | | | | | |
| 08:00 AM | 67 | 600 | 8 | 35 | 49 | 8 | 74 | 3 | 27 | 581 | 26 | 8 | 11 | 8 | 26 | 0 | 46 | 1485 | 1531 |
| 08:15 AM | 51 | 554 | 10 | 24 | 60 | 14 | 89 | 5 | 19 | 485 | 19 | 8 | 7 | 5 | 27 | 0 | 37 | 1340 | 1377 |
| 08:30 AM | 61 | 492 | 12 | 29 | 47 | 8 | 69 | 1 | 33 | 447 | 19 | 9 | 7 | 5 | 42 | 2 | 41 | 1242 | 1283 |
| 08:45 AM | 38 | 472 | 15 | 37 | 43 | 11 | 46 | 1 | 23 | 561 | 8 | 16 | 7 | 4 | 28 | 0 | 54 | 1256 | 1310 |
| Total | 217 | 2118 | 45 | 125 | 199 | 41 | 278 | 10 | 102 | 2074 | 72 | 41 | 32 | 22 | 123 | 2 | 178 | 5323 | 5501 |
| | | | | | | | | _ | ۰. ا | | | | | | | | | | |
| 04:00 PM | 105 | 632 | 13 | 27 | 23 | 11 | 100 | 2 | 62 | 796 | 21 | 7 | 21 | 21 | 63 | 0 | 36 | 1868 | 1904 |
| 04:15 PM | 100 | 633 | 21 | 25 | 26 | 35 | 121 | 0 | 66 | 827 | 12 | 8 | 36 | 12 | 67 | 2 | 35 | 1956 | 1991 |
| 04:30 PM | 99 | 619 | 23 | 19 | 20 | 20 | 116 | 1 | 44 | 734 | 23 | 3 | 23 | 10 | 70 | 1 | 24 | 1801 | 1825 |
| 04:45 PM | 129 | 638 | 16 | 19 | 31 | 27 | 116 | 0 | 48 | 636 | 12 | | 18 | 12 | 72 | 1 | 27 | 1755 | 1782 |
| Total | 433 | 2522 | 73 | 90 | 100 | 93 | 453 | 3 | 220 | 2993 | 68 | 25 | 98 | 55 | 272 | 4 | 122 | 7380 | 7502 |
| 05:00 PM | 99 | 642 | 24 | 33 | 33 | 24 | 122 | 1 | 48 | 574 | 8 | 5 | 34 | 12 | 69 | 0 | 39 | 1689 | 1728 |
| 05:15 PM | 129 | 685 | 21 | 20 | 42 | 39 | 137 | 0 | 83 | 808 | 17 | 2 | 36 | 18 | 75 | 1 | 23 | 2090 | 2113 |
| 05:30 PM | 129 | 683 | 15 | 11 | 45 | 31 | 123 | 1 | 64 | 770 | 46 | 5 | 39 | 11 | 83 | 1 | 18 | 2039 | 2057 |
| 05:45 PM | 125 | 677 | 21 | 14 | 52 | 25 | 138 | 1 | 54 | 759 | 36 | 0 | 26 | 14 | 80 | 2 | 17 | 2007 | 2024 |
| Total | 482 | 2687 | 81 | 78 | 172 | 119 | 520 | 3 | 249 | 2911 | 107 | 12 | 135 | 55 | 307 | 4 | 97 | 7825 | 7922 |
| Constant | 1240 | 0.601 | 225 | | 701 | 205 | 1522 | 10 | (72 | 0016 | 205 | | 200 | 1.47 | 922 | 10 | 510 | 25052 | 26270 |
| Grand Total | 1349 | 9691 | 235 | 379 | 701 | 285 | 1522 | 19 | 672 | 9816 | 305 | 101 | 296 | 147 | 833 | 19 | 518 | 25852 | 26370 |
| Apprch % | 12 | 86 | 2.1 | | 28 | 11.4 | 60.7 | | 6.2 | 90.9 | 2.8 | | 23.2 | 11.5 | 65.3 | | | | |
| Total % | 5.2 | 37.5 | 0.9 | | 2.7 | 1.1 | 5.9 | | 2.6 | 38 | 1.2 | | 1.1 | 0.6 | 3.2 | | 2 | 98 | |

| | | Jeffers | on Ave | | | Brick F | Kiln Blv | d | | Jeffers | on Ave | | | Walm | art Way | 7 | |
|-----------------|------------|-----------|----------|------------|----------|---------|----------|------------|------|---------|--------|------------|------|------|---------|------------|------------|
| | | South | bound | | | West | bound | | | North | bound | | | East | oound | | |
| Start Time | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Int. Total |
| Peak Hour Analy | sis Fror | n 07:00 | AM to 0 | 8:45 AM | - Peak 1 | of 1 | | | | | | | | | | | |
| Peak Hour for E | ntire Inte | ersection | Begins | at 07:30 A | M | | | | | | | | | | | | |
| 07:30 AM | 57 | 588 | 10 | 655 | 60 | 5 | 52 | 117 | 29 | 459 | 17 | 505 | 7 | 2 | 44 | 53 | 1330 |
| 07:45 AM | 73 | 699 | 6 | 778 | 63 | 5 | 90 | 158 | 20 | 498 | 22 | 540 | 14 | 7 | 37 | 58 | 1534 |
| 08:00 AM | 67 | 600 | 8 | 675 | 49 | 8 | 74 | 131 | 27 | 581 | 26 | 634 | 11 | 8 | 26 | 45 | 1485 |
| 08:15 AM | 51 | 554 | 10 | 615 | 60 | 14 | 89 | 163 | 19 | 485 | 19 | 523 | 7 | 5 | 27 | 39 | 1340 |
| Total Volume | 248 | 2441 | 34 | 2723 | 232 | 32 | 305 | 569 | 95 | 2023 | 84 | 2202 | 39 | 22 | 134 | 195 | 5689 |
| % App. Total | 9.1 | 89.6 | 1.2 | | 40.8 | 5.6 | 53.6 | | 4.3 | 91.9 | 3.8 | | 20 | 11.3 | 68.7 | | |
| PHF | .849 | .873 | .850 | .875 | .921 | .571 | .847 | .873 | .819 | .870 | .808 | .868 | .696 | .688 | .761 | .841 | .927 |
| | | | | | | | | | | | | | | | | | |
| Peak Hour Analy | sis Fror | n 04:00 | PM to 05 | 5:45 PM - | Peak 1 c | f 1 | | | | | | | | | | | |
| Peak Hour for E | ntire Inte | ersection | Begins | at 05:00 P | M | | | | | | | | | | | | |
| 05:00 PM | 99 | 642 | 24 | 765 | 33 | 24 | 122 | 179 | 48 | 574 | 8 | 630 | 34 | 12 | 69 | 115 | 1689 |
| 05:15 PM | 129 | 685 | 21 | 835 | 42 | 39 | 137 | 218 | 83 | 808 | 17 | 908 | 36 | 18 | 75 | 129 | 2090 |
| 05:30 PM | 129 | 683 | 15 | 827 | 45 | 31 | 123 | 199 | 64 | 770 | 46 | 880 | 39 | 11 | 83 | 133 | 2039 |
| 05:45 PM | 125 | 677 | 21 | 823 | 52 | 25 | 138 | 215 | 54 | 759 | 36 | 849 | 26 | 14 | 80 | 120 | 2007 |
| Total Volume | 482 | 2687 | 81 | 3250 | 172 | 119 | 520 | 811 | 249 | 2911 | 107 | 3267 | 135 | 55 | 307 | 497 | 7825 |
| % App. Total | 14.8 | 82.7 | 2.5 | | 21.2 | 14.7 | 64.1 | | 7.6 | 89.1 | 3.3 | | 27.2 | 11.1 | 61.8 | | |
| PHF | .934 | .981 | .844 | .973 | .827 | .763 | .942 | .930 | .750 | .901 | .582 | .900 | .865 | .764 | .925 | .934 | .936 |

3656 E. Stratford Road Virginia Beach, VA 23455 (757) 464-5129

I-64 EIS counts Exit 264 - I-664

AM counted: 05/05/11 PM counted: 05/04/11

File Name: I-64 EIS #264

Site Code : 264 Start Date : 5/5/2011

Page No : 1

Groups Printed- All Vehicles

| | | | | | | I-0 | | l oups i | Imicu | | 664 | | | I- | 64 | |] | | |
|----------------------|------|--------|-------|------|-------|--------------|-------|----------|-------|--------|-------------|----------|------|------------|--------------|----------|--------------|--------------|--------------|
| | | Southb | ound | | | Westb | | | | Northl | bound | | | Eastb | | | | | |
| Start Time | Left | Thru | Right | Trks | Left | Thru | Right | Trks | Left | Thru | Right | Trks | Left | Thru | Right | Trks | Exclu. Total | Inclu. Total | Int. Total |
| 06:00 AM | 0 | 0 | 0 | 0 | 347 | 402 | 0 | 22 | 248 | 0 | 152 | 54 | 0 | 682 | 491 | 47 | 123 | 2322 | 2445 |
| 06:15 AM | 0 | 0 | 0 | 0 | 482 | 518 | 0 | 19 | 310 | 0 | 124 | 47 | 0 | 754 | 353 | 74 | 140 | 2541 | 2681 |
| 06:30 AM | 0 | 0 | 0 | 0 | 362 | 646 | 0 | 26 | 371 | 0 | 135 | 65 | 0 | 781 | 846 | 65 | 156 | 3141 | 3297 |
| 06:45 AM | 0 | 0 | 0 | 0 | 336 | 677 | 0 | 34 | 384 | 0 | 197 | 57 | 0 | 835 | 272 | 43 | 134 | 2701 | 2835 |
| Total | 0 | 0 | 0 | 0 | 1527 | 2243 | 0 | | 1212 | 0 | 608 | | 0 | 3052 | 1062 | | 553 | 10705 | 11258 |
| Total | U | U | U | U | 1527 | 2243 | 0 | 101 | 1313 | 0 | 008 | 223 | U | 3032 | 1962 | 229 | 333 | 10703 | 11236 |
| | | | | | | | | | | | | | ı | | | | | | |
| 07:00 AM | 0 | 0 | 0 | 0 | 313 | 598 | 0 | 48 | 343 | 0 | 207 | 48 | 0 | 999 | 259 | 51 | 147 | 2719 | 2866 |
| 07:15 AM | 0 | 0 | 0 | 0 | 328 | 686 | 0 | 21 | 374 | 0 | 199 | 54 | 0 | 1016 | 290 | 58 | 133 | 2893 | 3026 |
| 07:30 AM | 0 | 0 | 0 | 0 | 274 | 783 | 0 | 46 | 441 | 0 | 199 | 55 | 0 | 945 | 384 | 67 | 168 | 3026 | 3194 |
| 07:45 AM | 0 | 0 | 0 | 0 | 264 | 781 | 0 | 41 | 429 | 0 | 191 | 52 | 0 | 977 | 509 | 50 | 143 | 3151 | 3294 |
| Total | 0 | 0 | 0 | 0 | 1179 | 2848 | 0 | 156 | 1587 | 0 | 796 | 200 | 0 | 3937 | 1442 | 226 | 591 | 11789 | 12380 |
| I | | | | | 1 | | | 156 | I | | | 209 | | | | 226 | | | |
| 08:00 AM | 0 | 0 | 0 | 0 | 240 | 754 | 0 | 42 | 432 | 0 | 194 | 66 | 0 | 866 | 550 | 61 | 169 | 3036 | 3205 |
| 08:15 AM | 0 | 0 | 0 | 0 | 211 | 700 | 0 | 65 | 363 | 0 | 166 | 56 | 0 | 758 | 432 | 70 | 191 | 2630 | 2821 |
| 08:30 AM | 0 | 0 | 0 | 0 | 187 | 724 | 0 | 54 | 421 | 0 | 128 | 66 | 0 | 772 | 416 | 67 | 187 | 2648 | 2835 |
| 08:45 AM | 0 | 0 | 0 | 0 | 165 | 705 | 0 | 64 | 396 | 0 | 139 | 58 | 0 | 670 | 412 | 66 | 188 | 2487 | 2675 |
| | | | | | | | | 0. | | | | - 50 | | | | | | | |
| Total | 0 | 0 | 0 | 0 | 803 | 2883 | 0 | 225 | 1612 | 0 | 627 | 246 | 0 | 3066 | 1810 | 264 | 735 | 10801 | 11536 |
| · | | | | | | | | | | | | | | | | | ' | | |
| | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| 03:00 PM | 0 | 0 | 0 | 0 | 158 | 821 | 0 | 28 | 451 | 0 | 202 | 22 | 0 | 713 | 416 | 68 | 118 | 2761 | 2879 |
| 03:15 PM | 0 | 0 | 0 | 0 | 168 | 815 | 0 | 19 | 597 | 0 | 251 | 36 | 0 | 729 | 440 | 60 | 115 | 3000 | 3115 |
| 03:30 PM | 0 | 0 | 0 | 0 | 178 | 930 | 0 | 27 | 636 | 0 | 355 | 24 | 0 | 814 | 467 | 58 | 109 | 3380 | 3489 |
| 03:45 PM | 0 | 0 | 0 | 0 | 183 | 918 | 0 | 55 | 1091 | 0 | 336 | 35 | 0 | 788 | 502 | 69 | 159 | 3818 | 3977 |
| Total | 0 | 0 | 0 | 0 | 687 | 3484 | 0 | | 2775 | 0 | 1144 | | 0 | 3044 | 1825 | | 501 | 12959 | 13460 |
| | | | | | | | | 129 | | | | 117 | | | | 255 | | | |
| 04:00 PM | 0 | 0 | 0 | 0 | 192 | 996 | 0 | 25 | 942 | 0 | 330 | 33 | 0 | 779 | 456 | 47 | 105 | 3695 | 3800 |
| 04:00 PM 04:15 PM | 0 | 0 | 0 | 0 | 185 | 1028 | 0 | 15 | 1295 | 0 | 305 | 36 | 0 | 744 | 510 | 56 | 103 | 4067 | 4174 |
| 04:13 PM 04:30 PM | 0 | 0 | 0 | | 208 | | | | 979 | - | 250 | | | | 540 | | I | | |
| 04:45 PM | 0 | 0 | 0 | 0 | 205 | 1152 1443 | 0 | 26 21 | 1119 | 0 | 208 | 31 30 | 0 | 727 706 | 551 | 56 52 | 113 103 | 3856 4232 | 3969 4335 |
| | | | | | | | | | | | | | | | | | | | |
| Total | 0 | 0 | 0 | 0 | 790 | 4619 | 0 | 87 | 4335 | 0 | 1093 | 130 | 0 | 2956 | 2057 | 211 | 428 | 15850 | 16278 |
| ' | | | | | , | | | | ' | | | | ' | | | | 1 | | |
| 05:00 PM | 0 | 0 | 0 | 0 | 197 | 1308 | 0 | 20 | 888 | 0 | 246 | 28 | 0 | 776 | 483 | 25 | 73 | 3898 | 3971 |
| 05:15 PM | 0 | 0 | 0 | 0 | 220 | 1402 | 0 | 21 | 1161 | 0 | 215 | 23 | 0 | 830 | 427 | 40 | 84 | 4255 | 4339 |
| 05:30 PM | 0 | 0 | 0 | 0 | 182 | 1223 | 0 | 19 | 760 | 0 | 184 | 21 | 0 | 836 | 368 | 32 | 72 | 3553 | 3625 |
| 05:45 PM | 0 | 0 | 0 | 0 | 184 | 1180 | 0 | 19 | 675 | 0 | 167 | 21 | 0 | 821 | 346 | 32 | 72 | 3373 | 3445 |
| Total | 0 | 0 | 0 | 0 | 783 | 5113 | 0 | 79 | 3484 | 0 | 812 | 93 | 0 | 3263 | 1624 | | 301 | 15079 | 15380 |
| 10tai | U | U | U | U | 763 | 3113 | U | 19 | 3464 | U | 012 | 93 | 0 | 3203 | 1024 | 129 | 301 | 13079 | 13360 |
| ı | | | | | I | | | | ı | | | | I | | | | I | | |
| | | | | | | | | | | | | 0.0.1 | | | | () () 1 | | | |
| C1.T1 | 0 | 0 | 0 | 0 | 57.00 | **** | 0 | | | 0 | 5000 | {\fs1 | | 10015 | 10505 | {\fs1 | 2100 | 77102 | 90202 |
| Grand Total | 0 | 0 | 0 | 0 | 5769 | 21190 | 0 | 777 | 15106 | 0 | 5080 | 5 | 0 | 19318 | 10720 | 121 | 3109 | 77183 | 80292 |
| | | | | | | | | | | | | 101 | | | | 131 | | | |
| A narch 0/ | 0 | 0 | 0 | | 21.4 | 78.6 | 0 | | 74.8 | 0 | 25.2 | 8} | 0 | 64.3 | 35.7 | 4} | | | |
| Apprch % Total % | 0 | 0 | 0 | | 7.5 | 78.6 27.5 | 0 | | 19.6 | 0 | 25.2 6.6 | | 0 | 25 | 33.7 13.9 | | 3.9 | 96.1 | |
| 10tai % | U | U | U | | 1.3 | 21.3 | U | | 19.0 | U | 0.0 | | ı U | 23 | 13.9 | | 3.9 | 90.1 | |

3656 E. Stratford Road Virginia Beach, VA 23455 (757) 464-5129

I-64 EIS counts Exit 264 - I-664

AM counted: 05/05/11 PM counted: 05/04/11

File Name: I-64 EIS #264

Site Code : 264 Start Date : 5/5/2011

Page No : 2

| | | | | | | I | -64 | | | I- | 664 | | | I | -64 | | |
|-----------------|------------|----------|----------|------------|----------|------|-------|------------|------|-------|-------|------------|------|-------|-------|------------|------------|
| | | South | bound | | | West | bound | | | North | bound | | | Eastl | bound | | |
| Start Time | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Int. Total |
| Peak Hour Analy | ysis Fron | n 06:00 | AM to 0 | 8:45 AM - | Peak 1 | of 1 | | | | | _ | | | | | | |
| Peak Hour for E | ntire Inte | rsection | Begins | at 07:15 A | M | | | | | | | | | | | | |
| 07:15 AM | 0 | 0 | 0 | 0 | 328 | 686 | 0 | 1014 | 374 | 0 | 199 | 573 | 0 | 1016 | 290 | 1306 | 2893 |
| 07:30 AM | 0 | 0 | 0 | 0 | 274 | 783 | 0 | 1057 | 441 | 0 | 199 | 640 | 0 | 945 | 384 | 1329 | 3026 |
| 07:45 AM | 0 | 0 | 0 | 0 | 264 | 781 | 0 | 1045 | 429 | 0 | 191 | 620 | 0 | 977 | 509 | 1486 | 3151 |
| 08:00 AM | 0 | 0 | 0 | 0 | 240 | 754 | 0 | 994 | 432 | 0 | 194 | 626 | 0 | 866 | 550 | 1416 | 3036 |
| Total Volume | 0 | 0 | 0 | 0 | 1106 | 3004 | 0 | 4110 | 1676 | 0 | 783 | 2459 | 0 | 3804 | 1733 | 5537 | 12106 |
| % App. Total | 0 | 0 | 0 | | 26.9 | 73.1 | 0 | | 68.2 | 0 | 31.8 | | 0 | 68.7 | 31.3 | | |
| PHF | .000 | .000 | .000 | .000 | .843 | .959 | .000 | .972 | .950 | .000 | .984 | .961 | .000 | .936 | .788 | .932 | .960 |
| Peak Hour Analy | ysis Fron | n 03:00 | PM to 05 | 5:45 PM - | Peak 1 o | of 1 | | | | | | | | | | | |
| Peak Hour for E | ntire Inte | rsection | Begins | at 04:30 P | M | | | | | | | | | | | | |
| 04:30 PM | 0 | 0 | 0 | 0 | 208 | 1152 | 0 | 1360 | 979 | 0 | 250 | 1229 | 0 | 727 | 540 | 1267 | 3856 |
| 04:45 PM | 0 | 0 | 0 | 0 | 205 | 1443 | 0 | 1648 | 1119 | 0 | 208 | 1327 | 0 | 706 | 551 | 1257 | 4232 |
| 05:00 PM | 0 | 0 | 0 | 0 | 197 | 1308 | 0 | 1505 | 888 | 0 | 246 | 1134 | 0 | 776 | 483 | 1259 | 3898 |
| 05:15 PM | 0 | 0 | 0 | 0 | 220 | 1402 | 0 | 1622 | 1161 | 0 | 215 | 1376 | 0 | 830 | 427 | 1257 | 4255 |
| Total Volume | 0 | 0 | 0 | 0 | 830 | 5305 | 0 | 6135 | 4147 | 0 | 919 | 5066 | 0 | 3039 | 2001 | 5040 | 16241 |
| % App. Total | 0 | 0 | 0 | | 13.5 | 86.5 | 0 | | 81.9 | 0 | 18.1 | | 0 | 60.3 | 39.7 | | |
| PHF | .000 | .000 | .000 | .000 | .943 | .919 | .000 | .931 | .893 | .000 | .919 | .920 | .000 | .915 | .908 | .994 | .954 |

I-64 EIS counts Exit 234 - Lightfoot 3656 E. Stratford Road Virginia Beach, VA 23455 (757) 464-5129

I-64 EIS #23401-02 Wknd Site Code: 23402 I64 WB on ramp fm WB Rt 199 Station ID: 23401 I64 WB off ramp to WB Rt 199

| Start | 11-Ju | l-11 | Tu | ue | W | ed | Th | าน | F | ri | | Sat | S | un | Week A | Average |
|----------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|--------|---------|
| Time | WB on | WB off | WB on | WB off |
| 12:00 AM | * | * | * | * | * | * | * | * | * | * | 3 | 51 | 6 | 50 | 4 | 50 |
| 01:00 | * | * | * | * | * | * | * | * | * | * | 0 | 41 | 0 | 27 | 0 | 34 |
| 02:00 | * | * | * | * | * | * | * | * | * | * | 1 | 23 | 1 | 15 | 1 | 19 |
| 03:00 | * | * | * | * | * | * | * | * | * | * | 1 | 22 | 1 | 20 | 1 | 21 |
| 04:00 | * | * | * | * | * | * | * | * | * | * | 4 | 18 | 3 | 16 | 4 | 17 |
| 05:00 | * | * | * | * | * | * | * | * | * | * | 2 | 40 | 4 | 24 | 3 | 32 |
| 06:00 | * | * | * | * | * | * | * | * | * | * | 16 | 127 | 19 | 69 | 18 | 98 |
| 07:00 | * | * | * | * | * | * | * | * | * | * | 31 | 155 | 15 | 98 | 23 | 126 |
| 08:00 | * | * | * | * | * | * | * | * | * | * | 44 | 224 | 31 | 146 | 38 | 185 |
| 09:00 | * | * | * | * | * | * | * | * | * | * | 40 | 272 | 33 | 165 | 36 | 218 |
| 10:00 | * | * | * | * | * | * | * | * | * | * | 49 | 344 | 36 | 308 | 42 | 326 |
| 11:00 | * | * | * | * | * | * | * | * | 35 | 412 | 40 | 308 | 46 | 327 | 40 | 349 |
| 12:00 PM | * | * | * | * | * | * | * | * | 31 | 448 | 44 | 368 | 33 | 340 | 36 | 385 |
| 01:00 | * | * | * | * | * | * | * | * | 27 | 451 | 21 | 411 | 28 | 359 | 25 | 407 |
| 02:00 | * | * | * | * | * | * | * | * | 27 | 444 | 33 | 383 | 35 | 436 | 32 | 421 |
| 03:00 | * | * | * | * | * | * | * | * | 28 | 429 | 30 | 475 | 26 | 342 | 28 | 415 |
| 04:00 | * | * | * | * | * | * | * | * | 29 | 446 | 28 | 352 | 28 | 326 | 28 | 375 |
| 05:00 | * | * | * | * | * | * | * | * | 28 | 419 | 26 | 350 | 35 | 299 | 30 | 356 |
| 06:00 | * | * | * | * | * | * | * | * | 35 | 372 | 25 | 311 | 22 | 236 | 27 | 306 |
| 07:00 | * | * | * | * | * | * | * | * | 21 | 289 | 16 | 294 | 22 | 207 | 20 | 263 |
| 08:00 | * | * | * | * | * | * | * | * | 20 | 216 | 27 | 228 | 26 | 156 | 24 | 200 |
| 09:00 | * | * | * | * | * | * | * | * | 21 | 175 | 16 | 161 | 25 | 121 | 21 | 152 |
| 10:00 | * | * | * | * | * | * | * | * | 11 | 177 | 18 | 142 | 4 | 123 | 11 | 147 |
| 11:00 | * | * | * | * | * | * | * | * | 9 | 86 | 15 | 99 | 3 | 53 | 9 | 79 |
| Lane | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 322 | 4364 | 530 | 5199 | 482 | 4263 | 501 | 4981 |
| Day | 0 | | 0 | | 0 | | 0 | | 468 | 6 | 572 | 29 | 474 | 5 | 548 | |
| AM Peak | | | | | | | | | 11:00 | 11:00 | 10:00 | 10:00 | 11:00 | 11:00 | 10:00 | 11:00 |
| Vol. | | | | | | | | | 35 | 412 | 49 | 344 | 46 | 327 | 42 | 349 |
| PM Peak | | | | | | | | | 18:00 | 13:00 | 12:00 | 15:00 | 14:00 | 14:00 | 12:00 | 14:00 |
| Vol. | | | | | | | | | 35 | 451 | 44 | 475 | 35 | 436 | 36 | 421 |

I-64 EIS counts Exit 234 - Lightfoot

ADT

ADT 5,237

AADT 5,237

3656 E. Stratford Road Virginia Beach, VA 23455 (757) 464-5129

I-64 EIS #23401-02 Wknd Site Code: 23402 I64 WB on ramp fm WB Rt 199 Station ID: 23401 I64 WB off ramp to WB Rt 199

| Start | 18-Ju | ıl-11 | Т | ue | W | 'ed | TI | nu | F | ri | S | at | Su | n | Week Av | erage |
|----------------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|---------|--------|
| Time | WB on | WB off | WB on | WB off |
| 12:00 AM | 0 | 27 | * | * | * | * | * | * | * | * | * | * | * | * | 0 | 27 |
| 01:00 | 2 | 10 | * | * | * | * | * | * | * | * | * | * | * | * | 2 | 10 |
| 02:00 | 2 | 12 | * | * | * | * | * | * | * | * | * | * | * | * | 2 | 12 |
| 03:00 | 1 | 16 | * | * | * | * | * | * | * | * | * | * | * | * | 1 | 16 |
| 04:00 | 4 | 19 | * | * | * | * | * | * | * | * | * | * | * | * | 4 | 19 |
| 05:00 | 8 | 63 | * | * | * | * | * | * | * | * | * | * | * | * | 8 | 63 |
| 06:00 | 25 | 226 | * | * | * | * | * | * | * | * | * | * | * | * | 25 | 226 |
| 07:00 | 29 | 284 | * | * | * | * | * | * | * | * | * | * | * | * | 29 | 284 |
| 08:00 | 26 | 354 | * | * | * | * | * | * | * | * | * | * | * | * | 26 | 354 |
| 09:00 | 22 | 297 | * | * | * | * | * | * | * | * | * | * | * | * | 22 | 297 |
| 10:00 | 27 | 300 | * | * | * | * | * | * | * | * | * | * | * | * | 27 | 300 |
| 11:00 | 21 | 320 | * | * | * | * | * | * | * | * | * | * | * | * | 21 | 320 |
| 12:00 PM | 22 | 383 | * | * | * | * | * | * | * | * | * | * | * | * | 22 | 383 |
| 01:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 02:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 03:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 04:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 05:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 06:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 07:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 08:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 09:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 10:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 11:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| Lane | 189 | 2311 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 189 | 2311 |
| Day | 250 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 2500 | |
| AM Peak | 07:00 | 08:00 | | | | | | | | | | | | | 07:00 | 08:00 |
| Vol. | 29 | 354 | | | | | | | | | | | | | 29 | 354 |
| PM Peak | 12:00 | 12:00 | | | | | | | | | | | | | 12:00 | 12:00 |
| Vol. | 22 | 383 | | | | | | | | | | | | | 22 | 383 |
| Comb. Total | | 2500 | | 0 | | 0 | | 0 | | 4686 | | 5729 | | 4745 | | 7982 |

I-64 EIS counts Exit 234 - Lightfoot 3656 E. Stratford Road Virginia Beach, VA 23455 (757) 464-5129

I-64 EIS #23403-04 Wknd Site Code: 23403 I64 WB on ramp fm EB Rt 646 Station ID: 23404 I64 WB off ramp to Rt 646

| Start | 11-Ju | l-11 | Tı | ue | W | ed | TI | nu | F | ri | 5 | Sat | S | un | Week A | verage |
|----------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|--------|--------|
| Time | WB on | WB off | WB on | WB off |
| 12:00 AM | * | * | * | * | * | * | * | * | * | * | 74 | 7 | 91 | 10 | 82 | 8 |
| 01:00 | * | * | * | * | * | * | * | * | * | * | 41 | 9 | 45 | 8 | 43 | 8 |
| 02:00 | * | * | * | * | * | * | * | * | * | * | 28 | 8 | 23 | 8 | 26 | 8 |
| 03:00 | * | * | * | * | * | * | * | * | * | * | 13 | 2 | 25 | 2 | 19 | 2 |
| 04:00 | * | * | * | * | * | * | * | * | * | * | 43 | 3 | 37 | 0 | 40 | 2 |
| 05:00 | * | * | * | * | * | * | * | * | * | * | 71 | 2 | 58 | 1 | 64 | 2 |
| 06:00 | * | * | * | * | * | * | * | * | * | * | 149 | 11 | 103 | 6 | 126 | 8 |
| 07:00 | * | * | * | * | * | * | * | * | * | * | 237 | 30 | 154 | 20 | 196 | 25 |
| 08:00 | * | * | * | * | * | * | * | * | * | * | 364 | 40 | 279 | 46 | 322 | 43 |
| 09:00 | * | * | * | * | * | * | * | * | * | * | 508 | 47 | 401 | 52 | 454 | 50 |
| 10:00 | * | * | * | * | * | * | * | * | * | * | 643 | 54 | 516 | 37 | 580 | 46 |
| 11:00 | * | * | * | * | * | * | * | * | 477 | 57 | 524 | 61 | 617 | 35 | 539 | 51 |
| 12:00 PM | * | * | * | * | * | * | * | * | 455 | 75 | 546 | 79 | 592 | 60 | 531 | 71 |
| 01:00 | * | * | * | * | * | * | * | * | 474 | 82 | 525 | 69 | 622 | 79 | 540 | 77 |
| 02:00 | * | * | * | * | * | * | * | * | 485 | 82 | 566 | 67 | 651 | 82 | 567 | 77 |
| 03:00 | * | * | * | * | * | * | * | * | 537 | 76 | 567 | 85 | 590 | 55 | 565 | 72 |
| 04:00 | * | * | * | * | * | * | * | * | 533 | 108 | 517 | 71 | 508 | 79 | 519 | 86 |
| 05:00 | * | * | * | * | * | * | * | * | 515 | 88 | 514 | 50 | 505 | 75 | 511 | 71 |
| 06:00 | * | * | * | * | * | * | * | * | 456 | 76 | 443 | 60 | 473 | 56 | 457 | 64 |
| 07:00 | * | * | * | * | * | * | * | * | 389 | 64 | 439 | 62 | 448 | 46 | 425 | 57 |
| 08:00 | * | * | * | * | * | * | * | * | 341 | 49 | 454 | 59 | 295 | 46 | 363 | 51 |
| 09:00 | * | * | * | * | * | * | * | * | 408 | 58 | 424 | 42 | 234 | 43 | 355 | 48 |
| 10:00 | * | * | * | * | * | * | * | * | 235 | 36 | 288 | 31 | 137 | 31 | 220 | 33 |
| 11:00 | * | * | * | * | * | * | * | * | 176 | 21 | 176 | 27 | 89 | 13 | 147 | 20 |
| Lane | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5481 | 872 | 8154 | 976 | 7493 | 890 | 7691 | 980 |
| Day | 0 | | 0 | | 0 | | 0 | | 635 | | 913 | 30 | 838 | | 867 | |
| AM Peak | | | | | | | | | 11:00 | 11:00 | 10:00 | 11:00 | 11:00 | 09:00 | 10:00 | 11:00 |
| Vol. | | | | | | | | | 477 | 57 | 643 | 61 | 617 | 52 | 580 | 51_ |
| PM Peak | | | | | | | | | 15:00 | 16:00 | 15:00 | 15:00 | 14:00 | 14:00 | 14:00 | 16:00 |
| Vol. | | | | | | | | | 537 | 108 | 567 | 85 | 651 | 82 | 567 | 86 |

I-64 EIS counts Exit 234 - Lightfoot 3656 E. Stratford Road Virginia Beach, VA 23455 (757) 464-5129

I-64 EIS #23403-04 Wknd Site Code: 23403 I64 WB on ramp fm EB Rt 646 Station ID: 23404 I64 WB off ramp to Rt 646

| Start | 18-Jı | ul-11 | Т | ue | We | ed | Т | hu | F | ri | S | at | Sı | ın | Week / | Average |
|----------------|-------|--------|-------|--------|-----------|--------|-------|--------|-------|--------|-------|--------|-------|--------|--------|---------|
| Time | WB on | WB off | WB on | WB off | WB on | WB off | WB on | WB off | WB on | WB off | WB on | WB off | WB on | WB off | WB on | WB off |
| 12:00 AM | 50 | 9 | * | * | * | * | * | * | * | * | * | * | * | * | 50 | 9 |
| 01:00 | 29 | 4 | * | * | * | * | * | * | * | * | * | * | * | * | 29 | 4 |
| 02:00 | 10 | 2 | * | * | * | * | * | * | * | * | * | * | * | * | 10 | 2 |
| 03:00 | 24 | 1 | * | * | * | * | * | * | * | * | * | * | * | * | 24 | 1 |
| 04:00 | 62 | 3 | * | * | * | * | * | * | * | * | * | * | * | * | 62 | 3 |
| 05:00 | 91 | 2 | * | * | * | * | * | * | * | * | * | * | * | * | 91 | 2 |
| 06:00 | 241 | 9 | * | * | * | * | * | * | * | * | * | * | * | * | 241 | 9 |
| 07:00 | 411 | 32 | * | * | * | * | * | * | * | * | * | * | * | * | 411 | 32 |
| 08:00 | 339 | 28 | * | * | * | * | * | * | * | * | * | * | * | * | 339 | 28 |
| 09:00 | 289 | 34 | * | * | * | * | * | * | * | * | * | * | * | * | 289 | 34 |
| 10:00 | 349 | 34 | * | * | * | * | * | * | * | * | * | * | * | * | 349 | 34 |
| 11:00 | 389 | 38 | * | * | * | * | * | * | * | * | * | * | * | * | 389 | 38 |
| 12:00 PM | 376 | 36 | * | * | * | * | * | * | * | * | * | * | * | * | 376 | 36 |
| 01:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 02:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 03:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 04:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 05:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 06:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 07:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 08:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 09:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 10:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 11:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| Lane | 2660 | 232 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2660 | 232 |
| Day | 28 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 289 | |
| AM Peak | 07:00 | 11:00 | | | | | | | | | | | | | 07:00 | 11:00 |
| Vol. | 411 | 38 | | | | | | | | | | | | | 411 | 38 |
| PM Peak | 12:00 | 12:00 | | | | | | | | | | | | | 12:00 | 12:00 |
| Vol. | 376 | 36 | | | | | | | | | | | | | 376 | 36 |
| Comb. Total | | 2892 | | 0 | | 0 | | 0 | | 6353 | | 9130 | | 8383 | | 11563 |
| ADT | | ADT 8 | 3,756 | A | ADT 8,756 | | | | | | | | | | | |

I-64 EIS counts Exit 234 - Lightfoot 3656 E. Stratford Road Virginia Beach, VA 23455 (757) 464-5129

I-64 EIS #23406 Wknd #20 Site Code: 23406 I64 EB on ramp fm Rt 199 Station ID:

| Start | Mon | Tue | Wed | Thu | Fri | Average | Sat | Sun | Week |
|-----------|----------------|-----------|-----------|-----------|-----------|---------|-----------|-----------|---------|
| Time | 11-Jul-11 * | 12-Jul-11 | 13-Jul-11 | 14-Jul-11 | 15-Jul-11 | Day | 16-Jul-11 | 17-Jul-11 | Average |
| 12:00 AM | | * | * | * | * | * | 66 | 33 | 50 |
| 01:00 | * | * | * | * | * | * | 43 | 32 | 38 |
| 02:00 | * | * | * | * | * | * | 19 | 22 | 20 📃 |
| 03:00 | * | * | * | * | * | * | 32 | 18 | 25 📃 |
| 04:00 | * | * | * | * | * | * | 27 | 22 | 24 🗌 |
| 05:00 | * | * | * | * | * | * | 48 | 23 | 36 |
| 06:00 | * | * | * | * | * | * | 105 | 46 | 76 |
| 07:00 | * | * | * | * | * | * | 226 | 123 | 174 |
| 08:00 | * | * | * | * | * | * | 277 | 184 | 230 |
| 09:00 | * | * | * | * | * | * | 353 | 237 | 295 |
| 10:00 | * | * | * | * | * | * | 364 | 290 | 327 |
| 11:00 | * | * | * | * | 394 | 394 | 374 | 335 | 368 |
| 12:00 PM | * | * | * | * | 424 | 424 | 384 | 355 | 388 |
| 01:00 | * | * | * | * | 390 | 390 | 386 | 328 | 368 |
| 02:00 | * | * | * | * | 403 | 403 | 400 | 296 | 366 |
| 03:00 | * | * | * | * | 402 | 402 | 366 | 353 | 374 |
| 04:00 | * | * | * | * | 369 | 369 | 368 | 340 | 359 |
| 05:00 | * | * | * | * | 404 | 404 | 383 | 316 | 368 |
| 06:00 | * | * | * | * | 287 | 287 | 325 | 301 | 304 |
| 07:00 | * | * | * | * | 281 | 281 | 313 | 243 | 279 |
| 08:00 | * | * | * | * | 232 | 232 | 240 | 188 | 220 |
| 09:00 | * | * | * | * | 246 | 246 | 238 | 168 | 217 |
| 10:00 | * | * | * | * | 175 | 175 | 154 | 111 | 147 |
| 11:00 | * | * | * | * | 126 | 126 | 85 | 62 | 91 |
| Day Total | 0 | 0 | 0 | 0 | 4133 | 4133 | 5576 | 4426 | 5144 |
| % Avg. | | | | | | | 00.0 | | · · · · |
| WkDay | 0.0% | 0.0% | 0.0% | 0.0% | 100.0% | | | | |
| Avg. Week | 0.0% | 0.0% | 0.0% | 0.0% | 80.3% | 80.3% | 108.4% | 86.0% | |
| AM Peak | | | | | 11:00 | 11:00 | 11:00 | 11:00 | 11:00 |
| Vol. | | | | | 394 | 394 | 374 | 335 | 368 |
| PM Peak | | | | | 12:00 | 12:00 | 14:00 | 12:00 | 12:00 |
| Vol. | | | | | 424 | 424 | 400 | 355 | 388 |

I-64 EIS counts Exit 234 - Lightfoot

ADT

ADT 5,001

AADT 5,001

3656 E. Stratford Road Virginia Beach, VA 23455 (757) 464-5129

I-64 EIS #23406 Wknd #20 Site Code: 23406 I64 EB on ramp fm Rt 199 Station ID:

| Start | Mon | Tue | Wed | Thu | Fri | Average | | Sun | Week |
|-------------|-----------|-----------|-----------|-----------|-----------|---------|-----------|-----------|---------|
| Time | 18-Jul-11 | 19-Jul-11 | 20-Jul-11 | 21-Jul-11 | 22-Jul-11 | Day | 23-Jul-11 | 24-Jul-11 | Average |
| 12:00 AM | 55 | * | * | * | * | 55 | * | * | 55 🔲 |
| 01:00 | 23 | * | * | * | * | 23 | * | * | 23 |
| 02:00 | 22 | * | * | * | * | 22 | * | * | 22 📙 |
| 03:00 | 10 | * | * | * | * | 10 | * | * | 10] |
| 04:00 | 48 | * | * | * | * | 48 | * | * | 48 |
| 05:00 | 143 | * | * | * | * | 143 | * | * | 143 |
| 06:00 | 324 | * | * | * | * | 324 | * | * | 324 |
| 07:00 | 453 | * | * | * | * | 453 | * | * | 453 |
| 08:00 | 332 | * | * | * | * | 332 | * | * | 332 |
| 09:00 | 312 | * | * | * | * | 312 | * | * | 312 |
| 10:00 | 345 | * | * | * | * | 345 | * | * | 345 |
| 11:00 | 356 | * | * | * | * | 356 | * | * | 356 |
| 12:00 PM | 352 | * | * | * | * | 352 | * | * | 352 |
| 01:00 | * | * | * | * | * | * | * | * | * |
| 02:00 | * | * | * | * | * | * | * | * | * |
| 03:00 | * | * | * | * | * | * | * | * | * |
| 04:00 | * | * | * | * | * | * | * | * | * |
| 05:00 | * | * | * | * | * | * | * | * | * |
| 06:00 | * | * | * | * | * | * | * | * | * |
| 07:00 | * | * | * | * | * | * | * | * | * |
| 08:00 | * | * | * | * | * | * | * | * | * |
| 09:00 | * | * | * | * | * | * | * | * | * |
| 10:00 | * | * | * | * | * | * | * | * | * |
| 11:00 | * | * | * | * | * | * | * | * | * |
| Day Total | 2775 | 0 | 0 | 0 | 0 | 2775 | 0 | 0 | 2775 |
| % Avg. | | 0.0% | 0.00/ | 0.00/ | 0.00/ | | | | |
| WkDay | 100.0% | | 0.0% | 0.0% | 0.0% | | | | |
| 6 Avg. Week | 100.0% | 0.0% | 0.0% | 0.0% | 0.0% | 100.0% | 0.0% | 0.0% | |
| AM Peak | 07:00 | | | | | 07:00 | | | 07:00 |
| Vol. | 453 | | | | | 453 | | | 453 |
| PM Peak | 12:00 | | | | | 12:00 | | | 12:00 |
| Vol. | 352 | | | | | 352 | | | 352 |
| Grand Total | 2 | 2775 | 0 | 0 | 0 4133 | 3 | 6908 5 | 5576 44 | 7919 |

I-64 EIS counts Exit 234 - Lightfoot 3656 E. Stratford Road Virginia Beach, VA 23455 (757) 464-5129

I-64 EIS #23407 Wknd Site Code: 23407 I64 EB off ramp to Rt 199 Station ID:

| Start | Mon | Tue | Wed | Thu | Fri | Average | Sat | Sun | Week |
|-------------|-----------|-----------|-----------|-----------|-----------|---------|-----------|-----------|---------|
| Time | 11-Jul-11 | 12-Jul-11 | 13-Jul-11 | 14-Jul-11 | 15-Jul-11 | Day | 16-Jul-11 | 17-Jul-11 | Average |
| 12:00 AM | * | * | * | * | * | * | 131 | 99 | 115 |
| 01:00 | * | * | * | * | * | * | 52 | 58 | 55 📃 |
| 02:00 | * | * | * | * | * | * | 36 | 26 | 31 🔲 |
| 03:00 | * | * | * | * | * | * | 25 | 23 | 24] |
| 04:00 | * | * | * | * | * | * | 41 | 20 | 30 🛮 |
| 05:00 | * | * | * | * | * | * | 45 | 25 | 35 📘 |
| 06:00 | * | * | * | * | * | * | 164 | 89 | 126 |
| 07:00 | * | * | * | * | * | * | 259 | 161 | 210 |
| 08:00 | * | * | * | * | * | * | 386 | 250 | 318 |
| 09:00 | * | * | * | * | * | * | 498 | 315 | 406 |
| 10:00 | * | * | * | * | * | * | 503 | 435 | 469 |
| 11:00 | * | * | * | * | 570 | 570 | 579 | 539 | 563 |
| 12:00 PM | * | * | * | * | 609 | 609 | 634 | 612 | 618 |
| 01:00 | * | * | * | * | 625 | 625 | 604 | 729 | 653 |
| 02:00 | * | * | * | * | 547 | 547 | 628 | 621 | 599 |
| 03:00 | * | * | * | * | 543 | 543 | 591 | 620 | 585 |
| 04:00 | * | * | * | * | 587 | 587 | 622 | 570 | 593 |
| 05:00 | * | * | * | * | 653 | 653 | 458 | 594 | 568 |
| 06:00 | * | * | * | * | 605 | 605 | 550 | 455 | 537 |
| 07:00 | * | * | * | * | 454 | 454 | 465 | 361 | 427 |
| 08:00 | * | * | * | * | 424 | 424 | 337 | 282 | 348 |
| 09:00 | * | * | * | * | 313 | 313 | 290 | 238 | 280 |
| 10:00 | * | * | * | * | 257 | 257 | 217 | 175 | 216 |
| 11:00 | * | * | * | * | 209 | 209 | 178 | 120 | 169 |
| Day Total | 0 | 0 | 0 | 0 | 6396 | 6396 | 8293 | 7417 | 7975 |
| % Avg. | 0.0% | 0.0% | 0.0% | 0.0% | 100.0% | | | | |
| WkDay | | | | | | | | | |
| 6 Avg. Week | 0.0% | 0.0% | 0.0% | 0.0% | 80.2% | 80.2% | 104.0% | 93.0% | |
| AM Peak | | | | | 11:00 | 11:00 | 11:00 | 11:00 | 11:00 |
| Vol. | | | | | 570 | 570 | 579 | 539 | 563 |
| PM Peak | | | | | 17:00 | 17:00 | 12:00 | 13:00 | 13:00 |
| Vol. | | | | | 653 | 653 | 634 | 729 | 653 |

I-64 EIS counts Exit 234 - Lightfoot

ADT

ADT 7,855

AADT 7,855

3656 E. Stratford Road Virginia Beach, VA 23455 (757) 464-5129

I-64 EIS #23407 Wknd Site Code: 23407 I64 EB off ramp to Rt 199 Station ID:

| Start | Mon | Tue | Wed | Thu | Fri | Average | | Sun | Week |
|-------------|-----------|-----------|-----------|-----------|-----------|---------|-----------|-----------|-----------|
| Time | 18-Jul-11 | 19-Jul-11 | 20-Jul-11 | 21-Jul-11 | 22-Jul-11 | Day | 23-Jul-11 | 24-Jul-11 | Average |
| 12:00 AM | 70 | * | * | * | * | 70 | * | * | 70 |
| 01:00 | 43 | * | * | * | * | 43 | * | * | 43 |
| 02:00 | 32 | * | * | * | * | 32 | * | * | 32 🔲 |
| 03:00 | 21 | * | * | * | * | 21 | * | * | 21] |
| 04:00 | 32 | * | * | * | * | 32 | * | * | 32 |
| 05:00 | 97 | * | * | * | * | 97 | * | * | 97 |
| 06:00 | 284 | * | * | * | * | 284 | * | * | 284 |
| 07:00 | 482 | * | * | * | * | 482 | * | * | 482 |
| 08:00 | 526 | * | * | * | * | 526 | * | * | 526 |
| 09:00 | 480 | * | * | * | * | 480 | * | * | 480 |
| 10:00 | 449 | * | * | * | * | 449 | * | * | 449 |
| 11:00 | 498 | * | * | * | * | 498 | * | * | 498 |
| 12:00 PM | 533 | * | * | * | * | 533 | * | * | 533 |
| 01:00 | * | * | * | * | * | * | * | * | * |
| 02:00 | * | * | * | * | * | * | * | * | * |
| 03:00 | * | * | * | * | * | * | * | * | * |
| 04:00 | * | * | * | * | * | * | * | * | * |
| 05:00 | * | * | * | * | * | * | * | * | * |
| 06:00 | * | * | * | * | * | * | * | * | * |
| 07:00 | * | * | * | * | * | * | * | * | * |
| 08:00 | * | * | * | * | * | * | * | * | * |
| 09:00 | * | * | * | * | * | * | * | * | * |
| 10:00 | * | * | * | * | * | * | * | * | * |
| 11:00 | * | * | * | * | * | * | * | * | * |
| Day Total | 3547 | 0 | 0 | 0 | 0 | 3547 | 0 | 0 | 3547 |
| % Avg. | | | | | - , | 2017 | | | |
| WkDay | 100.0% | 0.0% | 0.0% | 0.0% | 0.0% | | | | |
| Avg. Week | 100.0% | 0.0% | 0.0% | 0.0% | 0.0% | 100.0% | 0.0% | 0.0% | |
| AM Peak | 08:00 | | | | | 08:00 | | | 08:00 |
| Vol. | 526 | | | | | 526 | | | 526 |
| PM Peak | 12:00 | | | | | 12:00 | | | 12:00 |
| Vol. | 533 | | | | | 533 | | | 533 |
| Grand Total | | 3547 | 0 | 0 | 0 6396 | | 9943 8 | 293 7 | 417 11522 |

I-64 EIS counts Exit 234 - Lightfoot 3656 E. Stratford Road Virginia Beach, VA 23455 (757) 464-5129

I-64 EIS #23409 Wknd Site Code: 23409 Rt 199 NB-SB Station ID: S of EB off, N off EB on fm NB

| Start | 11-Jul-1 | 1 | Tu | <u>е</u> | We | d | Thu | | | Fri | - ; | Sat | | Sun | Week A | verage |
|----------|----------|----|----|----------|----|----|-----|----|-------|-------|-------|-------|-------|-------|--------|--------|
| Time | NB | SB | NB | SB | NB | SB | NB | SB | NB | SB | NB | SB | NB | SB | NB | ŠB |
| 12:00 AM | * | * | * | * | * | * | * | * | * | * | 98 | 73 | 114 | 62 | 106 | 68 |
| 01:00 | * | * | * | * | * | * | * | * | * | * | 56 | 48 | 64 | 35 | 60 | 42 |
| 02:00 | * | * | * | * | * | * | * | * | * | * | 33 | 35 | 26 | 29 | 30 | 32 |
| 03:00 | * | * | * | * | * | * | * | * | * | * | 19 | 24 | 31 | 30 | 25 | 27 |
| 04:00 | * | * | * | * | * | * | * | * | * | * | 44 | 23 | 43 | 19 | 44 | 21 |
| 05:00 | * | * | * | * | * | * | * | * | * | * | 78 | 56 | 60 | 27 | 69 | 42 |
| 06:00 | * | * | * | * | * | * | * | * | * | * | 171 | 179 | 114 | 97 | 142 | 138 |
| 07:00 | * | * | * | * | * | * | * | * | * | * | 274 | 232 | 191 | 151 | 232 | 192 |
| 08:00 | * | * | * | * | * | * | * | * | * | * | 444 | 355 | 341 | 254 | 392 | 304 |
| 09:00 | * | * | * | * | * | * | * | * | * | * | 622 | 436 | 502 | 310 | 562 | 373 |
| 10:00 | * | * | * | * | * | * | * | * | * | * | 778 | 501 | 638 | 477 | 708 | 489 |
| 11:00 | * | * | * | * | * | * | * | * | 610 | 578 | 670 | 486 | 740 | 475 | 673 | 513 |
| 12:00 PM | * | * | * | * | * | * | * | * | 622 | 601 | 711 | 564 | 792 | 530 | 708 | 565 |
| 01:00 | * | * | * | * | * | * | * | * | 615 | 593 | 670 | 585 | 824 | 569 | 703 | 582 |
| 02:00 | * | * | * | * | * | * | * | * | 646 | 600 | 745 | 537 | 812 | 596 | 734 | 578 |
| 03:00 | * | * | * | * | * | * | * | * | 735 | 556 | 736 | 633 | 733 | 465 | 735 | 551 |
| 04:00 | * | * | * | * | * | * | * | * | 772 | 611 | 676 | 498 | 672 | 561 | 707 | 557 |
| 05:00 | * | * | * | * | * | * | * | * | 752 | 598 | 682 | 514 | 643 | 435 | 692 | 516 |
| 06:00 | * | * | * | * | * | * | * | * | 650 | 517 | 602 | 465 | 640 | 365 | 631 | 449 |
| 07:00 | * | * | * | * | * | * | * | * | 543 | 409 | 579 | 411 | 591 | 334 | 571 | 385 |
| 08:00 | * | * | * | * | * | * | * | * | 492 | 317 | 593 | 337 | 406 | 233 | 497 | 296 |
| 09:00 | * | * | * | * | * | * | * | * | 522 | 251 | 526 | 222 | 329 | 174 | 459 | 216 |
| 10:00 | * | * | * | * | * | * | * | * | 340 | 202 | 357 | 189 | 200 | 165 | 299 | 185 |
| 11:00 | * | * | * | * | * | * | * | * | 226 | 122 | 228 | 128 | 130 | 74 | 195 | 108 |
| Lane | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7525 | 5955 | 10392 | 7531 | 9636 | 6467 | 9974 | 7229 |
| Day | 0 | | 0 | | 0 | | 0 | | 134 | 480 | 179 | 923 | 161 | 103 | 1720 | 3 |
| AM Peak | | | | | | | | | 11:00 | 11:00 | 10:00 | 10:00 | 11:00 | 10:00 | 10:00 | 11:00 |
| Vol. | | | | | | | | | 610 | 578 | 778 | 501 | 740 | 477 | 708 | 513 |
| PM Peak | | | | | | | | | 16:00 | 16:00 | 14:00 | 15:00 | 13:00 | 14:00 | 15:00 | 13:00 |
| Vol. | | | | | | | | | 772 | 611 | 745 | 633 | 824 | 596 | 735 | 582 |

I-64 EIS counts Exit 234 - Lightfoot

ADT

ADT 17,013

AADT 17,013

3656 E. Stratford Road Virginia Beach, VA 23455 (757) 464-5129

I-64 EIS #23409 Wknd Site Code: 23409 Rt 199 NB-SB Station ID: S of EB off, N off EB on fm NB

| Start | 18-Jı | ul-11 | Tu | e | We | ed | Th | u | F | ri | Sa | at | Su | n | Week Av | verage |
|----------------|-------|-------|----|----|----|----|----|----|----|-------|----|-------|----|-------|---------|--------|
| Time | NB | SB | NB | SB | NB | SB | NB | SB | NB | SB | NB | SB | NB | SB | NB | SB |
| 12:00 AM | 56 | 36 | * | * | * | * | * | * | * | * | * | * | * | * | 56 | 36 |
| 01:00 | 38 | 19 | * | * | * | * | * | * | * | * | * | * | * | * | 38 | 19 |
| 02:00 | 18 | 14 | * | * | * | * | * | * | * | * | * | * | * | * | 18 | 14 |
| 03:00 | 28 | 20 | * | * | * | * | * | * | * | * | * | * | * | * | 28 | 20 |
| 04:00 | 63 | 20 | * | * | * | * | * | * | * | * | * | * | * | * | 63 | 20 |
| 05:00 | 97 | 89 | * | * | * | * | * | * | * | * | * | * | * | * | 97 | 89 |
| 06:00 | 264 | 296 | * | * | * | * | * | * | * | * | * | * | * | * | 264 | 296 |
| 07:00 | 465 | 423 | * | * | * | * | * | * | * | * | * | * | * | * | 465 | 423 |
| 08:00 | 424 | 554 | * | * | * | * | * | * | * | * | * | * | * | * | 424 | 554 |
| 09:00 | 370 | 457 | * | * | * | * | * | * | * | * | * | * | * | * | 370 | 457 |
| 10:00 | 465 | 446 | * | * | * | * | * | * | * | * | * | * | * | * | 465 | 446 |
| 11:00 | 512 | 443 | * | * | * | * | * | * | * | * | * | * | * | * | 512 | 443 |
| 12:00 PM | 530 | 507 | * | * | * | * | * | * | * | * | * | * | * | * | 530 | 507 |
| 01:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 02:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 03:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 04:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 05:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 06:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 07:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 08:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 09:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 10:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 11:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| Lane | 3330 | 3324 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3330 | 3324 |
| Day | 66 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 6654 | |
| AM Peak | 11:00 | 08:00 | | | | | | | | | | | | | 11:00 | 08:00 |
| Vol. | 512 | 554 | | | | | | | | | | | | | 512 | 554 |
| PM Peak | 12:00 | 12:00 | | | | | | | | | | | | | 12:00 | 12:00 |
| Vol. | 530 | 507 | | | | | | | | | | | | | 530 | 507 |
| Comb. Total | | 6654 | | 0 | | 0 | | 0 | | 13480 | | 17923 | | 16103 | | 23857 |

3656 E. Stratford Road Virginia Beach, VA 23455

File Name: I-64 EIS #23411 SASU

(757) 464-5129

164 EIS

Exit 234 - Lightfoot Site Code : 23411
SA counted: 07/16/11 Start Date : 7/16/2011
SU counted: 07/17/11 Page No : 1

Groups Printed- All Vehicles

| | | Rt Southl | 199 bound | | | Westb | | - caps - | Inicu | | 199 bound | | I64 E | B off i | | Rt | | | |
|----------------------|------------|--------------|--------------|------|------|-------|-------|----------|-------|------------|--------------|------|------------|------------|--------------|------|--------------|--------------|------------|
| Start Time | Left | Thru | Right | Trks | Left | Thru | Right | Trks | Left | Thru | Right | Trks | Left | Thru | Right | Trks | Exclu. Total | Inclu. Total | Int. Total |
| 08:30 AM | 15 | 119 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 117 | 56 | 2 | 1 | 0 | 85 | 5 | 15 | 393 | 408 |
| 08:45 AM | 16 | 105 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 132 | 52 | 1 | 1 | 0 | 111 | 5 | 9 | 417 | 426 |
| Total | 31 | 224 | 0 | 11 | 0 | 0 | 0 | 0 | 0 | 249 | 108 | 3 | 2 | 0 | 196 | 10 | 24 | 810 | 834 |
| 09:00 AM | 13 | 108 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 159 | 79 | 8 | 3 | 0 | 109 | 6 | 17 | 471 | 488 |
| 09:15 AM | 17 | 119 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 174 | 83 | 10 | 4 | 0 | 127 | 7 | 22 | 524 | 546 |
| 09:30 AM | 11 | 104 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 156 | 64 | 8 | 3 | 0 | 142 | 5 | 19 | 480 | 499 |
| 09:45 AM | 17 | 133 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 152 | 69 | 3 | 1 | 1 | 135 | 1 | 5 | 508 | 513 |
| Total | 58 | 464 | 0 | 15 | 0 | 0 | 0 | 0 | 0 | 641 | 295 | 29 | 11 | 1 | 513 | 19 | 63 | 1983 | 2046 |
| 10:00 AM | 19 | 121 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 204 | 80 | 5 | 0 | 0 | 120 | 2 | 10 | 544 | 554 |
| 10:15 AM | 10 | 129 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 200 | 80 | 8 | 3 | 0 | 138 | 2 | 11 | 560 | 571 |
| 10:30 AM | 19 | 155 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 202 | 71 | 6 | 2 | 0 | 136 | 2 | 13 | 585 | 598 |
| 10:45 AM | 12 | 121 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 169 | 94 | 2 | 1 | 1 | 135 | 3 | 8 | 533 | 541 |
| Total | 60 | 526 | 0 | 12 | 0 | 0 | 0 | 0 | 0 | 775 | 325 | 21 | 6 | 1 | 529 | 9 | 42 | 2222 | 2264 |
| 11:00 AM | 20 | 119 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 178 | 86 | 7 | 7 | 0 | 122 | 4 | 16 | 532 | 548 |
| 11:15 AM | 7 | 124 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 180 | 64 | 4 | 2 | 0 | 171 | 7 | 15 | 548 | 563 |
| Total | 27 | 243 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 358 | 150 | 11 | 9 | 0 | 293 | 11 | 31 | 1080 | 1111 |
| 01:00 PM | 8 | 121 | 0 | 2 | 0 | 0 | 0 | 0 | 1 | 204 | 77 | 6 | 3 | 0 | 151 | 4 | 12 | 565 | 577 |
| 01:00 PM 01:15 PM | 10 | 138 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 183 | 65 | 2 | 3 | 0 | 124 | 2 | 4 | 523 | 527 |
| 01:30 PM | 7 | 126 | 0 | 4 | 0 | 0 | 0 | 0 | 1 | 158 | 76 | 1 | 7 | 0 | 202 | 3 | 8 | 577 | 585 |
| 01:45 PM | 9 | 152 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 190 | 67 | 2 | 4 | 1 | 203 | 3 | 5 | 626 | 631 |
| Total | 34 | 537 | 0 | 6 | 0 | 0 | 0 | 0 | 2 | 735 | 285 | 11 | 17 | 1 | 680 | 12 | 29 | 2291 | 2320 |
| 02:00 PM | 11 | 154 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 190 | 71 | 2 | 7 | 1 | 133 | 2 | 4 | 567 | 571 |
| 02:15 PM | 4 | 146 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 193 | 75 | 0 | 1 | 0 | 122 | 0 | 2 | 541 | 543 |
| 02:30 PM | 7 | 145 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 208 | 54 | 3 | 4 | 1 | 139 | 1 | 4 | 558 | 562 |
| 02:45 PM | 6 | 124 | 0 | 1 | ő | Ö | 0 | Ö | o o | 220 | 67 | 2 | 6 | 1 | 146 | 1 | 4 | 570 | 574 |
| Total | 28 | 569 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 811 | 267 | 7 | 18 | 3 | 540 | 4 | 14 | 2236 | 2250 |
| 03:00 PM | 6 | 116 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 179 | 93 | 2 | 3 | 2 | 148 | 1 | 3 | 547 | 550 |
| 03:15 PM | 10 | 112 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 180 | 84 | 5 | 10 | 1 | 137 | 2 | 8 | 534 | 542 |
| 03:30 PM | 8 | 105 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 174 | 59 | 5 | 2 | 0 | 138 | 2 | 7 | 486 | 493 |
| 03:45 PM | 12 | 128 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 164 | 77 | 6 | 7 | 0 | 145 | 2 | 10 | 533 | 543 |
| Total | 36 | 461 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 697 | 313 | 18 | 22 | 3 | 568 | 7 | 28 | 2100 | 2128 |
| Grand Total | 274 | 3024 | 0 | 59 | 0 | 0 | 0 | 0 | 2 | 4266 | 1743 | 100 | 85 | 9 | 3319 | 72 | 231 | 12722 | 12953 |
| Apprch % Total % | 8.3 2.2 | 91.7 23.8 | 0 0 | | 0 | 0 | 0 | | 0 0 | 71 33.5 | 29 13.7 | | 2.5 0.7 | 0.3 0.1 | 97.2 26.1 | | 1.8 | 98.2 | |

3656 E. Stratford Road Virginia Beach, VA 23455 (757) 464-5129

164 EIS

Exit 234 - Lightfoot SA counted: 07/16/11 SU counted: 07/17/11 File Name: I-64 EIS #23411 SASU

Site Code : 23411 Start Date : 7/16/2011

Page No : 2

| | | Rt | 199 | | | | | | | Rt | 199 | | I64 E | B off ra | mp to l | Rt 199 | |
|-----------------|------------|-----------|----------|------------|--------|------|-------|------------|------|-------|-------|------------|-------|----------|---------|------------|------------|
| | | South | bound | | | West | bound | | | North | bound | | | Eastl | bound | | |
| Start Time | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Int. Total |
| Peak Hour Analy | ysis Fror | n 08:30 | AM to 11 | :15 AM | Peak 1 | of 1 | | | | | | | | | | | |
| Peak Hour for E | ntire Inte | ersection | Begins a | t 10:00 A | M | | | | | | | | | | | | 1 |
| 10:00 AM | 19 | 121 | 0 | 140 | 0 | 0 | 0 | 0 | 0 | 204 | 80 | 284 | 0 | 0 | 120 | 120 | 544 |
| 10:15 AM | 10 | 129 | 0 | 139 | 0 | 0 | 0 | 0 | 0 | 200 | 80 | 280 | 3 | 0 | 138 | 141 | 560 |
| 10:30 AM | 19 | 155 | 0 | 174 | 0 | 0 | 0 | 0 | 0 | 202 | 71 | 273 | 2 | 0 | 136 | 138 | 585 |
| 10:45 AM | 12 | 121 | 0 | 133 | 0 | 0 | 0 | 0 | 0 | 169 | 94 | 263 | 1 | 1 | 135 | 137 | 533 |
| Total Volume | 60 | 526 | 0 | 586 | 0 | 0 | 0 | 0 | 0 | 775 | 325 | 1100 | 6 | 1 | 529 | 536 | 2222 |
| % App. Total | 10.2 | 89.8 | 0 | | 0 | 0 | 0 | | 0 | 70.5 | 29.5 | | 1.1 | 0.2 | 98.7 | | |
| PHF | .789 | .848 | .000 | .842 | .000 | .000 | .000 | .000 | .000 | .950 | .864 | .968 | .500 | .250 | .958 | .950 | .950 |
| | | | | | | | | | | | | | | | | | |
| Peak Hour Analy | - | | | | | f 1 | | | | | | | | | | | |
| Peak Hour for E | ntire Inte | ersection | Begins a | ıt 01:30 P | M | | | | | | | | | | | | |
| 01:30 PM | 7 | 126 | 0 | 133 | 0 | 0 | 0 | 0 | 1 | 158 | 76 | 235 | 7 | 0 | 202 | 209 | 577 |
| 01:45 PM | 9 | 152 | 0 | 161 | 0 | 0 | 0 | 0 | 0 | 190 | 67 | 257 | 4 | 1 | 203 | 208 | 626 |
| 02:00 PM | 11 | 154 | 0 | 165 | 0 | 0 | 0 | 0 | 0 | 190 | 71 | 261 | 7 | 1 | 133 | 141 | 567 |
| 02:15 PM | 4 | 146 | 0 | 150 | 0 | 0 | 0 | 0 | 0 | 193 | 75 | 268 | 1_ | 0 | 122 | 123 | 541 |
| Total Volume | 31 | 578 | 0 | 609 | 0 | 0 | 0 | 0 | 1 | 731 | 289 | 1021 | 19 | 2 | 660 | 681 | 2311 |
| % App. Total | 5.1 | 94.9 | 0 | | 0 | 0 | 0 | | 0.1 | 71.6 | 28.3 | | 2.8 | 0.3 | 96.9 | | |
| PHF | .705 | .938 | .000 | .923 | .000 | .000 | .000 | .000 | .250 | .947 | .951 | .952 | .679 | .500 | .813 | .815 | .923 |

3656 E. Stratford Road Virginia Beach, VA 23455 (757) 464-5129

I64 EIS Exit 234 - Lightfoot

SA counted: 07/16/11 SU counted: 07/17/11 File Name: I-64 EIS #23412 SASU

Site Code : 23412 Start Date : 7/16/2011

Page No : 1

Groups Printed- All Vehicles

| | | Southb | ound | | | Westh | ound | | | North | hound | | | Eastb | ound | | | | |
|-------------|------|----------|-------|------|------|-------|--------|------|------|-----------|-------|------|------|-------|----------------|------|-----------------|--------------|------------|
| Start Time | Left | Thru | Right | Trks | Left | Thru | Right | Trks | Left | Thru | Right | Trks | Left | Thru | Right | Trks | Exclu. Total | Inclu. Total | Int. Total |
| 08:30 AM | 0 | 42 | 1 | 0 | 3 | 0 | 0 | 0 | 11 | 16 | 0 | 0 | 0 | 0 | 12 | 0 | O Exclu. 1 otal | 85 | 85 |
| 08:45 AM | 1 | 38 | 4 | 0 | 1 | 1 | 1 | 0 | 15 | 17 | 0 | 0 | 1 | 0 | 5 | 0 | 0 | 84 | 84 |
| Total | 1 | 80 | 5 | 0 | 4 | 1 | 1 | 0 | 26 | 33 | 0 | 0 | 1 | 0 | 17 | 0 | 0 | 169 | 169 |
| 09:00 AM | 3 | 36 | 2 | 0 | 4 | 1 | 0 | 0 | 7 | 25 | 0 | 0 | 0 | 1 | 9 | 0 | 0 | 88 | 88 |
| 09:15 AM | 0 | 49 | 5 | 3 | 1 | 0 | 0 | 0 | 12 | 35 | 1 | 0 | 4 | 2 | 8 | 0 | 3 | 117 | 120 |
| 09:30 AM | 2 | 48 | 3 | 0 | 3 | 3 | 1 | 0 | 13 | 37 | 0 | ő | 3 | 1 | 6 | 0 | 0 | 120 | 120 |
| 09:45 AM | 2 | 32 | 3 | 0 | 4 | 0 | 0 | 0 | 12 | 20 | 2 | 0 | 2 | 4 | 14 | 0 | 0 | 95 | 95 |
| Total | 7 | 165 | 13 | 3 | 12 | 4 | 1 | 0 | 44 | 117 | 3 | 0 | 9 | 8 | 37 | 0 | 3 | 420 | 423 |
| 10:00 AM | 1 | 29 | 4 | 0 | 5 | 0 | 1 | 0 | 8 | 28 | 1 | 0 | 1 | 1 | 7 | 0 | 0 | 86 | 86 |
| 10:15 AM | 1 | 27 | 0 | 0 | 4 | 2 | 0 | 0 | 11 | 27 | 0 | 0 | 0 | 1 | 9 | 0 | 0 | 82 | 82 |
| 10:30 AM | 0 | 48 | 0 | 0 | 0 | 2 | 0 | 0 | 11 | 31 | 2 | 0 | 3 | 4 | 8 | 0 | 0 | 109 | 109 |
| 10:45 AM | 0 | 47 | 3 | 0 | 4 | 0 | 0 | 0 | 11 | 30 | 0 | 0 | 2 | 4 | 9 | 0 | 0 | 110 | 110 |
| Total | 2 | 151 | 7 | 0 | 13 | 4 | 1 | 0 | 41 | 116 | 3 | 0 | 6 | 10 | 33 | 0 | 0 | 387 | 387 |
| 11:00 AM | 0 | 32 | 1 | 0 | 3 | 1 | 0 | 0 | 19 | 52 | 3 | 0 | 2 | 2 | 12 | 0 | 0 | 127 | 127 |
| 11:15 AM | 2 | 23 | 0 | 0 | 0 | 1 | 0 | 0 | 7 | 26 | 1 | 0 | 1 | 0 | 9 | 0 | 0 | 70 | 70 |
| Total | 2 | 55 | 1 | 0 | 3 | 2 | 0 | 0 | 26 | 78 | 4 | 0 | 3 | 2 | 21 | 0 | 0 | 197 | 197 |
| 01:00 PM | 1 | 33 | 3 | 1 | 1 | 3 | 0 | 0 | 14 | 43 | 1 | 0 | 2 | 1 | 7 | 0 | 1 | 109 | 110 |
| 01:15 PM | 0 | 45 | 0 | 0 | 3 | 3 | 1 | 0 | 26 | 41 | 4 | 2 | 0 | 2 | 7 | 0 | 2 | 132 | 134 |
| 01:30 PM | 0 | 38 | 5 | 3 | 6 | 1 | 0 | 0 | 28 | 45 | 5 | 2 | 1 | 1 | 4 | 0 | 5 | 134 | 139 |
| 01:45 PM | 1 | 31 | 2 | 1 | 2 | 5 | 1 | 0 | 29 | 38 | 4 | 2 | 2 | 2 | 7 | 0 | 3 | 124 | 127 |
| Total | 2 | 147 | 10 | 5 | 12 | 12 | 2 | 0 | 97 | 167 | 14 | 6 | 5 | 6 | 25 | 0 | 11 | 499 | 510 |
| 02:00 PM | 1 | 24 | 4 | 1 | 0 | 1 | 5 | 0 | 41 | 37 | 1 | 1 | 2 | 2 | 5 | 0 | 2 | 123 | 125 |
| 02:15 PM | 1 | 39 | 0 | 0 | 4 | 3 | 1 | 0 | 25 | 44 | 0 | 0 | 3 | 5 | 10 | 0 | 0 | 135 | 135 |
| 02:30 PM | 0 | 25 | 0 | 0 | 4 | 5 | 1 | 0 | 17 | 39 | 1 | 0 | 1 | 1 | 12 | 0 | 0 | 106 | 106 |
| 02:45 PM | 0 | 22 | 2 | 0 | 0 | 3 | 1 | 0 | 17 | 38 | 1 | 0 | 4 | 0 | 6 | 1 | 1 | 94 | 95 |
| Total | 2 | 110 | 6 | 1 | 8 | 12 | 8 | 0 | 100 | 158 | 3 | 1 | 10 | 8 | 33 | 1 | 3 | 458 | 461 |
| 03:00 PM | 1 | 30 | 0 | 2 | 2 | 3 | 1 | 0 | 20 | 28 | 2 | 0 | 1 | 0 | 5 | 0 | 2 | 93 | 95 |
| 03:15 PM | 0 | 18 | 0 | 0 | 2 | 1 | 2 | 0 | 15 | 42 | 3 | 2 | 0 | 0 | 8 | 0 | 2 | 91 | 93 |
| 03:30 PM | 2 | 26 | 0 | 0 | 3 | 2 | 0 | 0 | 13 | 30 | 1 | 0 | 0 | 0 | 3 | 0 | 0 | 80 | 80 |
| 03:45 PM | 7 | 23 97 | 0 | 2 | 7 | 2 | 1 4 | 0 | 21 | 42 142 | 6 | 3 | 3 | 3 | <u>6</u> 22 | 0 | 5 | 104 | 105 |
| Total | . / | 9/ | 0 | 2 | , / | 8 | 4 | 0 | 69 | 142 | 6 | 3 | . 3 | 3 | 22 | 0 | . 5 | 368 | 373 |
| Grand Total | 23 | 805 | 42 | 11 | 59 | 43 | 17 | 0 | 403 | 811 | 33 | 10 | 37 | 37 | 188 | 1 | 22 | 2498 | 2520 |
| Apprch % | 2.6 | 92.5 | 4.8 | | 49.6 | 36.1 | 14.3 | | 32.3 | 65 | 2.6 | | 14.1 | 14.1 | 71.8 | | | | |
| Total % | 0.9 | 32.2 | 1.7 | | 2.4 | 1.7 | 0.7 | | 16.1 | 32.5 | 1.3 | | 1.5 | 1.5 | 7.5 | | 0.9 | 99.1 | |

3656 E. Stratford Road Virginia Beach, VA 23455 (757) 464-5129

164 EIS

Exit 234 - Lightfoot SA counted: 07/16/11 SU counted: 07/17/11 File Name: I-64 EIS #23412 SASU

Site Code : 23412 Start Date : 7/16/2011

Page No : 2

| | | ~ | | | | | _ | | | | | | | | _ | | |
|-----------------|------------|-----------|----------|------------|----------|------|-------|------------|------|-------|-------|------------|------|------|-------|------------|------------|
| | | South | bound | | | West | oound | | | North | bound | | | East | ound | | |
| Start Time | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Int. Total |
| Peak Hour Analy | ysis Fron | n 08:30 a | AM to 11 | :15 AM - | Peak 1 | of 1 | | | | | | | | | | | |
| Peak Hour for E | ntire Inte | rsection | Begins a | t 10:15 A | M | | | | | | | | | | | | |
| 10:15 AM | 1 | 27 | 0 | 28 | 4 | 2 | 0 | 6 | 11 | 27 | 0 | 38 | 0 | 1 | 9 | 10 | 82 |
| 10:30 AM | 0 | 48 | 0 | 48 | 0 | 2 | 0 | 2 | 11 | 31 | 2 | 44 | 3 | 4 | 8 | 15 | 109 |
| 10:45 AM | 0 | 47 | 3 | 50 | 4 | 0 | 0 | 4 | 11 | 30 | 0 | 41 | 2 | 4 | 9 | 15 | 110 |
| 11:00 AM | 0 | 32 | 1 | 33 | 3 | 1 | 0 | 4 | 19 | 52 | 3 | 74 | 2 | 2 | 12 | 16 | 127 |
| Total Volume | 1 | 154 | 4 | 159 | 11 | 5 | 0 | 16 | 52 | 140 | 5 | 197 | 7 | 11 | 38 | 56 | 428 |
| % App. Total | 0.6 | 96.9 | 2.5 | | 68.8 | 31.2 | 0 | | 26.4 | 71.1 | 2.5 | | 12.5 | 19.6 | 67.9 | | |
| PHF | .250 | .802 | .333 | .795 | .688 | .625 | .000 | .667 | .684 | .673 | .417 | .666 | .583 | .688 | .792 | .875 | .843 |
| | | | | | | | | | | | | | | | | | |
| Peak Hour Analy | ysis Fron | n 01:00 l | PM to 03 | :45 PM - | Peak 1 o | f 1 | | | | | | | | | | | |
| Peak Hour for E | ntire Inte | rsection | Begins a | t 01:30 P | M | | | | | | | | | | | | |
| 01:30 PM | 0 | 38 | 5 | 43 | 6 | 1 | 0 | 7 | 28 | 45 | 5 | 78 | 1 | 1 | 4 | 6 | 134 |
| 01:45 PM | 1 | 31 | 2 | 34 | 2 | 5 | 1 | 8 | 29 | 38 | 4 | 71 | 2 | 2 | 7 | 11 | 124 |
| 02:00 PM | 1 | 24 | 4 | 29 | 0 | 1 | 5 | 6 | 41 | 37 | 1 | 79 | 2 | 2 | 5 | 9 | 123 |
| 02:15 PM | 1 | 39 | 0 | 40 | 4 | 3 | 1 | 8 | 25 | 44 | 0 | 69 | 3 | 5 | 10 | 18 | 135 |
| Total Volume | 3 | 132 | 11 | 146 | 12 | 10 | 7 | 29 | 123 | 164 | 10 | 297 | 8 | 10 | 26 | 44 | 516 |
| % App. Total | 2.1 | 90.4 | 7.5 | | 41.4 | 34.5 | 24.1 | | 41.4 | 55.2 | 3.4 | | 18.2 | 22.7 | 59.1 | | |
| PHF | .750 | .846 | .550 | .849 | .500 | .500 | .350 | .906 | .750 | .911 | .500 | .940 | .667 | .500 | .650 | .611 | .956 |

I-64 EIS counts Exit 238 - Colonial Williamsburg 3656 E. Stratford Road Virginia Beach, VA 23455 (757) 464-5129

I-64 EIS #23801 Wknd

I-64 WB off ramp to Rt 143 NB I-64 WB off ramp to Rt 143 SB

| Start | 20-Ju | n-11 | Т | ue | W | ed | Т | hu | F | ri | , c | Sat | S | un | Week A | verage |
|----------|-----------|----------|---|----|----------|----|----------|----|-------|-------|-------|----------|----------|----------|----------|--------|
| Time | WB off NB | WB off S | | | WB off N | | WB off N | | | | | WB off S | WB off N | WB off S | WB off N | |
| 12:00 AM | * | * | * | * | * | * | * | * | * | * | 5 | 89 | 2 | 99 | 4 | 94 |
| 01:00 | * | * | * | * | * | * | * | * | * | * | 3 | 93 | 3 | 101 | 3 | 97 |
| 02:00 | * | * | * | * | * | * | * | * | * | * | 1 | 29 | 2 | 40 | 2 | 34 |
| 03:00 | * | * | * | * | * | * | * | * | * | * | 0 | 27 | 0 | 27 | 0 | 27 |
| 04:00 | * | * | * | * | * | * | * | * | * | * | 0 | 18 | 1 | 17 | 0 | 18 |
| 05:00 | * | * | * | * | * | * | * | * | * | * | 2 | 36 | 4 | 28 | 3 | 32 |
| 06:00 | * | * | * | * | * | * | * | * | * | * | 0 | 132 | 2 | 112 | 1 | 122 |
| 07:00 | * | * | * | * | * | * | * | * | * | * | 7 | 248 | 0 | 179 | 4 | 214 |
| 08:00 | * | * | * | * | * | * | * | * | * | * | 3 | 289 | 2 | 271 | 2 | 280 |
| 09:00 | * | * | * | * | * | * | * | * | 10 | 264 | 5 | 301 | 4 | 244 | 6 | 270 |
| 10:00 | * | * | * | * | * | * | * | * | 6 | 257 | 8 | 276 | 3 | 309 | 6 | 281 |
| 11:00 | * | * | * | * | * | * | * | * | 7 | 336 | 11 | 250 | 6 | 335 | 8 | 307 |
| 12:00 PM | * | * | * | * | * | * | * | * | 3 | 349 | 2 | 334 | 3 | 314 | 3 | 332 |
| 01:00 | * | * | * | * | * | * | * | * | 11 | 352 | 11 | 337 | 8 | 253 | 10 | 314 |
| 02:00 | * | * | * | * | * | * | * | * | 2 | 376 | 6 | 352 | 2 | 286 | 3 | 338 |
| 03:00 | * | * | * | * | * | * | * | * | 5 | 390 | 9 | 343 | 6 | 358 | 7 | 364 |
| 04:00 | * | * | * | * | * | * | * | * | 10 | 400 | 11 | 473 | 18 | 375 | 13 | 416 |
| 05:00 | * | * | * | * | * | * | * | * | 14 | 429 | 12 | 412 | 5 | 339 | 10 | 393 |
| 06:00 | * | * | * | * | * | * | * | * | 3 | 362 | 8 | 371 | 6 | 308 | 6 | 347 |
| 07:00 | * | * | * | * | * | * | * | * | 5 | 339 | 9 | 322 | 9 | 322 | 8 | 328 |
| 08:00 | * | * | * | * | * | * | * | * | 9 | 277 | 5 | 285 | 9 | 311 | 8 | 291 |
| 09:00 | * | * | * | * | * | * | * | * | 7 | 243 | 7 | 238 | 12 | 236 | 9 | 239 |
| 10:00 | * | * | * | * | * | * | * | * | 3 | 210 | 11 | 299 | 7 | 163 | 7 | 224 |
| 11:00 | * | * | * | * | * | * | * | * | 3 | 122 | 6 | 135 | 3 | 52 | 4 | 103 |
| Lane | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 98 | 4706 | 142 | 5689 | 117 | 5079 | 127 | 5465 |
| Day | 0 | | 0 | | 0 | | 0 | | 480 | | 583 | | 519 | | 559 | |
| AM Peak | | | | | | | | | 09:00 | 11:00 | 11:00 | 09:00 | 11:00 | 11:00 | 11:00 | 11:00 |
| Vol. | | | | | | | | | 10 | 336 | 11 | 301 | 6 | 335 | 8 | 307 |
| PM Peak | | | | | | | | | 17:00 | 17:00 | 17:00 | 16:00 | 16:00 | 16:00 | 16:00 | 16:00 |
| Vol. | | | | | | | | | 14 | 429 | 12 | 473 | 18 | 375 | 13 | 416 |

I-64 EIS counts Exit 238 - Colonial Williamsburg 3656 E. Stratford Road Virginia Beach, VA 23455 (757) 464-5129

I-64 EIS #23801 Wknd

I-64 WB off ramp to Rt 143 NB I-64 WB off ramp to Rt 143 SB

| Start | 27-Ju | | Τι | | We | | | hu | | ri | S | | | un | Week Av | /erage |
|-----------------|-----------|----------|----------|----------|-----------|----------|----------|----------|----------|----------|----------|----------|---|------|----------|--------|
| Time | WB off NB | WB off S | WB off N | WB off S | WB off N | WB off S | WB off N | WB off S | WB off N | WB off S | WB off N | WB off S | | | WB off N | |
| 12:00 AM | 0 | 59 | * | * | * | * | * | * | * | * | * | * | * | * | 0 | 59 |
| 01:00 | 2 | 23 | * | * | * | * | * | * | * | * | * | * | * | * | 2 | 23 |
| 02:00 | 0 | 16 | * | * | * | * | * | * | * | * | * | * | * | * | 0 | 16 |
| 03:00 | 1 | 9 | * | * | * | * | * | * | * | * | * | * | * | * | 1 | 9 |
| 04:00 | 2 | 24 | * | * | * | * | * | * | * | * | * | * | * | * | 2 | 24 |
| 05:00 | 21 | 59 | * | * | * | * | * | * | * | * | * | * | * | * | 21 | 59 |
| 06:00 | 29 | 189 | * | * | * | * | * | * | * | * | * | * | * | * | 29 | 189 |
| 07:00 | 24 | 312 | * | * | * | * | * | * | * | * | * | * | * | * | 24 | 312 |
| 08:00 | 17 | 371 | * | * | * | * | * | * | * | * | * | * | * | * | 17 | 371 |
| 09:00 | 9 | 276 | * | * | * | * | * | * | * | * | * | * | * | * | 9 | 276 |
| 10:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 11:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 12:00 PM | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 01:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 02:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 03:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 04:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 05:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 06:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 07:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 08:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 09:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 10:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 11:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| Lane | 105 | 1338 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 105 | 1338 |
| Day | 144 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 1443 | |
| AM Peak | 06:00 | 08:00 | | | | | | | | | | | | | 06:00 | 08:00 |
| Vol. | 29 | 371 | | | | | | | | | | | | | 29 | 371 |
| PM Peak Vol. | | | | | | | | | | | | | | | | |
| Comb Tota | | 1443 | | 0 | | 0 | | 0 | | 4804 | | 5831 | | 5196 | | 7035 |
| ADT | Γ | ADT 5 | 5,514 | A | ADT 5,514 | | | | | | | | | | | |

I-64 EIS counts Exit 238 - Colonial Williamsburg 3656 E. Stratford Road Virginia Beach, VA 23455 (757) 464-5129

I-64 EIS #23802 Wknd

I-64 WB on ramp fm NB Rt 143

| Start | Mon | Tue | Wed | Thu | Fri | Average | Sat | Sun | Week |
|-----------|----------------|----------------|----------------|----------------|----------------|---------|-----------|-----------|---------|
| Time | 20-Jun-11 * | 21-Jun-11 * | 22-Jun-11 * | 23-Jun-11 * | 24-Jun-11 * | Day * | 25-Jun-11 | 26-Jun-11 | Average |
| 12:00 AM | * | * | * | * | * | * | 25 | 32 | 28 |
| 01:00 | | * | * | * | * | * | 20 | 21 | 20 |
| 02:00 | * | * | * | * | * | * | 12 | 16 | 14 📗 |
| 03:00 | * | * | * | * | * | * | 10 | 16 | 13 📗 |
| 04:00 | | * | | * | | | 14 | 28 | 21 🔲 |
| 05:00 | * | * | * | * | * | * | 42 | 23 | 32 |
| 06:00 | | * | | | * | | 94 | 54 | 74 |
| 07:00 | * | | * | * | | * | 137 | 103 | 120 |
| 08:00 | * | * | * | * | * | * | 200 | 184 | 192 |
| 09:00 | * | * | * | * | 219 | 219 | 268 | 318 | 268 |
| 10:00 | * | * | * | * | 277 | 277 | 318 | 364 | 320 |
| 11:00 | * | * | * | * | 229 | 229 | 270 | 336 | 278 |
| 12:00 PM | * | * | * | * | 276 | 276 | 257 | 268 | 267 |
| 01:00 | * | * | * | * | 268 | 268 | 215 | 308 | 264 |
| 02:00 | * | * | * | * | 283 | 283 | 259 | 326 | 289 |
| 03:00 | * | * | * | * | 289 | 289 | 243 | 344 | 292 |
| 04:00 | * | * | * | * | 272 | 272 | 272 | 309 | 284 |
| 05:00 | * | * | * | * | 318 | 318 | 271 | 275 | 288 |
| 06:00 | * | * | * | * | 223 | 223 | 203 | 209 | 212 |
| 07:00 | * | * | * | * | 145 | 145 | 188 | 168 | 167 |
| 08:00 | * | * | * | * | 146 | 146 | 150 | 158 | 151 |
| 09:00 | * | * | * | * | 109 | 109 | 167 | 145 | 140 |
| 10:00 | * | * | * | * | 93 | 93 | 111 | 76 | 93 |
| 11:00 | * | * | * | * | 67 | 67 | 63 | 45 | 58 |
| Day Total | 0 | 0 | 0 | 0 | 3214 | 3214 | 3809 | 4126 | 3885 |
| % Avg. | | | | | | 0211 | 0007 | 1120 | 0000 |
| WkDay | 0.0% | 0.0% | 0.0% | 0.0% | 100.0% | | | | |
| Avg. Week | 0.0% | 0.0% | 0.0% | 0.0% | 82.7% | 82.7% | 98.0% | 106.2% | |
| AM Peak | | | | | 10:00 | 10:00 | 10:00 | 10:00 | 10:00 |
| Vol. | | | | | 277 | 277 | 318 | 364 | 320 |
| PM Peak | | | | | 17:00 | 17:00 | 16:00 | 15:00 | 15:00 |
| Vol. | | | | | 318 | 318 | 272 | 344 | 292 |

I-64 EIS counts Exit 238 - Colonial Williamsburg 3656 E. Stratford Road Virginia Beach, VA 23455 (757) 464-5129

I-64 EIS #23802 Wknd

I-64 WB on ramp fm NB Rt 143

| Start | Mon | Tue | Wed | Thu | Fri | Average | Sat | Sun | Week |
|-------------|-----------|-----------|-----------|-----------|------------|---------|-----------|-----------|---------|
| Time | 27-Jun-11 | 28-Jun-11 | 29-Jun-11 | 30-Jun-11 | 01-Jul-11 | Day | 02-Jul-11 | 03-Jul-11 | Average |
| 12:00 AM | 27 | * | * | * | * | 27 | * | * | 27 🔲 |
| 01:00 | 16 | * | * | * | * | 16 | * | * | 16 📃 |
| 02:00 | 16 | * | * | * | * | 16 | * | * | 16 🔲 |
| 03:00 | 7 | * | * | * | * | 7 | * | * | 7] |
| 04:00 | 26 | * | * | * | * | 26 | * | * | 26 |
| 05:00 | 53 | * | * | * | * | 53 | * | * | 53 |
| 06:00 | 86 | * | * | * | * | 86 | * | * | 86 |
| 07:00 | 150 | * | * | * | * | 150 | * | * | 150 |
| 08:00 | 179 | * | * | * | * | 179 | * | * | 179 |
| 09:00 | 224 | * | * | * | * | 224 | * | * | 224 |
| 10:00 | 207 | * | * | * | * | 207 | * | * | 207 |
| 11:00 | * | * | * | * | * | * | * | * | * |
| 12:00 PM | * | * | * | * | * | * | * | * | * |
| 01:00 | * | * | * | * | * | * | * | * | * |
| 02:00 | * | * | * | * | * | * | * | * | * |
| 03:00 | * | * | * | * | * | * | * | * | * |
| 04:00 | * | * | * | * | * | * | * | * | * |
| 05:00 | * | * | * | * | * | * | * | * | * |
| 06:00 | * | * | * | * | * | * | * | * | * |
| 07:00 | * | * | * | * | * | * | * | * | * |
| 08:00 | * | * | * | * | * | * | * | * | * |
| 09:00 | * | * | * | * | * | * | * | * | * |
| 10:00 | * | * | * | * | * | * | * | * | * |
| 11:00 | * | * | * | * | * | * | * | * | * |
| Day Total | 991 | 0 | 0 | 0 | 0 | 991 | 0 | 0 | 991 |
| % Avg. | 100.00/ | 0.00/ | 0.0% | 0.00/ | 0.0% | | | | |
| WkDay | 100.0% | 0.0% | | 0.0% | | | | | |
| % Avg. Week | 100.0% | 0.0% | 0.0% | 0.0% | 0.0% | 100.0% | 0.0% | 0.0% | |
| AM Peak | 09:00 | | | | | 09:00 | | | 09:00 |
| Vol. | 224 | | | | | 224 | | | 224 |
| PM Peak | | | | | | | | | |
| Vol. | | | | | | | | | |
| Grand Tota | 1 | 991 | 0 | 0 | 0 3214 | 4205 | 38 | 09 4126 | 4876 |
| | _ | 457 | 0.040 | | AART 0.040 | | | | |
| ADT | | ADT | 3,968 | | AADT 3,968 | | | | |

I-64 EIS counts Exit 238 - Colonial Williamsburg 3656 E. Stratford Road Virginia Beach, VA 23455 (757) 464-5129

I-64 EIS #23803 Wknd

I-64 WB on ramp fm SB Rt 143

| Start Time | Mon 20-Jun-11 | Tue 21-Jun-11 | Wed 22-Jun-11 | Thu 23-Jun-11 | Fri 24-Jun-11 | Average Day | Sat 25-Jun-11 | Sun 26-Jun-11 | Week Average |
|-----------------|------------------|------------------|------------------|------------------|------------------|----------------|-------------------|------------------|-----------------|
| 12:00 AM | * | * | * | * | * | * | <u>25-5411-11</u> | 0 | 0 |
| 01:00 | * | * | * | * | * | * | 1 | 1 | 1 1 |
| 02:00 | * | * | * | * | * | * | 0 | 0 | 0 |
| 03:00 | * | * | * | * | * | * | 0 | 0 | 0 |
| 04:00 | * | * | * | * | * | * | 1 | 0 | 0 |
| 05:00 | * | * | * | * | * | * | 0 | 0 | 0 |
| 06:00 | * | * | * | * | * | * | 3 | 2 | 2 🔲 |
| 07:00 | * | * | * | * | * | * | 7 | 8 | 8 |
| 08:00 | * | * | * | * | * | * | 8 | 14 | 11 |
| 09:00 | * | * | * | * | 16 | 16 | 9 | 7 | 11 |
| 10:00 | * | * | * | * | 24 | 24 | 12 | 7 | 14 |
| 11:00 | * | * | * | * | 50 | 50 | 12 | 8 | 23 |
| 12:00 PM | * | * | * | * | 56 | 56 | 10 | 7 | 24 |
| 01:00 | * | * | * | * | 57 | 57 | 6 | 6 | 23 |
| 02:00 | * | * | * | * | 52 | 52 | 9 | 7 | 23 |
| 03:00 | * | * | * | * | 46 | 46 | 7 | 3 | 19 |
| 04:00 | * | * | * | * | 36 | 36 | 5 | 12 | 18 |
| 05:00 | * | * | * | * | 13 | 13 | 4 | 4 | 7 |
| 06:00 | * | * | * | * | 11 | 11 | 6 | 5 | 7 |
| 07:00 | * | * | * | * | 4 | 4 | 3 | 7 | 5 |
| 08:00 | * | * | * | * | 5 | 5 | 1 | 4 | 3 |
| 09:00 | * | * | * | * | 3 | 3 | 4 | 3 | 3 |
| 10:00 | * | * | * | * | 6 | 6 | 6 | 10 | 7 |
| 11:00 | * | * | * | * | 1 | 1 | 0 | 1 | 1] |
| Day Total | 0 | 0 | 0 | 0 | 380 | 380 | 115 | 116 | 210 |
| % Avg. WkDay | 0.0% | 0.0% | 0.0% | 0.0% | 100.0% | | | | |
| Avg. Week | 0.0% | 0.0% | 0.0% | 0.0% | 181.0% | 181.0% | 54.8% | 55.2% | |
| AM Peak | | | | | 11:00 | 11:00 | 10:00 | 08:00 | 11:00 |
| Vol. | | | | | 50 | 50 | 12 | 14 | 23 |
| PM Peak | | | | | 13:00 | 13:00 | 12:00 | 16:00 | 12:00 |
| Vol. | | | | | 57 | 57 | 10 | 12 | 24 |

I-64 EIS counts Exit 238 - Colonial Williamsburg 3656 E. Stratford Road Virginia Beach, VA 23455 (757) 464-5129

I-64 EIS #23803 Wknd

I-64 WB on ramp fm SB Rt 143

| Start | Mon | Tue | Wed | Thu | Fri | Average | s Sat | Sun | Week | |
|-------------|-----------|-----------|-----------|-----------|-----------|---------|-----------|------|-------|-----|
| Time | 27-Jun-11 | 28-Jun-11 | 29-Jun-11 | 30-Jun-11 | 01-Jul-11 | Day | 02-Jul-11 | | | |
| 12:00 AM | 0 | * | * | * | * | 0 | * | * | 0 | |
| 01:00 | 0 | * | * | * | * | 0 | * | * | 0 | |
| 02:00 | 0 | * | * | * | * | 0 | * | * | 0 | |
| 03:00 | 0 | * | * | * | * | 0 | * | * | 0 | |
| 04:00 | 1 | * | * | * | * | 1 | * | * | 1 | |
| 05:00 | 0 | * | * | * | * | 0 | * | * | 0 | |
| 06:00 | 3 | * | * | * | * | 3 | * | * | 3 | |
| 07:00 | 6 | * | * | * | * | 6 | * | * | 6 | |
| 08:00 | 11 | * | * | * | * | 11 | * | * | 11 | |
| 09:00 | 4 | * | * | * | * | 4 | * | * | 4 | |
| 10:00 | * | * | * | * | * | * | * | * | * | |
| 11:00 | * | * | * | * | * | * | * | * | * | |
| 12:00 PM | * | * | * | * | * | * | * | * | * | |
| 01:00 | * | * | * | * | * | * | * | * | * | |
| 02:00 | * | * | * | * | * | * | * | * | * | |
| 03:00 | * | * | * | * | * | * | * | * | * | |
| 04:00 | * | * | * | * | * | * | * | * | * | |
| 05:00 | * | * | * | * | * | * | * | * | * | |
| 06:00 | * | * | * | * | * | * | * | * | * | |
| 07:00 | * | * | * | * | * | * | * | * | * | |
| 08:00 | * | * | * | * | * | * | * | * | * | |
| 09:00 | * | * | * | * | * | * | * | * | * | |
| 10:00 | * | * | * | * | * | * | * | * | * | |
| 11:00 | * | * | * | * | * | * | * | * | * | |
| Day Total | 25 | 0 | 0 | 0 | 0 | 25 | 0 | 0 | 25 | |
| % Avg. | | 0.00/ | 0.00/ | 0.00/ | 0.00/ | | | | | |
| WkDay | 100.0% | 0.0% | 0.0% | 0.0% | 0.0% | | | | | |
| % Avg. Week | 100.0% | 0.0% | 0.0% | 0.0% | 0.0% | 100.0% | 0.0% | 0.0% | | |
| AM Peak | 08:00 | | | | | 08:00 | | | 08:00 | |
| Vol. | 11 | | | | | 11 | | | 11 | |
| PM Peak | | | | | | | | | | |
| Vol. | | | | | | | | | | |
| Grand Tota | al | 25 | 0 | 0 | 0 380 |) | 405 | 115 | 116 | 235 |
| | | | | | | | | | | |
| AD. | Τ | AD | OT 116 | | AADT 116 | | | | | |

I-64 EIS counts Exit 238 - Colonial Williamsburg 3656 E. Stratford Road Virginia Beach, VA 23455 (757) 464-5129

I-64 EIS #23805 Wknd

I-64 EB off ramp to Rt 143

| Start | Mon | Tue | Wed | Thu | Fri | Average | Sat | Sun | Week |
|-----------------|-----------|-----------|-----------|-----------|-----------|---------|-----------|-----------|---------|
| Time | 20-Jun-11 | 21-Jun-11 | 22-Jun-11 | 23-Jun-11 | 24-Jun-11 | Day | 25-Jun-11 | 26-Jun-11 | Average |
| 12:00 AM | * | * | * | * | * | * | 63 | 40 | 52 |
| 01:00 | * | * | * | * | * | * | 31 | 23 | 27 📃 |
| 02:00 | * | * | * | * | * | * | 28 | 15 | 22 🔲 |
| 03:00 | * | * | * | * | * | * | 12 | 13 | 12 🛚 |
| 04:00 | * | * | * | * | * | * | 20 | 11 | 16 🛮 |
| 05:00 | * | * | * | * | * | * | 26 | 24 | 25 📃 |
| 06:00 | * | * | * | * | * | * | 74 | 45 | 60 |
| 07:00 | * | * | * | * | * | * | 207 | 87 | 147 |
| 08:00 | * | * | * | * | * | * | 260 | 138 | 199 |
| 09:00 | * | * | * | * | 284 | 284 | 302 | 182 | 256 |
| 10:00 | * | * | * | * | 247 | 247 | 301 | 245 | 264 |
| 11:00 | * | * | * | * | 298 | 298 | 302 | 269 | 290 |
| 12:00 PM | * | * | * | * | 282 | 282 | 336 | 332 | 317 |
| 01:00 | * | * | * | * | 275 | 275 | 256 | 308 | 280 |
| 02:00 | * | * | * | * | 335 | 335 | 280 | 252 | 289 |
| 03:00 | * | * | * | * | 383 | 383 | 268 | 261 | 304 |
| 04:00 | * | * | * | * | 437 | 437 | 311 | 277 | 342 |
| 05:00 | * | * | * | * | 458 | 458 | 364 | 310 | 377 |
| 06:00 | * | * | * | * | 309 | 309 | 271 | 346 | 309 |
| 07:00 | * | * | * | * | 210 | 210 | 200 | 240 | 217 |
| 07:00 | * | * | * | * | 210 | 210 | 140 | 175 | 179 |
| 09:00 | * | * | * | * | 183 | 183 | 113 | 143 | 146 |
| 10:00 | * | * | * | * | 190 | 190 | 89 | 90 | 123 |
| 11:00 | * | * | * | * | 190 | 190 | 77 | 69 | 91 |
| Day Total | 0 | 0 | 0 | 0 | 4239 | 4239 | 4331 | 3895 | 4344 |
| | <u> </u> | 0 | U | | 4239 | 4239 | 4331 | 3090 | 4344 |
| % Avg. WkDay | 0.0% | 0.0% | 0.0% | 0.0% | 100.0% | | | | |
| Avg. Week | 0.0% | 0.0% | 0.0% | 0.0% | 97.6% | 97.6% | 99.7% | 89.7% | |
| AM Peak | | | | | 11:00 | 11:00 | 09:00 | 11:00 | 11:00 |
| Vol. | | | | | 298 | 298 | 302 | 269 | 290 |
| PM Peak | | | | , | 17:00 | 17:00 | 17:00 | 18:00 | 17:00 |
| Vol. | | | | | 458 | 458 | 364 | 346 | 377 |

I-64 EIS counts Exit 238 - Colonial Williamsburg 3656 E. Stratford Road Virginia Beach, VA 23455 (757) 464-5129

I-64 EIS #23805 Wknd

I-64 EB off ramp to Rt 143

| Start | Mon | Tue | Wed | Thu | Fri | Average | Sat | Sun | Week |
|-------------|-----------|-----------|-----------|-----------|------------|---------|-----------|-----------|---------|
| Time | 27-Jun-11 | 28-Jun-11 | 29-Jun-11 | 30-Jun-11 | 01-Jul-11 | Day | 02-Jul-11 | 03-Jul-11 | Average |
| 12:00 AM | 24 | * | * | * | * | 24 | * | * | 24 📃 |
| 01:00 | 20 | * | * | * | * | 20 | * | * | 20 📃 |
| 02:00 | 21 | * | * | * | * | 21 | * | * | 21 🔲 |
| 03:00 | 6 | * | * | * | * | 6 | * | * | 6] |
| 04:00 | 20 | * | * | * | * | 20 | * | * | 20 🔲 |
| 05:00 | 73 | * | * | * | * | 73 | * | * | 73 |
| 06:00 | 195 | * | * | * | * | 195 | * | * | 195 |
| 07:00 | 317 | * | * | * | * | 317 | * | * | 317 |
| 08:00 | 302 | * | * | * | * | 302 | * | * | 302 |
| 09:00 | 205 | * | * | * | * | 205 | * | * | 205 |
| 10:00 | 247 | * | * | * | * | 247 | * | * | 247 |
| 11:00 | * | * | * | * | * | * | * | * | * |
| 12:00 PM | * | * | * | * | * | * | * | * | * |
| 01:00 | * | * | * | * | * | * | * | * | * |
| 02:00 | * | * | * | * | * | * | * | * | * |
| 03:00 | * | * | * | * | * | * | * | * | * |
| 04:00 | * | * | * | * | * | * | * | * | * |
| 05:00 | * | * | * | * | * | * | * | * | * |
| 06:00 | * | * | * | * | * | * | * | * | * |
| 07:00 | * | * | * | * | * | * | * | * | * |
| 08:00 | * | * | * | * | * | * | * | * | * |
| 09:00 | * | * | * | * | * | * | * | * | * |
| 10:00 | * | * | * | * | * | * | * | * | * |
| 11:00 | * | * | * | * | * | * | * | * | * |
| Day Total | 1430 | 0 | 0 | 0 | 0 | 1430 | 0 | 0 | 1430 |
| % Avg. | 100.0% | 0.0% | 0.0% | 0.0% | 0.0% | | | | |
| WkDay | | | | | | | | | |
| % Avg. Week | 100.0% | 0.0% | 0.0% | 0.0% | 0.0% | 100.0% | 0.0% | 0.0% | |
| AM Peak | 07:00 | | | | | 07:00 | | | 07:00 |
| Vol. | 317 | | | | | 317 | | | 317 |
| PM Peak | | | | | | | | | |
| Vol. | | | | | | | | | |
| Grand Total | 1 | 430 | 0 | 0 | 0 4239 | 5669 | 43 | 31 3895 | 5774 |
| ADT | | ADT | 4,113 | | AADT 4,113 | | | | |

I-64 EIS counts Exit 238 - Colonial Williamsburg 3656 E. Stratford Road Virginia Beach, VA 23455 (757) 464-5129

I-64 EIS #23807 Wknd

I-64 EB on ramp

| Start | Mon | Tue | Wed | Thu | Fri | Average | Sat | Sun | Week |
|-----------|-----------|-----------|-----------|-----------|-----------|---------|-----------|-----------|---------|
| Time | 20-Jun-11 | 21-Jun-11 | 22-Jun-11 | 23-Jun-11 | 24-Jun-11 | Day | 25-Jun-11 | 26-Jun-11 | Average |
| 12:00 AM | * | * | * | * | * | * | 102 | 125 | 114 |
| 01:00 | * | * | * | * | * | * | 56 | 64 | 60 |
| 02:00 | * | * | * | * | * | * | 32 | 33 | 32 🔲 |
| 03:00 | * | * | * | * | * | * | 30 | 17 | 24 |
| 04:00 | * | * | * | * | * | * | 21 | 19 | 20 🛮 |
| 05:00 | * | * | * | * | * | * | 40 | 42 | 41 🔲 |
| 06:00 | * | * | * | * | * | * | 91 | 64 | 78 |
| 07:00 | * | * | * | * | * | * | 113 | 98 | 106 |
| 08:00 | * | * | * | * | * | * | 211 | 162 | 186 |
| 09:00 | * | * | * | * | * | * | 352 | 290 | 321 |
| 10:00 | * | * | * | * | 394 | 394 | 423 | 367 | 395 |
| 11:00 | * | * | * | * | 376 | 376 | 412 | 411 | 400 |
| 12:00 PM | * | * | * | * | 359 | 359 | 373 | 410 | 381 |
| 01:00 | * | * | * | * | 386 | 386 | 464 | 432 | 427 |
| 02:00 | * | * | * | * | 422 | 422 | 440 | 413 | 425 |
| 03:00 | * | * | * | * | 458 | 458 | 432 | 388 | 426 |
| 04:00 | * | * | * | * | 373 | 373 | 416 | 428 | 406 |
| 05:00 | * | * | * | * | 339 | 339 | 490 | 418 | 416 |
| 06:00 | * | * | * | * | 333 | 333 | 446 | 413 | 397 |
| 07:00 | * | * | * | * | 313 | 313 | 381 | 371 | 355 |
| 08:00 | * | * | * | * | 310 | 310 | 364 | 273 | 316 |
| 09:00 | * | * | * | * | 303 | 303 | 394 | 208 | 302 |
| 10:00 | * | * | * | * | 262 | 262 | 286 | 159 | 236 |
| 11:00 | * | * | * | * | 246 | 246 | 244 | 159 | 216 |
| Day Total | 0 | 0 | 0 | 0 | 4874 | 4874 | 6613 | 5764 | 6080 |
| % Avg. | | | | | | | - | | |
| WkDay | 0.0% | 0.0% | 0.0% | 0.0% | 100.0% | | | | |
| Avg. Week | 0.0% | 0.0% | 0.0% | 0.0% | 80.2% | 80.2% | 108.8% | 94.8% | |
| AM Peak | | | | | 10:00 | 10:00 | 10:00 | 11:00 | 11:00 |
| Vol. | | | | | 394 | 394 | 423 | 411 | 400 |
| PM Peak | | | | | 15:00 | 15:00 | 17:00 | 13:00 | 13:00 |
| Vol. | | | | | 458 | 458 | 490 | 432 | 427 |

I-64 EIS counts Exit 238 - Colonial Williamsburg 3656 E. Stratford Road Virginia Beach, VA 23455 (757) 464-5129

I-64 EIS #23807 Wknd

I-64 EB on ramp

| Start | Mon | Tue | Wed | Thu | Fri | Average | Sat | Sun | Week |
|-------------|-----------|-----------|-----------|-----------|------------|---------|-----------|-----------|---------|
| Time | 27-Jun-11 | 28-Jun-11 | 29-Jun-11 | 30-Jun-11 | 01-Jul-11 | Day | 02-Jul-11 | 03-Jul-11 | Average |
| 12:00 AM | 92 | * | * | * | * | 92 | * | * | 92 |
| 01:00 | 48 | * | * | * | * | 48 | * | * | 48 |
| 02:00 | 24 | * | * | * | * | 24 | * | * | 24 |
| 03:00 | 17 | * | * | * | * | 17 | * | * | 17 📘 |
| 04:00 | 22 | * | * | * | * | 22 | * | * | 22 🔲 |
| 05:00 | 76 | * | * | * | * | 76 | * | * | 76 |
| 06:00 | 163 | * | * | * | * | 163 | * | * | 163 |
| 07:00 | 293 | * | * | * | * | 293 | * | * | 293 |
| 08:00 | 279 | * | * | * | * | 279 | * | * | 279 |
| 09:00 | 274 | * | * | * | * | 274 | * | * | 274 |
| 10:00 | 374 | * | * | * | * | 374 | * | * | 374 |
| 11:00 | * | * | * | * | * | * | * | * | * |
| 12:00 PM | * | * | * | * | * | * | * | * | * |
| 01:00 | * | * | * | * | * | * | * | * | * |
| 02:00 | * | * | * | * | * | * | * | * | * |
| 03:00 | * | * | * | * | * | * | * | * | * |
| 04:00 | * | * | * | * | * | * | * | * | * |
| 05:00 | * | * | * | * | * | * | * | * | * |
| 06:00 | * | * | * | * | * | * | * | * | * |
| 07:00 | * | * | * | * | * | * | * | * | * |
| 08:00 | * | * | * | * | * | * | * | * | * |
| 09:00 | * | * | * | * | * | * | * | * | * |
| 10:00 | * | * | * | * | * | * | * | * | * |
| 11:00 | * | * | * | * | * | * | * | * | * |
| Day Total | 1662 | 0 | 0 | 0 | 0 | 1662 | 0 | 0 | 1662 |
| % Avg. | 100.0% | 0.0% | 0.0% | 0.0% | 0.0% | | | | |
| WkDay | | | | | | | | | |
| % Avg. Week | 100.0% | 0.0% | 0.0% | 0.0% | 0.0% | 100.0% | 0.0% | 0.0% | |
| AM Peak | 10:00 | | | | | 10:00 | | | 10:00 |
| Vol. | 374 | | | | | 374 | | | 374 |
| PM Peak | | | | | | | | | |
| Vol. | | | | | | | | | |
| Grand Total | 10 | 662 | 0 | 0 | 0 4874 | 6536 | 66 | 13 5764 | 7742 |
| ADT | | ADT | 6,188 | | AADT 6,188 | | | | |

I-64 EIS counts Exit 238 - Colonial Williamsburg 3656 E. Stratford Road Virginia Beach, VA 23455 (757) 464-5129

I-64 EIS #23809 Wknd

Rt 143 NB at EB off ramp b/t NB and SB Rt 143 SB at EB off ramp b/t NB and SB

| Start | 20-Jun- | 11 | Tu | ie e | We | ed | Thu | ı | | Fri | (| Sat | | Sun | Week A | verage |
|----------|---------|----|----|------|----|----|-----|----|-------|-------|-------|-------|-------|-------|--------|--------|
| Time | NB | SB | NB | SB | NB | SB | NB | SB | NB | SB | NB | SB | NB | SB | NB | SB |
| 12:00 AM | * | * | * | * | * | * | * | * | * | * | 28 | 93 | 32 | 102 | 30 | 98 |
| 01:00 | * | * | * | * | * | * | * | * | * | * | 20 | 99 | 24 | 107 | 22 | 103 |
| 02:00 | * | * | * | * | * | * | * | * | * | * | 13 | 32 | 17 | 45 | 15 | 38 |
| 03:00 | * | * | * | * | * | * | * | * | * | * | 13 | 28 | 17 | 28 | 15 | 28 |
| 04:00 | * | * | * | * | * | * | * | * | * | * | 14 | 20 | 28 | 18 | 21 | 19 |
| 05:00 | * | * | * | * | * | * | * | * | * | * | 42 | 37 | 29 | 30 | 36 | 34 |
| 06:00 | * | * | * | * | * | * | * | * | * | * | 100 | 140 | 58 | 130 | 79 | 135 |
| 07:00 | * | * | * | * | * | * | * | * | * | * | 145 | 260 | 111 | 183 | 128 | 222 |
| 08:00 | * | * | * | * | * | * | * | * | * | * | 205 | 315 | 193 | 289 | 199 | 302 |
| 09:00 | * | * | * | * | * | * | * | * | 242 | 304 | 271 | 330 | 319 | 264 | 277 | 299 |
| 10:00 | * | * | * | * | * | * | * | * | 300 | 300 | 331 | 308 | 371 | 351 | 334 | 320 |
| 11:00 | * | * | * | * | * | * | * | * | 257 | 441 | 296 | 282 | 357 | 377 | 303 | 367 |
| 12:00 PM | * | * | * | * | * | * | * | * | 320 | 432 | 276 | 362 | 290 | 346 | 295 | 380 |
| 01:00 | * | * | * | * | * | * | * | * | 304 | 427 | 245 | 385 | 344 | 348 | 298 | 387 |
| 02:00 | * | * | * | * | * | * | * | * | 303 | 520 | 291 | 392 | 342 | 331 | 312 | 414 |
| 03:00 | * | * | * | * | * | * | * | * | 317 | 512 | 266 | 385 | 369 | 394 | 317 | 430 |
| 04:00 | * | * | * | * | * | * | * | * | 293 | 518 | 294 | 523 | 343 | 430 | 310 | 490 |
| 05:00 | * | * | * | * | * | * | * | * | 353 | 539 | 293 | 460 | 298 | 372 | 315 | 457 |
| 06:00 | * | * | * | * | * | * | * | * | 246 | 403 | 236 | 408 | 246 | 355 | 243 | 389 |
| 07:00 | * | * | * | * | * | * | * | * | 168 | 374 | 206 | 348 | 203 | 371 | 192 | 364 |
| 08:00 | * | * | * | * | * | * | * | * | 172 | 310 | 161 | 307 | 195 | 359 | 176 | 325 |
| 09:00 | * | * | * | * | * | * | * | * | 136 | 267 | 191 | 260 | 177 | 260 | 168 | 262 |
| 10:00 | * | * | * | * | * | * | * | * | 106 | 223 | 120 | 310 | 91 | 181 | 106 | 238 |
| 11:00 | * | * | * | * | * | * | * | * | 74 | 135 | 67 | 147 | 47 | 63 | 63 | 115 |
| Lane | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3591 | 5705 | 4124 | 6231 | 4501 | 5734 | 4254 | 6216 |
| Day | 0 | | 0 | | 0 | | 0 | | 92 | | 103 | | 102 | | 1047 | |
| AM Peak | | | | | | | | | 10:00 | 11:00 | 10:00 | 09:00 | 10:00 | 11:00 | 10:00 | 11:00 |
| Vol. | | | | | | | | | 300 | 441 | 331 | 330 | 371 | 377 | 334 | 367 |
| PM Peak | | | | | | | | | 17:00 | 17:00 | 16:00 | 16:00 | 15:00 | 16:00 | 15:00 | 16:00 |
| Vol. | | | | | | | | | 353 | 539 | 294 | 523 | 369 | 430 | 317 | 490 |

I-64 EIS counts Exit 238 - Colonial Williamsburg 3656 E. Stratford Road Virginia Beach, VA 23455 (757) 464-5129

I-64 EIS #23809 Wknd

Rt 143 NB at EB off ramp b/t NB and SB Rt 143 SB at EB off ramp b/t NB and SB

| Start | 27-Ju | ın-11 | Tu | <u>е</u> | We | d | Th | J | Fri | | Sa | nt . | Sun |) | Week Av | erage |
|----------------|-------|--------|-------|----------|-----------|----|----|----|-----|------|----|-------|-----|-------|---------|-------|
| Time | NB | SB | NB | SB | NB | SB | NB | SB | NB | SB | NB | SB | NB | SB | NB | SB |
| 12:00 AM | 29 | 63 | * | * | * | * | * | * | * | * | * | * | * | * | 29 | 63 |
| 01:00 | 15 | 24 | * | * | * | * | * | * | * | * | * | * | * | * | 15 | 24 |
| 02:00 | 16 | 17 | * | * | * | * | * | * | * | * | * | * | * | * | 16 | 17 |
| 03:00 | 10 | 10 | * | * | * | * | * | * | * | * | * | * | * | * | 10 | 10 |
| 04:00 | 33 | 26 | * | * | * | * | * | * | * | * | * | * | * | * | 33 | 26 |
| 05:00 | 80 | 60 | * | * | * | * | * | * | * | * | * | * | * | * | 80 | 60 |
| 06:00 | 146 | 204 | * | * | * | * | * | * | * | * | * | * | * | * | 146 | 204 |
| 07:00 | 237 | 326 | * | * | * | * | * | * | * | * | * | * | * | * | 237 | 326 |
| 08:00 | 215 | 415 | * | * | * | * | * | * | * | * | * | * | * | * | 215 | 415 |
| 09:00 | 253 | 327 | * | * | * | * | * | * | * | * | * | * | * | * | 253 | 327 |
| 10:00 | 242 | 337 | * | * | * | * | * | * | * | * | * | * | * | * | 242 | 337 |
| 11:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | + |
| 12:00 PM | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | , |
| 01:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | + |
| 02:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | , |
| 03:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | + |
| 04:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | , |
| 05:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | + |
| 06:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 07:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | + |
| 08:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | , |
| 09:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 10:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | , |
| 11:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| Lane | 1276 | 1809 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1276 | 1809 |
| Day | 308 | 85 | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 3085 | |
| AM Peak | 09:00 | 08:00 | | | | | | | | | | | | | 09:00 | 08:00 |
| Vol. | 253 | 415 | | | | | | | | | | | | | 253 | 415 |
| PM Peak | | | | | | | | | | | | | | | | |
| Vol. | | | | | | | | | | | | | | | | |
| 0 | | | | | | | | | | | | | | | | |
| Comb. Total | | 3085 | | 0 | | 0 | | 0 | | 9296 | | 10355 | | 10235 | | 13555 |
| ADT | | ADT 10 |),295 | AAD | OT 10,295 | | | | | | | | | | | |

3656 E. Stratford Road Virginia Beach, VA 23455 (757) 464-5129

SA AM counted: 06/25/11 SU PM counted: 06/26/11

164 EIS

/11 /44 File Name: I-64 EIS #23811 Wknd

Site Code : 23811 Start Date : 6/25/2011

Page No : 1

Groups Printed- All Vehicles

| | | Rt | 143 | | | | | - oups | | | 143 | | Ro | chamb | eau Tra | nil |] | | |
|----------------------|------|------------|----------|------|------|-------|-------|--------|----------|----------|----------|--------|------|----------|----------|------|--------------|--------------|------------|
| | | South | | | | Westb | ound | | | North | bound | | | Eastb | ound | | | | |
| Start Time | Left | Thru | Right | Trks | Left | Thru | Right | Trks | Left | Thru | Right | Trks | Left | Thru | Right | Trks | Exclu. Total | Inclu. Total | Int. Total |
| 08:30 AM | 2 | 122 | 19 | 0 | 0 | 0 | 0 | 0 | 24 | 51 | 41 | 2 | 0 | 5 | 15 | 0 | 2 | 279 | 281 |
| 08:45 AM | 1 | 121 | 24 | 2 | 0 | 0 | 0 | 0 | 27 | 45 | 44 | 2 | 0 | 7 | 20 | 0 | 4 | 289 | 293 |
| Total | 3 | 243 | 43 | 2 | 0 | 0 | 0 | 0 | 51 | 96 | 85 | 4 | 0 | 12 | 35 | 0 | 6 | 568 | 574 |
| 09:00 AM | 3 | 117 | 25 | 5 | 0 | 0 | 0 | 0 | 34 | 66 | 53 | 6 | 1 | 8 | 17 | 0 | 11 | 324 | 335 |
| 09:15 AM | 5 | 123 | 31 | 3 | 0 | 0 | 0 | 0 | 30 | 68 | 76 | 3 | 0 | 23 | 17 | 1 | 7 | 373 | 380 |
| 09:30 AM | 8 | 120 | 24 | 3 | 0 | 0 | 0 | 0 | 34 | 75 | 98 | 3 | 1 | 29 | 32 | 3 | 9 | 421 | 430 |
| 09:45 AM | 9 | 111 | 24 | 2 | 0 | 0 | 0 | 0 | 42 | 80 | 79 | 5 | 1 | 13 | 40 | 3 | 10 | 399 | 409 |
| Total | 25 | 471 | 104 | 13 | 0 | 0 | 0 | 0 | 140 | 289 | 306 | 17 | 3 | 73 | 106 | 7 | 37 | 1517 | 1554 |
| 10:00 AM | 2 | 123 | 15 | 1 | 0 | 0 | 0 | 0 | 42 | 88 | 81 | 3 | 0 | 19 | 38 | 0 | 4 | 408 | 412 |
| 10:15 AM | 5 | 137 | 29 | 1 | 0 | 0 | 0 | 0 | 42 | 83 | 79 | 1 | 0 | 15 | 33 | 0 | 2 | 423 | 425 |
| 10:30 AM | 3 | 121 | 28 | 3 | 0 | 0 | 0 | 0 | 44 | 68 | 77 | 3 | 2 | 37 | 26 | 3 | 9 | 406 | 415 |
| 10:45 AM | 4 | 125 | 32 | 2 | 0 | 0 | 0 | 0 | 34 | 61 | 81 | 1 | 3 | | 36 | 1 | 4 | 396 | 400 |
| Total | 14 | 506 | 104 | 7 | 0 | 0 | 0 | 0 | 162 | 300 | 318 | 8 | 5 | 91 | 133 | 4 | 19 | 1633 | 1652 |
| 11:00 AM | 4 | 115 | 19 | 1 | 0 | 0 | 0 | 0 | 39 | 79 | 73 | 3 | 1 | 20 | 43 | 1 | 5 | 393 | 398 |
| 11:15 AM | 2 | 101 | 18 | 2 | 0 | 0 | 0 | 0 | 50 | 56 | 71 | 1 | 0 | 28 | 46 | 3 | 6 | 372 | 378 |
| Total | 6 | 216 | 37 | 3 | 0 | 0 | 0 | 0 | 89 | 135 | 144 | 4 | 1 | 48 | 89 | 4 | 11 | 765 | 776 |
| 01 00 PM | | 0.6 | 40 | | | 0 | 0 | 0 | 1 20 | 77 | 51 | 2 | l 1 | 40 | 10 | 0 | 1 2 | 277 | 200 |
| 01:00 PM | 6 | 96 | 42 | 1 | 0 | 0 | 0 | 0 | 38 42 | 77 | 51 | 2 5 | 1 | 48 | 18 | 0 | 3 | 377 | 380 |
| 01:15 PM | 2 4 | 126 100 | 43 23 | 2 | 0 | 0 | 0 | 0 | 36 | 86 82 | 67 67 | | 0 | 29 37 | 32 33 | 1 | 8 | 427 386 | 435 390 |
| 01:30 PM 01:45 PM | 6 | 127 | 30 | 1 3 | 0 | 0 | 0 | 0 | 35 | 82 74 | 63 | 2 | 4 0 | 16 | 33 29 | 1 | 4 4 | 380 | 390 384 |
| Total | 18 | 449 | 138 | 7 | 0 | 0 | 0 | 0 | 151 | 319 | 248 | 10 | 5 | 130 | 112 | 2 | 19 | 1570 | 1589 |
| 02:00 PM | 2 | 107 | 20 | 1 | 0 | 0 | 0 | 0 | 27 | 52 | 46 | 0 | 5 | 30 | 30 | 0 | 1 | 319 | 320 |
| 02:15 PM | 11 | 101 | 18 | 2 | 0 | 0 | 0 | 0 | 38 | 55 | 33 | 3 | 1 | 28 | 32 | 0 | 5 | 317 | 322 |
| 02:30 PM | 3 | 87 | 16 | 0 | 0 | 0 | 0 | 0 | 32 | 49 | 31 | 0 | 3 | 22 | 31 | 0 | 0 | 274 | 274 |
| 02:45 PM | 2 | 88 | 23 | 0 | 0 | 0 | 0 | 0 | 35 | 71 | 56 | 1 | 1 | 27 | 35 | 1 | 2 | 338 | 340 |
| Total | 18 | 383 | 77 | 3 | 0 | 0 | 0 | 0 | 132 | 227 | 166 | 4 | 10 | 107 | 128 | 1 | 8 | 1248 | 1256 |
| 03:00 PM | 6 | 85 | 26 | 1 | 0 | 0 | 0 | 0 | 37 | 96 | 60 | 0 | 3 | 39 | 42 | 1 | 2 | 394 | 396 |
| 03:15 PM | 5 | 104 | 27 | 1 | 0 | 0 | 0 | 0 | 54 | 83 | 62 | 4 | 4 | 39 | 36 | 4 | 9 | 414 | 423 |
| 03:30 PM | 9 | 147 | 42 | 4 | 0 | 0 | 0 | 0 | 54 | 100 | 68 | 1 | 1 | 32 | 45 | 0 | 5 | 498 | 503 |
| 03:45 PM | 2 | 151 | 68 | 2 | 0 | 0 | 0 | 0 | 44 | 86 | 68 | 1 | 3 | 40 | 36 | 3 | 6 | 498 | 504 |
| Total | 22 | 487 | 163 | 8 | 0 | 0 | 0 | 0 | 189 | 365 | 258 | 6 | 11 | 150 | 159 | 8 | 22 | 1804 | 1826 |
| Grand Total | 106 | 2755 | 666 | 43 | 0 | 0 | 0 | 0 | 914 | 1731 | 1525 | 53 | 35 | 611 | 762 | 26 | 122 | 9105 | 9227 |
| Apprch % | 3 | 78.1 | 18.9 | | 0 | 0 | 0 | | 21.9 | 41.5 | 36.6 | | 2.5 | 43.4 | 54.1 | | | | |
| Total % | 1.2 | 30.3 | 7.3 | | 0 | 0 | 0 | | 10 | 19 | 16.7 | | 0.4 | 6.7 | 8.4 | | 1.3 | 98.7 | |

3656 E. Stratford Road Virginia Beach, VA 23455

SA AM counted: 06/25/11 SU PM counted: 06/26/11

164 EIS

(757) 464-5129 File Name: I-64 EIS #23811 Wknd Site Code: 23811

Start Date : 6/25/2011

Page No : 2

| | | Rt | 143 | | | | | | | Rt | 143 | | R | ochaml | eau Tr | ail | |
|-----------------|------------|-----------|----------|------------|--------|------|-------|------------|------|-------|-------|------------|------|--------|--------|------------|------------|
| | | South | bound | | | West | bound | | | North | bound | | | Eastl | oound | | |
| Start Time | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Int. Total |
| Peak Hour Analy | sis Fron | n 08:30 . | AM to 11 | :15 AM | Peak 1 | of 1 | | | | | | | | | | | |
| Peak Hour for E | ntire Inte | rsection | Begins a | it 09:30 A | M | | | | | | | | | | | | |
| 09:30 AM | 8 | 120 | 24 | 152 | 0 | 0 | 0 | 0 | 34 | 75 | 98 | 207 | 1 | 29 | 32 | 62 | 421 |
| 09:45 AM | 9 | 111 | 24 | 144 | 0 | 0 | 0 | 0 | 42 | 80 | 79 | 201 | 1 | 13 | 40 | 54 | 399 |
| 10:00 AM | 2 | 123 | 15 | 140 | 0 | 0 | 0 | 0 | 42 | 88 | 81 | 211 | 0 | 19 | 38 | 57 | 408 |
| 10:15 AM | 5 | 137 | 29 | 171 | 0 | 0 | 0 | 0 | 42 | 83 | 79 | 204 | 0 | 15 | 33 | 48 | 423 |
| Total Volume | 24 | 491 | 92 | 607 | 0 | 0 | 0 | 0 | 160 | 326 | 337 | 823 | 2 | 76 | 143 | 221 | 1651 |
| % App. Total | 4 | 80.9 | 15.2 | | 0 | 0 | 0 | | 19.4 | 39.6 | 40.9 | | 0.9 | 34.4 | 64.7 | | |
| PHF | .667 | .896 | .793 | .887 | .000 | .000 | .000 | .000 | .952 | .926 | .860 | .975 | .500 | .655 | .894 | .891 | .976 |
| | | | | | | | | | | | | | | | | | |
| Peak Hour Analy | | | | | | of 1 | | | | | | | | | | | |
| Peak Hour for E | ntire Inte | rsection | Begins a | ıt 03:00 P | M | | | | | | | | | | | | |
| 03:00 PM | 6 | 85 | 26 | 117 | 0 | 0 | 0 | 0 | 37 | 96 | 60 | 193 | 3 | 39 | 42 | 84 | 394 |
| 03:15 PM | 5 | 104 | 27 | 136 | 0 | 0 | 0 | 0 | 54 | 83 | 62 | 199 | 4 | 39 | 36 | 79 | 414 |
| 03:30 PM | 9 | 147 | 42 | 198 | 0 | 0 | 0 | 0 | 54 | 100 | 68 | 222 | 1 | 32 | 45 | 78 | 498 |
| 03:45 PM | 2 | 151 | 68 | 221 | 0 | 0 | 0 | 0 | 44 | 86 | 68 | 198 | 3 | 40 | 36 | 79 | 498 |
| Total Volume | 22 | 487 | 163 | 672 | 0 | 0 | 0 | 0 | 189 | 365 | 258 | 812 | 11 | 150 | 159 | 320 | 1804 |
| % App. Total | 3.3 | 72.5 | 24.3 | | 0 | 0 | 0 | | 23.3 | 45 | 31.8 | | 3.4 | 46.9 | 49.7 | | |
| PHF | .611 | .806 | .599 | .760 | .000 | .000 | .000 | .000 | .875 | .913 | .949 | .914 | .688 | .938 | .883 | .952 | .906 |

3656 E. Stratford Road Virginia Beach, VA 23455 (757) 464-5129

SA AM counted: 06/25/11

164 EIS

SU PM counted: 06/26/11

File Name: I-64 EIS #23812 Wknd

Site Code : 23812 Start Date : 6/25/2011

Page No : 1

Groups Printed- All Vehicles

| | | Rt | 143 | | | | | | | Rt | 143 | | I- | 64 EB | off ram | p |] | | |
|-------------|------|--------|-------|------|------|-------|-------|------|------|-------|-------|------|------|-------|---------|------|--------------|--------------|------------|
| | | Southb | ound | | | Westb | ound | | | North | bound | | | Eastb | ound | _ | | | |
| Start Time | Left | Thru | Right | Trks | Left | Thru | Right | Trks | Left | Thru | Right | Trks | Left | Thru | Right | Trks | Exclu. Total | Inclu. Total | Int. Total |
| 08:30 AM | 0 | 80 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 51 | 0 | 0 | 2 | 0 | 63 | 0 | 0 | 196 | 196 |
| 08:45 AM | 0 | 76 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 45 | 0 | 0 | 3 | 0 | 70 | 1 | 2 | 194 | 196 |
| Total | 0 | 156 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 96 | 0 | 0 | 5 | 0 | 133 | 1 | 2 | 390 | 392 |
| 09:00 AM | 0 | 79 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 67 | 0 | 0 | 0 | 0 | 66 | 2 | 5 | 212 | 217 |
| 09:15 AM | 0 | 92 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 68 | 0 | 0 | 3 | 0 | 67 | 3 | 6 | 230 | 236 |
| 09:30 AM | 0 | 86 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 76 | 0 | 0 | 2 | 0 | 66 | 1 | 3 | 230 | 233 |
| 09:45 AM | 0 | 81 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 81 | 0 | 0 | 2 | 0 | 63 | 0 | 2 | 227 | 229 |
| Total | 0 | 338 | 0 | 10 | 0 | 0 | 0 | 0 | 0 | 292 | 0 | 0 | 7 | 0 | 262 | 6 | 16 | 899 | 915 |
| 10:00 AM | 0 | 92 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 88 | 0 | 0 | 4 | 0 | 48 | 0 | 1 | 232 | 233 |
| 10:15 AM | 0 | 88 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 83 | 0 | 0 | 3 | 0 | 83 | 0 | 1 | 257 | 258 |
| 10:30 AM | 0 | 105 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 70 | 0 | 0 | 1 | 0 | 47 | 0 | 3 | 223 | 226 |
| 10:45 AM | 0 | 91 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 64 | 0 | 0 | 1 | 0 | 70 | 2 | 2 | 226 | 228 |
| Total | 0 | 376 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 305 | 0 | 0 | 9 | 0 | 248 | 2 | 7 | 938 | 945 |
| 11:00 AM | 0 | 71 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 80 | 0 | 0 | 3 | 0 | 67 | 0 | 1 | 221 | 222 |
| 11:15 AM | ő | 65 | 0 | 1 | ő | 0 | 0 | ő | o o | 56 | 0 | ő | 5 | 0 | 56 | 1 | 2 | 182 | 184 |
| | | | | | | | | | | | | | | | | | 1 | | |
| Total | 0 | 136 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 136 | 0 | 0 | 8 | 0 | 123 | 1 | 3 | 403 | 406 |
| | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| 01:00 PM | 0 | 98 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 78 | 0 | 0 | 7 | 0 | 46 | 0 | 1 | 229 | 230 |
| 01:15 PM | 0 | 126 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 86 | 0 | 0 | 3 | 0 | 45 | 1 | 3 | 260 | 263 |
| 01:30 PM | 0 | 82 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 86 | 0 | 0 | 7 | 0 | 45 | 0 | 1 | 220 | 221 |
| 01:45 PM | 0 | 90 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 74 | 0 | 0 | 5 | 0 | 73 | 0 | 3 | 242 | 245 |
| Total | 0 | 396 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 324 | 0 | 0 | 22 | 0 | 209 | 1 | 8 | 951 | 959 |
| 02:00 PM | 0 | 85 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 57 | 0 | 0 | 2 | 0 | 44 | 0 | 1 | 188 | 189 |
| 02:15 PM | 0 | 90 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 56 | 0 | 0 | 2 | 0 | 40 | 1 | 2 | 188 | 190 |
| 02:30 PM | 0 | 82 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 52 | 0 | 0 | 0 | 0 | 24 | 0 | 0 | 158 | 158 |
| 02:45 PM | 0 | 78 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 72 | 0 | 0 | 0 | 0 | 35 | 0 | 0 | 185 | 185 |
| Total | 0 | 335 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 237 | 0 | 0 | 4 | 0 | 143 | 1 | 3 | 719 | 722 |
| 03:00 PM | 0 | 92 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 99 | 0 | 0 | 5 | 0 | 25 | 0 | 1 | 221 | 222 |
| 03:15 PM | 0 | 85 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 87 | 0 | 0 | 3 | 0 | 51 | 0 | 1 | 226 | 227 |
| 03:30 PM | 0 | 147 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 101 | 0 | 0 | 1 | 0 | 51 | 1 | 4 | 300 | 304 |
| 03:45 PM | 0 | 153 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 89 | 0 | 0 | 5 | 0 | 68 | 1 | 2 | 315 | 317 |
| Total | 0 | 477 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 376 | 0 | 0 | 14 | 0 | 195 | 2 | 8 | 1062 | 1070 |
| Grand Total | 0 | 2214 | 0 | 33 | 0 | 0 | 0 | 0 | 0 | 1766 | 0 | 0 | 69 | 0 | 1313 | 14 | 47 | 5362 | 5409 |
| Apprch % | 0 | 100 | 0 | | 0 | 0 | 0 | | 0 | 100 | 0 | | 5 | 0 | 95 | | | | |
| Total % | 0 | 41.3 | 0 | | 0 | 0 | 0 | | 0 | 32.9 | 0 | | 1.3 | 0 | 24.5 | | 0.9 | 99.1 | |

3656 E. Stratford Road Virginia Beach, VA 23455 (757) 464-5129

I64 EIS SA AM counted: 06/25/11

SU PM counted: 06/26/11

File Name: I-64 EIS #23812 Wknd

Site Code : 23812 Start Date : 6/25/2011

Page No : 2

| | | Rt | 143 | | | | | | | Rt | 143 | | I | -64 EB | off ran | ıp | |
|-----------------|------------|-----------|----------|------------|--------|------|-------|------------|------|-------|-------|------------|------|--------|---------|------------|------------|
| | | South | bound | | | West | bound | | | North | bound | | | Eastl | oound | | |
| Start Time | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Int. Total |
| Peak Hour Analy | ysis Fron | n 08:30 . | AM to 11 | :15 AM | Peak 1 | of 1 | | | | | | | | | | | |
| Peak Hour for E | ntire Inte | rsection | Begins a | t 09:30 A | M | | | | | | | | | | | | i |
| 09:30 AM | 0 | 86 | 0 | 86 | 0 | 0 | 0 | 0 | 0 | 76 | 0 | 76 | 2 | 0 | 66 | 68 | 230 |
| 09:45 AM | 0 | 81 | 0 | 81 | 0 | 0 | 0 | 0 | 0 | 81 | 0 | 81 | 2 | 0 | 63 | 65 | 227 |
| 10:00 AM | 0 | 92 | 0 | 92 | 0 | 0 | 0 | 0 | 0 | 88 | 0 | 88 | 4 | 0 | 48 | 52 | 232 |
| 10:15 AM | 0 | 88 | 0 | 88 | 0 | 0 | 0 | 0 | 0 | 83 | 0 | 83 | 3 | 0 | 83 | 86 | 257 |
| Total Volume | 0 | 347 | 0 | 347 | 0 | 0 | 0 | 0 | 0 | 328 | 0 | 328 | 11 | 0 | 260 | 271 | 946 |
| % App. Total | 0 | 100 | 0 | | 0 | 0 | 0 | | 0 | 100 | 0 | | 4.1 | 0 | 95.9 | | |
| PHF | .000 | .943 | .000 | .943 | .000 | .000 | .000 | .000 | .000 | .932 | .000 | .932 | .688 | .000 | .783 | .788 | .920 |
| | | | | | | | | | | | | | | | | | |
| Peak Hour Analy | , | | | | | of 1 | | | | | | | | | | | |
| Peak Hour for E | ntire Inte | rsection | Begins a | ıt 03:00 P | M | | | | | | | | | | | | ı |
| 03:00 PM | 0 | 92 | 0 | 92 | 0 | 0 | 0 | 0 | 0 | 99 | 0 | 99 | 5 | 0 | 25 | 30 | 221 |
| 03:15 PM | 0 | 85 | 0 | 85 | 0 | 0 | 0 | 0 | 0 | 87 | 0 | 87 | 3 | 0 | 51 | 54 | 226 |
| 03:30 PM | 0 | 147 | 0 | 147 | 0 | 0 | 0 | 0 | 0 | 101 | 0 | 101 | 1 | 0 | 51 | 52 | 300 |
| 03:45 PM | 0 | 153 | 0 | 153 | 0 | 0 | 0 | 0 | 0 | 89 | 0 | 89 | 5 | 0 | 68 | 73 | 315 |
| Total Volume | 0 | 477 | 0 | 477 | 0 | 0 | 0 | 0 | 0 | 376 | 0 | 376 | 14 | 0 | 195 | 209 | 1062 |
| % App. Total | 0 | 100 | 0 | | 0 | 0 | 0 | | 0 | 100 | 0 | | 6.7 | 0 | 93.3 | | |
| PHF | .000 | 779 | .000 | 779 | .000 | .000 | .000 | .000 | .000 | 931 | .000 | .931 | .700 | .000 | 717 | 716 | 843 |

I-64 EIS counts I-64 Exit 242 - Jamestown/Water Country 3656 E. Stratford Road Virginia Beach, VA 23455 (757) 464-5129

I-64 EIS #24201-02 Wknd

I-64 WB on ramp fm EB Rt 199 I-64 WB off ramp to EB Rt 199

| Start | 20-Ju | n-11 | Tu | ue | W | ed | TI | hu | F | ri | 5 | Sat | S | un | Week A | Average |
|----------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|--------|---------|
| Time | WB on | WB off | WB on | WB off |
| 12:00 AM | * | * | * | * | * | * | * | * | * | * | 22 | 26 | 21 | 36 | 22 | 31 |
| 01:00 | * | * | * | * | * | * | * | * | * | * | 11 | 25 | 12 | 20 | 12 | 22 |
| 02:00 | * | * | * | * | * | * | * | * | * | * | 5 | 22 | 10 | 10 | 8 | 16 |
| 03:00 | * | * | * | * | * | * | * | * | * | * | 18 | 6 | 7 | 5 | 12 | 6 |
| 04:00 | * | * | * | * | * | * | * | * | * | * | 11 | 15 | 7 | 13 | 9 | 14 |
| 05:00 | * | * | * | * | * | * | * | * | * | * | 23 | 27 | 9 | 21 | 16 | 24 |
| 06:00 | * | * | * | * | * | * | * | * | * | * | 58 | 62 | 32 | 38 | 45 | 50 |
| 07:00 | * | * | * | * | * | * | * | * | * | * | 67 | 105 | 41 | 60 | 54 | 82 |
| 08:00 | * | * | * | * | * | * | * | * | * | * | 102 | 128 | 79 | 93 | 90 | 110 |
| 09:00 | * | * | * | * | * | * | * | * | 93 | 227 | 125 | 223 | 140 | 189 | 119 | 213 |
| 10:00 | * | * | * | * | * | * | * | * | 142 | 294 | 170 | 309 | 135 | 317 | 149 | 307 |
| 11:00 | * | * | * | * | * | * | * | * | 142 | 248 | 179 | 284 | 179 | 222 | 167 | 251 |
| 12:00 PM | * | * | * | * | * | * | * | * | 161 | 225 | 178 | 259 | 181 | 221 | 173 | 235 |
| 01:00 | * | * | * | * | * | * | * | * | 160 | 218 | 138 | 227 | 173 | 273 | 157 | 239 |
| 02:00 | * | * | * | * | * | * | * | * | 150 | 194 | 178 | 275 | 169 | 195 | 166 | 221 |
| 03:00 | * | * | * | * | * | * | * | * | 160 | 194 | 201 | 194 | 242 | 190 | 201 | 193 |
| 04:00 | * | * | * | * | * | * | * | * | 194 | 171 | 121 | 174 | 158 | 182 | 158 | 176 |
| 05:00 | * | * | * | * | * | * | * | * | 170 | 179 | 129 | 154 | 142 | 133 | 147 | 155 |
| 06:00 | * | * | * | * | * | * | * | * | 108 | 114 | 92 | 120 | 93 | 77 | 98 | 104 |
| 07:00 | * | * | * | * | * | * | * | * | 82 | 100 | 108 | 100 | 108 | 100 | 99 | 100 |
| 08:00 | * | * | * | * | * | * | * | * | 80 | 90 | 78 | 101 | 82 | 100 | 80 | 97 |
| 09:00 | * | * | * | * | * | * | * | * | 68 | 96 | 86 | 90 | 109 | 103 | 88 | 96 |
| 10:00 | * | * | * | * | * | * | * | * | 54 | 82 | 92 | 90 | 84 | 53 | 77 | 75 |
| 11:00 | * | * | * | * | * | * | * | * | 50 | 26 | 52 | 34 | 39 | 32 | 47 | 31 |
| Lane | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1814 | 2458 | 2244 | 3050 | 2252 | 2683 | 2194 | 2848 |
| Day | 0 | | 0 | | 0 | | 0 | | 427 | | 529 | | 493 | | 504 | |
| AM Peak | | | | | | | | | 10:00 | 10:00 | 11:00 | 10:00 | 11:00 | 10:00 | 11:00 | 10:00 |
| Vol. | | | | | | | | | 142 | 294 | 179 | 309 | 179 | 317 | 167 | 307 |
| PM Peak | | | | | | | | | 16:00 | 12:00 | 15:00 | 14:00 | 15:00 | 13:00 | 15:00 | 13:00 |
| Vol. | | | | | | | | | 194 | 225 | 201 | 275 | 242 | 273 | 201 | 239 |

I-64 EIS counts I-64 Exit 242 - Jamestown/Water Country 3656 E. Stratford Road Virginia Beach, VA 23455 (757) 464-5129

I-64 EIS #24201-02 Wknd

I-64 WB on ramp fm EB Rt 199 I-64 WB off ramp to EB Rt 199

| Start | 27-Ju | | Т | ue | W | ed | Т | hu | F | ri | S | Sat | S | un | Week A | verage |
|----------------|-------|--------|-------|--------|-----------|--------|-------|--------|-------|--------|-------|--------|-------|--------|--------|--------|
| Time | WB on | WB off | WB on | WB off | WB on | WB off | WB on | WB off | WB on | WB off | WB on | WB off | WB on | WB off | WB on | WB off |
| 12:00 AM | 25 | 15 | * | * | * | * | * | * | * | * | * | * | * | * | 25 | 1 |
| 01:00 | 10 | 10 | * | * | * | * | * | * | * | * | * | * | * | * | 10 | 1 |
| 02:00 | 8 | 14 | * | * | * | * | * | * | * | * | * | * | * | * | 8 | 1 |
| 03:00 | 10 | 18 | * | * | * | * | * | * | * | * | * | * | * | * | 10 | 1 |
| 04:00 | 9 | 12 | * | * | * | * | * | * | * | * | * | * | * | * | 9 | 1 |
| 05:00 | 28 | 104 | * | * | * | * | * | * | * | * | * | * | * | * | 28 | 10 |
| 06:00 | 54 | 255 | * | * | * | * | * | * | * | * | * | * | * | * | 54 | 25 |
| 07:00 | 70 | 195 | * | * | * | * | * | * | * | * | * | * | * | * | 70 | 19 |
| 08:00 | 128 | 197 | * | * | * | * | * | * | * | * | * | * | * | * | 128 | 19 |
| 09:00 | 109 | 185 | * | * | * | * | * | * | * | * | * | * | * | * | 109 | 18 |
| 10:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | |
| 11:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | |
| 12:00 PM | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | |
| 01:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | |
| 02:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | |
| 03:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | |
| 04:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | |
| 05:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | |
| 06:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | |
| 07:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | |
| 08:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | |
| 09:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | |
| 10:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | |
| 11:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | |
| Lane | 451 | 1005 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 451 | 100 |
| Day | 14 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 145 | |
| AM Peak | 08:00 | 06:00 | | | | | | | | | | | | | 08:00 | 06:0 |
| Vol. | 128 | 255 | | | | | | | | | | | | | 128 | 25 |
| PM Peak | | | | | | | | | | | | | | | | |
| Vol. | - | | | | | | | | | | | | | | | |
| Comb. Total | | 1456 | | 0 | | 0 | | 0 | | 4272 | | 5294 | | 4935 | | 6498 |
| ADT | | ADT 5 | 5,114 | A | ADT 5,114 | | | | | | | | | | | |

I-64 EIS counts I-64 Exit 242 - Jamestown/Water Country 3656 E. Stratford Road Virginia Beach, VA 23455 (757) 464-5129

I-64 EIS #24203-04 Wknd

I-64 WB on ramp fm WB Rt 199 I-64 WB off ramp to WB Rt 199

| Start | 20-Jun-11 | | Tue | | Wed | | Thu | | Fri | | Sat | | Sun | | Week Average | |
|----------|-----------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|--------------|--------|
| Time | WB on | WB off | WB on | WB off | WB on | WB off | WB on | WB off | WB on | WB off | WB on | WB off | WB on | WB off | WB on | WB off |
| 12:00 AM | * | * | * | * | * | * | * | * | * | * | 14 | 97 | 21 | 114 | 18 | 106 |
| 01:00 | * | * | * | * | * | * | * | * | * | * | 3 | 90 | 5 | 100 | 4 | 95 |
| 02:00 | * | * | * | * | * | * | * | * | * | * | 2 | 56 | 6 | 56 | 4 | 56 |
| 03:00 | * | * | * | * | * | * | * | * | * | * | 6 | 55 | 5 | 31 | 6 | 43 |
| 04:00 | * | * | * | * | * | * | * | * | * | * | 8 | 48 | 4 | 20 | 6 | 34 |
| 05:00 | * | * | * | * | * | * | * | * | * | * | 10 | 99 | 18 | 67 | 14 | 83 |
| 06:00 | * | * | * | * | * | * | * | * | * | * | 30 | 203 | 18 | 143 | 24 | 173 |
| 07:00 | * | * | * | * | * | * | * | * | * | * | 49 | 351 | 25 | 236 | 37 | 294 |
| 08:00 | * | * | * | * | * | * | * | * | 60 | 816 | 54 | 380 | 51 | 306 | 55 | 501 |
| 09:00 | * | * | * | * | * | * | * | * | 85 | 533 | 52 | 353 | 59 | 313 | 65 | 400 |
| 10:00 | * | * | * | * | * | * | * | * | 99 | 374 | 80 | 302 | 93 | 331 | 91 | 336 |
| 11:00 | * | * | * | * | * | * | * | * | 103 | 450 | 107 | 249 | 99 | 287 | 103 | 329 |
| 12:00 PM | * | * | * | * | * | * | * | * | 105 | 492 | 116 | 293 | 111 | 301 | 111 | 362 |
| 01:00 | * | * | * | * | * | * | * | * | 161 | 514 | 131 | 345 | 136 | 307 | 143 | 389 |
| 02:00 | * | * | * | * | * | * | * | * | 159 | 529 | 118 | 330 | 157 | 265 | 145 | 375 |
| 03:00 | * | * | * | * | * | * | * | * | 281 | 506 | 161 | 329 | 187 | 289 | 210 | 375 |
| 04:00 | * | * | * | * | * | * | * | * | 174 | 650 | 221 | 451 | 226 | 359 | 207 | 487 |
| 05:00 | * | * | * | * | * | * | * | * | 179 | 697 | 226 | 410 | 194 | 371 | 200 | 493 |
| 06:00 | * | * | * | * | * | * | * | * | 160 | 543 | 233 | 415 | 179 | 355 | 191 | 438 |
| 07:00 | * | * | * | * | * | * | * | * | 171 | 423 | 191 | 306 | 175 | 298 | 179 | 342 |
| 08:00 | * | * | * | * | * | * | * | * | 92 | 293 | 163 | 317 | 141 | 270 | 132 | 293 |
| 09:00 | * | * | * | * | * | * | * | * | 42 | 338 | 70 | 258 | 43 | 272 | 52 | 289 |
| 10:00 | * | * | * | * | * | * | * | * | 21 | 223 | 34 | 330 | 13 | 180 | 23 | 244 |
| 11:00 | * | * | * | * | * | * | * | * | 14 | 170 | 21 | 195 | 12 | 86 | 16 | 150 |
| Lane | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1906 | 7551 | 2100 | 6262 | 1978 | 5357 | 2036 | 6687 |
| Day | 0 | | 0 | | 0 | | 0 | | 9457 | | 8362 | | 7335 | | 8723 | |
| AM Peak | | | | | | | | | 11:00 | 08:00 | 11:00 | 08:00 | 11:00 | 10:00 | 11:00 | 08:00 |
| Vol. | | | | | | | | | 103 | 816 | 107 | 380 | 99 | 331 | 103 | 501_ |
| PM Peak | | | | | | | | | 15:00 | 17:00 | 18:00 | 16:00 | 16:00 | 17:00 | 15:00 | 17:00 |
| Vol. | | | | | | | | | 281 | 697 | 233 | 451 | 226 | 371 | 210 | 493 |

I-64 EIS counts I-64 Exit 242 - Jamestown/Water Country 3656 E. Stratford Road Virginia Beach, VA 23455 (757) 464-5129

I-64 EIS #24203-04 Wknd

I-64 WB on ramp fm WB Rt 199 I-64 WB off ramp to WB Rt 199

| Start | 27-Ju | n-11 | | ue | We | ed | | hu | F | ri | S | at | Sı | un | Week A | Average |
|----------|-------|--------|-------|--------|-----------|--------|-------|--------|-------|--------|-------|--------|-------|--------|--------|---------|
| Time | WB on | WB off | WB on | WB off | WB on | WB off | WB on | WB off | WB on | WB off | WB on | WB off | WB on | WB off | WB on | WB off |
| 12:00 AM | 11 | 62 | * | * | * | * | * | * | * | * | * | * | * | * | 11 | 6 |
| 01:00 | 6 | 40 | * | * | * | * | * | * | * | * | * | * | * | * | 6 | 4 |
| 02:00 | 3 | 23 | * | * | * | * | * | * | * | * | * | * | * | * | 3 | 2 |
| 03:00 | 5 | 19 | * | * | * | * | * | * | * | * | * | * | * | * | 5 | 1 |
| 04:00 | 7 | 44 | * | * | * | * | * | * | * | * | * | * | * | * | 7 | 4 |
| 05:00 | 32 | 168 | * | * | * | * | * | * | * | * | * | * | * | * | 32 | 16 |
| 06:00 | 60 | 378 | * | * | * | * | * | * | * | * | * | * | * | * | 60 | 37 |
| 07:00 | 70 | 698 | * | * | * | * | * | * | * | * | * | * | * | * | 70 | 69 |
| 08:00 | 79 | 763 | * | * | * | * | * | * | * | * | * | * | * | * | 79 | 76 |
| 09:00 | 71 | 561 | * | * | * | * | * | * | * | * | * | * | * | * | 71 | 56 |
| 10:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | |
| 11:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | |
| 12:00 PM | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | |
| 01:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | |
| 02:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | |
| 03:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | |
| 04:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | |
| 05:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | |
| 06:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | |
| 07:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | |
| 08:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | |
| 09:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | |
| 10:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | |
| 11:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | |
| Lane | 344 | 2756 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 344 | 27 |
| Day | 310 | 00 | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 310 | |
| AM Peak | 08:00 | 08:00 | | | | | | | | | | | | | 08:00 | 08:0 |
| Vol. | 79 | 763 | | | | | | | | | | | | | 79 | 7 |
| PM Peak | | | | | | | | | | | | | | | | |
| Vol. | | | | | | | | | | | | | | | | |
| Comb. | | 3100 | | 0 | | 0 | | 0 | | 9457 | | 8362 | | 7335 | | 1182 |
| Total | | 0100 | | O | | O | | O | | 5457 | | 0002 | | 7 000 | | 1102 |
| ADT | | ADT 7 | 7,848 | A | ADT 7,848 | | | | | | | | | | | |

I-64 EIS counts I-64 Exit 242 - Jamestown/Water Counrty 3656 E. Stratford Road Virginia Beach, VA 23455 (757) 464-5129

I-64 EIS #24205-06 Wknd

I-64 EB on ramp fm WB Rt 199 I-64 EB off ramp to WB Rt 199

| Start | 20-Jun | n-11 | Tı | ue | W | ed | Th | ıu | F | ri | | Sat | S | un | Week A | verage |
|----------|--------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|--------|--------|
| Time | EB on | EB off | EB on | EB off | EB on | EB off | EB on | EB off | EB on | EB off | EB on | EB off | EB on | EB off | EB on | EB off |
| 12:00 AM | * | * | * | * | * | * | * | * | * | * | 13 | 42 | 25 | 27 | 19 | 34 |
| 01:00 | * | * | * | * | * | * | * | * | * | * | 10 | 21 | 14 | 13 | 12 | 17 |
| 02:00 | * | * | * | * | * | * | * | * | * | * | 9 | 36 | 10 | 9 | 10 | 22 |
| 03:00 | * | * | * | * | * | * | * | * | * | * | 6 | 14 | 2 | 13 | 4 | 14 |
| 04:00 | * | * | * | * | * | * | * | * | * | * | 6 | 27 | 4 | 16 | 5 | 22 |
| 05:00 | * | * | * | * | * | * | * | * | * | * | 9 | 30 | 5 | 15 | 7 | 22 |
| 06:00 | * | * | * | * | * | * | * | * | * | * | 28 | 51 | 8 | 36 | 18 | 44 |
| 07:00 | * | * | * | * | * | * | * | * | * | * | 47 | 99 | 59 | 60 | 53 | 80 |
| 08:00 | * | * | * | * | * | * | * | * | 101 | 165 | 50 | 119 | 46 | 77 | 66 | 120 |
| 09:00 | * | * | * | * | * | * | * | * | 117 | 132 | 84 | 142 | 88 | 116 | 96 | 130 |
| 10:00 | * | * | * | * | * | * | * | * | 136 | 153 | 108 | 127 | 99 | 94 | 114 | 125 |
| 11:00 | * | * | * | * | * | * | * | * | 160 | 149 | 119 | 193 | 109 | 173 | 129 | 172 |
| 12:00 PM | * | * | * | * | * | * | * | * | 153 | 180 | 124 | 175 | 114 | 159 | 130 | 171 |
| 01:00 | * | * | * | * | * | * | * | * | 224 | 169 | 143 | 169 | 180 | 130 | 182 | 156 |
| 02:00 | * | * | * | * | * | * | * | * | 241 | 181 | 177 | 181 | 172 | 152 | 197 | 171 |
| 03:00 | * | * | * | * | * | * | * | * | 330 | 254 | 221 | 153 | 220 | 135 | 257 | 181 |
| 04:00 | * | * | * | * | * | * | * | * | 145 | 261 | 238 | 111 | 267 | 129 | 217 | 167 |
| 05:00 | * | * | * | * | * | * | * | * | 129 | 340 | 288 | 284 | 304 | 131 | 240 | 252 |
| 06:00 | * | * | * | * | * | * | * | * | 159 | 176 | 271 | 123 | 230 | 96 | 220 | 132 |
| 07:00 | * | * | * | * | * | * | * | * | 189 | 99 | 280 | 90 | 296 | 113 | 255 | 101 |
| 08:00 | * | * | * | * | * | * | * | * | 160 | 105 | 341 | 74 | 213 | 111 | 238 | 97 |
| 09:00 | * | * | * | * | * | * | * | * | 85 | 95 | 107 | 89 | 108 | 84 | 100 | 89 |
| 10:00 | * | * | * | * | * | * | * | * | 59 | 82 | 64 | 61 | 34 | 69 | 52 | 71 |
| 11:00 | * | * | * | * | * | * | * | * | 24 | 68 | 25 | 27 | 23 | 38 | 24 | 44 |
| Lane | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2412 | 2609 | 2768 | 2438 | 2630 | 1996 | 2645 | 2434 |
| Day | 0 | | 0 | | 0 | | 0 | | 502 | 1 | 520 | 06 | 462 | 26 | 507 | 9 |
| AM Peak | | | | | | | | | 11:00 | 08:00 | 11:00 | 11:00 | 11:00 | 11:00 | 11:00 | 11:00 |
| Vol. | | | | | | | | | 160 | 165 | 119 | 193 | 109 | 173 | 129 | 172 |
| PM Peak | | | | | | | | | 15:00 | 17:00 | 20:00 | 17:00 | 17:00 | 12:00 | 15:00 | 17:00 |
| Vol. | | | | | | | | | 330 | 340 | 341 | 284 | 304 | 159 | 257 | 252 |

I-64 EIS counts I-64 Exit 242 - Jamestown/Water Counrty 3656 E. Stratford Road Virginia Beach, VA 23455 (757) 464-5129

I-64 EIS #24205-06 Wknd

I-64 EB on ramp fm WB Rt 199 I-64 EB off ramp to WB Rt 199

| Start | 27-Ju | n-11 | Т | ue | We | ed | Т | าน | F | ri | S | at | S | un | Week A | Average |
|----------------|-------|--------|-------|--------|-----------|--------|-------|--------|-------|--------|-------|--------|-------|--------|--------|---------|
| Time | EB on | EB off | EB on | EB off | EB on | EB off | EB on | EB off | EB on | EB off | EB on | EB off | EB on | EB off | EB on | EB off |
| 12:00 AM | 17 | 29 | * | * | * | * | * | * | * | * | * | * | * | * | 17 | 2 |
| 01:00 | 10 | 12 | * | * | * | * | * | * | * | * | * | * | * | * | 10 | 1 |
| 02:00 | 4 | 16 | * | * | * | * | * | * | * | * | * | * | * | * | 4 | 1 |
| 03:00 | 8 | 10 | * | * | * | * | * | * | * | * | * | * | * | * | 8 | 1 |
| 04:00 | 19 | 27 | * | * | * | * | * | * | * | * | * | * | * | * | 19 | 2 |
| 05:00 | 26 | 36 | * | * | * | * | * | * | * | * | * | * | * | * | 26 | 3 |
| 06:00 | 46 | 82 | * | * | * | * | * | * | * | * | * | * | * | * | 46 | 8 |
| 07:00 | 70 | 164 | * | * | * | * | * | * | * | * | * | * | * | * | 70 | 16 |
| 08:00 | 96 | 224 | * | * | * | * | * | * | * | * | * | * | * | * | 96 | 22 |
| 09:00 | 126 | 136 | * | * | * | * | * | * | * | * | * | * | * | * | 126 | 13 |
| 10:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | |
| 11:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | |
| 12:00 PM | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | |
| 01:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | |
| 02:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | |
| 03:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | |
| 04:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | |
| 05:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | |
| 06:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | |
| 07:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | |
| 08:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | |
| 09:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | |
| 10:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | |
| 11:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | |
| Lane | 422 | 736 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 422 | 73 |
| Day | 115 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 115 | |
| AM Peak | 09:00 | 08:00 | | | | | | | | | | | | | 09:00 | 08:0 |
| Vol. | 126 | 224 | | | | | | | | | | | | | 126 | 22 |
| PM Peak | | | | | | | | | | | | | | | | |
| Vol. | | | | | | | | | | | | | | | | |
| Comb. Total | | 1158 | | 0 | | 0 | | 0 | | 5021 | | 5206 | | 4626 | | 6237 |
| ADT | | ADT 4 | 1,916 | А | ADT 4,916 | | | | | | | | | | | |

I-64 EIS counts I-64 Exit 242 - Jamestown/Water Counrty 3656 E. Stratford Road Virginia Beach, VA 23455 (757) 464-5129

I-64 EIS #24207-08 Wknd

I-64 EB on ramp fm EB Rt 199 I-64 EB off ramp to EB Rt 199

| Start | 20-Jun | n-11 | Т | ue | W | ed | Th | nu | F | ri | | Sat | S | un | Week A | Average |
|----------|--------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|--------|---------|
| Time | EB on | EB off | EB on | EB off | EB on | EB off | EB on | EB off | EB on | EB off | EB on | EB off | EB on | EB off | EB on | EB off |
| 12:00 AM | * | * | * | * | * | * | * | * | * | * | 120 | 8 | 148 | 15 | 134 | 12 |
| 01:00 | * | * | * | * | * | * | * | * | * | * | 62 | 13 | 71 | 7 | 66 | 10 |
| 02:00 | * | * | * | * | * | * | * | * | * | * | 50 | 5 | 61 | 3 | 56 | 4 |
| 03:00 | * | * | * | * | * | * | * | * | * | * | 35 | 5 | 37 | 4 | 36 | 4 |
| 04:00 | * | * | * | * | * | * | * | * | * | * | 55 | 15 | 34 | 4 | 44 | 10 |
| 05:00 | * | * | * | * | * | * | * | * | * | * | 97 | 9 | 71 | 5 | 84 | 7 |
| 06:00 | * | * | * | * | * | * | * | * | * | * | 207 | 33 | 132 | 13 | 170 | 23 |
| 07:00 | * | * | * | * | * | * | * | * | * | * | 300 | 42 | 188 | 38 | 244 | 40 |
| 08:00 | * | * | * | * | * | * | * | * | 751 | 84 | 346 | 63 | 291 | 41 | 463 | 63 |
| 09:00 | * | * | * | * | * | * | * | * | 608 | 141 | 464 | 183 | 375 | 133 | 482 | 152 |
| 10:00 | * | * | * | * | * | * | * | * | 589 | 197 | 528 | 257 | 454 | 249 | 524 | 234 |
| 11:00 | * | * | * | * | * | * | * | * | 629 | 184 | 457 | 245 | 473 | 217 | 520 | 215 |
| 12:00 PM | * | * | * | * | * | * | * | * | 622 | 159 | 485 | 185 | 475 | 168 | 527 | 171 |
| 01:00 | * | * | * | * | * | * | * | * | 583 | 145 | 454 | 188 | 500 | 194 | 512 | 176 |
| 02:00 | * | * | * | * | * | * | * | * | 629 | 129 | 484 | 203 | 469 | 128 | 527 | 153 |
| 03:00 | * | * | * | * | * | * | * | * | 613 | 191 | 468 | 118 | 502 | 114 | 528 | 141 |
| 04:00 | * | * | * | * | * | * | * | * | 449 | 286 | 511 | 137 | 497 | 99 | 486 | 174 |
| 05:00 | * | * | * | * | * | * | * | * | 415 | 224 | 495 | 226 | 500 | 96 | 470 | 182 |
| 06:00 | * | * | * | * | * | * | * | * | 402 | 135 | 412 | 92 | 453 | 93 | 422 | 107 |
| 07:00 | * | * | * | * | * | * | * | * | 362 | 72 | 366 | 85 | 378 | 64 | 369 | 74 |
| 08:00 | * | * | * | * | * | * | * | * | 267 | 58 | 334 | 80 | 332 | 54 | 311 | 64 |
| 09:00 | * | * | * | * | * | * | * | * | 345 | 53 | 408 | 43 | 360 | 37 | 371 | 44 |
| 10:00 | * | * | * | * | * | * | * | * | 345 | 38 | 360 | 44 | 210 | 31 | 305 | 38 |
| 11:00 | * | * | * | * | * | * | * | * | 256 | 22 | 261 | 21 | 171 | 17 | 229 | 20 |
| Lane | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7865 | 2118 | 7759 | 2300 | 7182 | 1824 | 7880 | 2118 |
| Day | 0 | | 0 | | 0 | | 0 | | 998 | | 100 | | 900 | | 999 | |
| AM Peak | | | | | | | | | 08:00 | 10:00 | 10:00 | 10:00 | 11:00 | 10:00 | 10:00 | 10:00 |
| Vol. | | | | | | | | | 751 | 197 | 528 | 257 | 473 | 249 | 524 | 234 |
| PM Peak | | | | | | | | | 14:00 | 16:00 | 16:00 | 17:00 | 15:00 | 13:00 | 15:00 | 17:00 |
| Vol. | | | | | | | | | 629 | 286 | 511 | 226 | 502 | 194 | 528 | 182 |

I-64 EIS counts I-64 Exit 242 - Jamestown/Water Counrty 3656 E. Stratford Road Virginia Beach, VA 23455 (757) 464-5129

I-64 EIS #24207-08 Wknd

I-64 EB on ramp fm EB Rt 199 I-64 EB off ramp to EB Rt 199

| Start | 27-Ju | ın-11 | Т | ue | We | ed | Т | าน | F | ri | S | at | | un | Week A | Average |
|----------------|-------|--------|-------|--------|-----------|--------|-------|--------|-------|--------|-------|--------|-------|--------|--------|---------|
| Time | EB on | EB off | EB on | EB off | EB on | EB off | EB on | EB off | EB on | EB off | EB on | EB off | EB on | EB off | EB on | EB off |
| 12:00 AM | 83 | 12 | * | * | * | * | * | * | * | * | * | * | * | * | 83 | 1 |
| 01:00 | 42 | 3 | * | * | * | * | * | * | * | * | * | * | * | * | 42 | |
| 02:00 | 33 | 10 | * | * | * | * | * | * | * | * | * | * | * | * | 33 | 1 |
| 03:00 | 45 | 1 | * | * | * | * | * | * | * | * | * | * | * | * | 45 | |
| 04:00 | 88 | 4 | * | * | * | * | * | * | * | * | * | * | * | * | 88 | |
| 05:00 | 370 | 27 | * | * | * | * | * | * | * | * | * | * | * | * | 370 | 2 |
| 06:00 | 758 | 74 | * | * | * | * | * | * | * | * | * | * | * | * | 758 | 7 |
| 07:00 | 987 | 92 | * | * | * | * | * | * | * | * | * | * | * | * | 987 | 9: |
| 08:00 | 763 | 81 | * | * | * | * | * | * | * | * | * | * | * | * | 763 | 8 |
| 09:00 | 579 | 119 | * | * | * | * | * | * | * | * | * | * | * | * | 579 | 11 |
| 10:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | |
| 11:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | |
| 12:00 PM | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | |
| 01:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | |
| 02:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | |
| 03:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | |
| 04:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | |
| 05:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | |
| 06:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | |
| 07:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | |
| 08:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | |
| 09:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | |
| 10:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | |
| 11:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | |
| Lane | 3748 | 423 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3748 | 42 |
| Day | 41 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 417 | |
| AM Peak | 07:00 | 09:00 | | | | | | | | | | | | | 07:00 | 09:0 |
| Vol. | 987 | 119 | | | | | | | | | | | | | 987 | 11 |
| PM Peak | | | | | | | | | | | | | | | | |
| Vol. | | | | | | | | | | | | | | | | |
| Comb. Total | | 4171 | | 0 | | 0 | | 0 | | 9983 | | 10059 | | 9006 | | 14169 |
| ADT | | ADT 9 | 9,532 | А | ADT 9,532 | | | | | | | | | | | |

I-64 EIS counts I-64 Exit 242 - Jamestown/Water Country 3656 E. Stratford Road Virginia Beach, VA 23455 (757) 464-5129

I-64 EIS #24209 Wknd

Rt199 EB, E of EB on/off fm EB/to WB 199 Rt199 WB, E of EB on/off fm EB/to WB 199

| Start | 20-Jun-1 | 11 | Tu | <u>е</u> | We | d | Thu | ı | | Fri | | Sat | 5 | Bun | Week A | verage |
|----------|----------|----|----|----------|----|----|-----|----|-------|-------|-------|-------|-------|-------|--------|--------|
| Time | EB | WB | EB | WB | EB | WB | EB | WB | EB | WB | EB | WB | EB | WB | EB | ЙB |
| 12:00 AM | * | * | * | * | * | * | * | * | * | * | 48 | 115 | 45 | 128 | 46 | 122 |
| 01:00 | * | * | * | * | * | * | * | * | * | * | 20 | 99 | 23 | 109 | 22 | 104 |
| 02:00 | * | * | * | * | * | * | * | * | * | * | 10 | 69 | 23 | 66 | 16 | 68 |
| 03:00 | * | * | * | * | * | * | * | * | * | * | 20 | 68 | 10 | 40 | 15 | 54 |
| 04:00 | * | * | * | * | * | * | * | * | * | * | 19 | 55 | 9 | 25 | 14 | 40 |
| 05:00 | * | * | * | * | * | * | * | * | * | * | 44 | 136 | 20 | 81 | 32 | 108 |
| 06:00 | * | * | * | * | * | * | * | * | * | * | 88 | 257 | 67 | 188 | 78 | 222 |
| 07:00 | * | * | * | * | * | * | * | * | * | * | 161 | 431 | 112 | 300 | 136 | 366 |
| 08:00 | * | * | * | * | * | * | * | * | 317 | 1003 | 263 | 511 | 181 | 393 | 254 | 636 |
| 09:00 | * | * | * | * | * | * | * | * | 402 | 720 | 427 | 562 | 358 | 444 | 396 | 575 |
| 10:00 | * | * | * | * | * | * | * | * | 586 | 651 | 710 | 530 | 553 | 532 | 616 | 571 |
| 11:00 | * | * | * | * | * | * | * | * | 580 | 799 | 682 | 560 | 605 | 543 | 622 | 634 |
| 12:00 PM | * | * | * | * | * | * | * | * | 589 | 840 | 661 | 675 | 619 | 560 | 623 | 692 |
| 01:00 | * | * | * | * | * | * | * | * | 560 | 870 | 591 | 718 | 606 | 615 | 586 | 734 |
| 02:00 | * | * | * | * | * | * | * | * | 520 | 918 | 606 | 728 | 592 | 605 | 573 | 750 |
| 03:00 | * | * | * | * | * | * | * | * | 555 | 1110 | 670 | 767 | 640 | 664 | 622 | 847 |
| 04:00 | * | * | * | * | * | * | * | * | 613 | 1078 | 497 | 883 | 459 | 762 | 523 | 908 |
| 05:00 | * | * | * | * | * | * | * | * | 627 | 1116 | 434 | 859 | 412 | 722 | 491 | 899 |
| 06:00 | * | * | * | * | * | * | * | * | 374 | 918 | 331 | 842 | 271 | 669 | 325 | 810 |
| 07:00 | * | * | * | * | * | * | * | * | 327 | 739 | 332 | 655 | 249 | 574 | 303 | 656 |
| 08:00 | * | * | * | * | * | * | * | * | 278 | 515 | 293 | 631 | 208 | 509 | 260 | 552 |
| 09:00 | * | * | * | * | * | * | * | * | 237 | 477 | 224 | 421 | 234 | 373 | 232 | 424 |
| 10:00 | * | * | * | * | * | * | * | * | 140 | 313 | 192 | 414 | 137 | 222 | 156 | 316 |
| 11:00 | * | * | * | * | * | * | * | * | 98 | 213 | 104 | 226 | 74 | 105 | 92 | 181 |
| Lane | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6803 | 12280 | 7427 | 11212 | 6507 | 9229 | 7033 | 11269 |
| Day | 0 | | 0 | | 0 | | 0 | | 190 |)83 | 186 | 39 | 157 | '36 | 1830 |)2 |
| AM Peak | | | | | | | | | 10:00 | 08:00 | 10:00 | 09:00 | 11:00 | 11:00 | 11:00 | 08:00 |
| Vol. | | | | | | | | | 586 | 1003 | 710 | 562 | 605 | 543 | 622 | 636 |
| PM Peak | | | | | | | | | 17:00 | 17:00 | 15:00 | 16:00 | 15:00 | 16:00 | 12:00 | 16:00 |
| Vol. | | | | | | | | | 627 | 1116 | 670 | 883 | 640 | 762 | 623 | 908 |

I-64 EIS counts I-64 Exit 242 - Jamestown/Water Country 3656 E. Stratford Road Virginia Beach, VA 23455 (757) 464-5129

I-64 EIS #24209 Wknd

Rt199 EB, E of EB on/off fm EB/to WB 199 Rt199 WB, E of EB on/off fm EB/to WB 199

| Start | 27-Ju | ın-11 | Tu | e | We | d | Th | J . | Fr | i | Sa | at . | Sur |) | Week Av | erage |
|----------|-------|--------|-------|-----|-----------|----|----|-----|----|-------|----|-------|-----|-------|---------|-------|
| Time | EB | WB | EB | WB | EB | WB | EB | WB | EB | WB | EB | WB | EB | WB | EB | WВ |
| 12:00 AM | 46 | 76 | * | * | * | * | * | * | * | * | * | * | * | * | 46 | 7 |
| 01:00 | 17 | 47 | * | * | * | * | * | * | * | * | * | * | * | * | 17 | 4 |
| 02:00 | 12 | 33 | * | * | * | * | * | * | * | * | * | * | * | * | 12 | 3 |
| 03:00 | 13 | 29 | * | * | * | * | * | * | * | * | * | * | * | * | 13 | 2 |
| 04:00 | 17 | 61 | * | * | * | * | * | * | * | * | * | * | * | * | 17 | 6 |
| 05:00 | 73 | 217 | * | * | * | * | * | * | * | * | * | * | * | * | 73 | 21 |
| 06:00 | 175 | 473 | * | * | * | * | * | * | * | * | * | * | * | * | 175 | 47 |
| 07:00 | 227 | 871 | * | * | * | * | * | * | * | * | * | * | * | * | 227 | 87 |
| 08:00 | 319 | 963 | * | * | * | * | * | * | * | * | * | * | * | * | 319 | 96 |
| 09:00 | 383 | 771 | * | * | * | * | * | * | * | * | * | * | * | * | 383 | 77 |
| 10:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | |
| 11:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | |
| 12:00 PM | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | |
| 01:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | |
| 02:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | |
| 03:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | |
| 04:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | |
| 05:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | |
| 06:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | |
| 07:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | |
| 08:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | |
| 09:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | |
| 10:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | |
| 11:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | |
| Lane | 1282 | 3541 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1282 | 354 |
| Day | 482 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 4823 | |
| AM Peak | 09:00 | 08:00 | | | | | | | | | | | | | 09:00 | 08:0 |
| Vol. | 383 | 963 | | | | | | | | | | | | | 383 | 96 |
| PM Peak | | | | | | | | | | | | | | | | |
| Vol. | | | | | | | | | | | | | | | | |
| Comb. | | 4823 | | 0 | | 0 | | 0 | | 19083 | | 18639 | | 15736 | | 23125 |
| Total | | 4023 | | U | | U | | U | | 19003 | | 10039 | | 13730 | | 23125 |
| ADT | | ADT 17 | ',188 | AAD | OT 17,188 | | | | | | | | | | | |

I-64 EIS counts I-64 Exit 243 - Williamsburg/Busch 3656 E. Stratford Road Virginia Beach, VA 23455 (757) 464-5129

I-64 EIS #24301-05 Wknd

I-64 EB off ramp to WB Rt 143 I-64 WB off ramp to WB Rt 143

| Start | 20-Jui | n-11 | T | ue | W | ed | T | nu | F | -ri | 5 | Sat | S | un | Week A | Average |
|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|
| Time | EB off | WB off |
| 12:00 AM | * | * | * | * | * | * | * | * | * | * | 3 | 46 | 2 | 59 | 2 | 52 |
| 01:00 | * | * | * | * | * | * | * | * | * | * | 1 | 41 | 4 | 45 | 2 | 43 |
| 02:00 | * | * | * | * | * | * | * | * | * | * | 1 | 23 | 3 | 33 | 2 | 28 |
| 03:00 | * | * | * | * | * | * | * | * | * | * | 2 | 27 | 2 | 12 | 2 | 20 |
| 04:00 | * | * | * | * | * | * | * | * | * | * | 0 | 16 | 0 | 15 | 0 | 16 |
| 05:00 | * | * | * | * | * | * | * | * | * | * | 0 | 26 | 0 | 26 | 0 | 26 |
| 06:00 | * | * | * | * | * | * | * | * | * | * | 2 | 81 | 3 | 59 | 2 | 70 |
| 07:00 | * | * | * | * | * | * | * | * | 4 | 240 | 5 | 127 | 3 | 90 | 4 | 152 |
| 08:00 | * | * | * | * | * | * | * | * | 10 | 227 | 3 | 139 | 4 | 87 | 6 | 151 |
| 09:00 | * | * | * | * | * | * | * | * | 11 | 153 | 12 | 136 | 2 | 103 | 8 | 131 |
| 10:00 | * | * | * | * | * | * | * | * | 7 | 142 | 14 | 119 | 12 | 128 | 11 | 130 |
| 11:00 | * | * | * | * | * | * | * | * | 14 | 171 | 14 | 103 | 8 | 123 | 12 | 132 |
| 12:00 PM | * | * | * | * | * | * | * | * | 14 | 207 | 46 | 127 | 16 | 127 | 25 | 154 |
| 01:00 | * | * | * | * | * | * | * | * | 10 | 197 | 43 | 145 | 14 | 133 | 22 | 158 |
| 02:00 | * | * | * | * | * | * | * | * | 44 | 217 | 126 | 156 | 16 | 88 | 62 | 154 |
| 03:00 | * | * | * | * | * | * | * | * | 152 | 152 | 73 | 150 | 9 | 98 | 78 | 133 |
| 04:00 | * | * | * | * | * | * | * | * | 125 | 210 | 135 | 181 | 11 | 141 | 90 | 177 |
| 05:00 | * | * | * | * | * | * | * | * | 139 | 243 | 84 | 172 | 13 | 123 | 79 | 179 |
| 06:00 | * | * | * | * | * | * | * | * | 26 | 198 | 263 | 132 | 54 | 139 | 114 | 156 |
| 07:00 | * | * | * | * | * | * | * | * | 8 | 153 | 96 | 129 | 9 | 114 | 38 | 132 |
| 08:00 | * | * | * | * | * | * | * | * | 10 | 117 | 7 | 107 | 9 | 134 | 9 | 119 |
| 09:00 | * | * | * | * | * | * | * | * | 7 | 119 | 6 | 117 | 7 | 123 | 7 | 120 |
| 10:00 | * | * | * | * | * | * | * | * | 5 | 96 | 4 | 86 | 4 | 64 | 4 | 82 |
| 11:00 | * | * | * | * | * | * | * | * | 5 | 80 | 2 | 62 | 1 | 44 | 3 | 62 |
| Lane | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 591 | 2922 | 942 | 2448 | 206 | 2108 | 582 | 2577 |
| Day | 0 | | 0 | | 0 | | 0 | | 351 | | 339 | 90 | 231 | | 315 | |
| AM Peak | | | | | | | | | 11:00 | 07:00 | 10:00 | 08:00 | 10:00 | 10:00 | 11:00 | 07:00 |
| Vol. | | | | | | | | | 14 | 240 | 14 | 139 | 12 | 128 | 12 | 152 |
| PM Peak | | | | | | | | | 15:00 | 17:00 | 18:00 | 16:00 | 18:00 | 16:00 | 18:00 | 17:00 |
| Vol. | | | | | | | | | 152 | 243 | 263 | 181 | 54 | 141 | 114 | 179 |

I-64 EIS counts I-64 Exit 243 - Williamsburg/Busch 3656 E. Stratford Road Virginia Beach, VA 23455 (757) 464-5129

I-64 EIS #24301-05 Wknd

I-64 EB off ramp to WB Rt 143 I-64 WB off ramp to WB Rt 143

| Start | 27-Ju | ın-11 | T | ue | We | ed | Т | hu | F | ri | S | at | S | un | Week Av | erage |
|----------|--------|--------|--------|--------|-----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|--------|
| Time | EB off | WB off | EB off | WB off | EB off | WB off | EB off | WB off | EB off | WB off | EB off | WB off | EB off | WB off | EB off | WB off |
| 12:00 AM | 3 | 31 | * | * | * | * | * | * | * | * | * | * | * | * | 3 | 3 |
| 01:00 | 2 | 26 | * | * | * | * | * | * | * | * | * | * | * | * | 2 | 2 |
| 02:00 | 1 | 27 | * | * | * | * | * | * | * | * | * | * | * | * | 1 | 2 |
| 03:00 | 0 | 13 | * | * | * | * | * | * | * | * | * | * | * | * | 0 | 1 |
| 04:00 | 1 | 33 | * | * | * | * | * | * | * | * | * | * | * | * | 1 | 3 |
| 05:00 | 1 | 53 | * | * | * | * | * | * | * | * | * | * | * | * | 1 | 5 |
| 06:00 | 8 | 113 | * | * | * | * | * | * | * | * | * | * | * | * | 8 | 11 |
| 07:00 | 12 | 233 | * | * | * | * | * | * | * | * | * | * | * | * | 12 | 23 |
| 08:00 | 10 | 230 | * | * | * | * | * | * | * | * | * | * | * | * | 10 | 23 |
| 09:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | |
| 10:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | |
| 11:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | |
| 12:00 PM | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | |
| 01:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | |
| 02:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | |
| 03:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | |
| 04:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | |
| 05:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | |
| 06:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | |
| 07:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | |
| 08:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | |
| 09:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | |
| 10:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | |
| 11:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | |
| Lane | 38 | 759 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 38 | 75 |
| Day | 79 | 7 | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 797 | |
| AM Peak | 07:00 | 07:00 | | | | | | | | | | | | | 07:00 | 07:0 |
| Vol. | 12 | 233 | | | | | | | | | | | | | 12 | 23 |
| PM Peak | | | | | | | | | | | | | | | | |
| Vol. | | | | | | | | | | | | | | | | |
| Comb. | | 707 | | 0 | | 0 | | 0 | | 0540 | | 0000 | | 0044 | | 0050 |
| Total | | 797 | | 0 | | 0 | | 0 | | 3513 | | 3390 | | 2314 | | 3956 |
| ADT | | ADT 2 | 2,852 | A | ADT 2,852 | | | | | | | | | | | |

I-64 EIS counts I-64 Exit 243 - Williamsburg/Busch 3656 E. Stratford Road Virginia Beach, VA 23455 (757) 464-5129

I-64 EIS #24302-03 Wknd

I-64 WB on ramp to Busch Gardens I-64 WB off ramp fm Busch Gardens

| Start | 20-Ju | n-11 | Tu | ue | W | ed | TI | nu | F | ri | 5 | Sat | S | un | Week A | Average |
|----------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|--------|---------|
| Time | WB on | WB off | WB on | WB off |
| 12:00 AM | * | * | * | * | * | * | * | * | * | * | 48 | 20 | 48 | 31 | 48 | 26 |
| 01:00 | * | * | * | * | * | * | * | * | * | * | 38 | 19 | 21 | 17 | 30 | 18 |
| 02:00 | * | * | * | * | * | * | * | * | * | * | 33 | 9 | 13 | 13 | 23 | 11 |
| 03:00 | * | * | * | * | * | * | * | * | * | * | 33 | 13 | 9 | 13 | 21 | 13 |
| 04:00 | * | * | * | * | * | * | * | * | * | * | 23 | 18 | 18 | 9 | 20 | 14 |
| 05:00 | * | * | * | * | * | * | * | * | * | * | 40 | 39 | 31 | 32 | 36 | 36 |
| 06:00 | * | * | * | * | * | * | * | * | * | * | 82 | 88 | 37 | 87 | 60 | 88 |
| 07:00 | * | * | * | * | * | * | * | * | * | * | 93 | 143 | 65 | 97 | 79 | 120 |
| 08:00 | * | * | * | * | * | * | * | * | 137 | 246 | 97 | 181 | 81 | 168 | 105 | 198 |
| 09:00 | * | * | * | * | * | * | * | * | 135 | 283 | 112 | 323 | 88 | 325 | 112 | 310 |
| 10:00 | * | * | * | * | * | * | * | * | 118 | 344 | 131 | 445 | 111 | 501 | 120 | 430 |
| 11:00 | * | * | * | * | * | * | * | * | 154 | 366 | 187 | 394 | 130 | 407 | 157 | 389 |
| 12:00 PM | * | * | * | * | * | * | * | * | 150 | 315 | 185 | 340 | 136 | 310 | 157 | 322 |
| 01:00 | * | * | * | * | * | * | * | * | 171 | 260 | 207 | 326 | 174 | 375 | 184 | 320 |
| 02:00 | * | * | * | * | * | * | * | * | 247 | 194 | 251 | 346 | 205 | 313 | 234 | 284 |
| 03:00 | * | * | * | * | * | * | * | * | 370 | 181 | 274 | 288 | 306 | 381 | 317 | 283 |
| 04:00 | * | * | * | * | * | * | * | * | 352 | 175 | 250 | 303 | 274 | 396 | 292 | 291 |
| 05:00 | * | * | * | * | * | * | * | * | 317 | 199 | 289 | 378 | 295 | 255 | 300 | 277 |
| 06:00 | * | * | * | * | * | * | * | * | 252 | 195 | 332 | 216 | 282 | 171 | 289 | 194 |
| 07:00 | * | * | * | * | * | * | * | * | 262 | 132 | 268 | 127 | 272 | 116 | 267 | 125 |
| 08:00 | * | * | * | * | * | * | * | * | 239 | 74 | 342 | 92 | 388 | 140 | 323 | 102 |
| 09:00 | * | * | * | * | * | * | * | * | 300 | 72 | 417 | 78 | 559 | 136 | 425 | 95 |
| 10:00 | * | * | * | * | * | * | * | * | 263 | 105 | 536 | 108 | 249 | 86 | 349 | 100 |
| 11:00 | * | * | * | * | * | * | * | * | 55 | 54 | 81 | 61 | 100 | 47 | 79 | 54 |
| Lane | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3522 | 3195 | 4349 | 4355 | 3892 | 4426 | 4027 | 4100 |
| Day | 0 | | 0 | | 0 | | 0 | | 671 | | 870 | | 831 | | 812 | |
| AM Peak | | | | | | | | | 11:00 | 11:00 | 11:00 | 10:00 | 11:00 | 10:00 | 11:00 | 10:00 |
| Vol. | | | | | | | | | 154 | 366 | 187 | 445 | 130 | 501 | 157 | 430 |
| PM Peak | | | | | | | | | 15:00 | 12:00 | 22:00 | 17:00 | 21:00 | 16:00 | 21:00 | 12:00 |
| Vol. | | | | | | | | | 370 | 315 | 536 | 378 | 559 | 396 | 425 | 322 |

I-64 EIS counts I-64 Exit 243 - Williamsburg/Busch 3656 E. Stratford Road Virginia Beach, VA 23455 (757) 464-5129

I-64 EIS #24302-03 Wknd

I-64 WB on ramp to Busch Gardens I-64 WB off ramp fm Busch Gardens

| Start | 27-Ju | | Т | ue | W | ed | Т | hu | F | ri | S | at | Sı | ın | Week A | Average |
|----------------|-------|--------|-------|--------|-----------|--------|-------|--------|-------|--------|-------|--------|-------|--------|--------|---------|
| Time | WB on | WB off | WB on | WB off | WB on | WB off | WB on | WB off | WB on | WB off | WB on | WB off | WB on | WB off | WB on | WB off |
| 12:00 AM | 35 | 18 | * | * | * | * | * | * | * | * | * | * | * | * | 35 | 18 |
| 01:00 | 35 | 7 | * | * | * | * | * | * | * | * | * | * | * | * | 35 | 7 |
| 02:00 | 23 | 11 | * | * | * | * | * | * | * | * | * | * | * | * | 23 | 11 |
| 03:00 | 31 | 8 | * | * | * | * | * | * | * | * | * | * | * | * | 31 | 8 |
| 04:00 | 40 | 27 | * | * | * | * | * | * | * | * | * | * | * | * | 40 | 27 |
| 05:00 | 78 | 57 | * | * | * | * | * | * | * | * | * | * | * | * | 78 | 57 |
| 06:00 | 108 | 114 | * | * | * | * | * | * | * | * | * | * | * | * | 108 | 114 |
| 07:00 | 124 | 183 | * | * | * | * | * | * | * | * | * | * | * | * | 124 | 183 |
| 08:00 | 125 | 242 | * | * | * | * | * | * | * | * | * | * | * | * | 125 | 242 |
| 09:00 | 128 | 273 | * | * | * | * | * | * | * | * | * | * | * | * | 128 | 273 |
| 10:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | , |
| 11:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | , |
| 12:00 PM | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 01:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | , |
| 02:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | , |
| 03:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | , |
| 04:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | • |
| 05:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 1 |
| 06:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 1 |
| 07:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | , |
| 08:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | • |
| 09:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 1 |
| 10:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | • |
| 11:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| Lane | 727 | 940 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 727 | 940 |
| Day | 166 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 166 | |
| AM Peak | 09:00 | 09:00 | | | | | | | | | | | | | 09:00 | 09:00 |
| Vol. | 128 | 273 | | | | | | | | | | | | | 128 | 273 |
| PM Peak | | | | | | | | | | | | | | | | |
| Vol. | | | | | | | | | | | | | | | | |
| Comb. Total | | 1667 | | 0 | | 0 | | 0 | | 6717 | | 8704 | | 8318 | | 9794 |
| ADT | | ADT 8 | 8,511 | A | ADT 8,511 | | | | | | | | | | | |

I-64 EIS counts I-64 Exit 243 - Williamsburg/Busch 3656 E. Stratford Road Virginia Beach, VA 23455 (757) 464-5129

I-64 EIS #24304 Wknd

I-64 EB off ramp to Busch Gardens

| Start | Mon | Tue | Wed | Thu | Fri | Average | Sat | Sun | Week |
|-----------|-----------|-----------|-----------|-----------|-----------|---------|-----------|-----------|----------------|
| Time | 20-Jun-11 | 21-Jun-11 | 22-Jun-11 | 23-Jun-11 | 24-Jun-11 | Day | 25-Jun-11 | 26-Jun-11 | <u>Average</u> |
| 12:00 AM | * | * | * | * | * | * | 29 | 30 | 30 🔲 |
| 01:00 | * | * | * | * | * | * | 20 | 15 | 18 |
| 02:00 | * | * | * | * | * | * | 12 | 20 | 16 🛮 |
| 03:00 | * | * | * | * | * | * | 9 | 4 | 6] |
| 04:00 | * | * | * | * | * | * | 17 | 10 | 14 🛮 |
| 05:00 | * | * | * | * | * | * | 33 | 20 | 26 |
| 06:00 | * | * | * | * | * | * | 22 | 15 | 18 🛮 |
| 07:00 | * | * | * | * | * | * | 52 | 32 | 42 |
| 08:00 | * | * | * | * | * | * | 83 | 39 | 61 |
| 09:00 | * | * | * | * | * | * | 311 | 228 | 270 |
| 10:00 | * | * | * | * | 395 | 395 | 425 | 328 | 383 |
| 11:00 | * | * | * | * | 277 | 277 | 300 | 289 | 289 |
| 12:00 PM | * | * | * | * | 214 | 214 | 305 | 285 | 268 |
| 01:00 | * | * | * | * | 194 | 194 | 296 | 245 | 245 |
| 02:00 | * | * | * | * | 207 | 207 | 439 | 271 | 306 |
| 03:00 | * | * | * | * | 652 | 652 | 244 | 250 | 382 |
| 04:00 | * | * | * | * | 629 | 629 | 448 | 266 | 448 |
| 05:00 | * | * | * | * | 484 | 484 | 669 | 219 | 457 |
| 06:00 | * | * | * | * | 206 | 206 | 705 | 212 | 374 |
| 07:00 | * | * | * | * | 139 | 139 | 353 | 160 | 217 |
| 08:00 | * | * | * | * | 99 | 99 | 117 | 110 | 109 |
| 09:00 | * | * | * | * | 86 | 86 | 84 | 102 | 91 |
| 10:00 | * | * | * | * | 72 | 72 | 81 | 48 | 67 |
| 11:00 | * | * | * | * | 50 | 50 | 40 | 43 | 44 |
| Day Total | 0 | 0 | 0 | 0 | 3704 | 3704 | 5094 | 3241 | 4181 |
| % Avg. | | | | | | 5.5. | 33,1 | <u></u> | |
| WkDay | 0.0% | 0.0% | 0.0% | 0.0% | 100.0% | | | | |
| Avg. Week | 0.0% | 0.0% | 0.0% | 0.0% | 88.6% | 88.6% | 121.8% | 77.5% | |
| AM Peak | | | | | 10:00 | 10:00 | 10:00 | 10:00 | 10:00 |
| Vol. | | | | | 395 | 395 | 425 | 328 | 383 |
| PM Peak | | | | | 15:00 | 15:00 | 18:00 | 12:00 | 17:00 |
| Vol. | | | | | 652 | 652 | 705 | 285 | 457 |

I-64 EIS counts I-64 Exit 243 - Williamsburg/Busch 3656 E. Stratford Road Virginia Beach, VA 23455 (757) 464-5129

I-64 EIS #24304 Wknd

I-64 EB off ramp to Busch Gardens

| Start | Mon | Tue | Wed | Thu | Fri | Average | Sat | Sun | Week |
|-------------|-----------|----------------|----------------|-----------|----------------|---------|----------------|----------------|---------|
| Time | 27-Jun-11 | 28-Jun-11 * | 29-Jun-11 * | 30-Jun-11 | 01-Jul-11 * | Day | 02-Jul-11 * | 03-Jul-11 * | Average |
| 12:00 AM | 19 | * | * | * | * | 19 | * | * | 19 🗓 |
| 01:00 | 18 | * | | * | * | 18 | * | | 18 |
| 02:00 | 10 | | * | | | 10 | | * | 10 🎚 |
| 03:00 | 8 | * | * | * | * | 8 | * | * | 8] |
| 04:00 | 15 | * | * | * | * | 15 | * | * | 15 📗 |
| 05:00 | 43 | * | * | * | * | 43 | * | * | 43 |
| 06:00 | 62 | * | * | * | * | 62 | * | * | 62 |
| 07:00 | 93 | * | * | * | * | 93 | * | * | 93 |
| 08:00 | 97 | * | * | * | * | 97 | * | * | 97 |
| 09:00 | 255 | * | * | * | * | 255 | * | * | 255 |
| 10:00 | 315 | * | * | * | * | 315 | * | * | 315 |
| 11:00 | * | * | * | * | * | * | * | * | * |
| 12:00 PM | * | * | * | * | * | * | * | * | * |
| 01:00 | * | * | * | * | * | * | * | * | * |
| 02:00 | * | * | * | * | * | * | * | * | * |
| 03:00 | * | * | * | * | * | * | * | * | * |
| 04:00 | * | * | * | * | * | * | * | * | * |
| 05:00 | * | * | * | * | * | * | * | * | * |
| 06:00 | * | * | * | * | * | * | * | * | * |
| 07:00 | * | * | * | * | * | * | * | * | * |
| 08:00 | * | * | * | * | * | * | * | * | * |
| 09:00 | * | * | * | * | * | * | * | * | * |
| 10:00 | * | * | * | * | * | * | * | * | * |
| 11:00 | * | * | * | * | * | * | * | * | * |
| Day Total | 935 | 0 | 0 | 0 | 0 | 935 | 0 | 0 | 935 |
| % Avg. | | | | | | , , , | | <u> </u> | |
| WkDay | 100.0% | 0.0% | 0.0% | 0.0% | 0.0% | | | | |
| % Avg. Week | 100.0% | 0.0% | 0.0% | 0.0% | 0.0% | 100.0% | 0.0% | 0.0% | |
| AM Peak | 10:00 | 0.070 | 0.070 | 0.070 | 3.0.0 | 10:00 | 0.0.0 | 2.0.0 | 10:00 |
| Vol. | 315 | | | | | 315 | | | 315 |
| PM Peak | 3.0 | | | | | 0.0 | | | 3.0 |
| Vol. | | | | | | | | | |
| Grand Tota | al | 935 | 0 | 0 | 0 3704 | 4639 | 509 | 94 3241 | 5116 |
| Granu rote | | | | | | | | | |
| AD | | | 4,168 | | AADT 4,168 | | | | |

I-64 EIS counts I-64 Exit 243 - Williamsburg/Busch 3656 E. Stratford Road Virginia Beach, VA 23455 (757) 464-5129

I-64 EIS #24306 Wknd

I-64 EB on ramp fm Busch Gardens

| Start | Mon | Tue | Wed | Thu | Fri | Average | Sat | Sun | Week |
|-----------|----------------|-----------|-----------|-----------|-----------|----------|-----------|-----------|---------|
| Time | 20-Jun-11 * | 21-Jun-11 | 22-Jun-11 | 23-Jun-11 | 24-Jun-11 | Day * | 25-Jun-11 | 26-Jun-11 | Average |
| 12:00 AM | | | | * | * | | 62 | 77 | 70 |
| 01:00 | * | * | * | * | * | * | 28 | 33 | 30 |
| 02:00 | | * | * | * | * | * | 9 | 16 | 12 🛭 |
| 03:00 | * | * | * | * | * | * | 14 | 17 | 16] |
| 04:00 | | * | * | * | * | * | 27 | 6 | 16 🛘 |
| 05:00 | * | * | * | * | * | * | 16 | 5 | 10] |
| 06:00 | | | | | | | 32 | 22 | 27 🛚 |
| 07:00 | * | * | * | * | 151 | 151 | 81 | 75 | 102 |
| 08:00 | * | * | * | * | 120 | 120 | 92 | 68 | 93 |
| 09:00 | * | * | * | * | 117 | 117 | 106 | 74 | 99 |
| 10:00 | * | * | * | * | 118 | 118 | 102 | 93 | 104 |
| 11:00 | * | * | * | * | 145 | 145 | 112 | 88 | 115 |
| 12:00 PM | * | * | * | * | 122 | 122 | 111 | 78 | 104 |
| 01:00 | * | * | * | * | 158 | 158 | 122 | 128 | 136 |
| 02:00 | * | * | * | * | 203 | 203 | 153 | 160 | 172 |
| 03:00 | * | * | * | * | 270 | 270 | 187 | 220 | 226 |
| 04:00 | * | * | * | * | 267 | 267 | 269 | 271 | 269 |
| 05:00 | * | * | * | * | 236 | 236 | 253 | 272 | 254 |
| 06:00 | * | * | * | * | 192 | 192 | 289 | 286 | 256 |
| 07:00 | * | * | * | * | 229 | 229 | 309 | 424 | 321 |
| 08:00 | * | * | * | * | 248 | 248 | 437 | 571 | 419 |
| 09:00 | * | * | * | * | 283 | 283 | 687 | 987 | 652 |
| 10:00 | * | * | * | * | 314 | 314 | 812 | 336 | 487 |
| 11:00 | * | * | * | * | 183 | 183 | 241 | 254 | 226 |
| Day Total | 0 | 0 | 0 | 0 | 3356 | 3356 | 4551 | 4561 | 4216 |
| % Avg. | | | | | | | | | |
| WkDay | 0.0% | 0.0% | 0.0% | 0.0% | 100.0% | | | | |
| Avg. Week | 0.0% | 0.0% | 0.0% | 0.0% | 79.6% | 79.6% | 107.9% | 108.2% | |
| AM Peak | | | , | | 07:00 | 07:00 | 11:00 | 10:00 | 11:00 |
| Vol. | | | | | 151 | 151 | 112 | 93 | 115 |
| PM Peak | | | | | 22:00 | 22:00 | 22:00 | 21:00 | 21:00 |
| Vol. | | | | | 314 | 314 | 812 | 987 | 652 |

I-64 EIS counts I-64 Exit 243 - Williamsburg/Busch 3656 E. Stratford Road Virginia Beach, VA 23455 (757) 464-5129

I-64 EIS #24306 Wknd

I-64 EB on ramp fm Busch Gardens

| Start | Mon | Tue | Wed | Thu | Fri | Average | Sat | Sun | Week |
|-------------|-----------|-----------|-----------|-----------|------------|---------|-----------|-----------|-------------|
| Time | 27-Jun-11 | 28-Jun-11 | 29-Jun-11 | 30-Jun-11 | 01-Jul-11 | Day | 02-Jul-11 | 03-Jul-11 | Average |
| 12:00 AM | 119 | * | * | * | * | 119 | * | * | 119 |
| 01:00 | 39 | * | * | * | * | 39 | * | * | 39 |
| 02:00 | 10 | * | * | * | * | 10 | * | * | 10 🎚 |
| 03:00 | 13 | * | * | * | * | 13 | * | * | 13] |
| 04:00 | 15 | * | * | * | * | 15 | * | * | 15 <u>L</u> |
| 05:00 | 41 | * | * | * | * | 41 | * | * | 41 📃 |
| 06:00 | 76 | * | * | * | * | 76 | * | * | 76 |
| 07:00 | 166 | * | * | * | * | 166 | * | * | 166 |
| 08:00 | 114 | * | * | * | * | 114 | * | * | 114 |
| 09:00 | 129 | * | * | * | * | 129 | * | * | 129 |
| 10:00 | * | * | * | * | * | * | * | * | * |
| 11:00 | * | * | * | * | * | * | * | * | * |
| 12:00 PM | * | * | * | * | * | * | * | * | * |
| 01:00 | * | * | * | * | * | * | * | * | * |
| 02:00 | * | * | * | * | * | * | * | * | * |
| 03:00 | * | * | * | * | * | * | * | * | * |
| 04:00 | * | * | * | * | * | * | * | * | * |
| 05:00 | * | * | * | * | * | * | * | * | * |
| 06:00 | * | * | * | * | * | * | * | * | * |
| 07:00 | * | * | * | * | * | * | * | * | * |
| 08:00 | * | * | * | * | * | * | * | * | * |
| 09:00 | * | * | * | * | * | * | * | * | * |
| 10:00 | * | * | * | * | * | * | * | * | * |
| 11:00 | * | * | * | * | * | * | * | * | * |
| Day Total | 722 | 0 | 0 | 0 | 0 | 722 | 0 | 0 | 722 |
| % Avg. | 100.0% | 0.0% | 0.0% | 0.0% | 0.0% | | | | |
| WkDay | | | | | | | | | |
| 6 Avg. Week | 100.0% | 0.0% | 0.0% | 0.0% | 0.0% | 100.0% | 0.0% | 0.0% | |
| AM Peak | 07:00 | | | | | 07:00 | | | 07:00 |
| Vol. | 166 | | | | | 166 | | | 166 |
| PM Peak | | | | | | | | | |
| Vol. | | | | | | | | | |
| Grand Total | | 722 | 0 | 0 | 0 3356 | 4078 | 45 | 51 4561 | 4938 |
| ADT | | ADT | 4,556 | | AADT 4,556 | | | | |

I-64 EIS counts I-64 Exit 243 - Williamsburg/Busch 3656 E. Stratford Road Virginia Beach, VA 23455 (757) 464-5129

I-64 EIS #24307-08 Wknd

I-64 EB and WB off ramps to US Rt 60 US Rt 60 to Busch Gardens

| Start | 20-Jur | n-11 | Tu | ie | W | ed | Th | ıu | F | ri | | Sat | S | un | Week A | Average |
|----------|----------|-------|----------|-------|----------|-------|----------|-------|----------|-------|----------|-------|----------|-------|----------|---------|
| Time | I-64 off | BG in | I-64 off | BĞ in |
| 12:00 AM | * | * | * | * | * | * | * | * | * | * | 50 | 2 | 63 | 0 | 56 | 1 |
| 01:00 | * | * | * | * | * | * | * | * | * | * | 40 | 0 | 27 | 0 | 34 | 0 |
| 02:00 | * | * | * | * | * | * | * | * | * | * | 20 | 0 | 31 | 0 | 26 | 0 |
| 03:00 | * | * | * | * | * | * | * | * | * | * | 20 | 1 | 18 | 0 | 19 | 0 |
| 04:00 | * | * | * | * | * | * | * | * | * | * | 31 | 1 | 16 | 0 | 24 | 0 |
| 05:00 | * | * | * | * | * | * | * | * | * | * | 76 | 0 | 52 | 0 | 64 | 0 |
| 06:00 | * | * | * | * | * | * | * | * | * | * | 104 | 0 | 102 | 1 | 103 | 0 |
| 07:00 | * | * | * | * | * | * | * | * | 269 | 1 | 184 | 7 | 125 | 0 | 193 | 3 |
| 08:00 | * | * | * | * | * | * | * | * | 325 | 18 | 228 | 27 | 190 | 14 | 248 | 20 |
| 09:00 | * | * | * | * | * | * | * | * | 271 | 197 | 203 | 262 | 178 | 207 | 217 | 222 |
| 10:00 | * | * | * | * | * | * | * | * | 193 | 345 | 201 | 417 | 203 | 361 | 199 | 374 |
| 11:00 | * | * | * | * | * | * | * | * | 282 | 244 | 221 | 316 | 257 | 297 | 253 | 286 |
| 12:00 PM | * | * | * | * | * | * | * | * | 257 | 167 | 230 | 224 | 190 | 239 | 226 | 210 |
| 01:00 | * | * | * | * | * | * | * | * | 263 | 108 | 281 | 189 | 186 | 216 | 243 | 171 |
| 02:00 | * | * | * | * | * | * | * | * | 254 | 100 | 422 | 206 | 185 | 295 | 287 | 200 |
| 03:00 | * | * | * | * | * | * | * | * | 696 | 91 | 248 | 213 | 174 | 318 | 373 | 207 |
| 04:00 | * | * | * | * | * | * | * | * | 692 | 97 | 408 | 218 | 199 | 309 | 433 | 208 |
| 05:00 | * | * | * | * | * | * | * | * | 563 | 148 | 591 | 231 | 172 | 228 | 442 | 202 |
| 06:00 | * | * | * | * | * | * | * | * | 270 | 169 | 654 | 195 | 229 | 120 | 384 | 161 |
| 07:00 | * | * | * | * | * | * | * | * | 177 | 78 | 382 | 122 | 190 | 68 | 250 | 89 |
| 08:00 | * | * | * | * | * | * | * | * | 119 | 42 | 135 | 62 | 193 | 43 | 149 | 49 |
| 09:00 | * | * | * | * | * | * | * | * | 147 | 21 | 128 | 36 | 204 | 25 | 160 | 27 |
| 10:00 | * | * | * | * | * | * | * | * | 168 | 7 | 171 | 23 | 132 | 2 | 157 | 11 |
| 11:00 | * | * | * | * | * | * | * | * | 105 | 0 | 99 | 1 | 86 | 0 | 97 | 0 |
| Lane | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5051 | 1833 | 5127 | 2753 | 3402 | 2743 | 4637 | 2441 |
| Day | 0 | | 0 | | 0 | | 0 | | 688 | 4 | 788 | 30 | 614 | 5 | 707 | |
| AM Peak | | | | | | | | | 08:00 | 10:00 | 08:00 | 10:00 | 11:00 | 10:00 | 11:00 | 10:00 |
| Vol. | | | | | | | | | 325 | 345 | 228 | 417 | 257 | 361 | 253 | 374 |
| PM Peak | | | | | | | | | 15:00 | 18:00 | 18:00 | 17:00 | 18:00 | 15:00 | 17:00 | 12:00 |
| Vol. | | | | | | | | | 696 | 169 | 654 | 231 | 229 | 318 | 442 | 210 |

I-64 EIS counts I-64 Exit 243 - Williamsburg/Busch 3656 E. Stratford Road Virginia Beach, VA 23455 (757) 464-5129

I-64 EIS #24307-08 Wknd

I-64 EB and WB off ramps to US Rt 60 US Rt 60 to Busch Gardens

| Start | 27-Ju | n-11 | Tu | | We | ed | Th | ıu | F | ri | Sa | at | Su | n | Week A | verage |
|----------|----------|-------|----------|-------|-----------|-------|----------|-------|----------|-------|----------|-------|----------|-------|----------|--------|
| Time | I-64 off | BG in | I-64 off | BG in | I-64 off | BG in | I-64 off | BG in | I-64 off | BG in | I-64 off | BG in | I-64 off | BG in | I-64 off | BĞ in |
| 12:00 AM | 34 | 0 | * | * | * | * | * | * | * | * | * | * | * | * | 34 | |
| 01:00 | 24 | 0 | * | * | * | * | * | * | * | * | * | * | * | * | 24 | |
| 02:00 | 21 | 0 | * | * | * | * | * | * | * | * | * | * | * | * | 21 | |
| 03:00 | 14 | 0 | * | * | * | * | * | * | * | * | * | * | * | * | 14 | (|
| 04:00 | 44 | 0 | * | * | * | * | * | * | * | * | * | * | * | * | 44 | (|
| 05:00 | 98 | 0 | * | * | * | * | * | * | * | * | * | * | * | * | 98 | (|
| 06:00 | 172 | 0 | * | * | * | * | * | * | * | * | * | * | * | * | 172 | |
| 07:00 | 264 | 3 | * | * | * | * | * | * | * | * | * | * | * | * | 264 | ; |
| 08:00 | 337 | 11 | * | * | * | * | * | * | * | * | * | * | * | * | 337 | 1 |
| 09:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | |
| 10:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | |
| 11:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | |
| 12:00 PM | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | |
| 01:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | |
| 02:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | |
| 03:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | |
| 04:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | |
| 05:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | |
| 06:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | |
| 07:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | |
| 08:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | |
| 09:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | |
| 10:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | |
| 11:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | |
| Lane | 1008 | 14 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1008 | 14 |
| Day | 102 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 102 | |
| AM Peak | 08:00 | 08:00 | | | | | | | | | | | | | 08:00 | 08:0 |
| Vol. | 337 | 11 | | | | | | | | | | | | | 337 | 1 |
| PM Peak | | | | | | | | | | | | | | | | |
| Vol. | | | | | | | | | | | | | | | | |
| Comb. | | 1022 | | 0 | | 0 | | 0 | | 6884 | | 7880 | | 6145 | | 8100 |
| Total | | | | - | | - | | - | | | | | | | | 2.30 |
| ADT | | ADT | 7,012 | А | ADT 7,012 | | | | | | | | | | | |

I-64 EIS counts I-64 Exit 243 - Williamsburg/Busch 3656 E. Stratford Road Virginia Beach, VA 23455 (757) 464-5129

I-64 EIS #24309-10 Wknd

Busch Gardens to US Rt 60 I-64 EB and WB on ramp fm US Rt 60

| Start | 20-Ju | n-11 | To | Je . | W | ed | T | nu | F | ri | 5 | Sat | S | un | Week A | verage |
|----------|--------|---------|--------|---------|--------|---------|--------|---------|--------|---------|--------|---------|--------|---------|--------|---------|
| Time | BG out | I-64 on |
| 12:00 AM | * | * | * | * | * | * | * | * | * | * | 1 | 108 | 1 | 126 | 1 | 117 |
| 01:00 | * | * | * | * | * | * | * | * | * | * | 0 | 67 | 2 | 50 | 1 | 58 |
| 02:00 | * | * | * | * | * | * | * | * | * | * | 0 | 45 | 1 | 30 | 0 | 38 |
| 03:00 | * | * | * | * | * | * | * | * | * | * | 0 | 42 | 0 | 27 | 0 | 34 |
| 04:00 | * | * | * | * | * | * | * | * | * | * | 0 | 49 | 2 | 21 | 1 | 35 |
| 05:00 | * | * | * | * | * | * | * | * | * | * | 0 | 60 | 0 | 39 | 0 | 50 |
| 06:00 | * | * | * | * | * | * | * | * | * | * | 0 | 108 | 1 | 58 | 0 | 83 |
| 07:00 | * | * | * | * | * | * | * | * | 2 | 287 | 7 | 169 | 0 | 139 | 3 | 198 |
| 08:00 | * | * | * | * | * | * | * | * | 7 | 248 | 3 | 189 | 4 | 149 | 5 | 195 |
| 09:00 | * | * | * | * | * | * | * | * | 13 | 239 | 14 | 204 | 9 | 150 | 12 | 198 |
| 10:00 | * | * | * | * | * | * | * | * | 15 | 219 | 10 | 223 | 9 | 178 | 11 | 207 |
| 11:00 | * | * | * | * | * | * | * | * | 21 | 258 | 29 | 246 | 15 | 189 | 22 | 231 |
| 12:00 PM | * | * | * | * | * | * | * | * | 35 | 234 | 27 | 230 | 36 | 159 | 33 | 208 |
| 01:00 | * | * | * | * | * | * | * | * | 54 | 230 | 46 | 253 | 73 | 206 | 58 | 230 |
| 02:00 | * | * | * | * | * | * | * | * | 89 | 329 | 86 | 267 | 85 | 203 | 87 | 266 |
| 03:00 | * | * | * | * | * | * | * | * | 176 | 321 | 94 | 297 | 117 | 303 | 129 | 307 |
| 04:00 | * | * | * | * | * | * | * | * | 149 | 409 | 138 | 290 | 115 | 263 | 134 | 321 |
| 05:00 | * | * | * | * | * | * | * | * | 75 | 375 | 133 | 272 | 133 | 243 | 114 | 297 |
| 06:00 | * | * | * | * | * | * | * | * | 139 | 234 | 192 | 237 | 162 | 214 | 164 | 228 |
| 07:00 | * | * | * | * | * | * | * | * | 132 | 198 | 168 | 221 | 190 | 277 | 163 | 232 |
| 08:00 | * | * | * | * | * | * | * | * | 107 | 192 | 166 | 281 | 253 | 284 | 175 | 252 |
| 09:00 | * | * | * | * | * | * | * | * | 136 | 230 | 342 | 327 | 374 | 574 | 284 | 377 |
| 10:00 | * | * | * | * | * | * | * | * | 123 | 290 | 354 | 365 | 89 | 271 | 189 | 309 |
| 11:00 | * | * | * | * | * | * | * | * | 0 | 234 | 5 | 277 | 1 | 349 | 2 | 287 |
| Lane | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1273 | 4527 | 1815 | 4827 | 1672 | 4502 | 1588 | 4758 |
| Day | 0 | | 0 | | 0 | | 0 | | 580 | 0 | 664 | 12 | 617 | 74 | 634 | ô |
| AM Peak | | | | | | | | | 11:00 | 07:00 | 11:00 | 11:00 | 11:00 | 11:00 | 11:00 | 11:00 |
| Vol. | | | | | | | | | 21 | 287 | 29 | 246 | 15 | 189 | 22 | 231 |
| PM Peak | | | | | | | | | 15:00 | 16:00 | 22:00 | 22:00 | 21:00 | 21:00 | 21:00 | 21:00 |
| Vol. | | | | | | | | | 176 | 409 | 354 | 365 | 374 | 574 | 284 | 377 |

I-64 EIS counts I-64 Exit 243 - Williamsburg/Busch 3656 E. Stratford Road Virginia Beach, VA 23455 (757) 464-5129

I-64 EIS #24309-10 Wknd

Busch Gardens to US Rt 60 I-64 EB and WB on ramp fm US Rt 60

| Start | 27-Ju | ın-11 | | ue | We | ed | T | nu | F | ri | S | | Su | ın | Week Av | erage |
|----------------|--------|---------|--------|---------|-----------|---------|--------|---------|--------|---------|--------|---------|--------|---------|---------|---------|
| Time | BG out | I-64 on | BG out | I-64 on | BG out | I-64 on | BG out | I-64 on | BG out | I-64 on | BG out | I-64 on | BG out | I-64 on | BG out | I-64 on |
| 12:00 AM | 0 | 151 | * | * | * | * | * | * | * | * | * | * | * | * | 0 | 15 |
| 01:00 | 0 | 76 | * | * | * | * | * | * | * | * | * | * | * | * | 0 | 70 |
| 02:00 | 1 | 29 | * | * | * | * | * | * | * | * | * | * | * | * | 1 | 29 |
| 03:00 | 0 | 53 | * | * | * | * | * | * | * | * | * | * | * | * | 0 | 53 |
| 04:00 | 0 | 51 | * | * | * | * | * | * | * | * | * | * | * | * | 0 | 5 |
| 05:00 | 0 | 115 | * | * | * | * | * | * | * | * | * | * | * | * | 0 | 119 |
| 06:00 | 0 | 187 | * | * | * | * | * | * | * | * | * | * | * | * | 0 | 18 |
| 07:00 | 3 | 296 | * | * | * | * | * | * | * | * | * | * | * | * | 3 | 29 |
| 08:00 | 1 | 218 | * | * | * | * | * | * | * | * | * | * | * | * | 1 | 218 |
| 09:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | |
| 10:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | |
| 11:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | |
| 12:00 PM | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | |
| 01:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | |
| 02:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | |
| 03:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | |
| 04:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | |
| 05:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | |
| 06:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | |
| 07:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | |
| 08:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | |
| 09:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | |
| 10:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | |
| 11:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | |
| Lane | 5 | 1176 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 117 |
| Day | 118 | 81 | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 1181 | |
| AM Peak | 07:00 | 07:00 | | | | | | | | | | | | | 07:00 | 07:0 |
| Vol. | 3 | 296 | | | | | | | | | | | | | 3 | 29 |
| PM Peak | | | | | | | | | | | | | | | | |
| Vol. | | | | | | | | | | | | | | | | |
| Comb | | | | | | | | | | | | | | | | |
| Comb. Total | | 1181 | | 0 | | 0 | | 0 | | 5800 | | 6642 | | 6174 | | 7527 |
| ADT | | ADT 6 | 6,408 | A | ADT 6,408 | | | | | | | | | | | |

3656 E. Stratford Road Virginia Beach, VA 23455 (757) 464-5129

I64 EIS SA AM counted: 06/25/11

SU PM counted: 06/26/11

File Name: I-64 EIS #24311 Wknd

Site Code : 24311 Start Date : 6/25/2011

Page No : 1

Groups Printed- All Vehicles

| | | | | | | US F | Rt 60 | | Bus | ch Ga | rdens | exit | | US F | Rt 60 | |] | | |
|-------------|------|-------|-------|------|------|-------|-------|--------|------|-------|-------|------|------|-------|----------|------|--------------|--------------|------------|
| | | South | bound | | | Westk | oound | | | North | bound | | | Eastk | ound | | | | |
| Start Time | Left | Thru | Right | Trks | Left | Thru | Right | Trks | Left | Thru | Right | Trks | Left | Thru | Right | Trks | Exclu. Total | Inclu. Total | Int. Total |
| 08:30 AM | 0 | 0 | 0 | 0 | 15 | 82 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 36 | 26 | 3 | 3 | 159 | 162 |
| 08:45 AM | 0 | 0 | 0 | 0 | 14 | 89 | 0 | 1 | 2 | 0 | 0 | 0 | 1 | 46 | 31 | 5 | 6 | 183 | 189 |
| Total | 0 | 0 | 0 | 0 | 29 | 171 | 0 | 1 | 2 | 0 | 0 | 0 | 1 | 82 | 57 | 8 | 9 | 342 | 351 |
| 09:00 AM | 0 | 0 | 0 | 0 | 12 | 42 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 32 | 24 | 3 | 4 | 110 | 114 |
| 09:15 AM | 0 | 0 | 0 | 0 | 13 | 42 | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 32 | 25 | 5 | 6 | 114 | 120 |
| 09:30 AM | 0 | 0 | 0 | 0 | 17 | 69 | 0 | 4 | 9 | 0 | 0 | 0 | 0 | 55 | 44 | 4 | 8 | 194 | 202 |
| 09:45 AM | 0 | 0 | 0 | 0 | 12 | 79 | 0 | 2 | 4 | 0 | 1 | 0 | 0 | 39 | 31 | 2 | 4 | 166 | 170 |
| Total | 0 | 0 | 0 | 0 | 54 | 232 | 0 | 8 | 15 | 0 | 1 | 0 | 0 | 158 | 124 | 14 | 22 | 584 | 606 |
| 10:00 AM | 0 | 0 | 0 | 0 | 14 | 54 | 0 | 5 | 1 | 0 | 0 | 0 | 0 | 46 | 33 | 3 | 8 | 148 | 156 |
| 10:15 AM | 0 | 0 | 0 | 0 | 12 | 66 | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 58 | 28 | 1 | 2 | 166 | 168 |
| 10:30 AM | 0 | 0 | 0 | 0 | 16 | 77 | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 59 | 43 | 8 | 9 | 197 | 206 |
| 10:45 AM | 0 | 0 | 0 | 0 | 15 | 110 | 0 | 1 | 2 | 0 | 0 | 0 | 1 | 65 | 30 | 7 | 8 | 223 | 231 |
| Total | 0 | 0 | 0 | 0 | 57 | 307 | 0 | 8 | 7 | 0 | 0 | 0 | 1 | 228 | 134 | 19 | 27 | 734 | 761 |
| 11:00 AM | 0 | 0 | 0 | 0 | 19 | 79 | 0 | 1 | 0 | 0 | 2 | 0 | 1 | 54 | 35 | 8 | 9 | 190 | 199 |
| 11:15 AM | 0 | 0 | 0 | 0 | 25 | 105 | 0 | 1 | 3 | 0 | 0 | 0 | 0 | 71 | 27 | 3 | 4 | 231 | 235 |
| Total | 0 | 0 | 0 | 0 | 44 | 184 | 0 | 2 | 3 | 0 | 2 | 0 | 1 | 125 | 62 | 11 | 13 | 421 | 434 |
| 01:00 PM | 0 | 0 | 0 | 0 | 24 | 63 | 0 | 2 | 7 | 0 | 2 | 0 | 1 | 49 | 23 | 0 | 2 | 169 | 171 |
| 01:00 PM | 0 | 0 | 0 | 0 | 21 | 79 | 0 | 3 | 8 | 0 | 3 | 0 | 0 | 70 | 23 27 | 2 | 5 | 208 | 213 |
| 01:30 PM | 0 | 0 | 0 | 0 | 15 | 111 | 0 | 3 1 | 15 | 0 | 6 | 0 | 1 | 70 | 23 | 2 | 3 | 200 | 213 |
| 01:45 PM | 0 | 0 | 0 | 0 | 23 | 91 | 0 | 3 | 19 | 0 | 4 | 0 | 0 | 63 | 26 | 3 | 6 | 226 | 232 |
| Total | 0 | 0 | 0 | 0 | 83 | 344 | 0 | 9 | 49 | 0 | 15 | 0 | 2 | 252 | 99 | 7 | 16 | 844 | 860 |
| 02:00 PM | 0 | 0 | 0 | 0 | 15 | 100 | 0 | 0 | 17 | 0 | 8 | 0 | 0 | 74 | 25 | 2 | 2 | 239 | 241 |
| 02:15 PM | 0 | 0 | 0 | 0 | 20 | 93 | 0 | 3 | 12 | 0 | 2 | 0 | 0 | 68 | 26 | 3 | 6 | 221 | 227 |
| 02:30 PM | 0 | 0 | 0 | 0 | 22 | 109 | 0 | 2 | 17 | 0 | 5 | 0 | 0 | 75 | 30 | 0 | 2 | 258 | 260 |
| 02:45 PM | 0 | 0 | Ö | 0 | 24 | 118 | Ö | 1 | 15 | Ö | 3 | 0 | ő | 59 | 33 | 2 | 3 | 252 | 255 |
| Total | 0 | 0 | 0 | 0 | 81 | 420 | 0 | 6 | 61 | 0 | 18 | 0 | 0 | 276 | 114 | 7 | 13 | 970 | 983 |
| 03:00 PM | 0 | 0 | 0 | 0 | 31 | 126 | 0 | 3 | 24 | 0 | 4 | 0 | 5 | 102 | 55 | 3 | 6 | 347 | 353 |
| 03:15 PM | 0 | 0 | Ö | 0 | 26 | 127 | 0 | 1 | 13 | 0 | 3 | Ō | 0 | 88 | 28 | 2 | 3 | 285 | 288 |
| 03:30 PM | Ö | Ö | Ö | Ö | 35 | 123 | Ö | 3 | 25 | Ö | 12 | Ö | ő | 92 | 40 | 2 | 5 | 327 | 332 |
| 03:45 PM | 0 | Ö | 0 | Ö | 30 | 114 | Ő | 2 | 31 | 0 | 6 | 0 | ő | 87 | 33 | 1 | 3 | 301 | 304 |
| Total | 0 | 0 | 0 | 0 | 122 | 490 | 0 | 9 | 93 | 0 | 25 | 0 | 5 | 369 | 156 | 8 | 17 | 1260 | 1277 |
| Grand Total | 0 | 0 | 0 | 0 | 470 | 2148 | 0 | 43 | 230 | 0 | 61 | 0 | 10 | 1490 | 746 | 74 | 117 | 5155 | 5272 |
| Apprch % | 0 | Ō | Ö | - | 18 | 82 | Ö | - | 79 | 0 | 21 | - | 0.4 | 66.3 | 33.2 | | | | |
| Total % | 0 | Ö | Ö | | 9.1 | 41.7 | Ö | | 4.5 | Ö | 1.2 | | 0.2 | 28.9 | 14.5 | | 2.2 | 97.8 | |

3656 E. Stratford Road Virginia Beach, VA 23455 (757) 464-5129

I64 EIS SA AM counted: 06/25/11

SU PM counted: 06/26/11

File Name: I-64 EIS #24311 Wknd

Site Code : 24311 Start Date : 6/25/2011

| | | South | bound | | | | Rt 60 bound | | Bu | | ardens bound | | | | Rt 60 bound | | |
|----------------------------------|-----------|----------|---------|------------|---------|----------|----------------|------------|------|------|-----------------|------------|------|------|----------------|------------|------------|
| Start Time | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Int. Total |
| Peak Hour Ana | ilysis Fr | om 08:3 | O AM to | 11:15 A | M - Pea | k 1 of 1 | | | | | | | | | | | |
| Peak Hour for I | Entire In | tersecti | on Begi | ns at 10: | 30 AM | | | | | | | | | | | | |
| 10:30 AM | 0 | 0 | 0 | 0 | 16 | 77 | 0 | 93 | 2 | 0 | 0 | 2 | 0 | 59 | 43 | 102 | 197 |
| 10:45 AM | 0 | 0 | 0 | 0 | 15 | 110 | 0 | 125 | 2 | 0 | 0 | 2 | 1 | 65 | 30 | 96 | 223 |
| 11:00 AM | 0 | 0 | 0 | 0 | 19 | 79 | 0 | 98 | 0 | 0 | 2 | 2 | 1 | 54 | 35 | 90 | 190 |
| 11:15 AM | 0 | 0 | 0 | 0 | 25 | 105 | 0 | 130 | 3 | 0 | 0 | 3 | 0 | 71 | 27 | 98 | 231 |
| Total Volume | 0 | 0 | 0 | 0 | 75 | 371 | 0 | 446 | 7 | 0 | 2 | 9 | 2 | 249 | 135 | 386 | 841 |
| % App. Total | 0 | 0 | 0 | | 16.8 | 83.2 | 0 | | 77.8 | 0 | 22.2 | | 0.5 | 64.5 | 35 | | |
| PHF | .000 | .000 | .000 | .000 | .750 | .843 | .000 | .858 | .583 | .000 | .250 | .750 | .500 | .877 | .785 | .946 | .910 |
| Peak Hour Ana Peak Hour for I | | | | | | k 1 of 1 | I | | | | | | | | | | |
| 03:00 PM | 0 | 0 | 0 | 0 | 31 | 126 | 0 | 157 | 24 | 0 | 4 | 28 | 5 | 102 | 55 | 162 | 347 |
| 03:15 PM | 0 | 0 | 0 | 0 | 26 | 127 | 0 | 153 | 13 | 0 | 3 | 16 | 0 | 88 | 28 | 116 | 285 |
| 03:30 PM | 0 | 0 | 0 | 0 | 35 | 123 | 0 | 158 | 25 | 0 | 12 | 37 | 0 | 92 | 40 | 132 | 327 |
| 03:45 PM | 0 | 0 | 0 | 0 | 30 | 114 | 0 | 144 | 31 | 0 | 6 | 37 | 0 | 87 | 33 | 120 | 301 |
| Total Volume | 0 | 0 | 0 | 0 | 122 | 490 | 0 | 612 | 93 | 0 | 25 | 118 | 5 | 369 | 156 | 530 | 1260 |
| % App. Total | 0 | 0 | 0 | | 19.9 | 80.1 | 0 | | 78.8 | 0 | 21.2 | | 0.9 | 69.6 | 29.4 | | |
| PHF | .000 | .000 | .000 | .000 | .871 | .965 | .000 | .968 | .750 | .000 | .521 | .797 | .250 | .904 | .709 | .818 | .908 |

3656 E. Stratford Road Virginia Beach, VA 23455 (757) 464-5129

SA AM counted: 06/25/11

164 EIS

SU PM counted: 06/26/11

File Name: I-64 EIS #24312 Wknd

Site Code : 24312 Start Date : 6/25/2011

Page No : 1

Groups Printed- All Vehicles

| | Eastbound Thru Right 62 8 61 18 123 26 | Right Trks | | | Int. Total |
|--|--|------------|-----|-------|------------|
| 08:30 AM 0 0 0 0 0 88 0 2 45 0 7 0 0 | 62 8 61 18 | 8 6 | | | |
| 08:30 AM 0 0 0 0 0 88 0 2 45 0 7 0 0 | 61 18 | | 8 | | |
| 08·45 AM 0 0 0 0 2 92 0 2 54 0 12 0 0 | | 18 10 | | 210 | 218 |
| 00.137111 0 0 0 0 2 35 0 12 0 0 | 123 26 | 10 10 | 12 | 239 | 251 |
| Total 0 0 0 0 2 180 0 4 99 0 19 0 0 | | 26 16 | 20 | 449 | 469 |
| 09:00 AM 0 0 0 0 2 40 0 2 40 0 10 2 0 | 50 30 | 30 3 | 7 | 172 | 179 |
| 09:15 AM 0 0 0 0 3 59 0 1 34 0 13 0 1 | 58 37 | 37 6 | 7 | 205 | 212 |
| 09:30 AM 0 0 0 0 5 67 0 1 42 0 16 1 0 | 78 89 | 89 3 | 5 | 297 | 302 |
| 09:45 AM 0 0 0 0 7 83 0 0 26 0 11 2 0 | 60 98 | 98 1 | 3 | 285 | 288 |
| Total 0 0 0 0 17 249 0 4 142 0 50 5 1 2 | 246 254 | 254 13 | 22 | 959 | 981 |
| 10:00 AM 0 0 0 0 4 57 0 0 39 0 15 2 0 | 60 115 | 115 3 | 5 | 290 | 295 |
| 10:15 AM 0 0 0 0 5 67 0 1 26 0 19 1 0 | 78 87 | 87 4 | 6 | 282 | 288 |
| 10:30 AM 0 0 0 0 11 70 0 1 25 0 12 0 1 | 85 93 | 93 13 | 14 | 297 | 311 |
| 10:45 AM 0 0 0 0 14 97 0 1 38 0 26 4 2 | 67 76 | 76 9 | 14 | 320 | 334_ |
| Total 0 0 0 0 34 291 0 3 128 0 72 7 3 2 | 290 371 | 371 29 | 39 | 1189 | 1228 |
| 11:00 AM 0 0 0 0 14 111 0 5 24 0 11 1 0 | 102 84 | 84 6 | 12 | 346 | 358 |
| 11:15 AM 0 0 0 0 10 107 0 1 29 0 17 1 4 | 80 51 | 51 4 | 6 | 298 | 304 |
| Total 0 0 0 0 24 218 0 6 53 0 28 2 4 | 182 135 | 135 10 | 18 | 644 | 662 |
| | | | | | |
| 01:00 PM 0 0 0 0 4 82 0 1 22 0 16 0 1 | 70 52 | | 2 | | 249 |
| 01:15 PM 0 0 0 0 9 87 0 1 21 0 22 2 0 | 77 39 | | 8 | | 263 |
| 01:30 PM 0 0 0 0 19 106 0 1 35 0 13 0 0 | 84 45 | | 3 | | 305 |
| 01:45 PM 0 0 0 0 14 95 0 1 29 0 21 1 0 | 79 41 | | | | 286 |
| Total 0 0 0 0 46 370 0 4 107 0 72 3 1 3 | 310 177 | 177 13 | 20 | 1083 | 1103 |
| 02:00 PM 0 0 0 0 23 97 0 0 28 0 17 2 0 | 79 37 | | i | | 287 |
| 02:15 PM 0 0 0 0 18 116 0 0 37 0 21 3 0 | 77 66 | | 1 | | 340 |
| 02:30 PM 0 0 0 0 19 104 0 1 18 0 15 1 0 | 80 58 | | | | 298 |
| 02:45 PM 0 0 0 0 21 110 0 2 13 0 22 0 0 | 75 62 | | | | 308 |
| Total 0 0 0 0 81 427 0 3 96 0 75 6 0 3 | 311 223 | 223 11 | 20 | 1213 | 1233 |
| | 136 55 | | 1 | | 393 |
| 03:15 PM 0 0 0 0 17 136 0 0 25 0 29 2 0 | 89 56 | | 7 | | 359 |
| | 117 53 | | 4 | | 358 |
| 03:45 PM 0 0 0 0 23 103 0 1 25 0 18 1 0 | 91 58 | | 7 | 318 | 325 |
| Total 0 0 0 0 96 485 0 2 91 0 83 5 1 | 433 222 | 222 17 | 24 | 1411 | 1435 |
| Grand Total 0 0 0 0 300 2220 0 26 716 0 399 28 10 18 | 1895 1408 | 408 | 163 | 6948 | 7111 |
| | | 109 | | 0, 10 | , |
| TT . | 57.2 42.5 27.3 20.3 | | 2.3 | 97.7 | |

3656 E. Stratford Road Virginia Beach, VA 23455 (757) 464-5129

I64 EIS SA AM counted: 06/25/11

SU PM counted: 06/26/11

File Name: I-64 EIS #24312 Wknd

Site Code : 24312 Start Date : 6/25/2011

| | | Southl | ound | | | | Rt 60 bound | | I-64 | | B off ra | mps | | | Rt 60 bound | | |
|------------------------------------|------------|-----------|----------|------------|--------|------|----------------|------------|------|------|----------|------------|------|------|----------------|------------|------------|
| Start Time | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Int. Total |
| Peak Hour Analy | ysis Fron | n 08:30 z | AM to 1 | 1:15 AM | Peak 1 | of 1 | | | | | | | | | | | |
| Peak Hour for E | ntire Inte | rsection | Begins a | at 10:30 A | M | | | | | | | | | | | | |
| 10:30 AM | 0 | 0 | 0 | 0 | 11 | 70 | 0 | 81 | 25 | 0 | 12 | 37 | 1 | 85 | 93 | 179 | 297 |
| 10:45 AM | 0 | 0 | 0 | 0 | 14 | 97 | 0 | 111 | 38 | 0 | 26 | 64 | 2 | 67 | 76 | 145 | 320 |
| 11:00 AM | 0 | 0 | 0 | 0 | 14 | 111 | 0 | 125 | 24 | 0 | 11 | 35 | 0 | 102 | 84 | 186 | 346 |
| 11:15 AM | 0 | 0 | 0 | 0 | 10 | 107 | 0 | 117 | 29 | 0 | 17 | 46 | 4 | 80 | 51 | 135 | 298 |
| Total Volume | 0 | 0 | 0 | 0 | 49 | 385 | 0 | 434 | 116 | 0 | 66 | 182 | 7 | 334 | 304 | 645 | 1261 |
| % App. Total | 0 | 0 | 0 | | 11.3 | 88.7 | 0 | | 63.7 | 0 | 36.3 | | 1.1 | 51.8 | 47.1 | | |
| PHF | .000 | .000 | .000 | .000 | .875 | .867 | .000 | .868 | .763 | .000 | .635 | .711 | .438 | .819 | .817 | .867 | .911 |
| Peak Hour Analy Peak Hour for E | | | | | | of 1 | | | | | | | | | | | |
| 03:00 PM | 0 | 0 | 0 | 0 | 26 | 132 | 0 | 158 | 15 | 0 | 22 | 37 | 1 | 136 | 55 | 192 | 387 |
| 03:15 PM | 0 | 0 | 0 | 0 | 17 | 136 | 0 | 153 | 25 | 0 | 29 | 54 | 0 | 89 | 56 | 145 | 352 |
| 03:30 PM | 0 | 0 | 0 | 0 | 30 | 114 | 0 | 144 | 26 | 0 | 14 | 40 | 0 | 117 | 53 | 170 | 354 |
| 03:45 PM | 0 | 0 | 0 | 0 | 23 | 103 | 0 | 126 | 25 | 0 | 18 | 43 | 0 | 91 | 58 | 149 | 318 |
| Total Volume | 0 | 0 | 0 | 0 | 96 | 485 | 0 | 581 | 91 | 0 | 83 | 174 | 1 | 433 | 222 | 656 | 1411 |
| % App. Total | 0 | 0 | 0 | | 16.5 | 83.5 | 0 | | 52.3 | 0 | 47.7 | | 0.2 | 66 | 33.8 | | |
| PHF | .000 | .000 | .000 | .000 | .800 | .892 | .000 | .919 | .875 | .000 | .716 | .806 | .250 | .796 | .957 | .854 | .911 |

LABURNUM AVE

NINE MILE RD

| | NO | ORTHBOU | ND | SC | DUTHBOU | ND | E | ASTBOUN | D | W | ESTBOUN | ID |
|-----------------|------|---------|-------|------|---------|-------|------|---------|-------|------|---------|-------|
| INTERVAL | LEFT | THRU | RIGHT |
| 7:00 AM 7:15 AM | 21 | 76 | 5 | 39 | 73 | 40 | 33 | 101 | 9 | 17 | 117 | 24 |
| 7:15 AM 7:30 AM | 33 | 97 | 11 | 15 | 85 | 51 | 29 | 58 | 2 | 11 | 175 | 34 |
| 7:30 AM 7:45 AM | 36 | 73 | 28 | 13 | 98 | 62 | 47 | 68 | 9 | 15 | 149 | 29 |
| 7:45 AM 8:00 AM | 22 | 87 | 26 | 15 | 115 | 59 | 47 | 72 | 10 | 12 | 143 | 29 |
| 8:00 AM 8:15 AM | 39 | 77 | 17 | 20 | 89 | 52 | 38 | 74 | 10 | 10 | 163 | 20 |
| 8:15 AM 8:30 AM | 29 | 77 | 19 | 18 | 73 | 50 | 22 | 75 | 3 | 9 | 111 | 14 |
| 8:30 AM 8:45 AM | 21 | 85 | 12 | 20 | 79 | 52 | 23 | 77 | 4 | 13 | 107 | 20 |
| 8:45 AM 9:00 AM | 19 | 85 | 16 | 26 | 90 | 43 | 26 | 93 | 6 | 11 | 121 | 21 |
| TOTAL | 220 | 657 | 134 | 166 | 702 | 409 | 265 | 618 | 53 | 98 | 1086 | 191 |
| PEAK HOUR | 130 | 334 | 82 | 63 | 387 | 224 | 161 | 272 | 31 | 48 | 630 | 112 |

LABURNUM AVE

NINE MILE RD

| | NO | ORTHBOU | ND | SC | OUTHBOU | ND | Е | ASTBOUN | D | V | /ESTBOUN | ID |
|-----------------|------|---------|-------|------|---------|-------|------|---------|-------|------|----------|-------|
| INTERVAL | LEFT | THRU | RIGHT | LEFT | THRU | RIGHT | LEFT | THRU | RIGHT | LEFT | THRU | RIGHT |
| 4:00 PM 4:15 PM | 30 | 129 | 26 | 50 | 93 | 23 | 43 | 105 | 32 | 17 | 78 | 25 |
| 4:15 PM 4:30 PM | 30 | 158 | 34 | 42 | 116 | 45 | 25 | 121 | 24 | 14 | 35 | 28 |
| 4:30 PM 4:45 PM | 50 | 84 | 68 | 43 | 124 | 32 | 52 | 171 | 25 | 14 | 60 | 27 |
| 4:45 PM 5:00 PM | 48 | 157 | 34 | 48 | 137 | 48 | 37 | 171 | 13 | 30 | 117 | 25 |
| 5:00 PM 5:15 PM | 35 | 208 | 34 | 54 | 143 | 46 | 57 | 157 | 14 | 18 | 111 | 26 |
| 5:15 PM 5:30 PM | 37 | 189 | 34 | 61 | 173 | 42 | 47 | 162 | 19 | 24 | 102 | 19 |
| 5:30 PM 5:45 PM | 42 | 157 | 37 | 38 | 163 | 52 | 37 | 134 | 8 | 22 | 122 | 38 |
| 5:45 PM 6:00 PM | 36 | 163 | 30 | 47 | 168 | 42 | 68 | 156 | 14 | 26 | 84 | 22 |
| TOTAL | 308 | 1245 | 297 | 383 | 1117 | 330 | 366 | 1177 | 149 | 165 | 709 | 210 |
| PEAK HOUR | 162 | 711 | 139 | 201 | 616 | 188 | 178 | 624 | 54 | 94 | 452 | 108 |

Peggy Malone and Associates 1-888-247-8602

File Name: Laburnum Ave & Nine Mile Rd

Site Code : 00003001 Start Date : 8/22/2009

Page No : 1

Groups Printed- 1 - Vehicles

| | | | urnum | | | | | ne Mile 'estbou | | | | | orthbo | | | | | ne Mile 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 |
| Factor | 1.0 | 1.0 | 1.0 | 1.0 | | 1.0 | 1.0 | 1.0 | 1.0 | | 1.0 | 1.0 | 1.0 | 1.0 | | 1.0 | 1.0 | 1.0 | 1.0 | | |
| 10:00 AM | 48 | 116 | 39 | 0 | 203 | 34 | 96 | 35 | 0 | 165 | 31 | 107 | 38 | 0 | 176 | 17 | 93 | 32 | 0 | 142 | 686 |
| 10:15 AM | 41 | 123 | 34 | 0 | 198 | 38 | 89 | 47 | 0 | 174 | 36 | 105 | 38 | 1 | 180 | 3 | 77 | 42 | 0 | 122 | 674 |
| 10:30 AM | 47 | 116 | 35 | 0 | 198 | 40 | 87 | 41 | 0 | 168 | 38 | 120 | 37 | 0 | 195 | 18 | 102 | 36 | 0 | 156 | 717 |
| 10:45 AM | 45 | 120 | 33 | 0 | 198 | 41 | 97 | 41 | 0 | 179 | 29 | 108 | 33 | 0 | 170 | 17 | 116 | 43 | 0 | 176 | 723 |
| Total | 181 | 475 | 141 | 0 | 797 | 153 | 369 | 164 | 0 | 686 | 134 | 440 | 146 | 1 | 721 | 55 | 388 | 153 | 0 | 596 | 2800 |
| 11:00 AM | 51 | 140 | 56 | 0 | 247 | 26 | 89 | 46 | 0 | 161 | 44 | 141 | 26 | 0 | 211 | 15 | 114 | 43 | 0 | 172 | 791 |
| 11:15 AM | 53 | 143 | 38 | 0 | 234 | 35 | 99 | 37 | 0 | 171 | 43 | 145 | 37 | 1 | 226 | 16 | 122 | 53 | 0 | 191 | 822 |
| 11:30 AM | 58 | 120 | 49 | 0 | 227 | 40 | 110 | 41 | 0 | 191 | 24 | 152 | 25 | 0 | 201 | 11 | 126 | 39 | 0 | 176 | 795 |
| 11:45 AM | 64 | 127 | 44 | 0 | 235 | 35 | 94 | 31 | 0 | 160 | 53 | 142 | 44 | 0 | 239 | 15 | 123 | 47 | 0 | 185 | 819 |
| Total | 226 | 530 | 187 | 0 | 943 | 136 | 392 | 155 | 0 | 683 | 164 | 580 | 132 | 1 | 877 | 57 | 485 | 182 | 0 | 724 | 3227 |
| 12:00 PM | 52 | 142 | 51 | 0 | 245 | 45 | 118 | 43 | 0 | 206 | 30 | 138 | 48 | 0 | 216 | 7 | 110 | 53 | 0 | 170 | 837 |
| 12:15 PM | 57 | 142 | 52 | 0 | 251 | 32 | 103 | 41 | 2 | 178 | 37 | 127 | 32 | 1 | 197 | 12 | 114 | 50 | 0 | 176 | 802 |
| 12:30 PM | 52 | 129 | 48 | 0 | 229 | 32 | 120 | 47 | 0 | 199 | 42 | 148 | 29 | 0 | 219 | 16 | 128 | 52 | 0 | 196 | 843 |
| 12:45 PM | 51 | 139 | 62 | 0 | 252 | 43 | 101 | 35 | 0 | 179 | 43 | 125 | 43 | 0 | 211 | 10 | 116 | 71 | 0 | 197 | 839 |
| Total | 212 | 552 | 213 | 0 | 977 | 152 | 442 | 166 | 2 | 762 | 152 | 538 | 152 | 1 | 843 | 45 | 468 | 226 | 0 | 739 | 3321 |
| 01:00 PM | 59 | 139 | 57 | 2 | 257 | 28 | 108 | 29 | 0 | 165 | 52 | 158 | 43 | 0 | 253 | 17 | 133 | 49 | 0 | 199 | 874 |
| 01:15 PM | 40 | 140 | 56 | 0 | 236 | 42 | 121 | 47 | 0 | 210 | 38 | 152 | 40 | 0 | 230 | 17 | 119 | 49 | 0 | 185 | 861 |
| 01:30 PM | 65 | 132 | 44 | 0 | 241 | 51 | 108 | 42 | 0 | 201 | 34 | 138 | 31 | 0 | 203 | 18 | 124 | 55 | 0 | 197 | 842 |
| 01:45 PM | 63 | 124 | 46 | 0 | 233 | 37 | 118 | 36 | 0 | 191 | 47 | 143 | 54 | 0 | 244 | 19 | 130 | 58 | 0 | 207 | 875 |
| Total | 227 | 535 | 203 | 2 | 967 | 158 | 455 | 154 | 0 | 767 | 171 | 591 | 168 | 0 | 930 | 71 | 506 | 211 | 0 | 788 | 3452 |
| Grand Total | 846 | 2092 | 744 | 2 | 3684 | 599 | 1658 | 639 | 2 | 2898 | 621 | 2149 | 598 | 3 | 3371 | 228 | 1847 | 772 | 0 | 2847 | 12800 |
| Apprch % | 23.0 | 56.8 | 20.2 | 0.1 | | 20.7 | 57.2 | 22.0 | 0.1 | | 18.4 | 63.7 | 17.7 | 0.1 | | 8.0 | 64.9 | 27.1 | 0.0 | | |
| Total % | 6.6 | 16.3 | 5.8 | 0.0 | 28.8 | 4.7 | 13.0 | 5.0 | 0.0 | 22.6 | 4.9 | 16.8 | 4.7 | 0.0 | 26.3 | 1.8 | 14.4 | 6.0 | 0.0 | 22.2 | |

| | | | urnum | | | | | ne Mile 'estbou | | | | | orthbo | | | | | ne Mile 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 |
| Peak Hour From 10 | 0:00 AM to | 01:45 PN | I - Peak 1 | of 1 | | | • | | · | | | | | | | | | | | | |
| Intersection | 01:00 P | M | | | | | | | | | | | | | | | | | | | |
| Volume | 227 | 535 | 203 | 2 | 967 | 158 | 455 | 154 | 0 | 767 | 171 | 591 | 168 | 0 | 930 | 71 | 506 | 211 | 0 | 788 | 3452 |
| Percent | 23.5 | 55.3 | 21.0 | 0.2 | | 20.6 | 59.3 | 20.1 | 0.0 | | 18.4 | 63.5 | 18.1 | 0.0 | | 9.0 | 64.2 | 26.8 | 0.0 | | |
| 01:45 Volume | 63 | 124 | 46 | 0 | 233 | 37 | 118 | 36 | 0 | 191 | 47 | 143 | 54 | 0 | 244 | 19 | 130 | 58 | 0 | 207 | 875 |
| Peak Factor | | | | | | | | | | | | | | | | | | | | l | 0.986 |
| High Int. | 01:00 P | M | | | | 01:15 P | M | | | | 01:00 P | M | | | | 01:45 P | M | | | | |
| Volume | 59 | 139 | 57 | 2 | 257 | 42 | 121 | 47 | 0 | 210 | 52 | 158 | 43 | 0 | 253 | 19 | 130 | 58 | 0 | 207 | |
| Peak Factor | | | | | 0.941 | | | | | 0.913 | | | | | 0.919 | | | | | 0.952 | |

LABURNUM AVE

I-64 RAMPS

| | NC | ORTHBOU | ND | SC | DUTHBOU | ND | E | ASTBOUN | D | W | ESTBOUN | D |
|-----------------|------|---------|-------|------|---------|-------|------|---------|-------|------|---------|-------|
| INTERVAL | LEFT | THRU | RIGHT |
| 7:00 AM 7:15 AM | | 328 | 43 | 16 | 134 | | 9 | | 186 | | | |
| 7:15 AM 7:30 AM | | 338 | 36 | 14 | 132 | | 16 | | 251 | | | |
| 7:30 AM 7:45 AM | | 390 | 67 | 24 | 156 | | 18 | | 239 | | | |
| 7:45 AM 8:00 AM | | 354 | 56 | 15 | 156 | | 15 | | 273 | | | |
| 8:00 AM 8:15 AM | | 400 | 60 | 18 | 149 | | 14 | | 221 | | | |
| 8:15 AM 8:30 AM | | 428 | 42 | 14 | 136 | | 14 | | 235 | | | |
| 8:30 AM 8:45 AM | | 404 | 58 | 21 | 139 | | 25 | | 265 | | | |
| 8:45 AM 9:00 AM | | 376 | 70 | 17 | 182 | | 15 | | 208 | | | |
| TOTAL | • | 3018 | 432 | 139 | 1184 | | 126 | • | 1878 | • | • | |
| PEAK HOUR | | 1608 | 230 | 70 | 606 | | 68 | | 929 | | | |

LABURNUM AVE

I-64 RAMPS

| | NC | ORTHBOU | ND | SC | OUTHBOU | ND | E | ASTBOUN | D | W | ESTBOUN | D |
|-----------------|------|---------|-------|------|---------|-------|------|---------|-------|------|---------|-------|
| INTERVAL | LEFT | THRU | RIGHT |
| 4:00 PM 4:15 PM | | 338 | 17 | 27 | 113 | | 6 | | 111 | | | |
| 4:15 PM 4:30 PM | | 404 | 33 | 18 | 205 | | 11 | | 149 | | | |
| 4:30 PM 4:45 PM | | 409 | 16 | 11 | 231 | | 13 | | 150 | | | |
| 4:45 PM 5:00 PM | | 380 | 24 | 7 | 243 | | 10 | | 187 | | | |
| 5:00 PM 5:15 PM | | 429 | 19 | 9 | 204 | | 5 | | 161 | | | |
| 5:15 PM 5:30 PM | | 335 | 19 | 2 | 249 | | 7 | | 125 | | | |
| 5:30 PM 5:45 PM | | 346 | 24 | 12 | 256 | | 8 | | 106 | | | |
| 5:45 PM 6:00 PM | | 362 | 30 | 10 | 228 | | 4 | | 143 | | | |
| TOTAL | | 3003 | 182 | 96 | 1729 | | 64 | | 1132 | | | |
| PEAK HOUR | | 1553 | 78 | 29 | 927 | | 35 | | 623 | | | |

Peggy Malone and Associates 1-888-247-8602

File Name: Laburnum Ave & I-64 EB Ramps

Site Code : 00003371 Start Date : 8/22/2009

Page No : 1

Groups Printed- Vehicles

| | | | urnum | | | | | B Off estboo | | 3 | | | orthbo | | | | | B Off I | Ramps | | |
|-------------------------|-------|--------------|------------|------|---------------|-------|------|-----------------|------|---------------|-------------|--------------|--------|------|---------------|--------------|----------|------------|-------|---------------|---------------|
| 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 |
| Factor | 1.0 | 1.0 | 1.0 | 1.0 | Total | 1.0 | 1.0 | 1.0 | 1.0 | Total | 1.0 | 1.0 | 1.0 | 1.0 | Total | 1.0 | 1.0 | 1.0 | 1.0 | Total | Total |
| 10:00 AM | 0 | 193 | 23 | 0 | 216 | 0 | 0 | 0 | 0 | 0 | 21 | 260 | 0 | 0 | 281 | 96 | 0 | 6 | 0 | 102 | 599 |
| 10:15 AM | 0 | 196 | 11 | 0 | 207 | 0 | 0 | 0 | 0 | 0 | 29 | 287 | 0 | 0 | 316 | 109 | 0 | 7 | 0 | 116 | 639 |
| 10:30 AM | 0 | 207 | 14 | 0 | 221 | 0 | 0 | 0 | 0 | 0 | 29 | 329 | 0 | 0 | 358 | 103 | 0 | 5 | 0 | 108 | 687 |
| 10:45 AM | 0 | 231 | 25 | 0 | 256 | 0 | 0 | 0 | 0 | 0 | 33 | 298 | 0 | 0 | 331 | 108 | 1 | 13 | 0 | 122 | 709 |
| Total | 0 | 827 | 73 | 0 | 900 | 0 | 0 | 0 | 0 | 0 | 112 | 1174 | 0 | 0 | 1286 | 416 | 1 | 31 | 0 | 448 | 2634 |
| 11:00 AM | 0 | 245 | 14 | 0 | 259 | 0 | 0 | 0 | 0 | 0 | 49 | 313 | 0 | 0 | 362 | 105 | 0 | 7 | 0 | 112 | 733 |
| 11:15 AM | 0 | 224 | 13 | 0 | 237 | 0 | 0 | 0 | 0 | 0 | 43 | 316 | 0 | 0 | 359 | 109 | 0 | 11 | 0 | 120 | 716 |
| 11:30 AM | 0 | 237 | 14 | 0 | 251 | 0 | 0 | 0 | 0 | 0 | 39 | 330 | 0 | 0 | 369 | 97 | 0 | 14 | 0 | 111 | 731 |
| 11:45 AM | 0 | 250 | 15 | 0 | 265 | 0 | 0 | 0 | 0 | 0 | 43 | 351 | 0 | 0 | 394 | 108 | 0 | 9 | 0 | 117 | 776 |
| Total | 0 | 956 | 56 | 0 | 1012 | 0 | 0 | 0 | 0 | 0 | 174 | 1310 | 0 | 0 | 1484 | 419 | 0 | 41 | 0 | 460 | 2956 |
| 12:00 PM | 0 | 243 | 17 | 0 | 260 | 0 | 0 | 0 | 0 | 0 | 35 | 313 | 0 | 0 | 348 | 135 | 1 | 13 | 0 | 149 | 757 |
| 12:15 PM | 0 | 253 | 16 | 0 | 269 | 0 | 0 | 0 | 0 | 0 | 38 | 350 | 0 | 0 | 388 | 122 | 0 | 8 | 0 | 130 | 787 |
| 12:30 PM | 0 | 257 | 18 | 0 | 275 | 0 | 0 | 0 | 0 | 0 | 47 | 340 | 0 | 0 | 387 | 136 | 1 | 10 | 0 | 147 | 809 |
| 12:45 PM | 0 | 252 | 24 | 0 | 276 | 0 | 0 | 0 | 0 | 0 | 42 | 392 | 0 | 0 | 434 | 99 | 0 | 18 | 0 | 117 | 827 |
| Total | 0 | 1005 | 75 | 0 | 1080 | 0 | 0 | 0 | 0 | 0 | 162 | 1395 | 0 | 0 | 1557 | 492 | 2 | 49 | 0 | 543 | 3180 |
| 01:00 PM | 0 | 256 | 12 | 0 | 268 | 0 | 0 | 0 | 0 | 0 | 43 | 314 | 0 | 0 | 357 | 112 | 0 | 10 | 0 | 122 | 747 |
| 01:15 PM | 0 | 218 | 20 | 0 | 238 | 0 | 0 | 0 | 0 | 0 | 49 | 333 | 0 | 0 | 382 | 132 | 0 | 10 | 0 | 142 | 762 |
| 01:30 PM | 0 | 253 | 17 | 0 | 270 | 0 | 0 | 0 | 0 | 0 | 49 | 321 | 0 | 0 | 370 | 133 | 0 | 11 | 0 | 144 | 784 |
| 01:45 PM | 0 | 236 | 16 | 0 | 252 | 0 | 0 | 0 | 0 | 0 | 54 | 331 | 0 | 0 | 385 | 131 | 1 | 12 | 0 | 144 | 781 |
| Total | 0 | 963 | 65 | 0 | 1028 | 0 | 0 | 0 | 0 | 0 | 195 | 1299 | 0 | 0 | 1494 | 508 | 1 | 43 | 0 | 552 | 3074 |
| Grand Total Apprch % | 0.0 | 3751 93.3 | 269 6.7 | 0.0 | 4020 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 643 11.0 | 5178 89.0 | 0.0 | 0.0 | 5821 | 1835 91.6 | 4 0.2 | 164 8.2 | 0.0 | 2003 | 11844 |
| Total % | 0.0 | 31.7 | 2.3 | 0.0 | 33.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 5.4 | 43.7 | 0.0 | 0.0 | 49.1 | 15.5 | 0.0 | 1.4 | 0.0 | 16.9 | |

| | | | urnum outhbo | | | | | B Off estboo | | 3 | | | orthbo | | | | | B Off astbou | Ramps ind | | |
|-------------------|------------|----------|-----------------|--------|---------------|---------|------|-----------------|------|---------------|---------|------|--------|------|---------------|---------|------|--------------|--------------|---------------|---------------|
| Start Time | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Int. Total |
| Peak Hour From 10 | 0:00 AM to | 01:45 PN | A - Peak | 1 of 1 | | | | | | | | | | | | | | | | | - |
| Intersection | 12:00 P | M | | | | | | | | | | | | | | | | | | | |
| Volume | 0 | 1005 | 75 | 0 | 1080 | 0 | 0 | 0 | 0 | 0 | 162 | 1395 | 0 | 0 | 1557 | 492 | 2 | 49 | 0 | 543 | 3180 |
| Percent | 0.0 | 93.1 | 6.9 | 0.0 | | 0.0 | 0.0 | 0.0 | 0.0 | | 10.4 | 89.6 | 0.0 | 0.0 | | 90.6 | 0.4 | 9.0 | 0.0 | | |
| 12:45 Volume | 0 | 252 | 24 | 0 | 276 | 0 | 0 | 0 | 0 | 0 | 42 | 392 | 0 | 0 | 434 | 99 | 0 | 18 | 0 | 117 | 827 |
| Peak Factor | | | | | | | | | | | | | | | | | | | | | 0.961 |
| High Int. | 12:45 P | M | | | | 9:45:00 | AM | | | | 12:45 P | M | | | | 12:00 P | M | | | | |
| Volume | 0 | 252 | 24 | 0 | 276 | 0 | 0 | 0 | 0 | 0 | 42 | 392 | 0 | 0 | 434 | 135 | 1 | 13 | 0 | 149 | |
| Peak Factor | | | | | 0.978 | | | | | | | | | | 0.897 | | | | | 0.911 | |

LABURNUM AVE

I-64 RAMPS

| | NC | ORTHBOU | ND | SC | OUTHBOU | ND | Е | ASTBOUN | D | W | ESTBOUN | ID |
|-----------------|------|---------|-------|------|---------|-------|------|---------|-------|------|---------|-------|
| INTERVAL | LEFT | THRU | RIGHT |
| 7:00 AM 7:15 AM | 246 | 91 | | | 111 | 13 | | | | 23 | | 10 |
| 7:15 AM 7:30 AM | 249 | 105 | | | 101 | 14 | | | | 31 | | 13 |
| 7:30 AM 7:45 AM | 301 | 107 | | | 122 | 15 | | | | 34 | | 15 |
| 7:45 AM 8:00 AM | 235 | 134 | | | 131 | 13 | | | | 25 | | 10 |
| 8:00 AM 8:15 AM | 289 | 125 | | | 124 | 18 | | | | 25 | | 19 |
| 8:15 AM 8:30 AM | 319 | 123 | | | 113 | 17 | | | | 23 | | 11 |
| 8:30 AM 8:45 AM | 321 | 108 | | | 121 | 15 | | | | 18 | | 13 |
| 8:45 AM 9:00 AM | 273 | 118 | | | 156 | 6 | | | | 26 | | 9 |
| TOTAL | 2233 | 911 | | | 979 | 111 | | | | 205 | | 100 |
| PEAK HOUR | 1202 | 474 | | | 514 | 56 | | | | 92 | | 52 |

LABURNUM AVE

I-64 RAMPS

| [| NO | ORTHBOU | ND | SC | OUTHBOU | ND | E | ASTBOUN | D | V | ESTBOUN | ID |
|-----------------|------|---------|-------|------|---------|-------|------|---------|-------|------|---------|-------|
| INTERVAL | LEFT | THRU | RIGHT |
| 4:00 PM 4:15 PM | 149 | 195 | | | 98 | 27 | | | | 15 | | 17 |
| 4:15 PM 4:30 PM | 218 | 197 | | | 165 | 10 | | | | 40 | | 16 |
| 4:30 PM 4:45 PM | 159 | 250 | | | 206 | 4 | | | | 25 | | 15 |
| 4:45 PM 5:00 PM | 137 | 212 | | | 209 | 15 | | | | 34 | | 13 |
| 5:00 PM 5:15 PM | 155 | 304 | | | 183 | 12 | | | | 21 | | 14 |
| 5:15 PM 5:30 PM | 167 | 313 | | | 215 | 8 | | | | 34 | | 15 |
| 5:30 PM 5:45 PM | 142 | 221 | | | 228 | 18 | | | | 28 | | 16 |
| 5:45 PM 6:00 PM | 117 | 217 | | | 195 | 7 | | | | 33 | | 9 |
| TOTAL | 1244 | 1909 | | | 1499 | 101 | | | | 230 | | 115 |
| PEAK HOUR | 581 | 1055 | | | 821 | 45 | | | | 116 | | 54 |

Peggy Malone and Associates 1-888-247-8602

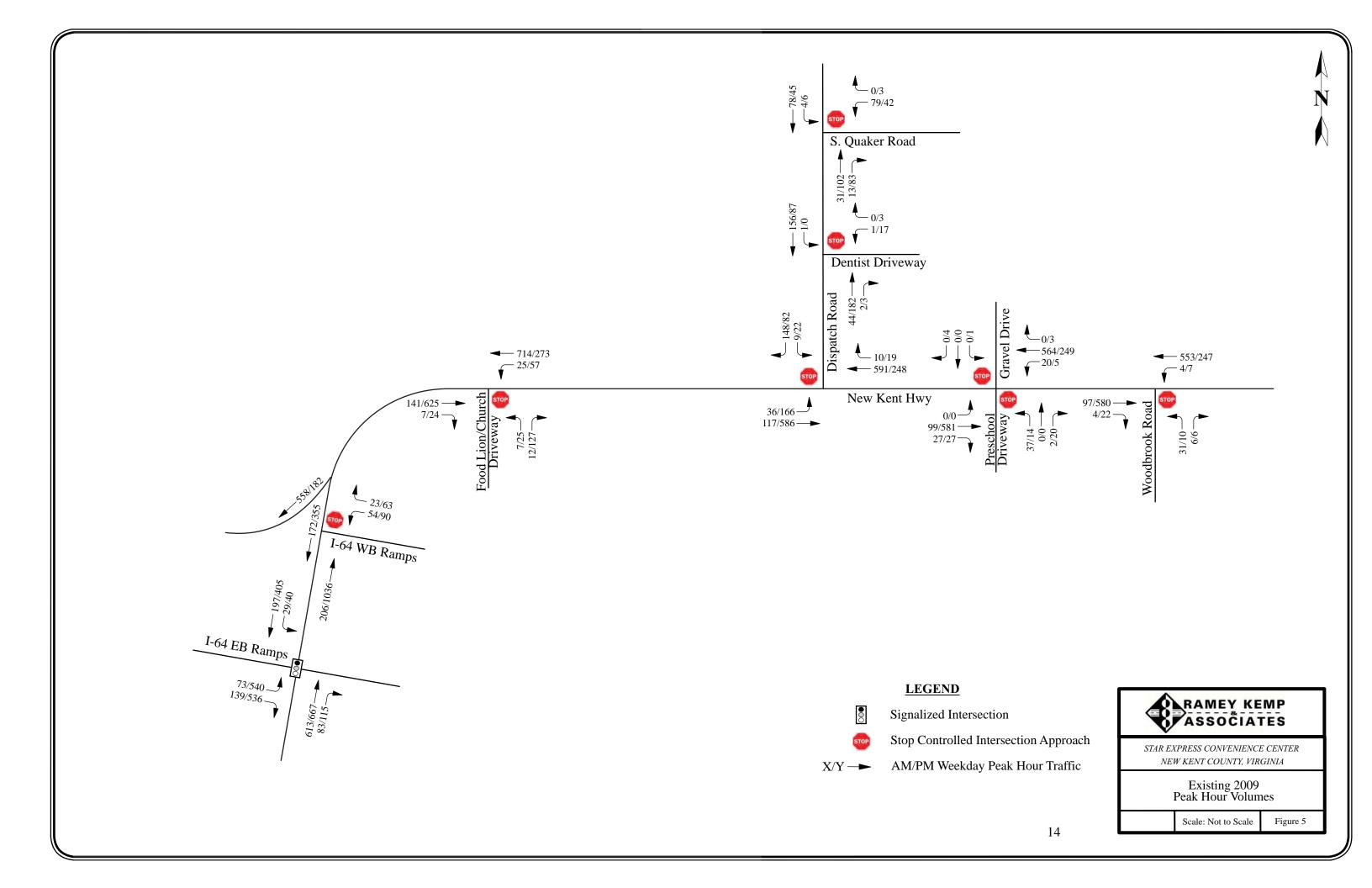
File Name: Laburnum Ave & I-64 WB Ramps

Site Code : 00002965 Start Date : 8/22/2009

Page No : 1
Groups Printed- 1 - Vehicles

| | | | urnum | | | | | /B Off | Ramps | 5 | | | urnum | | | | | | Ramps | 3 | |
|-------------|-------|------|--------|------|---------------|-------|------|--------|-------|---------------|---------------------------|------|--------|------|---------------|-------|------|--------|-------|---------------|---------------|
| | | Sc | outhbo | und | | | W | estbou | und | | | No | orthbo | und | | | E | astbou | ınd | | |
| Start Time | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | I-64 WB On Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Int. Total |
| Factor | 1.0 | 1.0 | 1.0 | 1.0 | | 1.0 | 1.0 | 1.0 | 1.0 | | 1.0 | 1.0 | 1.0 | 1.0 | | 1.0 | 1.0 | 1.0 | 1.0 | | |
| 10:00 AM | 6 | 197 | 0 | 0 | 203 | 10 | 0 | 17 | 0 | 27 | 96 | 172 | 0 | 0 | 268 | 0 | 0 | 0 | 0 | 0 | 498 |
| 10:15 AM | 8 | 184 | 0 | 0 | 192 | 19 | 0 | 26 | 0 | 45 | 104 | 190 | 0 | 0 | 294 | 0 | 0 | 0 | 0 | 0 | 531 |
| 10:30 AM | 14 | 189 | 0 | 0 | 203 | 12 | 0 | 31 | 0 | 43 | 121 | 217 | 0 | 0 | 338 | 0 | 0 | 0 | 0 | 0 | 584 |
| 10:45 AM | 8 | 221 | 0 | 0 | 229 | 17 | 0 | 31 | 0 | 48 | 117 | 194 | 0 | 0 | 311 | 0 | 0 | 0 | 0 | 0 | 588 |
| Total | 36 | 791 | 0 | 0 | 827 | 58 | 0 | 105 | 0 | 163 | 438 | 773 | 0 | 0 | 1211 | 0 | 0 | 0 | 0 | 0 | 2201 |
| 11:00 AM | 13 | 232 | 0 | 0 | 245 | 29 | 0 | 25 | 0 | 54 | 101 | 219 | 0 | 0 | 320 | 0 | 0 | 0 | 0 | 0 | 619 |
| 11:15 AM | 10 | 225 | 0 | 0 | 235 | 15 | 0 | 25 | 0 | 40 | 95 | 233 | 0 | 0 | 328 | 0 | 0 | 0 | 0 | 0 | 603 |
| 11:30 AM | 9 | 219 | 0 | 0 | 228 | 12 | 0 | 24 | 0 | 36 | 122 | 225 | 0 | 0 | 347 | 0 | 0 | 0 | 0 | 0 | 611 |
| 11:45 AM | 11 | 219 | 0 | 0 | 230 | 10 | 0 | 43 | 0 | 53 | 108 | 247 | 0 | 0 | 355 | 0 | 0 | 0 | 0 | 0 | 638 |
| Total | 43 | 895 | 0 | 0 | 938 | 66 | 0 | 117 | 0 | 183 | 426 | 924 | 0 | 0 | 1350 | 0 | 0 | 0 | 0 | 0 | 2471 |
| 12:00 PM | 7 | 220 | 0 | 0 | 227 | 13 | 0 | 34 | 0 | 47 | 110 | 216 | 0 | 0 | 326 | 0 | 0 | 0 | 0 | 0 | 600 |
| 12:15 PM | 6 | 243 | 0 | 0 | 249 | 9 | 0 | 38 | 0 | 47 | 122 | 237 | 0 | 0 | 359 | 0 | 0 | 0 | 0 | 0 | 655 |
| 12:30 PM | 8 | 235 | 0 | 0 | 243 | 15 | 0 | 35 | 0 | 50 | 123 | 229 | 0 | 0 | 352 | 0 | 0 | 0 | 0 | 0 | 645 |
| 12:45 PM | 8 | 239 | 0 | 0 | 247 | 13 | 0 | 32 | 0 | 45 | 135 | 278 | 0 | 0 | 413 | 0 | 0 | 0 | 0 | 0 | 705 |
| Total | 29 | 937 | 0 | 0 | 966 | 50 | 0 | 139 | 0 | 189 | 490 | 960 | 0 | 0 | 1450 | 0 | 0 | 0 | 0 | 0 | 2605 |
| 01:00 PM | 9 | 236 | 0 | 0 | 245 | 16 | 0 | 34 | 0 | 50 | 95 | 229 | 0 | 0 | 324 | 0 | 0 | 0 | 0 | 0 | 619 |
| 01:15 PM | 10 | 209 | 0 | 0 | 219 | 9 | 0 | 29 | 0 | 38 | 112 | 230 | 0 | 0 | 342 | 0 | 0 | 0 | 0 | 0 | 599 |
| 01:30 PM | 5 | 235 | 0 | 0 | 240 | 15 | 0 | 35 | 0 | 50 | 106 | 226 | 0 | 0 | 332 | 0 | 0 | 0 | 0 | 0 | 622 |
| 01:45 PM | 12 | 238 | 0 | 0 | 250 | 15 | 0 | 29 | 0 | 44 | 107 | 237 | 0 | 0 | 344 | 0 | 0 | 0 | 0 | 0 | 638 |
| Total | 36 | 918 | 0 | 0 | 954 | 55 | 0 | 127 | 0 | 182 | 420 | 922 | 0 | 0 | 1342 | 0 | 0 | 0 | 0 | 0 | 2478 |
| Grand Total | 144 | 3541 | 0 | 0 | 3685 | 229 | 0 | 488 | 0 | 717 | 1774 | 3579 | 0 | 0 | 5353 | 0 | 0 | 0 | 0 | 0 | 9755 |
| Apprch % | 3.9 | 96.1 | 0.0 | 0.0 | | 31.9 | 0.0 | 68.1 | 0.0 | | 33.1 | 66.9 | 0.0 | 0.0 | | 0.0 | 0.0 | 0.0 | 0.0 | | |
| Total % | 1.5 | 36.3 | 0.0 | 0.0 | 37.8 | 2.3 | 0.0 | 5.0 | 0.0 | 7.4 | 18.2 | 36.7 | 0.0 | 0.0 | 54.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |

| | | | ournum outhbo | | | | | /B Off estboo | Ramp | S | | | orthbo | | | | | /B Off astbou | Ramps | S | |
|-------------------|---------|------|------------------|--------|---------------|---------|------|------------------|------|---------------|---------------------------|------|--------|------|---------------|---------|------|------------------|-------|---------------|---------------|
| Start Time | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | I-64 WB On Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Int. Total |
| Peak Hour From 10 | | | M - Peak | 1 of 1 | | | | | | | | | | | | | | | | | |
| Intersection | 12:15 P | M | | | | | | | | | | | | | | | | | | | |
| Volume | 31 | 953 | 0 | 0 | 984 | 53 | 0 | 139 | 0 | 192 | 475 | 973 | 0 | 0 | 1448 | 0 | 0 | 0 | 0 | 0 | 2624 |
| Percent | 3.2 | 96.8 | 0.0 | 0.0 | | 27.6 | 0.0 | 72.4 | 0.0 | | 32.8 | 67.2 | 0.0 | 0.0 | | 0.0 | 0.0 | 0.0 | 0.0 | | |
| 12:45 Volume | 8 | 239 | 0 | 0 | 247 | 13 | 0 | 32 | 0 | 45 | 135 | 278 | 0 | 0 | 413 | 0 | 0 | 0 | 0 | 0 | 705 |
| Peak Factor | | | | | | | | | | | | | | | | | | | | | 0.930 |
| High Int. | 12:15 P | M | | | | 12:30 P | M | | | | 12:45 P | M | | | | 9:45:00 | AM | | | | |
| Volume | 6 | 243 | 0 | 0 | 249 | 15 | 0 | 35 | 0 | 50 | 135 | 278 | 0 | 0 | 413 | | | | | | |
| Peak Factor | | | | | 0.988 | | | | | 0.960 | | | | | 0.877 | | | | | | |



 Counter:
 File Name : COE249~1

 Counted By:
 Site Code : 00001234

 Weather:
 Start Date : 02/26/2010

 Other:
 Page No : 1

| | nps | B On-Ran astbound | | ad | house Roa irthbound | | nps | B Off-Ran | | ad | house Roauthbound | | |
|-----------|-------|----------------------|------|-------|------------------------|------|-------|-----------|------|-------|-------------------|------|------------|
| Int. Tota | Right | Thru | Left | Right | Thru | Left | Right | Thru | Left | Right | Thru | Left | Start Time |
| | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | Factor |
| 15 | 0 | O | 0 | Ö | 71 | 43 | 3 | 0 | 12 | 16 | 8 | 0 | 07:00 AM |
| 14: | 0 | 0 | 0 | 0 | 59 | 33 | 5 | 0 | 14 | 17 | 15 | 0 | 07·15 AM |
| 15 | 0 | 0 | 0 | 0 | 45 | 53 | 3 | 0 | 12 | 21 | 25 | 0 | 07:30 AM |
| 12 | 0 | 0 | 0 | 0 | 48 | 37 | 2 | 0 | 9 | 19 | 12 | 0 | 07:45 AM |
| 58: | 0 | 0 | Ō | 0 | 223 | 166 | 13 | 0 | 47 | 73 | 60 | 0 | Total |
| 8 | 0 | 0 | 0 | 0 | 28 | 40 | 2 | 0 | 7 | 7 | 5 | 0 | 08:00 AM |
| 8 | 0 | 0 | 0 | 0 | 32 | 21 | 1 | 0 | 15 | 9 | 10 | 0 | 08:15 AM |
| 9 | 0 | 0 | 0 | 0 | 30 | 23 | 3 | 0 | 15 | 9 | 19 | 0 | 08:30 AM |
| 7: | 0 | 0 | 0 | 0 | 18 | 15 | 0 | 0 | 11 | 8 | 2.3 | 0 | 08:45 AM |
| 35 | 0 | 0 | Ō | 0 | 108 | 99 | 6 | 0 | 48 | 33 | 57 | 0 | Total |

19

16.7

2.0

0

0.0

0.0

265

44.5

28.4

331

55.5

35.5

0

0.0

0.0

0

0.0

0.0

0

0.0

0.0

0

0.0

0.0

933

Grand Total

Apprch %

Total %

0

0.0

0.0

117

52.5

12.5

106

47.5

11.4

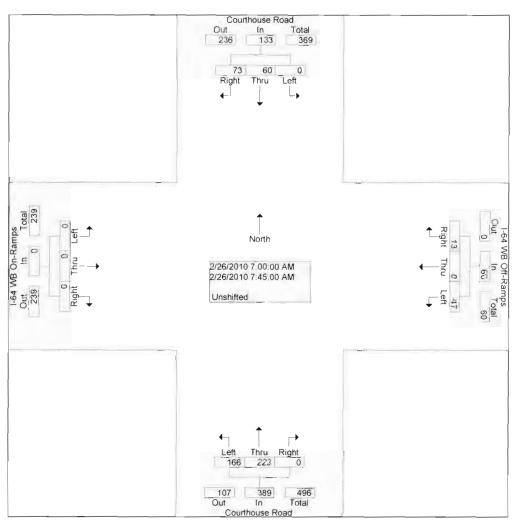
95

83.3

10.2

File Name : COE249~1 Site Code : 00001234 Start Date : 02/26/2010

| | | | use Roa | d | Í- | Off-Ram tbound | ps | | | use Roa | d | I- | | | | | |
|-----------------------|--------|---------|---------|---------------|----------|-------------------|-------|----------------------|-------|------------|-------|---------------|--------|------|-------|---------------|---------------|
| Start Time | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Int. Total |
| Peak Hour Fro | m 07:0 | O AM to | 08:45 | AM - Pea | k 1 of 1 | | | | | | | | | | | | |
| Intersection | 07:00 | ΑM | | | | | | | 1 | | | | | | | | |
| Volume | 0 | 60 | 73 | 133 | 47 | 0 | 13 | 60 | 166 | 223 | 0 | 389 | 0 | 0 | 0 | 0 | 582 |
| Percent | 0.0 | 45.1 | 54.9 | | 78.3 | 0.0 | 21.7 | | 42.7 | 57.3 | 0.0 | | 0.0 | 0.0 | 0.0 | | |
| 07:30 Volume | 0 | 25 | 21 | 46 | 12 | 0 | 3 | 15 | 53 | 4 5 | 0 | 98 | 0 | 0 | 0 | 0 | 159 |
| Peak Factor | | | | | | | | | | | | | | | | | 0.915 |
| High Int. | 07:30 | ΑM | | | 07.15 | AM | | | 07:00 | ΑM | | | 6:45:0 | 0 AM | | | |
| Volume Peak Factor | 0 | 25 | 21 | 46 0.723 | 14 | 0 | 5 | 19 0.7 8 9 | 43 | 71 | 0 | 114 0.853 | | | | | |



Counter: Counted By: Weather:

Other:

HVs Dnly

File Name : COE249~1 Site Code : 00001234 Start Date : 02/26/2010

| | | | | | Groups Printed- Bank 1 | | | | | | | | 90 . 10 | | |
|-------------|------|------------------|-------|------|------------------------|-------|------|----------|-------|------|-----------------|-------|-----------------|-----------------|---------------|
| | | thouse Routhboun | | | /B Off-Ra | | | thouse R | | | VB On-Rastbound | | | | |
| Start Time | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | Exclu. Total | Inclu. Total | Int. Total |
| Factor | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | | | |
| 07:00 AM | 10 | 0 | 0 | /2 | 0 | 0 | 10 | 7 | 0 | 10 | 0 | 0 | 0 | 9 | 9 |
| 07:15 AM | 0 | 1 | 0 | 2 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 5 | 5 |
| 07:30 AM | 0 | 3 | 2 | 2 | 0 | 1 / | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 9 |
| 07:45 AM | 0 | 2 | 1/ | 2 | 0 | 0./ | 10 | 2 | 0. | 0 | 0 | 0 / | 0 | 7 | 7 |
| Total | Ũ | 6 | 3 | 8 | 0 | 1 | 1 | 11 | 0 | 0 | 0 | 0 | 0 | 30 | 30 |
| 08:00 AM | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 4 | 4 |
| 08:15 AM | 0 | 0 | 0 | 2 | 0 | 1 | 2 | 4 | 0 | 0 | 0 | 0 | 0 | 9 | 9 |
| 08:30 AM | 0 | 1 | 1 | 5 | 0 | 0 | 2 | 3 | 0 | 0 | 0 | 0 | 0 | 12 | 12 |
| 08:45 AM | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 4 | 4 |
| Total | 0 | 1 | 1 | 8 | Ō | 2 | 6 | 11 | 0 | 0 | Ō | 0 | Ō | 29 | 29 |
| Grand Total | 0 | 7 | 4 | 16 | 0 | 3 | 7 | 22 | 0 | 0 | 0 | 0 | 0 | 59 | 59 |
| Apprch % | 0.0 | 63.6 | 36.4 | 84.2 | 0.0 | 15.8 | 24.1 | 75.9 | 0.0 | | | | | | |
| Total % | 0.0 | 11.9 | 6.8 | 27.1 | 0.0 | 5.1 | 11.9 | 37.3 | 0.0 | | | | 0.0 | 100.0 | |

Counter: D4-4791

Counted By: F. Gontaruk

Weather: Clear

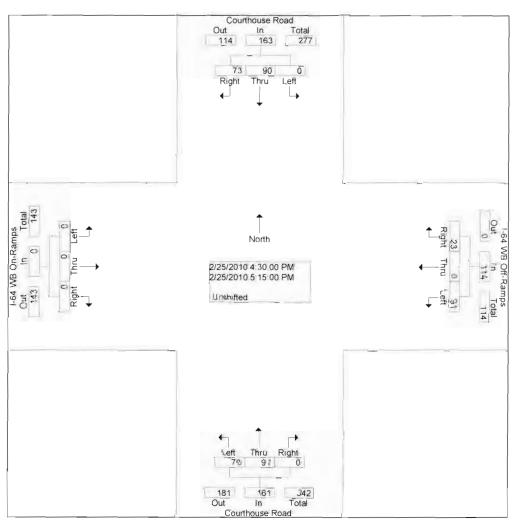
Other:

File Name : CO0347~1 Site Code : 00001234 Start Date : 02/25/2010

| | | | | | | nshifted | Printed- U | Groups | | | | | |
|------------|-------------------------------|------|------|-------|----------------------------|----------|------------|--------------------------------|------|-------|-------------------------------|------|-------------|
| | I-64 WB On-Ramps Eastbound | | | | Courthouse Road Northbound | | | I-64 WB Off-Ramps Westbound | | | Courthouse Road Southbound | | |
| Int. Total | Right | Thru | Left | Right | Thru | Left | Right | Thru | Left | Right | Thru | Left | Start Time |
| - | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | Factor |
| 104 | O | 0 | 0 | Ō | 28 | 22 | 5 | 0 | 19 | 16 | 14 | 0 | 04:00 PM |
| 90 | 0 | 0 | 0 | 0 | 16 | 23 | 3 | 0 | 21 | 11 | 16 | 0 | 04:15 PM |
| 115 | 0 | 0 | 0 | 0 | 26 | 14 | 8 | 0 | 19 | 24 | 24 | 0 | 04:30 PM |
| 109 | 0 | 0 | 0 | 0 | 20 | 13 | 6 | 0 | 24 | 20 | 26 | 0 | 04:45 PM |
| 418 | 0 | 0 | Ō | 0 | 90 | 72 | 22 | 0 | 83 | 71 | 80 | 0 | Total |
| 107 | 0 | 0 | 0 | 0 | 22 | 19 | 2 | 0 | 19 | 22 | 23 | 0 | 05:00 PM |
| 107 | 0 | 0 | 0 | 0 | 23 | 24 | 7 | 0 | 29 | 7 | 17 | 0 | 05:15 PM |
| 95 | 0 | 0 | 0 | 0 | 26 | 19 | 4 | 0 | 18 | 10 | 18 | 0 | 05:30 PM |
| 101 | 0 | 0 | 0 | 0 | 35 | 17 | 2 | 0 | 26 | 8 | 13 | 0 | 05:45 PM |
| 410 | O | Ō | 0 | Ō | 106 | 79 | 15 | 0 | 92 | 47 | 71 | 0 | Total |
| 828 | 0 | 0 | 0 | 0 | 196 | 151 | 37 | 0 | 175 | 118 | 151 | 0 | Grand Total |
| | 0.0 | 0.0 | 0.0 | 0.0 | 56.5 | 43.5 | 17.5 | 0.0 | 82.5 | 43.9 | 56.1 | 0.0 | Apprch % |
| | 0.0 | 0.0 | 0.0 | 0.0 | 23.7 | 18.2 | 4.5 | 0.0 | 21.1 | 14.3 | 18.2 | 0.0 | Total % |

File Name : CO0347~1 Site Code : 00001234 Start Date : 02/25/2010

| | Courthouse Road Southbound | | | | I-64 WB Off-Ramps Westbound | | | | | | ouse Roa | d | 1- | I-64 WB On-Ramps Eastbound | | | | |
|-----------------------|-------------------------------|---------|-------|---------------|--------------------------------|------|-------|---------------|-------|------|----------|---------------|--------|-------------------------------|-------|---------------|---------------|--|
| Start Time | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Int. Total | |
| Peak Hour Fro | m 04:0 | 0 PM to | 05:45 | PM - Pea | k 1 of 1 | | | | | - | | | | | | | | |
| Intersection | 04:30 | PM | | | | | | | | | | | | | | | | |
| Volume | 0 | 90 | 73 | 163 | 91 | 0 | 23 | 114 | 70 | 91 | 0 | 161 | 0 | 0 | 0 | 0 | 438 | |
| Percent | 0.0 | 55.2 | 44.8 | | 79.8 | 0.0 | 20.2 | | 43.5 | 56.5 | 0.0 | | 0.0 | 0.0 | 0.0 | - | | |
| 04:30 Volume | 0 | 24 | 24 | 48 | 19 | 0 | 8 | 27 | 14 | 26 | 0 | 40 | 0 | 0 | 0 | 0 | 115 | |
| Peak Factor | | | | | | | | | | | | | | | | | 0.952 | |
| High Int. | 04:30 | РM | | | 05:15 | PM | | | 05:15 | РM | | | 3:45:0 | 0 PM | | | 0.002 | |
| Volume Peak Factor | 0 | 24 | 24 | 48 0.849 | 29 | 0 | 7 | 36 0.792 | 24 | 23 | 0 | 47 0.856 | | | | | | |



Counter: D4-4791

Counted By: F. Gontaruk

Weather: Člear Other:

HV: Daly

File Name : CO0347~1 Site Code : 00001234 Start Date : 02/25/2010

| | | 90 110 | 1 4 | | | | | | | | | | J1. | |
|------------|-------|----------|------|-------------------------------|------|-------|--------------|-------------------|------|-------------------------------|------|------|-------------|--|
| | | | | | | ank 1 | s Printed- E | Group | | | | | | |
| | ips | B On-Ram | | Courthouse Road Northbound | | | nps | B Off-Ramestbound | | Courthouse Road Southbound | | | | |
| Int. Total | Right | Thru | Left | Right | Thru | Left | Right | Thru | Left | Right | Thru | Left | Start Time | |
| | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | Factor | |
| 3 | Ō | Ô | Ō | O | 1 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 04:00 PM | |
| 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 2 | 0 | 04:15 PM | |
| 3 | 0 | 0 | 0 | 0 | 1 | 11 | 01 | 0 | 10 | 1 | 0 | 0 | 04:30 PM | |
| 1 | 0 | 0 | 0 | 0/ | 0 | (0 | 0 | Q | 1 | 0 | 0 | 0 | 04:45 PM | |
| 11 | 0 | Ō | Ō | 0 | 2 | 1 | 1 | 0 | 3 | 2 | 2 | 0 | Total | |
| 3 | 0 | 0 | 0 | 0) | 0 | 10 | 0 | 0 | 10 | 0) | 3 | 0 | 05:00 PM | |
| 2 | 0 | 0 | 0 | 0/ | 0 | 1 | 0/ | 0 | 11 | 0 | 0 | 0 | 05:15 PM | |
| -1 | 0 | 0 | 0 | Ö | 0 | 0 | 0 | Ó | 1 | 0 | 0 | 0 | 05:30 PM | |
| 3 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 11 | .0 | 05:45 PM | |
| 9 | 0 | Ō | Ō | 0 | 1 | 1 | 0 | 0 | 3 | 0 | 4 | O | Total | |
| 20 | 0 | 0 | 0 | 0 | 3 | 2 | 1 | 0 | 6 | 2 | 6 | 0 | Grand Total | |
| | 0.0 | 0.0 | 0.0 | 0.0 | 60.0 | 40.0 | 14.3 | 0.0 | 85.7 | 25.0 | 75.0 | 0.0 | Apprch % | |
| | 0.0 | 0.0 | 0.0 | 0.0 | 15.0 | 10.0 | 5.0 | 0.0 | 30.0 | 10.0 | 30.0 | 0.0 | Total % | |

Counter: D4-3295 Counted By: C. Evans

Weather: Clear

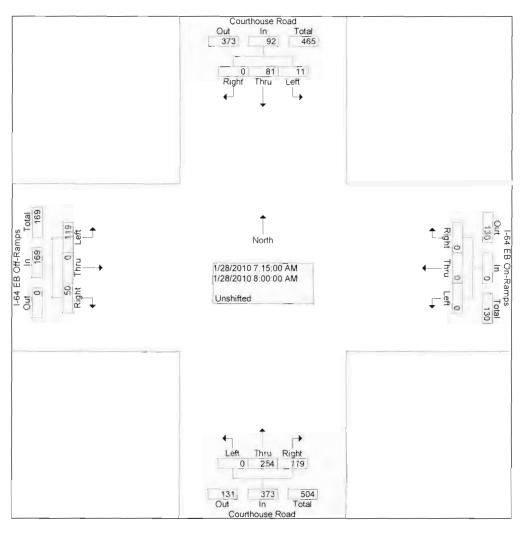
Other:

File Name : COURTH~3 Site Code : 00000001 Start Date : 01/28/2010

| | | | | | | shifted | Printed- Ur | Groups | | | | | |
|------------|-------|-----------------------|------|-------------------------------|------|---------|-------------------------------|--------|------|-------|------|------|-------------|
| | ips | B Off-Ram astbound | | Courthouse Road Northbound | | | I-64 EB On-Ramps Westbound | | | ad | | | |
| Int. Total | Right | Thru | Left | Right | Thru | Left | Right | Thru | Left | Right | Thru | Left | Start Time |
| | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | Factor |
| 97 | 3 | 0 | 20 | 11 | 42 | 0 | 0 | 0 | 0 | 0 | 15 | 6 | 07:00 AM |
| 180 | 15 | 0 | 44 | 36 | 75 | 0 | 0 | 0 | 0 | 0 | 8 | 2 | 07:15 AM |
| 171 | 10 | 0 | 22 | 28 | 77 | 0 | 0 | 0 | 0 | 0 | 30 | 4 | 07:30 AM |
| 156 | 15 | 0 | 30 | 27 | 56 | 0 | 0 | 0 | 0 | 0 | 26 | 2 | 07:45 AM |
| 604 | 43 | 0 | 116 | 102 | 250 | Ō | 0 | 0 | 0 | 0 | 79 | 14 | Total |
| 127 | 10 | 0 | 23 | 28 | 46 | 0 | 0 | 0 | 0 | 0 | 17 | 3 | 08:00 AM |
| 114 | 9 | 1 | 28 | 12 | 40 | 0 | 0 | 0 | 0 | 0 | 18 | 6 | 08:15 AM |
| 99 | 15 | 0 | 14 | 13 | 35 | 0 | 0 | 0 | 0 | 0 | 18 | 4 | 08:30 AM |
| 130 | 24 | 0 | 16 | 12 | 41 | 0 | 0 | 0 | 0 | 0 | 31 | 6 | 08:45 AM |
| 470 | 58 | 1 | 81 | 65 | 162 | 0 | 0 | 0 | 0 | 0 | 84 | 19 | Total |
| 1074 | 101 | 1 | 197 | 167 | 412 | 0 | 0 | 0 | 0 | 0 | 163 | 33 | Grand Total |
| | 33.8 | 0.3 | 65.9 | 28.8 | 71.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 83.2 | 16.8 | Apprch % |
| | 9.4 | 0.1 | 18.3 | 15.5 | 38.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 15.2 | 3.1 | Total % |

File Name : COURTH~3 Site Code : 00000001 Start Date : 01/28/2010

| Start Time | | - 10 - 11 - 11 - | use Roa | d | I-64 EB On-Ramps Westbound | | | | Courthouse Road Northbound | | | | I-64 EB Off-Ramps Eastbound | | | | |
|-----------------------|--------|------------------|---------|---------------|-------------------------------|------|-------|---------------|-------------------------------|------|-------|---------------|--------------------------------|------|-------|---------------|---------------|
| | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Int. Total |
| Peak Hour Fro | m 07:0 | O AM to | 08:45 | AM - Pea | k 1 of 1 | | | | | | | | | | | | |
| Intersection | 07.15 | AM | | | | | | | | | | | | | | | |
| Volume | 11 | 81 | 0 | 92 | 0 | 0 | 0 | 0 | 0 | 254 | 119 | 373 | 119 | 0 | 50 | 169 | 634 |
| Percent | 12.0 | 88.0 | 0.0 | | 0.0 | 0.0 | 0.0 | | 0.0 | 68.1 | 31.9 | | 70.4 | 0.0 | 29.6 | | |
| 07:15 Volume | 2 | 8 | 0 | 10 | 0 | 0 | 0 | 0 | 0 | 75 | 36 | 111 | 44 | 0 | 15 | 59 | 180 |
| Peak Factor | | | | | | | | | | | | | | | | | 0.881 |
| High Int. | 07:30 | AM | | | 6:45:0 | MA C | | | 07:15 | AM | | | 07:15 | ΑM | | | |
| Volume Peak Factor | 4 | 30 | 0 | 34 0.676 | 0 | 0 | 0 | 0 | 0 | 75 | 36 | 111 0.840 | 44 | 0 | 15 | 59 0.716 | |



Counter: D4-3295 Counted By: C. Evans

Weather: Clear

Other:

HVa Only

File Name : COURTH~3 Site Code : 00000001

Start Date : 01/28/2010

| | | | | | Groun | os Printed- i | Bank 1 | | | | | | | |
|-------------|------|------------------------|-------|------|-------------------------------|---------------|--------|-------------------------------|-------|------|--------------------------------|-------|------------|--|
| | | thouse Ro outhbound | | | I-64 EB On-Ramps Westbound | | | Courthouse Road Northbound | | | I-64 EB Off-Ramps Eastbound | | | |
| Start Time | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | Int. Total | |
| Factor | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | | |
| 07:00 AM | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 2 | | 0 | Ö | 1 | 7 | |
| 07:15 AM | 10 | 1 | 0 | 0 | 0 | 0 | 0 | 3 | 2 | / 3 | 0 | 1 | 10 | |
| 07:30 AM | 0 | 5 | 0 / | 0 | 0 | 0 | 0 | 2 | 0 | (2 | 0 | 1 | 10 | |
| 07:45 AM | Q | 0 | 0/ | 0 | 0 | 0 | 0 | 0 | 2/ | 0 | 0 | 3 | 5 | |
| Total | 0 | 7 | 0 | Ö | 0 | 1 | 0 | 7 | 6 | 5 | 0 | 6 | 32 | |
| 08:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | Q | 1 | 5 | |
| 08:15 AM | Ô | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 2 | 1 | 0 | 5 | |
| 08:30 AM | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 2 | 0 | 2 | 10 | |
| 08:45 AM | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 1 | 0 | 2 | 9 | |
| Total | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 8 | 2 | 7 | 1 | 5 | 29 | |
| Grand Total | 0 | 13 | 0 | 0 | 0 | 1 | 0 | 15 | 8 | 12 | 1 | 11 | 61 | |
| Apprch % | 0.0 | 100.0 | 0.0 | 0.0 | 0.0 | 100.0 | 0.0 | 65.2 | 34.8 | 50.0 | 4.2 | 45.8 | | |
| Total % | 0.0 | 21.3 | 0.0 | 0.0 | 0.0 | 1.6 | 0.0 | 24.6 | 13.1 | 19.7 | 1.6 | 18.0 | | |

Counter: D4-4792 Counted By: C. Evans

Weather: Clear

Total %

1.8

28.9

0.0

0.0

Other:

File Name : COURTH~2 Site Code : 00012010 Start Date : 01/20/2010

21.0

0.2

Page No : 1

| | | | | | Groups | Printed- U | nshifted | | | | | | |
|-------------|------|------------------|-------|------|-------------------------------|------------|----------|----------|-------|--------|------|-------|------------|
| | | house Routhbound | | | I-64 EB On-Ramps Westbound | | | house Ro | ad | I-64 E | | | |
| Start Time | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | Int. Total |
| Factor | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | |
| 04:00 PM | 1 | 41 | 0 | 0 | 0 | 0 | 0 | 44 | 18 | 9 | 2 | 30 | 145 |
| 04:15 PM | 7 | 40 | 0 | 0 | 0 | 0 | 0 | 28 | 14 | 15 | 0 | 19 | 123 |
| 04:30 PM | 6 | 38 | 0 | 0 | 0 | 0 | 0 | 17 | 20 | 17 | 0 | 19 | 117 |
| 04:45 PM | 1 | 44 | 0 | 0 | 0 | 0 | 0 | 38 | 12 | 11 | 0 | 22 | 128 |
| Total | 15 | 163 | Ô | Ō | 0 | 0 | 0 | 127 | 64 | 52 | 2 | 90 | 513 |
| 05:00 PM | 1 | 41 | 0 | 0 | 0 | 0 | 0 | 42 | 13 | 15 | 0 | 31 | 143 |
| 05:15 PM | 0 | 33 | 0 | 0 | 0 | 0 | 0 | 37 | 11 | 18 | 0 | 29 | 128 |
| 05:30 PM | 2 | 35 | 0 | 0 | 0 | 0 | 0 | 43 | 13 | 10 | 0 | 40 | 143 |
| 05:45 PM | 1 | 34 | 0 | 0 | 0 | 0 | 0 | 33 | 13 | 19 | Ω | 33 | 133 |
| Total | 4 | 143 | Ö | 0 | 0 | 0 | 0 | 155 | 50 | 62 | 0 | 133 | 547 |
| Grand Total | 19 | 306 | 0 | 0 | 0 | 0 | 0 | 282 | 114 | 114 | 2 | 223 | 1060 |
| Apprch % | 5.8 | 94.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 71.2 | 28.8 | 33.6 | 0.6 | 65.8 | |

0.0

0.0

26.6

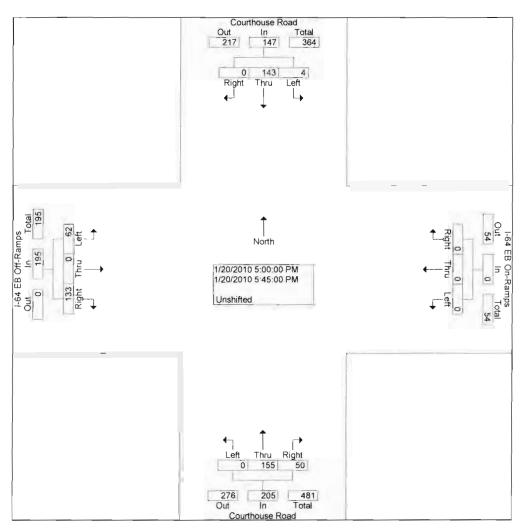
10.8

10.8

0.0

File Name: COURTH~2 Site Code: 00012010 Start Date: 01/20/2010

| Courthouse Road Southbound | | | | | I-64 EB On-Ramps Westbound | | | | Courthouse Road Northbound | | | | I-64 EB Off-Ramps Eastbound | | | |
|-------------------------------|----------------------------------|--|---|--|--|--|--|--|--|---|--|--|--|--|--|---|
| Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Int. Total |
| 04:00 | PM to | 05:45 F | M - Pea | k 1 of 1 | | | | | | | | | | | | |
| 05:00 I | PM | | | | | | ĺ | | | | | | | | | |
| 4 | 143 | 0 | 147 | 0 | 0 | 0 | 0 | 0 | 155 | 50 | 205 | 62 | 0 | 133 | 195 | 547 |
| 2.7 | 97.3 | 0.0 | | 0.0 | 0.0 | 0.0 | | 0.0 | 75.6 | 24.4 | | 31.8 | 0.0 | 68.2 | | |
| 2 | 35 | 0 | 37 | 0 | 0 | 0 | 0 | 0 | 43 | 13 | 56 | 10 | 0 | 40 | 50 | 143 |
| | | | | | | | | | | | | | | | | 0.956 |
| 05:00 F | PM | | | 3:45:00 PM | | 05:30 | РM | | | 05:45 | PM | | | | | |
| 1 | 41 | 0 | 42 | 0 | 0 | 0 | 0 | 0 | 43 | 13 | 56 | 19 | 0 | 33 | 52 | |
|) 5 | 04:00 5:00 F 4 2.7 2 | 04:00 PM to 5:00 PM 4 143 2.7 97.3 2 35 5:00 PM | 04:00 PM to 05:45 F 5:00 PM 4 143 0 2.7 97.3 0.0 2 35 0 | 04:00 PM to 05:45 PM - Pea 5:00 PM 4 143 0 147 2.7 97.3 0.0 2 35 0 37 5:00 PM | 04:00 PM to 05:45 PM - Peak 1 of 1 5:00 PM 4 | 04:00 PM to 05:45 PM - Peak 1 of 1 5:00 PM 4 | 04:00 PM to 05:45 PM - Peak 1 of 1 5:00 PM 4 | 04:00 PM to 05:45 PM - Peak 1 of 1 5:00 PM 4 | 04:00 PM to 05:45 PM - Peak 1 of 1 5:00 PM 4 143 0 147 0 0 0 0 0 2.7 97.3 0.0 0.0 0.0 0.0 2 35 0 37 0 0 0 0 0 5:00 PM 3:45:00 PM 1 41 0 42 0 0 0 0 0 | 04:00 PM to 05:45 PM - Peak 1 of 1 5:00 PM 4 | 04:00 PM to 05:45 PM - Peak 1 of 1 5:00 PM 4 143 | O4:00 PM to 05:45 PM - Peak 1 of 1 Total Total | 04:00 PM to 05:45 PM - Peak 1 of 1 5:00 PM 4 143 0 147 0 0 0 0 0 0 155 50 205 62 2.7 97.3 0.0 0 0 0 0 0 0 75.6 24.4 31.8 2 35 0 37 0 0 0 0 0 0 43 13 56 10 5:00 PM 1 41 0 42 0 0 0 0 0 0 43 13 56 19 | 04:00 PM to 05:45 PM - Peak 1 of 1 5:00 PM 4 | 04:00 PM to 05:45 PM - Peak 1 of 1 5:00 PM 4 | 04:00 PM to 05:45 PM - Peak 1 of 1 5:00 PM 4 143 0 147 0 0 0 0 0 0 155 50 205 62 0 133 195 2.7 97.3 0.0 0 0 0 0 0 0 43 13 56 10 0 40 50 5:00 PM 3:45:00 PM 1 41 0 42 0 0 0 0 0 0 43 13 56 19 0 33 52 |



Counter: D4-4792 Counted By: C. Evans

Weather: Ćlear

Other:

HV'S Daly

File Name : COURTH~2 Site Code : 00012010 Start Date : 01/20/2010

| 3 Off-Ramp istbound Thru | | |
|--------------------------------|--------------------------------------|---|
| stbound | | |
| Thru | | |
| IIII G | Right | Int. Tota |
| 1.0 | 1.0 | |
| 0 | C | 11 |
| 0 | C | 2 |
| 0 | C | 5 |
| 0 | 1 | 4 |
| 0 | 1 | 22 |
| 0 | 1 | 7 6 |
| 0 | 0 | 4 |
| 0 | C | 1 |
| 0 | 1 | 1 3 |
| 0 | 2 | 14 |
| 0 | 3 | 36 |
| 0.0 | 42.9 | |
| 0.0 | 8.3 | |
| | 0 0 0 0 0 0 0 0 | 0 0 0 0 0 0 0 1 0 1 0 0 0 0 0 1 0 2 0 0 0 0 |

AM PEAK HOUR Date: Thu, 9/4/08

LOCATION: Croaker Road/Rochambeau Drive

| CUMULATIVE | 15 MII | NUTE | COUNT | rs. | | | | | | | | | |
|---------------|--------|-------|--------|-------|------|-------|------|------|-------|------|------|-------|-------|
| | NB | NB | NB | SB | SB | SB | EB | EB | EB | WB | WB | WB | |
| TIME | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | Total |
| 7:00 to 7:15 | 10 | 68 | 7 | 5 | 52 | 28 | 57 | 20 | 3 | 1 | 8 | 1 | 260 |
| 7:15 to 7:30 | 18 | 150 | 17 | 10 | 91 | 60 | 121 | 42 | 9 | 6 | 22 | 7 | 553 |
| 7:30 to 7:45 | 30 | 218 | 27 | 13 | 130 | 98 | 199 | 72 | 19 | 10 | 31 | 10 | 857 |
| 7:45 to 8:00 | 54 | 294 | 33 | 17 | 181 | 151 | 261 | 109 | 32 | 19 | 58 | 14 | 1223 |
| 8:00 to 8:15 | 75 | 353 | 42 | 27 | 238 | 225 | 343 | 144 | 58 | 23 | 81 | 16 | 1625 |
| 8:15 to 8:30 | 84 | 412 | 51 | 33 | 280 | 253 | 413 | 179 | 78 | 25 | 93 | 17 | 1918 |
| 8:30 to 8:45 | 90 | 475 | 67 | 40 | 324 | 271 | 468 | 224 | 100 | 30 | 99 | 20 | 2208 |
| 8:45 to 9:00 | 96 | 518 | 76 | 47 | 376 | 285 | 510 | 255 | 106 | 33 | 104 | 22 | 2428 |
| Count Sheet | A | В | C | D | E | F | G | Н | I | J | K | L | |
| 15 MINUTE INT | ΓERVA | L COU | JNTS | | | | | | | | | | |
| | NB | NB | NB | SB | SB | SB | EB | EB | EB | WB | WB | WB | |
| TIME | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | Total |
| 7:00 to 7:15 | 10 | 68 | 7 | 5 | 52 | 28 | 57 | 20 | 3 | 1 | 8 | 1 | 260 |
| 7:15 to 7:30 | 8 | 82 | 10 | 5 | 39 | 32 | 64 | 22 | 6 | 5 | 14 | 6 | 293 |
| 7:30 to 7:45 | 12 | 68 | 10 | 3 | 39 | 38 | 78 | 30 | 10 | 4 | 9 | 3 | 304 |
| 7:45 to 8:00 | 24 | 76 | 6 | 4 | 51 | 53 | 62 | 37 | 13 | 9 | 27 | 4 | 366 |
| 8:00 to 8:15 | 21 | 59 | 9 | 10 | 57 | 74 | 82 | 35 | 26 | 4 | 23 | 2 | 402 |
| 8:15 to 8:30 | 9 | 59 | 9 | 6 | 42 | 28 | 70 | 35 | 20 | 2 | 12 | 1 | 293 |
| 8:30 to 8:45 | 6 | 63 | 16 | 7 | 44 | 18 | 55 | 45 | 22 | 5 | 6 | 3 | 290 |
| 8:45 to 9:00 | 6 | 43 | 9 | 7 | 52 | 14 | 42 | 31 | 6 | 3 | 5 | 2 | 220 |
| HOUR INTERV | AL | | | | | | | | | | | | |
| | NB | NB | NB | SB | SB | SB | EB | EB | EB | WB | WB | WB | |
| TIME | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | Total |
| 7:00 to 8:00 | 54 | 294 | 33 | 17 | 181 | 151 | 261 | 109 | 32 | 19 | 58 | 14 | 1223 |
| 7:15 to 8:15 | 65 | 285 | 35 | 22 | 186 | 197 | 286 | 124 | 55 | 22 | 73 | 15 | 1365 |
| 7:30 to 8:30 | 66 | 262 | 34 | 23 | 189 | 193 | 292 | 137 | 69 | 19 | 71 | 10 | 1365 |
| 7:45 to 8:45 | 60 | 257 | 40 | 27 | 194 | 173 | 269 | 152 | 81 | 20 | 68 | 10 | 1351 |
| 8:00 to 9:00 | 42 | 224 | 43 | 30 | 195 | 134 | 249 | 146 | 74 | 14 | 46 | 8 | 1205 |
| PEAK HOUR T | URNIN | IG MO | VEMEN | NT VO | LUME | S | | | | | | | |
| | NB | NB | NB | SB | SB | SB | EB | EB | EB | WB | WB | WB | |
| TIME | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | Total |
| 7:15 to 8:15 | 65 | 285 | 35 | 22 | 186 | 197 | 286 | 124 | 55 | 22 | 73 | 15 | 1365 |
| 7:30 to 8:30 | 66 | 262 | 34 | 23 | 189 | 193 | 292 | 137 | 69 | 19 | 71 | 10 | 1365 |
| PEAK HOUR FA | ACTO | RBYA | APPROA | CH | | | | | | | | | |
| | | NB | | | SB | | | EB | | | WB | | |
| 7:00 to 7:15 | | 85 | | | 85 | | | 80 | | | 10 | | |
| 7:15 to 7:30 | | 100 | | | 76 | | | 92 | | | 25 | | |
| 7:30 to 7:45 | | 90 | | | 80 | | | 118 | | | 16 | | |
| 7:45 to 8:00 | | 106 | | | 108 | | | 112 | | | 40 | | |
| 8:00 to 8:15 | | 89 | | | 141 | | | 143 | | | 29 | | |
| 8:15 to 8:30 | | 77 | | | 76 | | | 125 | | | 15 | | |
| 8:30 to 8:45 | | 85 | | | 69 | | | 122 | | | 14 | | |
| 8:45 to 9:00 | | 58 | | | 73 | | | 79 | | | 10 | | |
| PHF | | 0.91 | | | 0.72 | | | 0.81 | | | 0.69 | | |

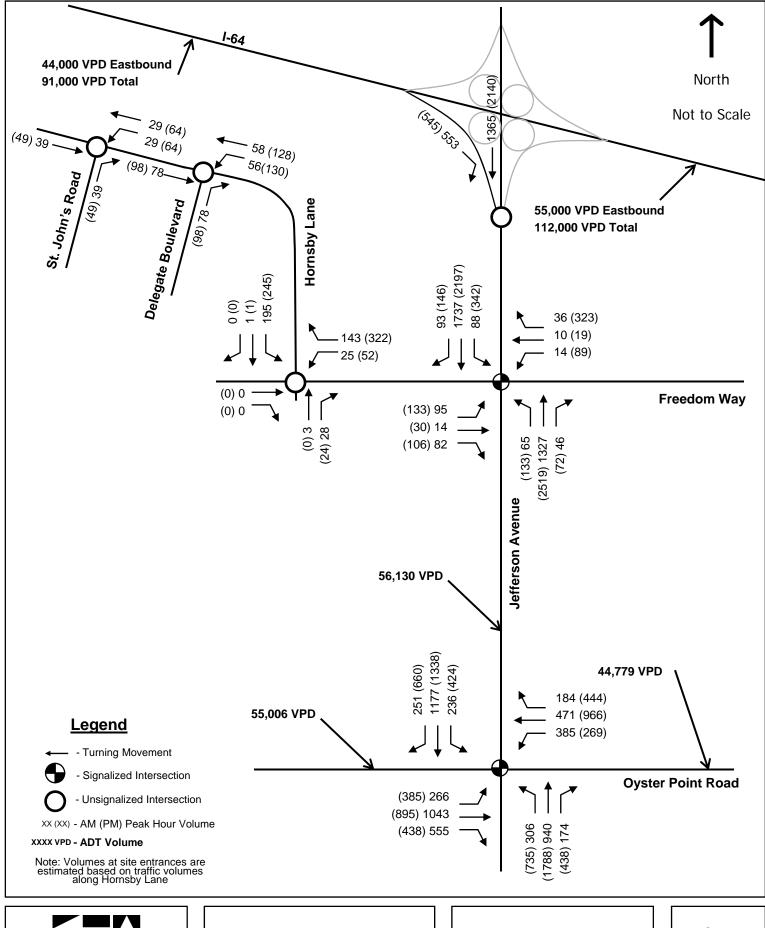
Exhibit L1a

PM PEAK HOUR Date: Wed, 9/3/08

LOCATION: Croaker Road/Rochambeau Drive

| CUMULATIVI | | | | | | | | | | | | | |
|--------------|-------|--------|-------|------|------|-------|------|------|-------|------|------|-------|-------|
| | NB | NB | NB | SB | SB | SB | EB | EB | EB | WB | WB | WB | |
| TIME | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | Total |
| 3:45 to 4:00 | | | | | | | | | | | | | |
| 4:00 to 4:15 | 13 | 51 | 10 | 6 | 63 | 29 | 25 | 30 | 13 | 16 | 39 | 10 | 305 |
| 4:15 to 4:30 | 22 | 122 | 17 | 13 | 139 | 60 | 52 | 53 | 23 | 29 | 72 | 20 | 622 |
| 4:30 to 4:45 | 47 | 181 | 24 | 21 | 223 | 92 | 87 | 67 | 32 | 41 | 121 | 33 | 969 |
| 4:45 to 5:00 | 67 | 228 | 30 | 25 | 289 | 145 | 114 | 87 | 50 | 60 | 167 | 44 | 1306 |
| 5:00 to 5:15 | 82 | 297 | 39 | 32 | 372 | 194 | 151 | 123 | 59 | 75 | 201 | 48 | 1673 |
| 5:15 to 5:30 | 106 | 374 | 51 | 37 | 443 | 223 | 184 | 153 | 75 | 94 | 248 | 67 | 2055 |
| 5:30 to 5:45 | 123 | 435 | 61 | 43 | 521 | 284 | 218 | 181 | 101 | 113 | 283 | 78 | 2441 |
| 5:45 to 6:00 | 135 | 489 | 75 | 49 | 598 | 332 | 248 | 205 | 114 | 126 | 311 | 92 | 2774 |
| Count Sheet | A | В | C | D | E | F | G | Н | I | J | K | L | |
| 15 MINUTE IN | TERV. | AL CO | UNTS | | | | | | | | | | |
| | NB | NB | NB | SB | SB | SB | EB | EB | EB | WB | WB | WB | |
| TIME | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | Total |
| 4:00 to 4:15 | 13 | 51 | 10 | 6 | 63 | 29 | 25 | 30 | 13 | 16 | 39 | 10 | 305 |
| 4:15 to 4:30 | 9 | 71 | 7 | 7 | 76 | 31 | 27 | 23 | 10 | 13 | 33 | 10 | 317 |
| 4:30 to 4:45 | 25 | 59 | 7 | 8 | 84 | 32 | 35 | 14 | 9 | 12 | 49 | 13 | 347 |
| 4:45 to 5:00 | 20 | 47 | 6 | 4 | 66 | 53 | 27 | 20 | 18 | 19 | 46 | 11 | 337 |
| 5:00 to 5:15 | 15 | 69 | 9 | 7 | 83 | 49 | 37 | 36 | 9 | 15 | 34 | 4 | 367 |
| 5:15 to 5:30 | 24 | 77 | 12 | 5 | 71 | 29 | 33 | 30 | 16 | 19 | 47 | 19 | 382 |
| 5:30 to 5:45 | 17 | 61 | 10 | 6 | 78 | 61 | 34 | 28 | 26 | 19 | 35 | 11 | 386 |
| 5:45 to 6:00 | 12 | 54 | 14 | 6 | 77 | 48 | 30 | 24 | 13 | 13 | 28 | 14 | 333 |
| HOUR INTER | VAL | | | | | | | | | | | | |
| | NB | NB | NB | SB | SB | SB | EB | EB | EB | WB | WB | WB | |
| TIME | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | Total |
| 4:00 to 5:00 | 67 | 228 | 30 | 25 | 289 | 145 | 114 | 87 | 50 | 60 | 167 | 44 | 1306 |
| 4:15 to 5:15 | 69 | 246 | 29 | 26 | 309 | 165 | 126 | 93 | 46 | 59 | 162 | 38 | 1368 |
| 4:30 to 5:30 | 84 | 252 | 34 | 24 | 304 | 163 | 132 | 100 | 52 | 65 | 176 | 47 | 1433 |
| 4:45 to 5:45 | 76 | 254 | 37 | 22 | 298 | 192 | 131 | 114 | 69 | 72 | 162 | 45 | 1472 |
| 5:00 to 6:00 | 68 | 261 | 45 | 24 | 309 | 187 | 134 | 118 | 64 | 66 | 144 | 48 | 1468 |
| | | | | | | . ~ | | | | | | | |
| PEAK HOUR T | | | | | | | ED | ED | ED | MID | IIID | TTID | |
| | NB | NB | NB | SB | SB | SB | EB | EB | EB | WB | WB | WB | m . 1 |
| TIME | Left | | Right | | | Right | Left | | Right | Left | | | Total |
| 4:45 to 5:45 | 76 | 254 | 37 | 22 | 298 | 192 | 131 | 114 | 69 | 72 | 162 | 45 | 1472 |
| PEAK HOUR I | FACTO | R BY A | APPRO | ACH | | | | | | | | | |
| | | NB | | | SB | | | EB | | | WB | | |
| 4:00 to 4:15 | | 74 | | | 98 | | | 68 | | | 65 | | |
| 4:15 to 4:30 | | 87 | | | 114 | | | 60 | | | 56 | | |
| 4:30 to 4:45 | | 91 | | | 124 | | | 58 | | | 74 | | |
| 4:45 to 5:00 | | 73 | | | 123 | | | 65 | | | 76 | | |
| 5:00 to 5:15 | | 93 | | | 139 | | | 82 | | | 53 | | |
| 5:15 to 5:30 | | 113 | | | 105 | | | 79 | | | 85 | | |
| 5:30 to 5:45 | | 88 | | | 145 | | | 88 | | | 65 | | |
| 5:45 to 6:00 | | 80 | | | 131 | | | 67 | | | 55 | | |
| PHF | | 0.81 | | | 0.88 | | | 0.89 | | | 0.82 | | |

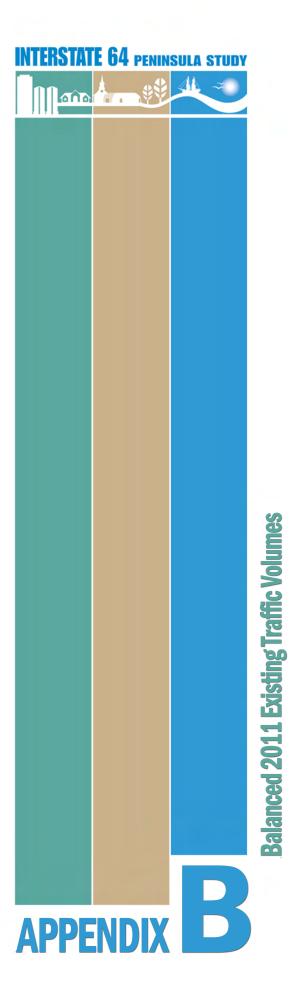
Exhibit L1b





and Associates, Inc.

Patrick Henry Place Newport News, Virginia Existing Turning Movement Volumes FIGURE **4**



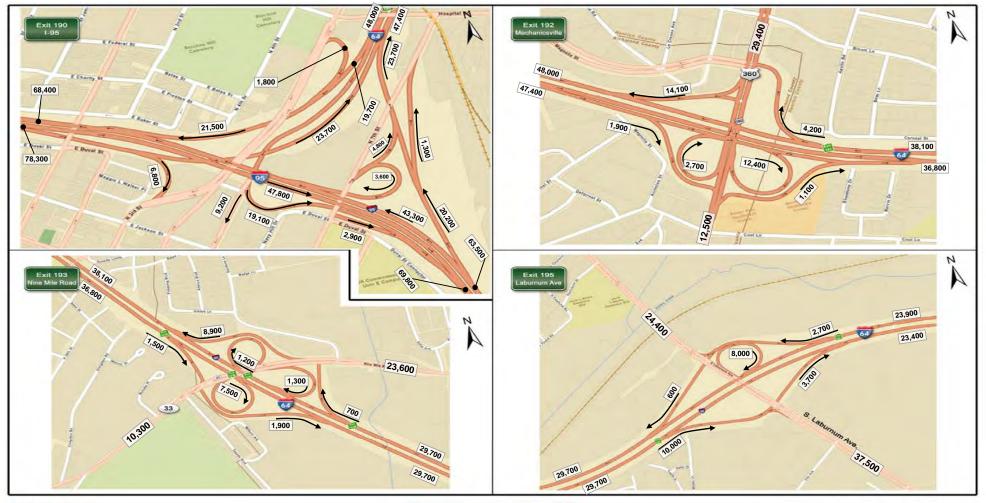






FIGURE 3: ADT Volumes

Base Year (2011) Balanced Volumes

Sheet 1 of 7

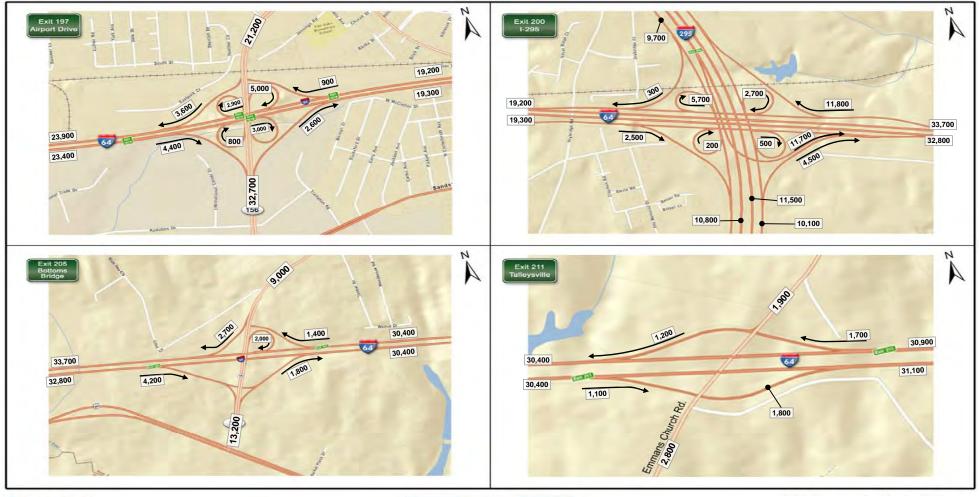






FIGURE 3: ADT Volumes

Base Year (2011) Balanced Volumes

Sheet 2 of 7

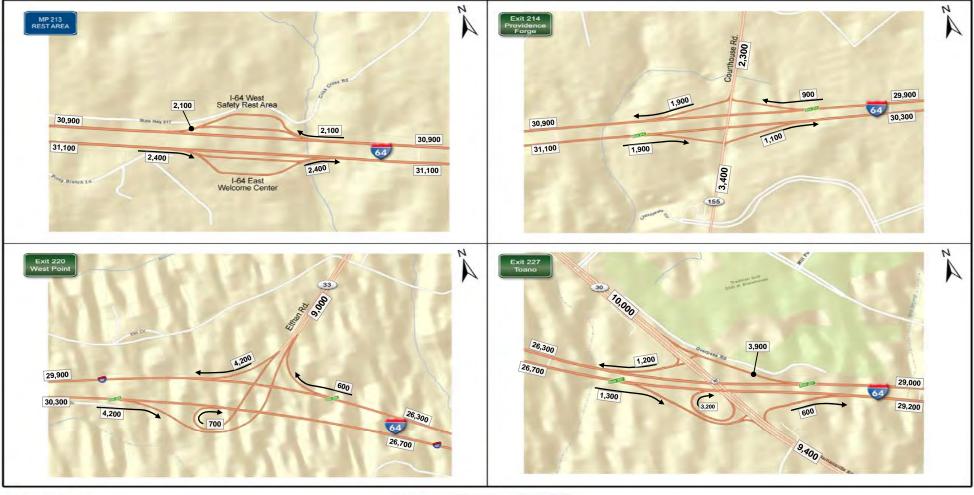






FIGURE 3: ADT Volumes

Base Year (2011) Balanced Volumes

Sheet 3 of 7

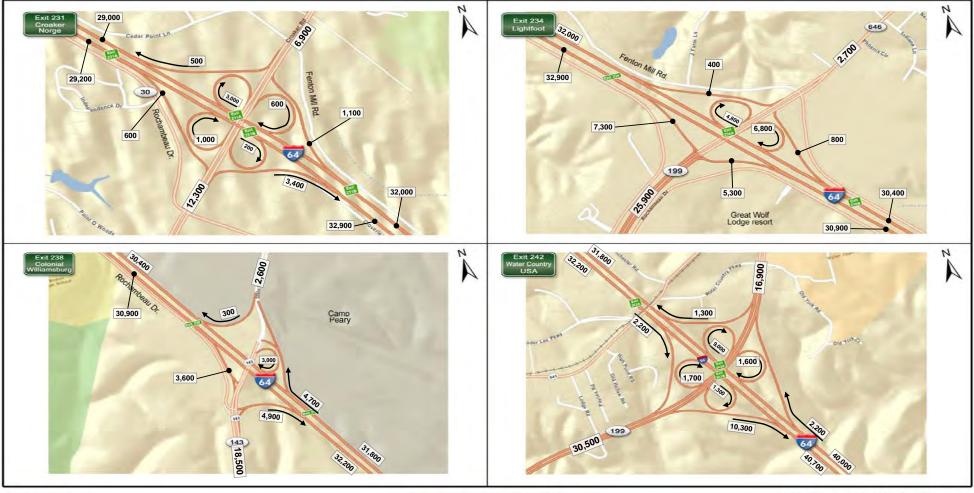






FIGURE 3: ADT Volumes

Base Year (2011) Balanced Volumes

Sheet 4 of 7

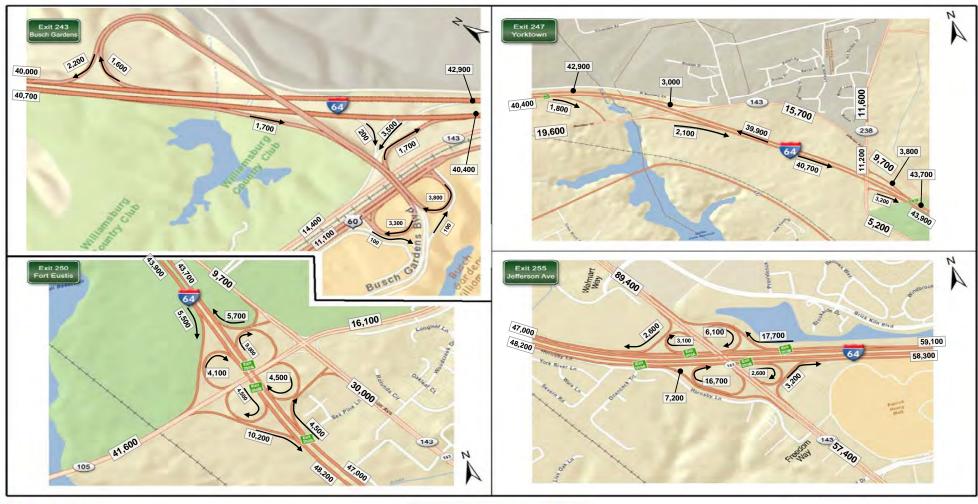






FIGURE 3: ADT Volumes

Base Year (2011) Balanced Volumes

Sheet 5 of 7

Note: Due to rounding, some volumes do not balance exactly.

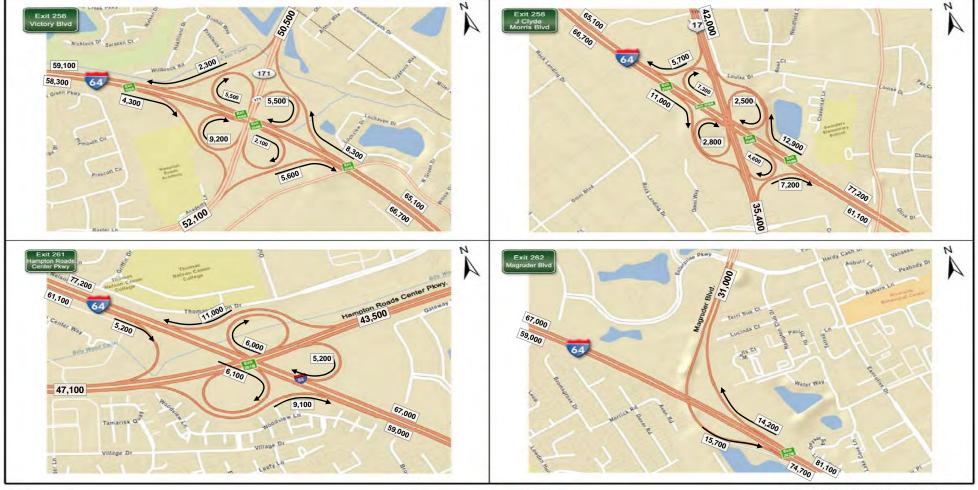






FIGURE 3: ADT Volumes

Base Year (2011) Balanced Volumes

Sheet 6 of 7

Note: Due to rounding, some volumes do not balance exactly.

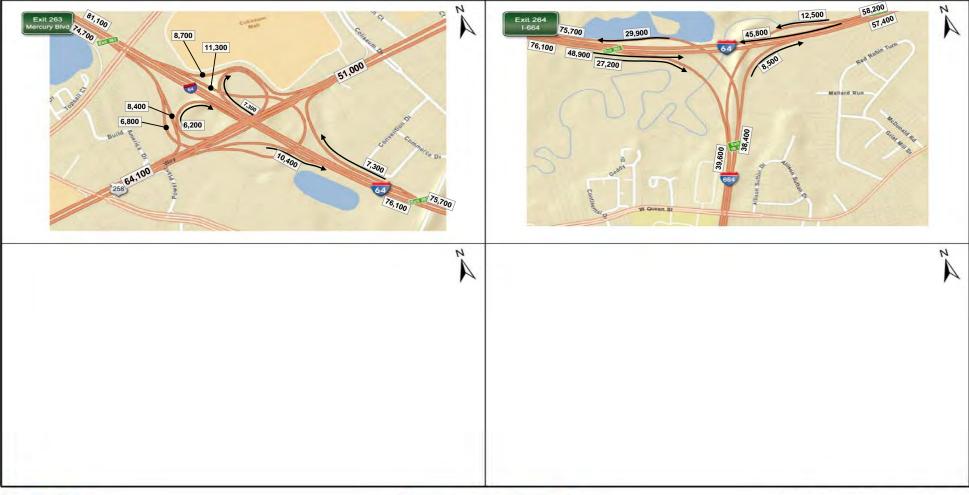






FIGURE 3: ADT Volumes

Base Year (2011) Balanced Volumes

Sheet 7 of 7

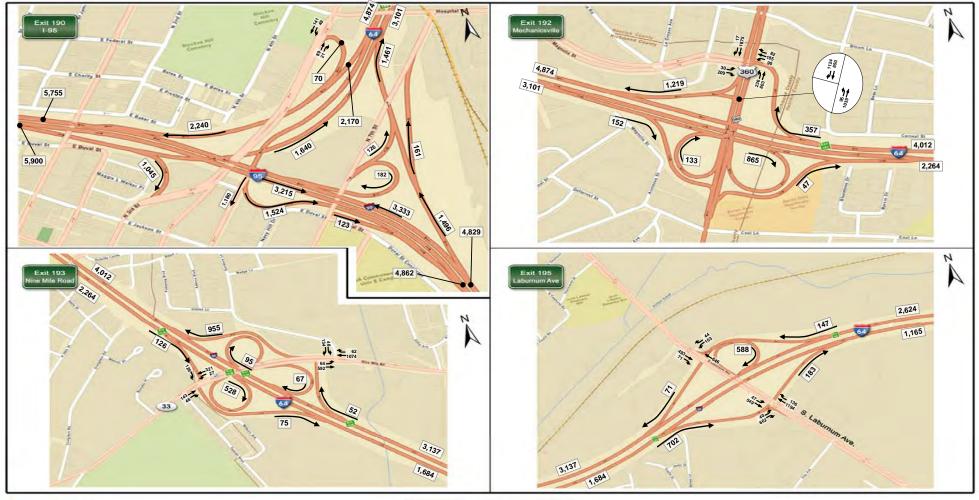






FIGURE 1: AM Peak Hour Volumes

Base Year (2011) Balanced Volumes

Sheet 1 of 7

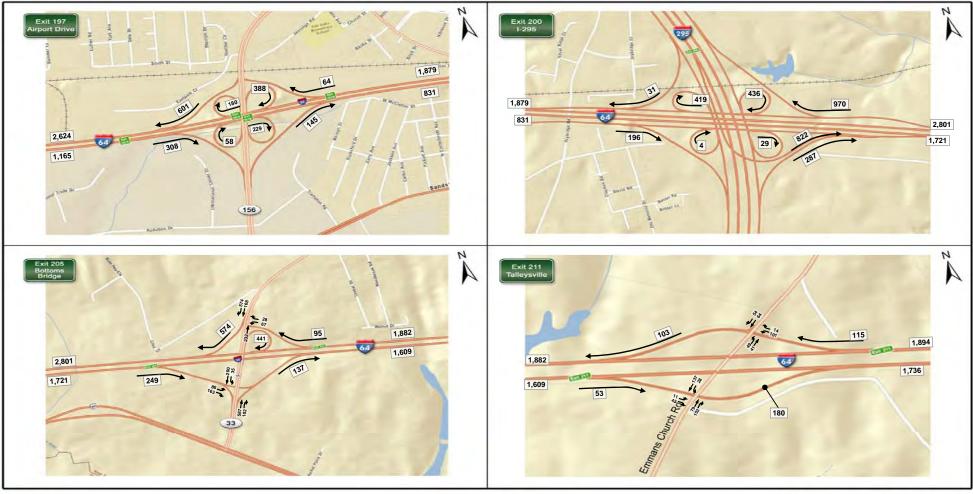






FIGURE 1: AM Peak Hour Volumes

Base Year (2011) Balanced Volumes

Sheet 2 of 7

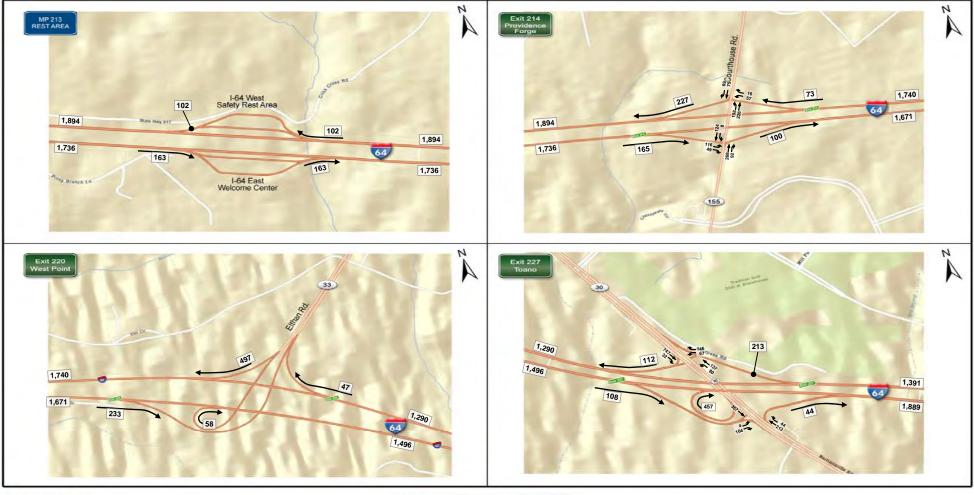






FIGURE 1: AM Peak Hour Volumes

Base Year (2011) Balanced Volumes

Sheet 3 of 7

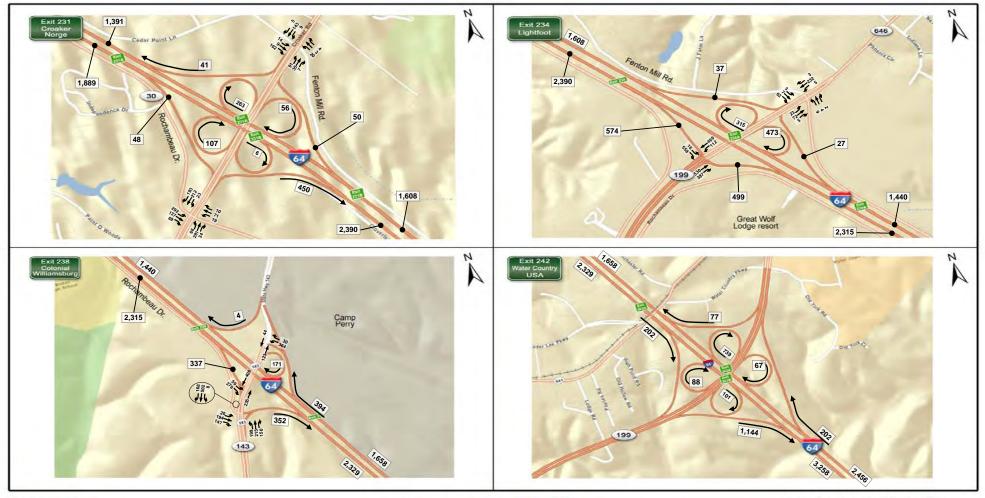






FIGURE 1: AM Peak Hour Volumes

Base Year (2011) Balanced Volumes

Sheet 4 of 7

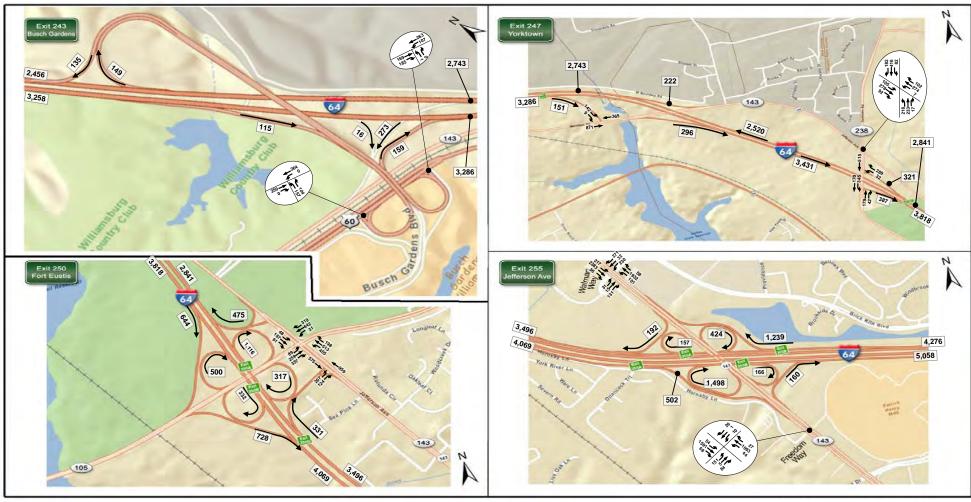






FIGURE 1: AM Peak Hour Volumes

Base Year (2011) Balanced Volumes

Sheet 5 of 7

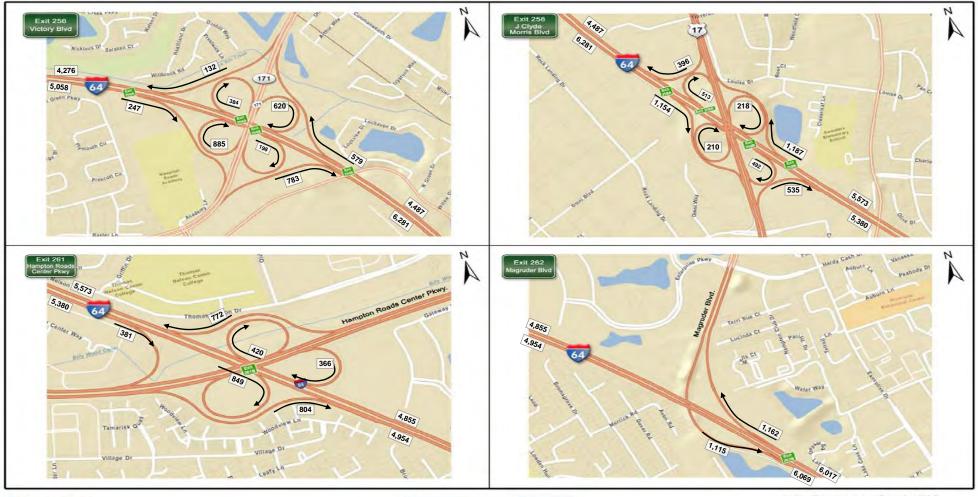






FIGURE 1: AM Peak Hour Volumes

Base Year (2011) Balanced Volumes

Sheet 6 of 7

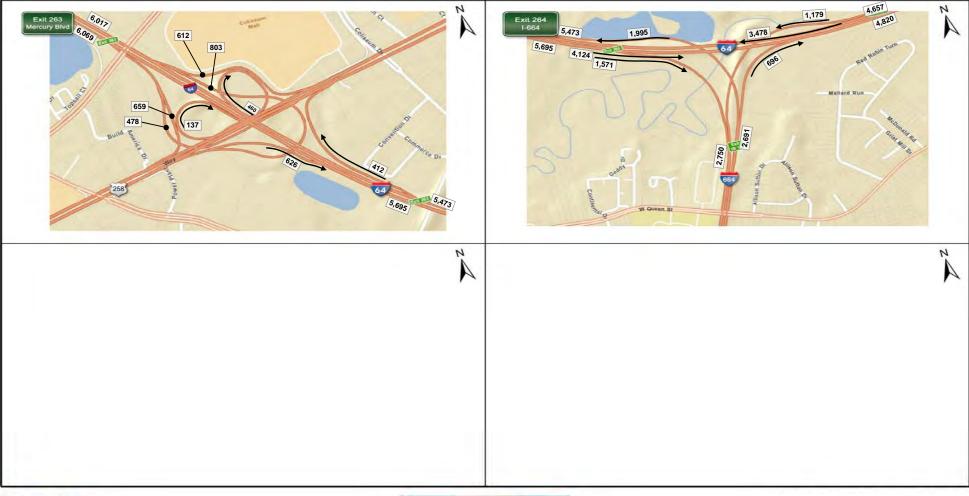






FIGURE 1: AM Peak Hour Volumes

Base Year (2011) Balanced Volumes

Sheet 7 of 7

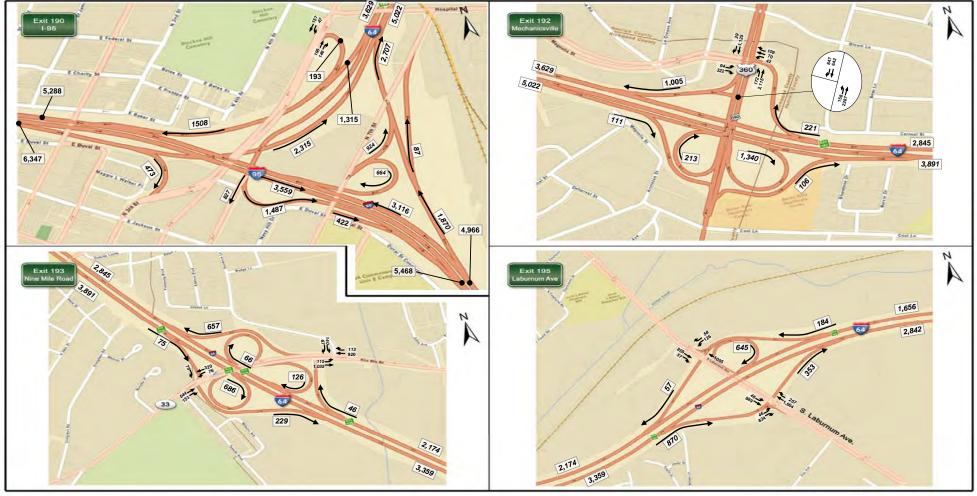






FIGURE 2: PM Peak Hour Volumes

Base Year (2011) Balanced Volumes

Sheet 1 of 7

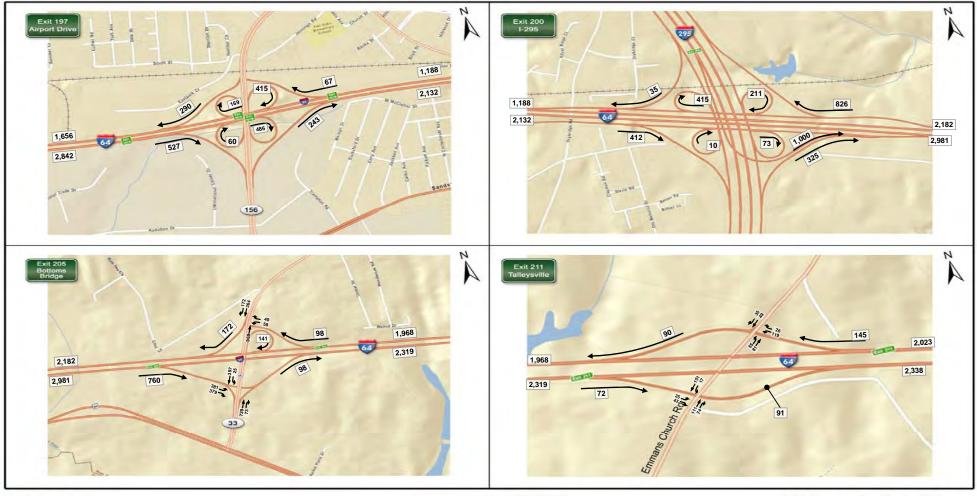






FIGURE 2: PM Peak Hour Volumes

Base Year (2011) Balanced Volumes

Sheet 2 of 7

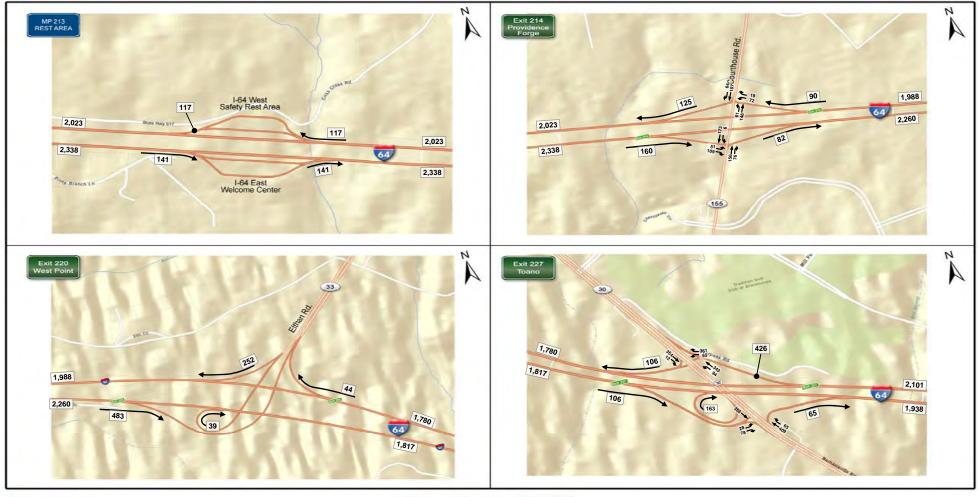






FIGURE 2: PM Peak Hour Volumes

Base Year (2011) Balanced Volumes

Sheet 3 of 7

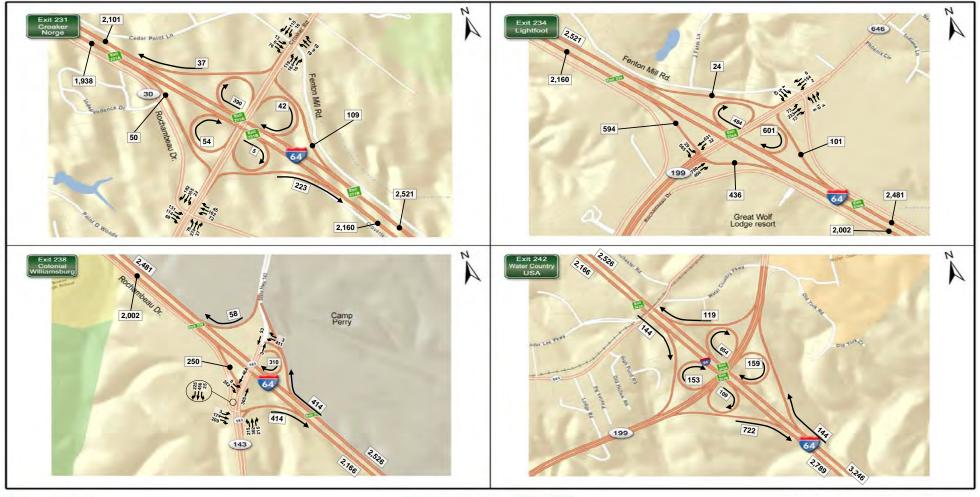






FIGURE 2: PM Peak Hour Volumes

Base Year (2011) Balanced Volumes

Sheet 4 of 7

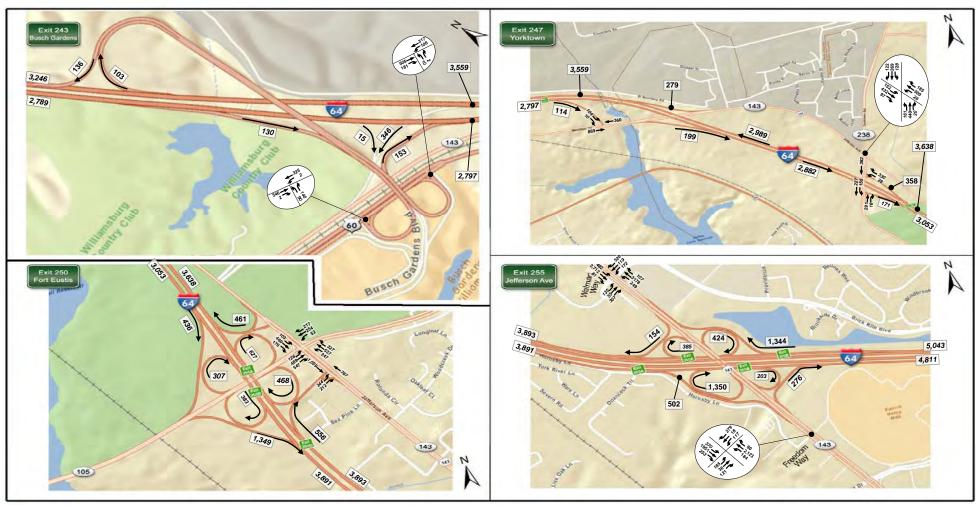






FIGURE 2: PM Peak Hour Volumes

Base Year (2011) Balanced Volumes

Sheet 5 of 7

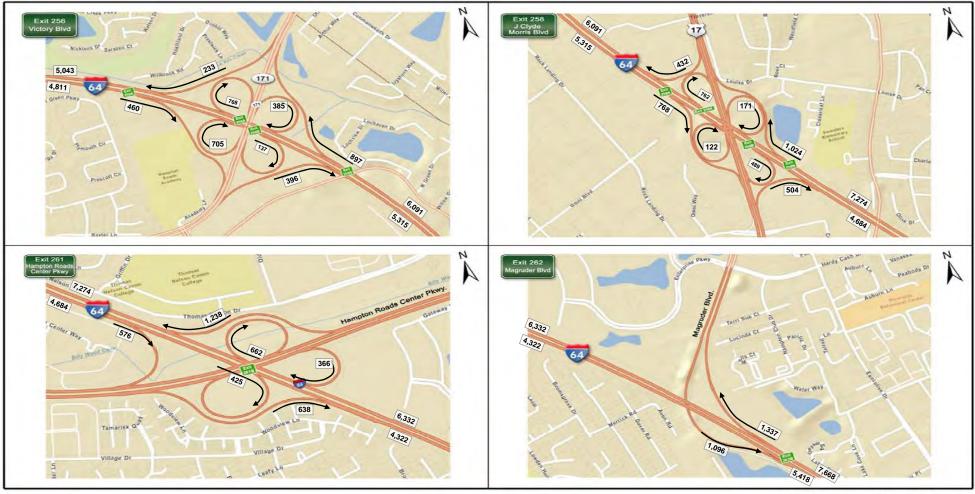






FIGURE 2: PM Peak Hour Volumes

Base Year (2011) Balanced Volumes

Sheet 6 of 7

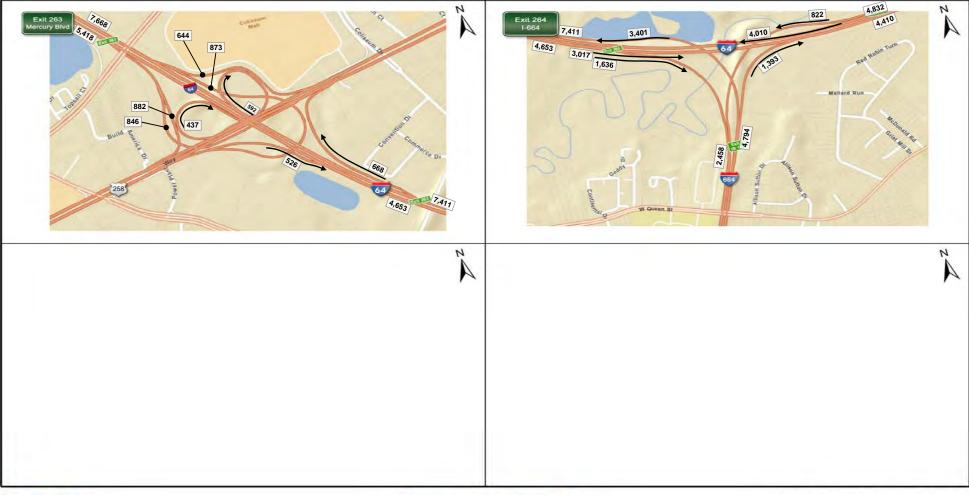






FIGURE 2: PM Peak Hour Volumes

Base Year (2011) Balanced Volumes

Sheet 7 of 7

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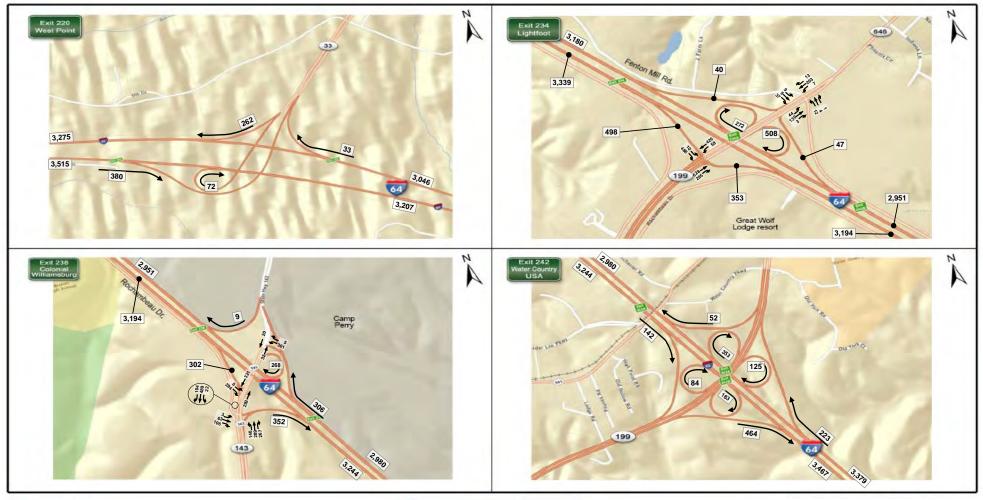


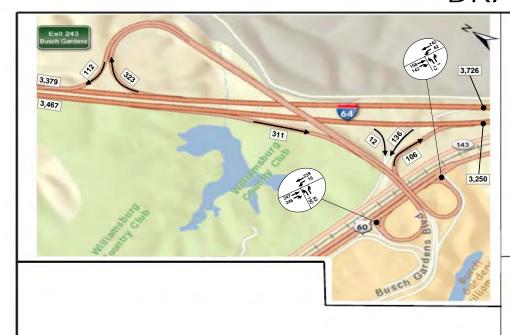




FIGURE 4: Summer SAT Peak Hour Volumes

Base Year (2011) Balanced Volumes

Sheet 1 of 2







Note: Due to rounding, some volumes do not balance exactly.

FIGURE 4: Summer SAT Peak Hour Volumes

Base Year (2011) Balanced Volumes

Sheet 2 of 2

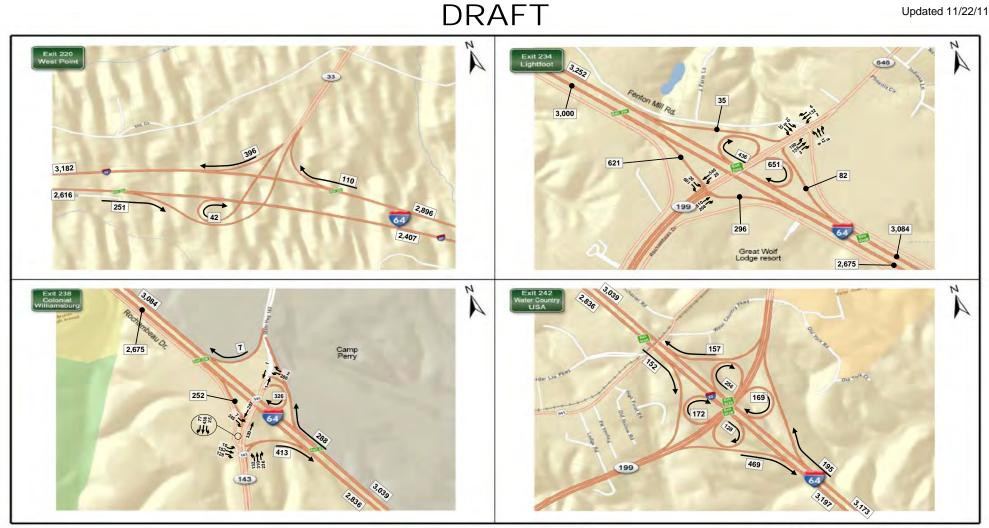






FIGURE 5: Summer SUN Peak Hour Volumes Base Year (2011) Balanced Volumes Sheet 1 of 2

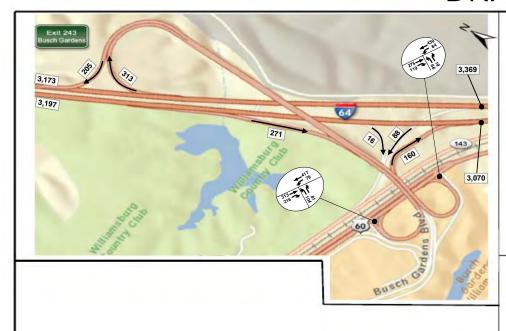






FIGURE 5: Summer SUN Peak Hour Volumes

Base Year (2011) Balanced Volumes

Sheet 2 of 2







Note: Due to rounding, some volumes do not balance exactly.

FIGURE 6: Volumes

Summer SAT NIGHT Peak Hour

Base Year (2011) Balanced Volumes

Sheet 1 of 1





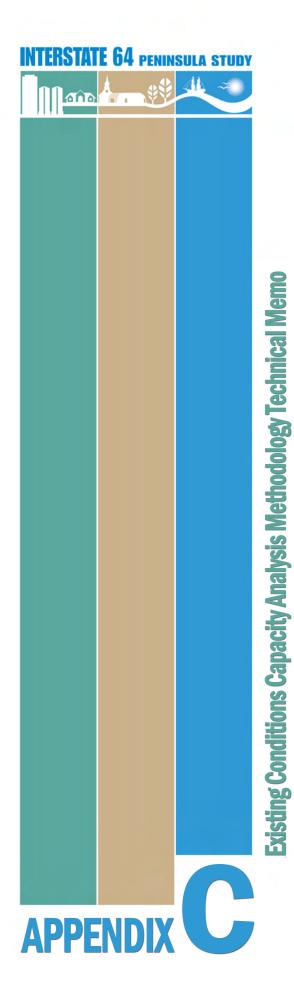


Note: Due to rounding, some volumes do not balance exactly.

FIGURE 7: Volumes

Summer SUN NIGHT Peak Hour

Base Year (2011) Balanced Volumes Sheet 1 of 1







MEMORANDUM

TO: FILE

FROM: Marc Lipschultz – McCormick Taylor, Inc.

DATE: 8/17/11

REVISED 10/17/11

SUBJECT: Existing Conditions Capacity Analysis Methodology

Level of Service (LOS) analyses for this study was conducted for both AM and PM peak hour conditions for the entire corridor between Exit 190 in Richmond and Exit 264 in Hampton. In addition, LOS analysis was conducted for Saturday and Sunday summer peak hour conditions at certain summer traffic-intensive interchanges near the major tourism interchanges along the corridor.

Analyses adhere to the methodology of the 2010 Highway Capacity Manual (HCM), and we utilized the companion software HCS 2010. These operational analyses include several types of facilities:

- Basic Freeway Segments
- Ramp Merges & Diverges
- Weaving Segments
- Signalized Intersections
- Unsignalized Intersections

Analyses for each of these types of facilities depend on numerous parameters relating to the configuration of the facility, the geometric and traffic control conditions, and the characteristics of the traffic stream. Inputs for many of the parameters are based on collected data, while others are assumed for the purpose of analysis. The purpose of this memo is to describe the inputs and assumptions used in the development of this capacity analysis.

Basic Freeway Segments

Geometric Inputs

- A Base Free Flow Speed of 75.4 mph was assumed (based on the default parameters of the HCM) and then adjusted using HCM procedures according to geometric factors including lane width, right lane lateral clearance, and interchange spacing.
- Number of Lanes
 - Note: There are HOV lanes at eastern end of the study limits, which lead to skewed lane utilization and reduced capacity that is not accounted for by traditional HCM methodology. To address this for the purpose of analysis, we assumed a certain percentage of through





traffic used the HOV lane, then we inputted one less freeway lane and removed that percentage of the volume.

- The percentages used were based on data provided by VDOT from counts done at the I-64 HOV lanes near the J Clyde Morris Blvd interchange in October 2010, as follows:
 - Eastbound during AM peak hour: 7%
 - Westbound during AM peak hour: 4%
 - Eastbound during PM peak hour: 5%
 - Westbound during PM peak hour: 8%
- LOS in the HOV lanes was estimated using the v/c ratio, with an assumed capacity of a single-lane HOV lane at 1800 pcph. Note that the existing volumes in the HOV lanes are well below that.
- Lateral Clearance: right-side lateral clearance varies from approx. 4 feet (between Exit 190 and Exit 192) to 6+ feet throughout the rest of the corridor
- Lane Width: is generally 12 feet throughout the entire corridor, with the exception of the section between Exit 190-192 (the Shockoe Valley Bridge) which is 11 feet
- Ramp Density: calculated separately for each segment
- Level terrain type through the entire corridor
- Driver population adjustment factor
 - For weekday AM and PM peak hour analysis, we used a 1.0 adjustment factor since the I-64 corridor serves a lot of commuter traffic, especially in the sections west of I-295 and east of Williamsburg.
 - For the summer Saturday and Sunday peak hour analysis, we used a 0.85 adjustment factor to account for the significant volumes of tourist traffic going to the Northern Neck, Williamsburg, and/or Virginia Beach.

Volume Inputs

- Peak Hour Volumes based on balanced 2011 Base Traffic Volumes
- Heavy Vehicle Percentages
 - Used actual data for mainline segments with available classification data, designating heavy vehicles as those in Class 6 and above.
 - To address segments where classification data was not available, we grouped the corridor into sections and applied the nearest known heavy vehicle percentage to all mainline segments with that section, as shown in the attached table.
 - \circ Assumed all heavy vehicles are trucks and buses (0% recreational vehicles)
- Peak Hour Factor based on the default assumptions of the 2010 HCM
 - o 0.95 for urban areas (Exits 190-200 and 242-264)
 - o 0.88 for rural areas (Exits 205-238)

Ramp Merge/Diverges and Weaving Segments

Geometric Inputs

- Ramp free-flow speeds:
 - \circ C-D roads = 55 mph
 - o Diamond interchange or other straight ramps = 45 mph
 - Loop ramps = 35 mph





- Adjacent freeway free-flow speeds:
 - Exit 190 through Exit 195 = 65 mph
 - o Exit 197 through Exit 263 = 70 mph
 - \circ Exit 264 = 65 mph
- Number of Lanes
 - Note: There are HOV lanes at eastern end of the study limits, which lead to skewed lane utilization and reduced capacity that is not accounted for by traditional HCM methodology. To analyze ramp merges/diverges/weaves within the sections of the corridor that have HOV lanes, we assumed a certain percentage of mainline through traffic used the HOV lane, then we inputted one less freeway lane and removed that percentage of the volume. Those percentages are listed above in the discussion on freeway segment analysis.
- Accel/decel and weaving segment lengths are based on base mapping assembled by McCormick Taylor
- Level terrain type through the entire corridor
- Driver population adjustment factor
 - For weekday AM and PM peak hour analysis, we used a 1.0 adjustment factor since the I-64 corridor serves a lot of commuter traffic, especially in the sections west of I-295 and east of Williamsburg.
 - o For the summer Saturday and Sunday peak hour analysis, we used a 0.85 adjustment factor to account for the significant volumes of tourist traffic going to the Northern Neck, Williamsburg, and/or Virginia Beach.
- Minimum Weaving Segment Speed = 15 mph (HCS default)
- Interchange Density: calculated separately for each weaving segment
- Weaving segments on multilane Collector-Distributor (C-D) roads (for example, at Exit 200) are analyzed the same as weaving sections on freeways.
- There is one single-lane C-D road at Exit 192/Mechanicesville Turnpike that cannot be analyzed using traditional HCM methodology. We approximated the weaving capacity at this location by analyzing it as a weave onto a two lane freeway with 105% more volume than what is actually there. That percentage is based on the HCM default assumption that 52.5% of traffic uses any one lane where there are two lanes in that direction.
- In addition to the interchanges directly on I-64, merges/diverges/weaves were also analyzed at the US Route 60 & Busch Gardens Blvd interchange

Volume Inputs

- Peak Hour Volumes based on balanced 2011 Base Traffic Volumes
- For weaving segments within the same interchange, we assumed zero rampto-ramp volume
- For weaving segments between two closely-spaced interchanges, we assumed a ramp-to-ramp volume of roughly 10% of the on-ramp volume, except for the weaving section between Exits 263-264. The remaining 90% of the on-ramp volume would stay on the freeway. Those percentages are based on engineering judgment.
 - o It is anticipated that there is considerably higher weaving volumes between Exit 263 (Mercury Blvd) and Exit 264 (I-664). We are in the





process of further investigating other sources of data as to what might be the weaving percentages at this location.

- Heavy Vehicle Percentages
 - Used actual data for any facilities (ramps and adjacent freeway segments) that had available heavy vehicle data. Sources of this data include VDOT ramp counts (Exits 205-231), manual ramp counts (Exits 200 and 264), ramp termini intersection counts, and mainline segments with available classification data.
 - To address any facility where actual heavy vehicle data was not available, we applied the previously developed section-by-section mainline heavy vehicle percentage to both the adjacent freeway segment and the ramp.
 - Assumed all heavy vehicles are trucks and buses (0% recreational vehicles)
- Peak Hour Factor based on the default assumptions of the 2010 HCM
 - o 0.95 for urban areas (Exits 190-200 and 242-264)
 - o 0.88 for rural areas (Exits 205-238)

Unsignalized and Signalized Intersection Analyses

- A list of intersections included in the analysis is included with this memo. This
 list was assembled at the onset of the project. Generally, all intersections at
 the ramp termini were included in the study. At certain interchanges,
 intersections in close proximity to the interchange were also included since
 the operations at those intersections would likely affect operations at the
 interchanges itself.
- Peak Hour Volumes based on balanced 2011 Base Traffic Volumes
- PHF and truck %s are based on actual count data
- All lane widths = 12 feet
- Arrival Type 3 on all approaches
- No buses or parking activity
- No bicycle or pedestrian activity
- Upstream Filtering Adjustment Factor = 1.0
- In the absence of specific data, we generally assumed no right turns on red, except at specific locations with very high right-turn volumes. Right-turn overlap phases were coded where applicable.
- For unsignalized intersections, entered no upstream signal data
- Signal phasing/timing inputs based on data provided by VDOT and/or City of Newport News

TABLE 1 – EXISTING MAINLINE TRUCK PERCENTS

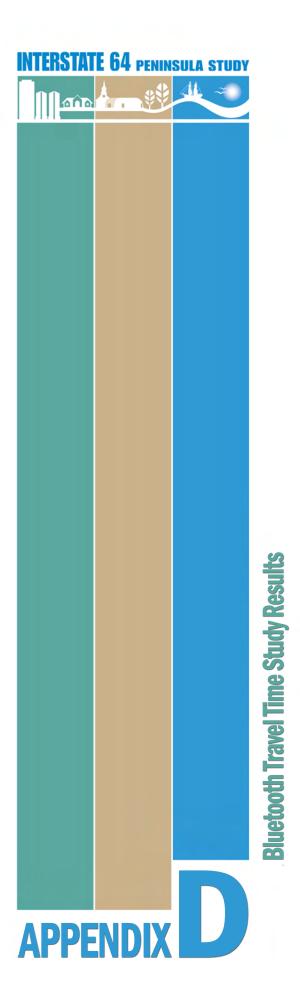
| Exit | Eastbound I-64 | | Westbound I-64 | |
|---------|----------------|---------|----------------|---------|
| | AM peak | PM peak | AM peak | PM peak |
| 190-200 | 5 | 2 | 2 | 5 |
| 200-227 | 13 | 4 | 5 | 11 |
| 227-250 | 9 | 4 | 5 | 8 |
| 250-264 | 3 | 3 | 4 | 3 |

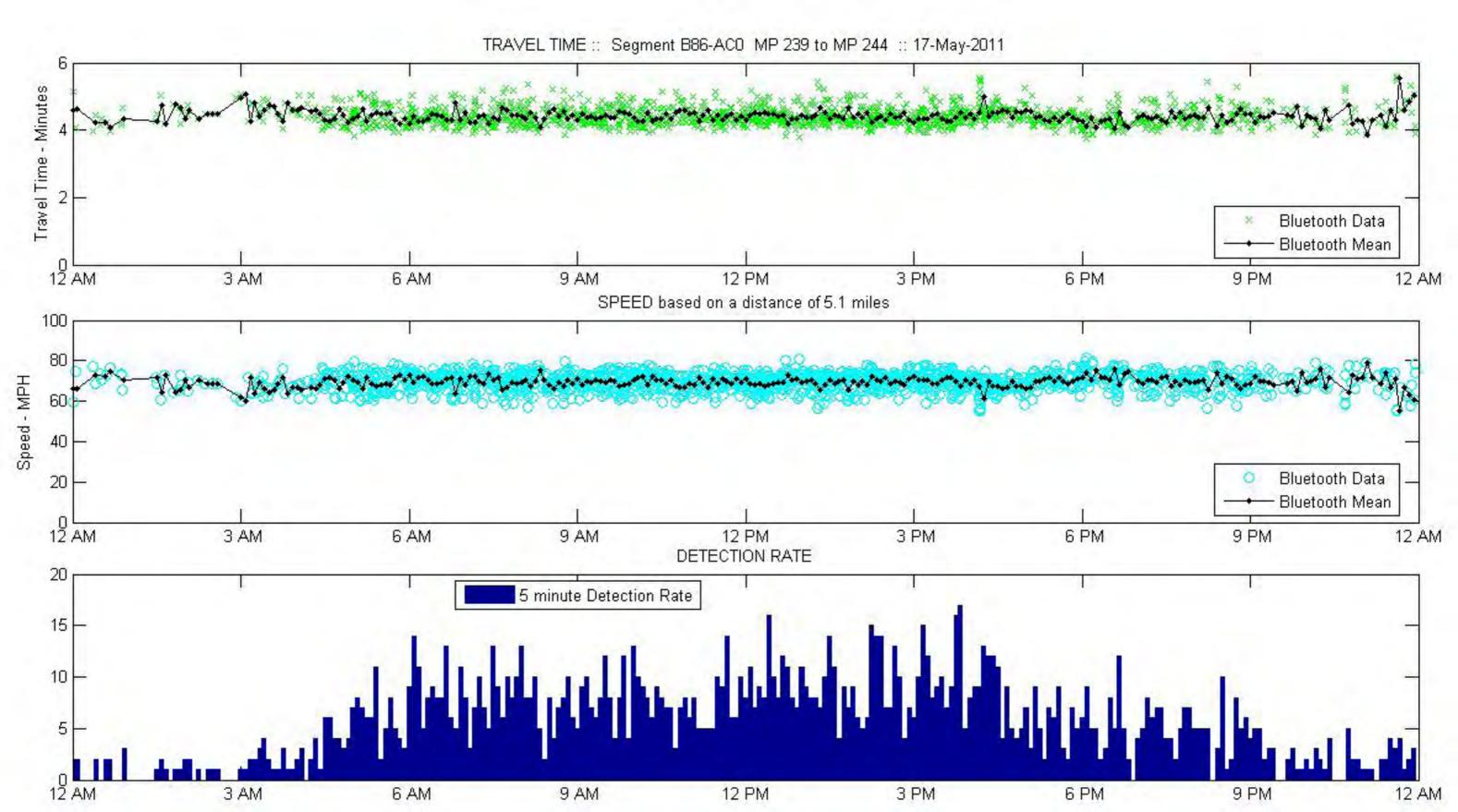


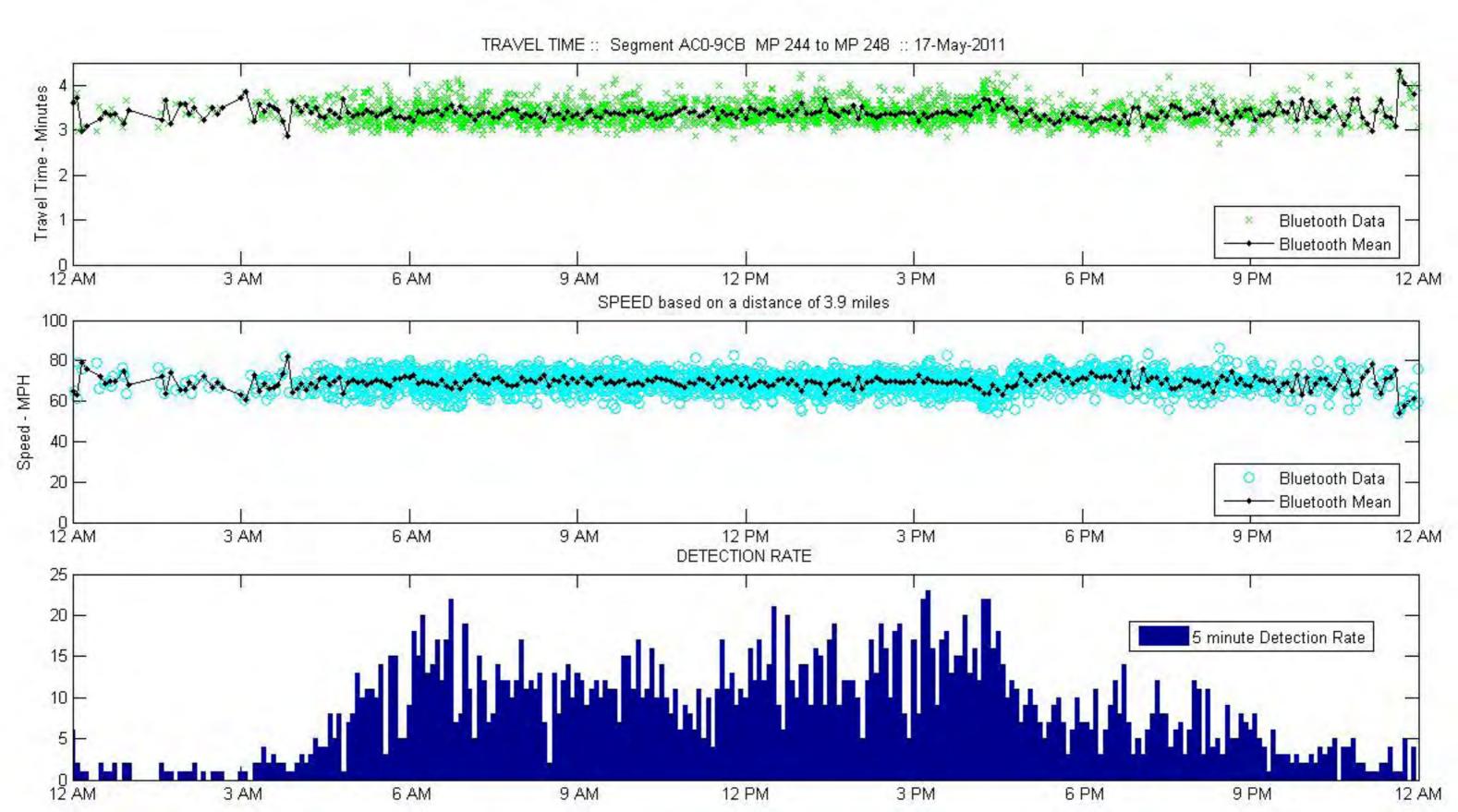


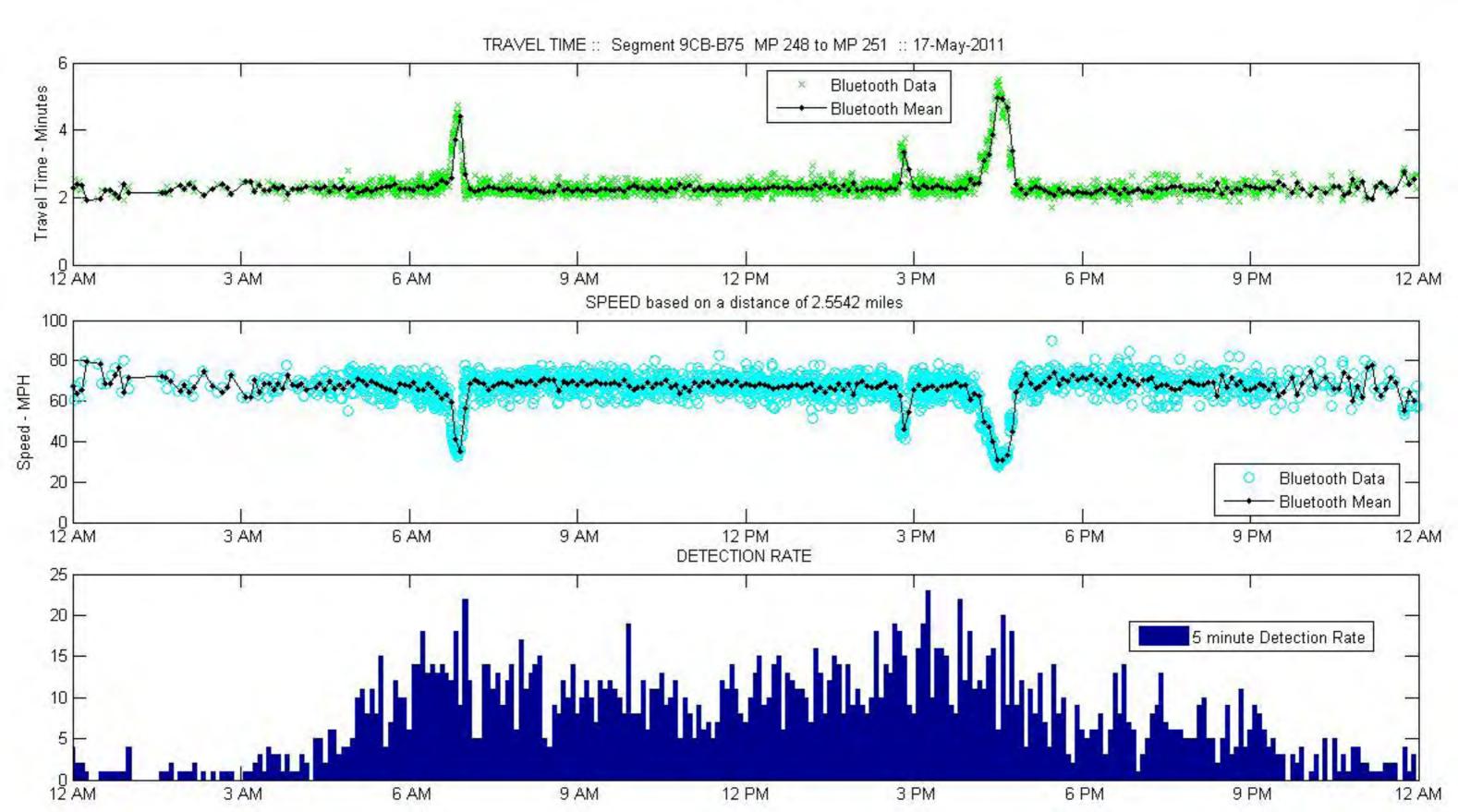
TABLE 2 – LIST OF INTERSECTIONS

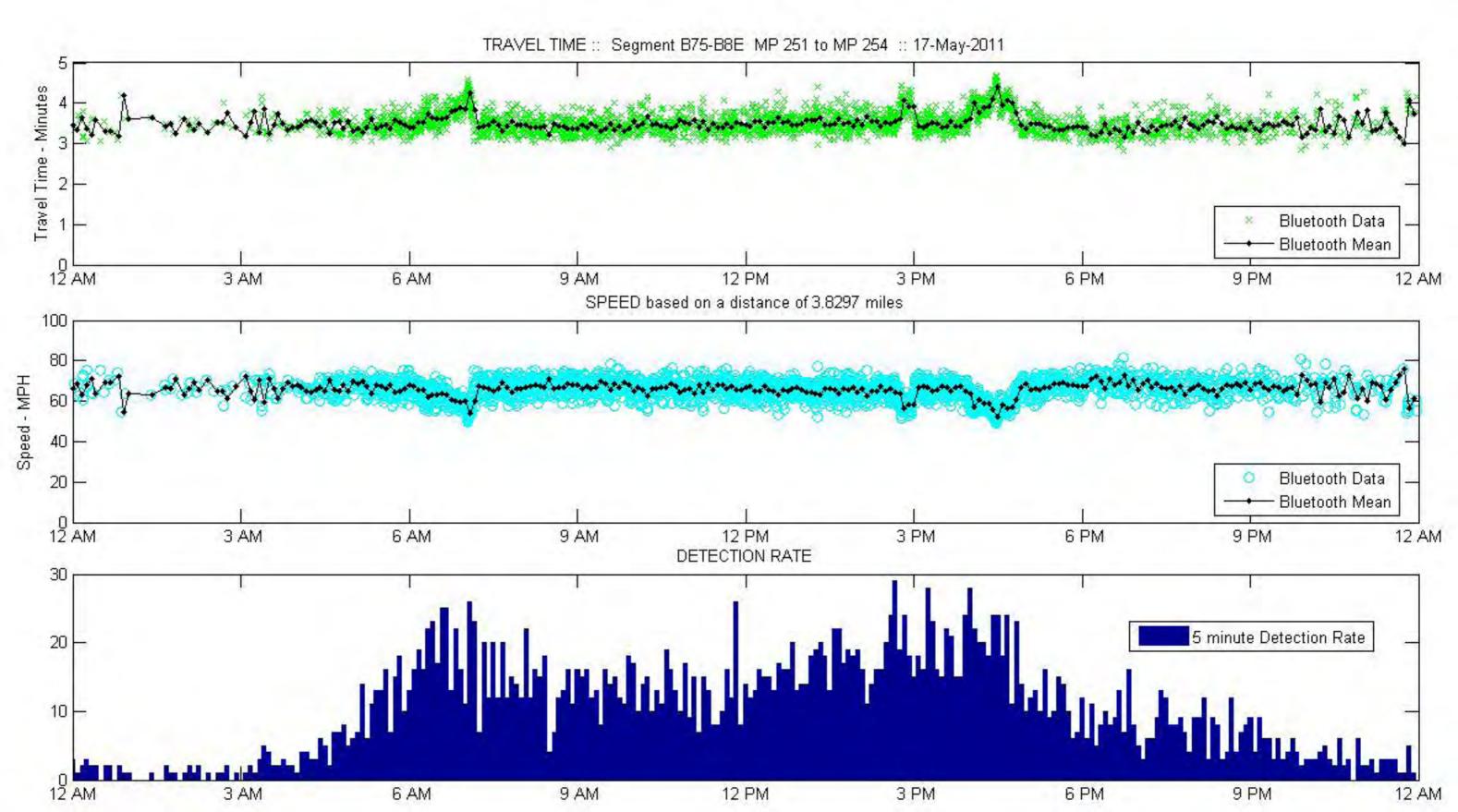
| Int. | Interchange | Locality | Intersection | Туре |
|-------|--------------------------|------------|--|------------------|
| 190-A | I-95 | Richmond | 5th Street & 95 N on-ramp | stop |
| 190-B | I-95 | Richmond | 3rd Street & 95 S off-ramp | stop |
| 192-A | US 360 Mech'ville Tpk | Richmond | I-64 WB off-ramp/Magnolia St & US 360 | signal |
| 193-A | VA 33 Nine Mile Road | Henrico | I-64 EB Ramps & Nine Mile Rd | stop |
| 193-B | VA 33 Nine Mile Road | Henrico | Nine Mile Rd & Gordon's Lane | signal |
| 193-C | VA 33 Nine Mile Road | Henrico | I-64 WB off-ramp & Nine Mile Rd | stop |
| 195-A | Laburnum Ave | Henrico | I-64 EB Ramps & Laburnum Ave | signal |
| 195-B | Laburnum Ave | Henrico | I-64 WB Ramps & Laburnum Ave | signal |
| 205-A | Bottoms Bridge | New Kent | I-64 EB Ramps & New Kent Hwy | signal |
| 205-B | Bottoms Bridge | New Kent | I-64 WB Ramps & New Kent Hwy | stop |
| 211-A | VA 106 (Talleysville) | New Kent | I-64 EB Ramps & Emmans Church Road | future r'bout |
| 211-B | VA 106 (Talleysville) | New Kent | I-64 WB Ramps & Emmans Church Road | future r'bout |
| 214-A | VA 155 (Prov. Forge) | New Kent | I-64 EB Ramps & Courthouse Rd | stop |
| 241-B | VA 155 (Prov. Forge) | New Kent | I-64 WB Ramps & Courthouse Rd | stop |
| 227-A | VA 30 (Toano) | James City | I-64 EB Ramps & Old Stage Road | stop |
| 227-B | VA 30 (Toano) | James City | I-64 WB Ramps & Old Stage Road | stop |
| 231-A | Route 607 (Croaker) | James City | Croaker Road & Rochambeau Dr | signal |
| 231-B | Route 607 (Croaker) | James City | Croaker Road & Fenton Mill Road | stop |
| 234-A | VA 199 (Lightfoot) | York | I-64 EB Ramps & Newman Road | stop |
| 234-B | VA 199 (Lightfoot) | York | Newman Road & Fenton Mill Rd | stop |
| 238-A | VA 143 (Colonial Wbg) | York | I-64 EB off-ramp & Merrimac Trail | stop |
| 238-В | VA 143 (Colonial Wbg) | York | I-64 EB on-ramp, Merrimac Trail, & Rochambeau Drive | signal |
| 238-C | VA 143 (Colonial Wbg) | York | I-64 WB off-ramp & Merrimac Trail | stop |
| 243-A | Busch Gardens | York/JC | Busch Gardens Blvd NB ramps & US 60 | signal |
| 243-B | Busch Gardens | York/JC | Busch Gardens Blvd SB ramps & US 60 | signal |
| 247-A | VA 238 (Yorktown) | N. News | I-64 EB off-ramp & Jefferson Ave | stop |
| 247-B | VA 238 (Yorktown) | N. News | Jefferson Ave & Yorktown Road | signal |
| 247-C | VA 238 (Yorktown) | N. News | I-64 EB on-ramp & Yorktown Rd | stop |
| 247-D | VA 238 (Yorktown) | N. News | I-64 WB off-ramp & Yorktown Rd | stop |
| 250-A | VA 105 (Ft Eustis) | N. News | I-64 WB off-ramp & Jefferson Ave | signal |
| 250-B | VA 105 (Ft Eustis) | N. News | Jefferson Ave & Ft Eustis Blvd | signal |
| 255-A | VA 143 (Jefferson Ave) | N. News | Jefferson Ave & Freedom Way/Clair Ln | signal |
| 255-B | VA 143 (Jefferson Ave) | N. News | Jefferson Ave & Brick Kiln Blvd/Wal-Mart | signal |

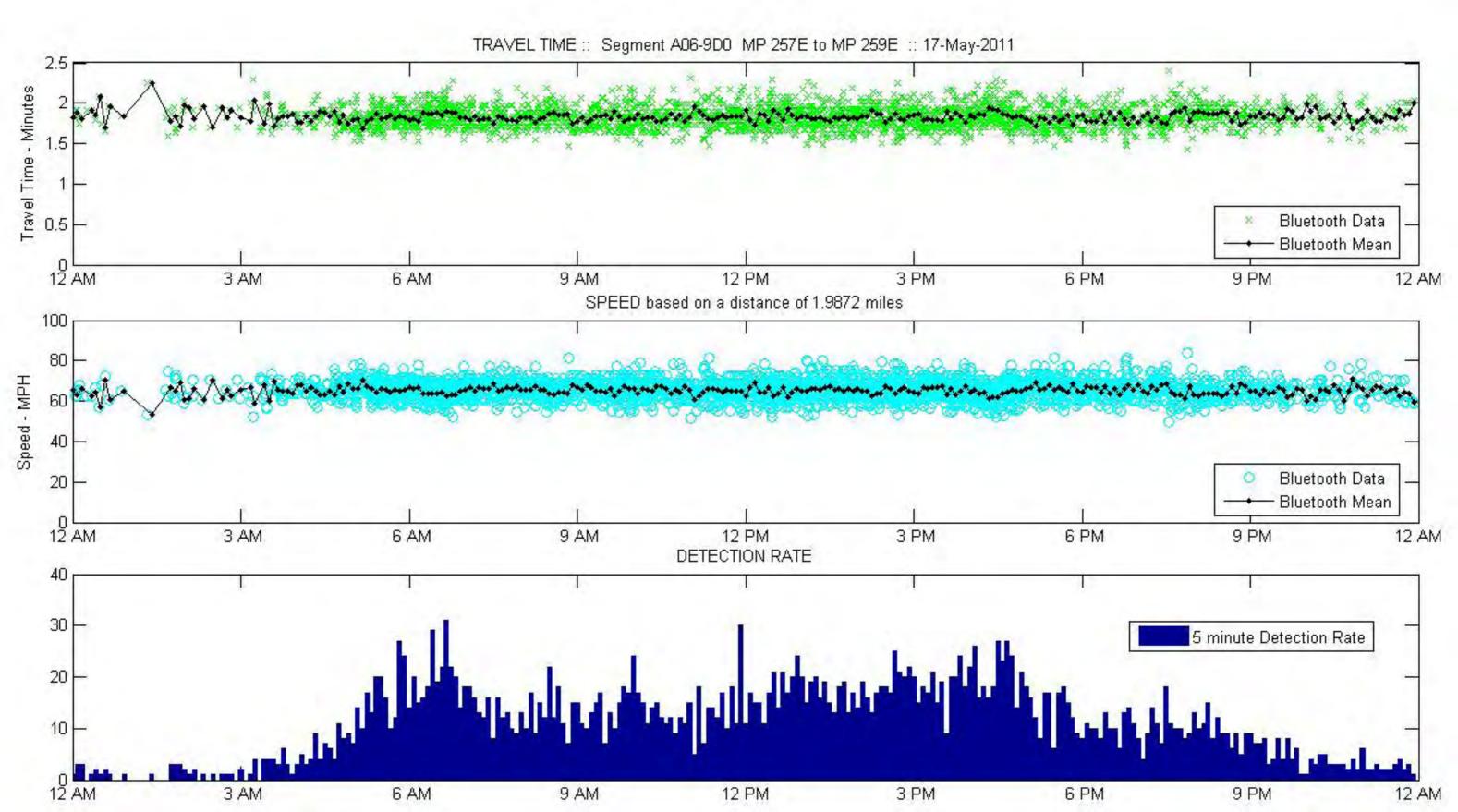


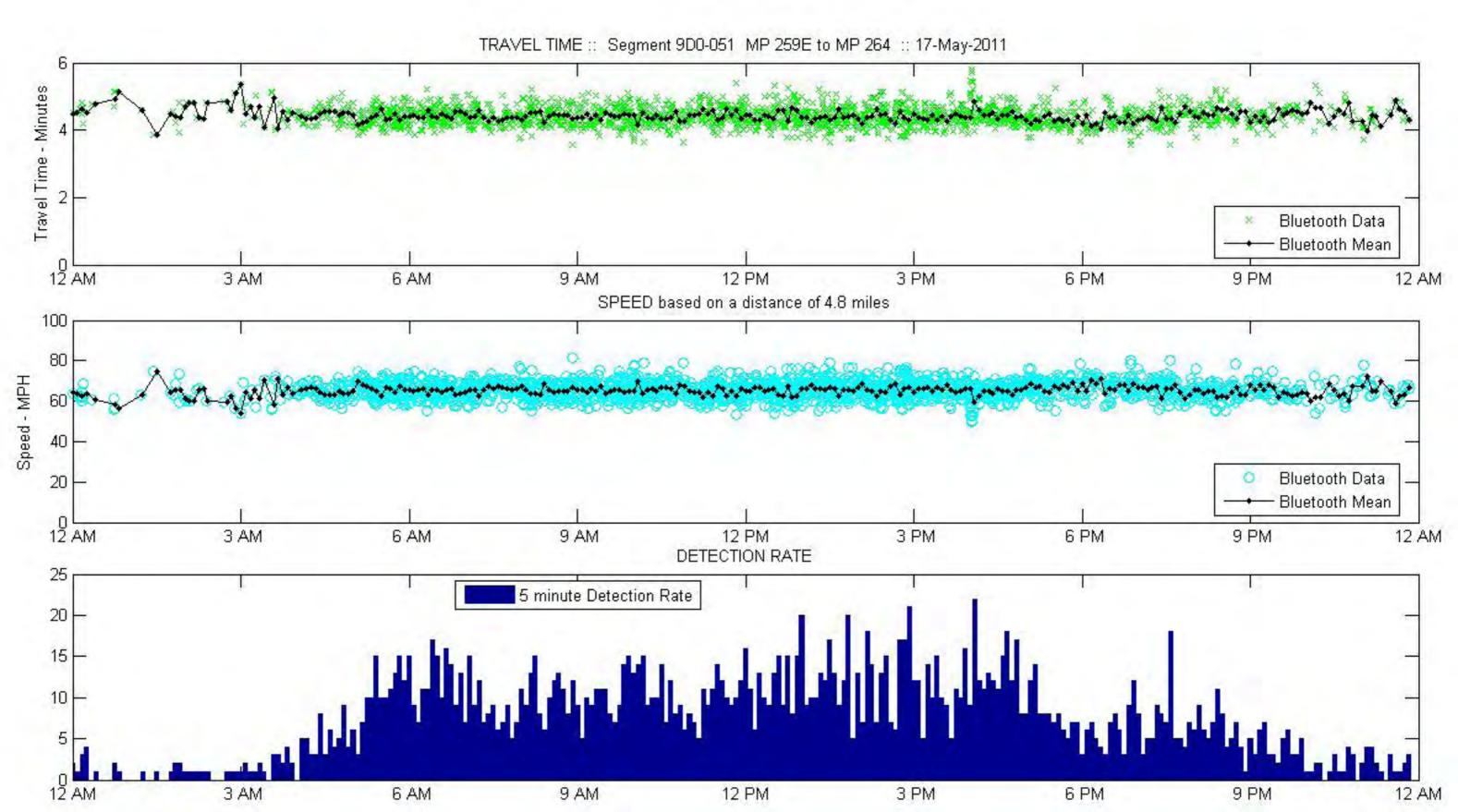


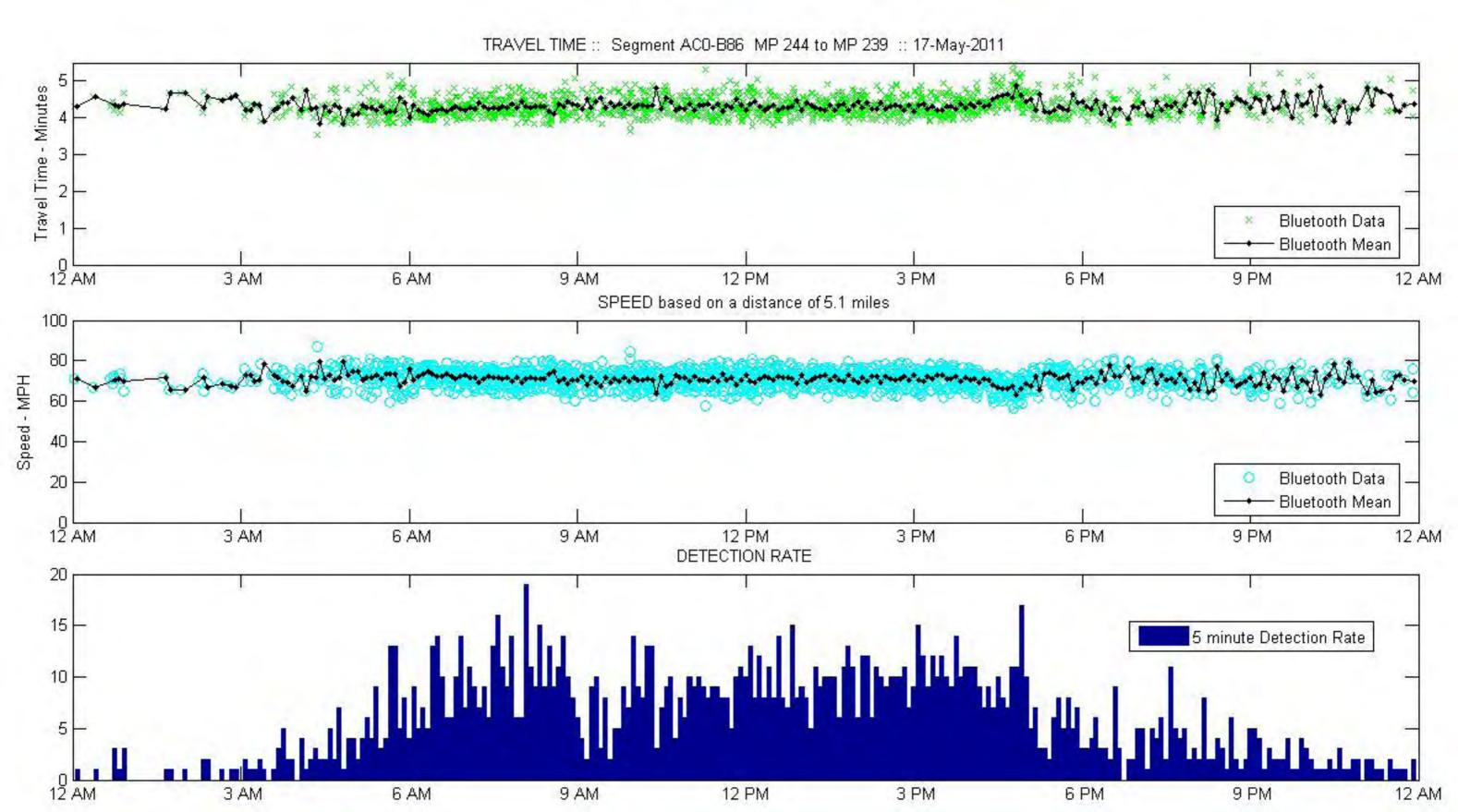


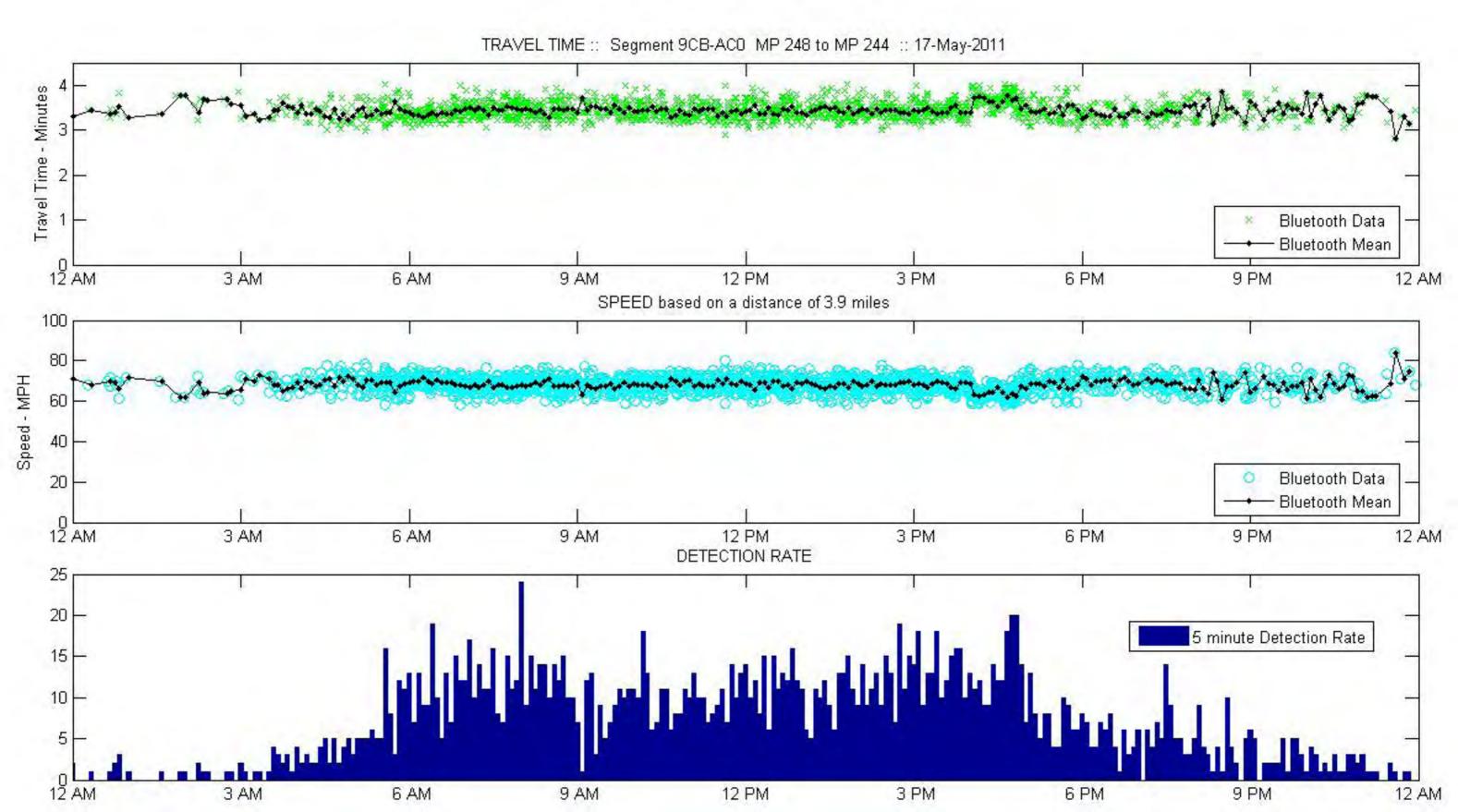


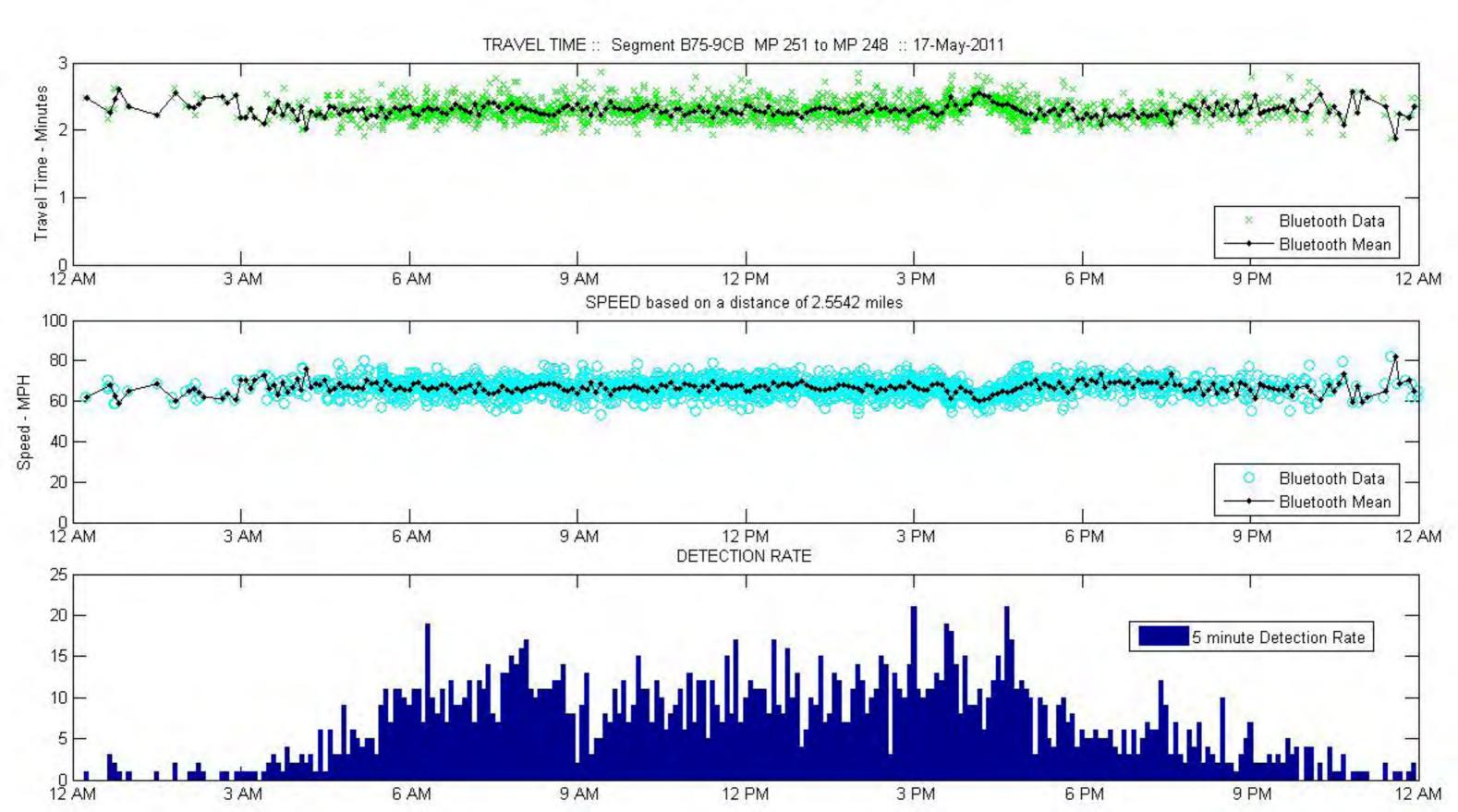


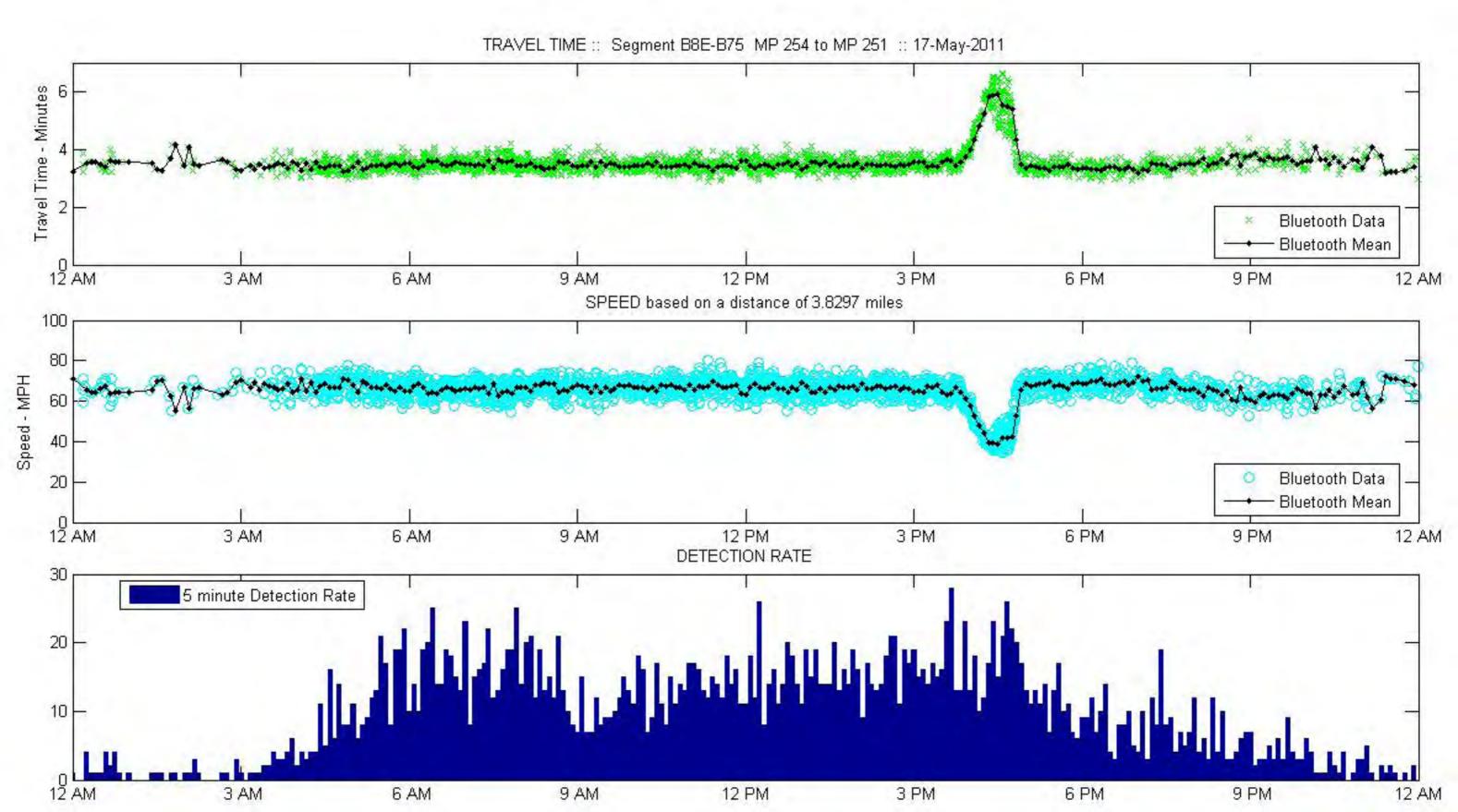


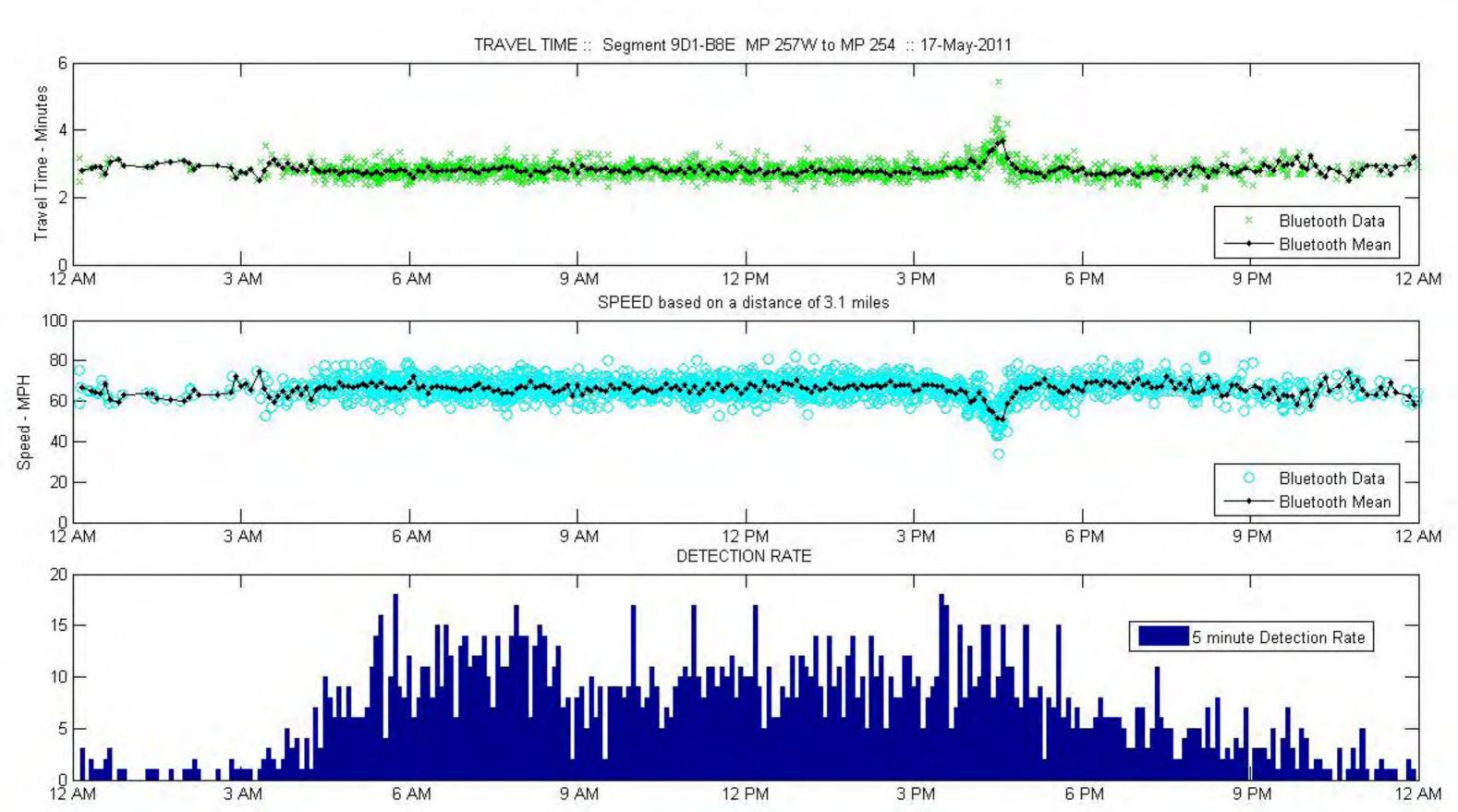


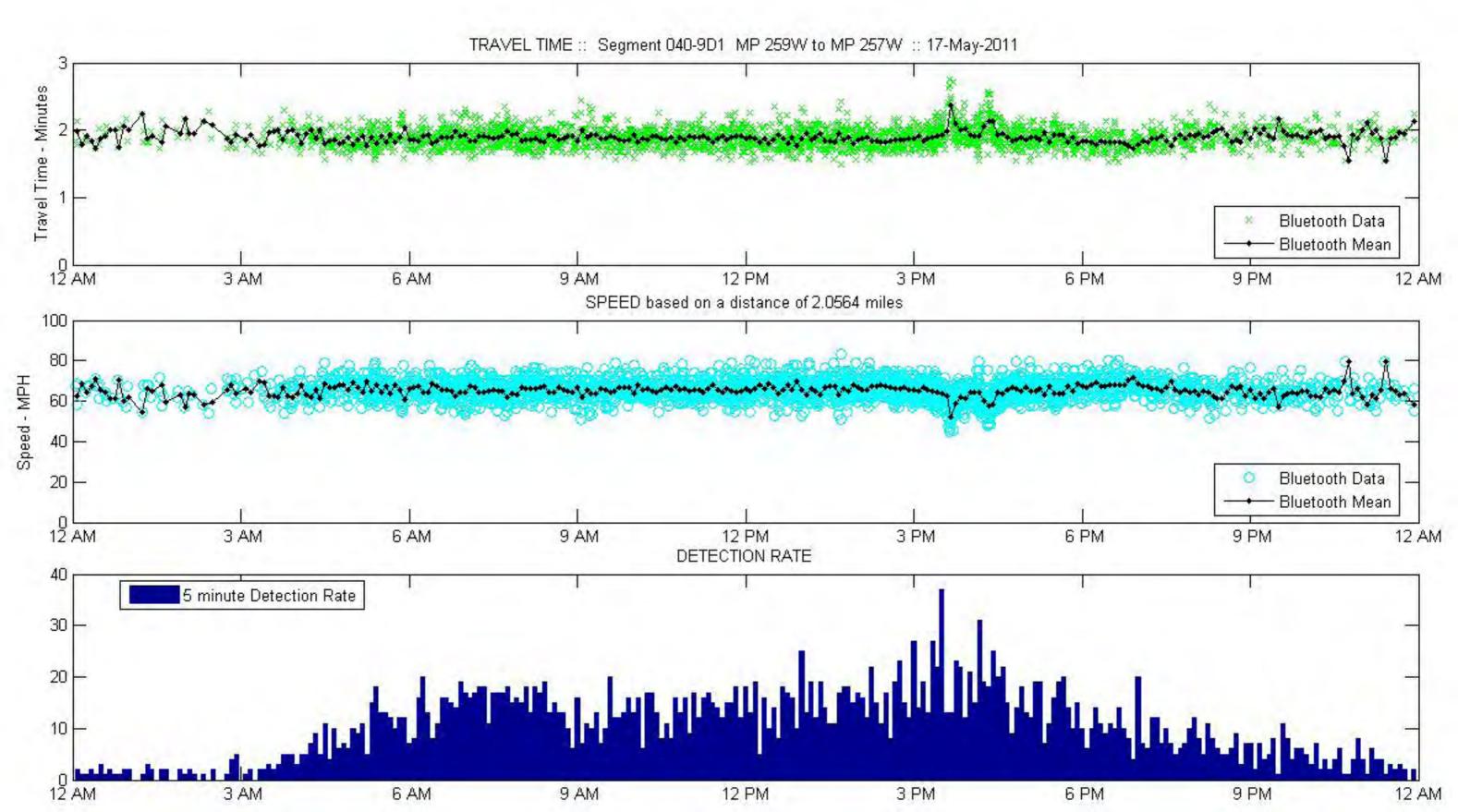


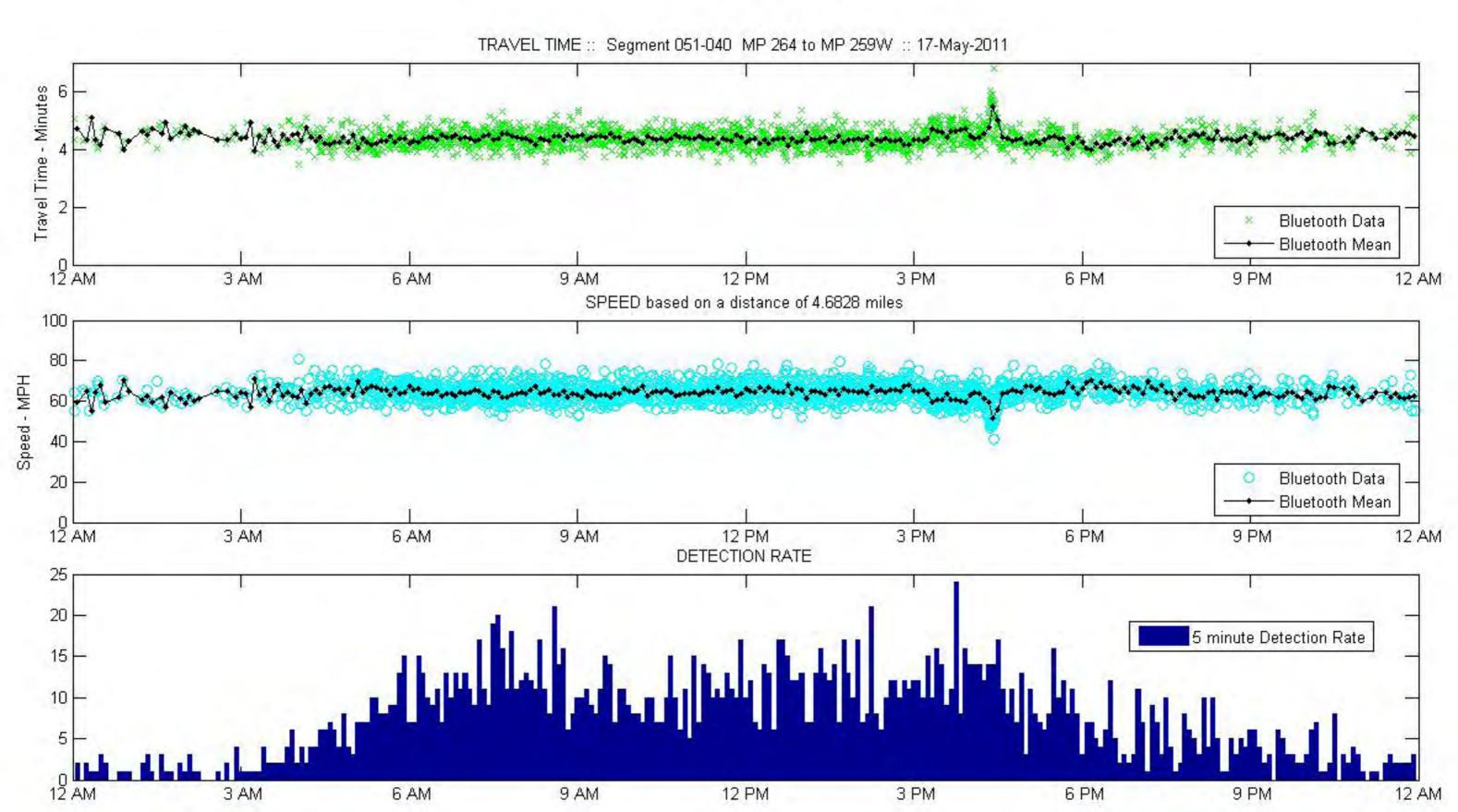


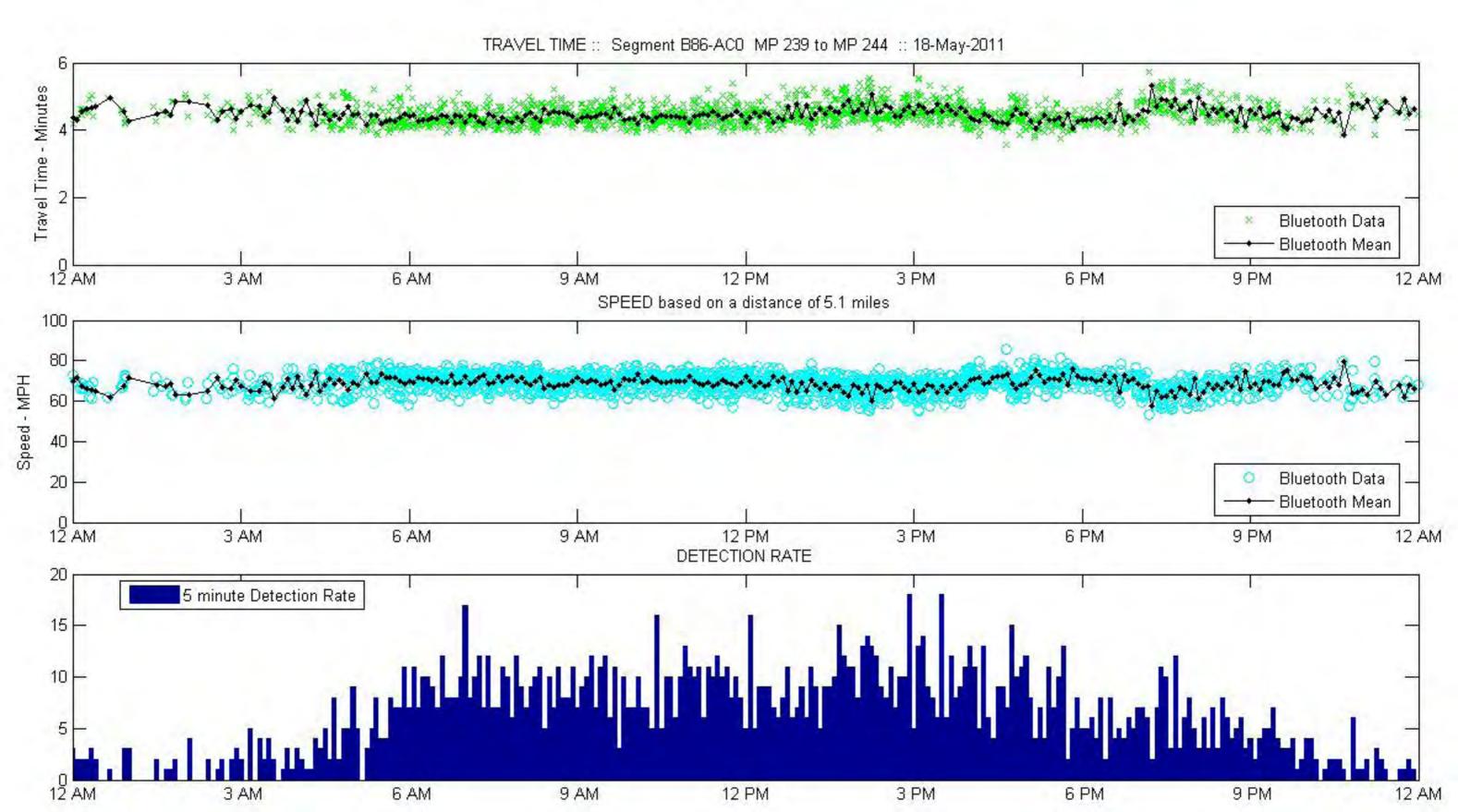


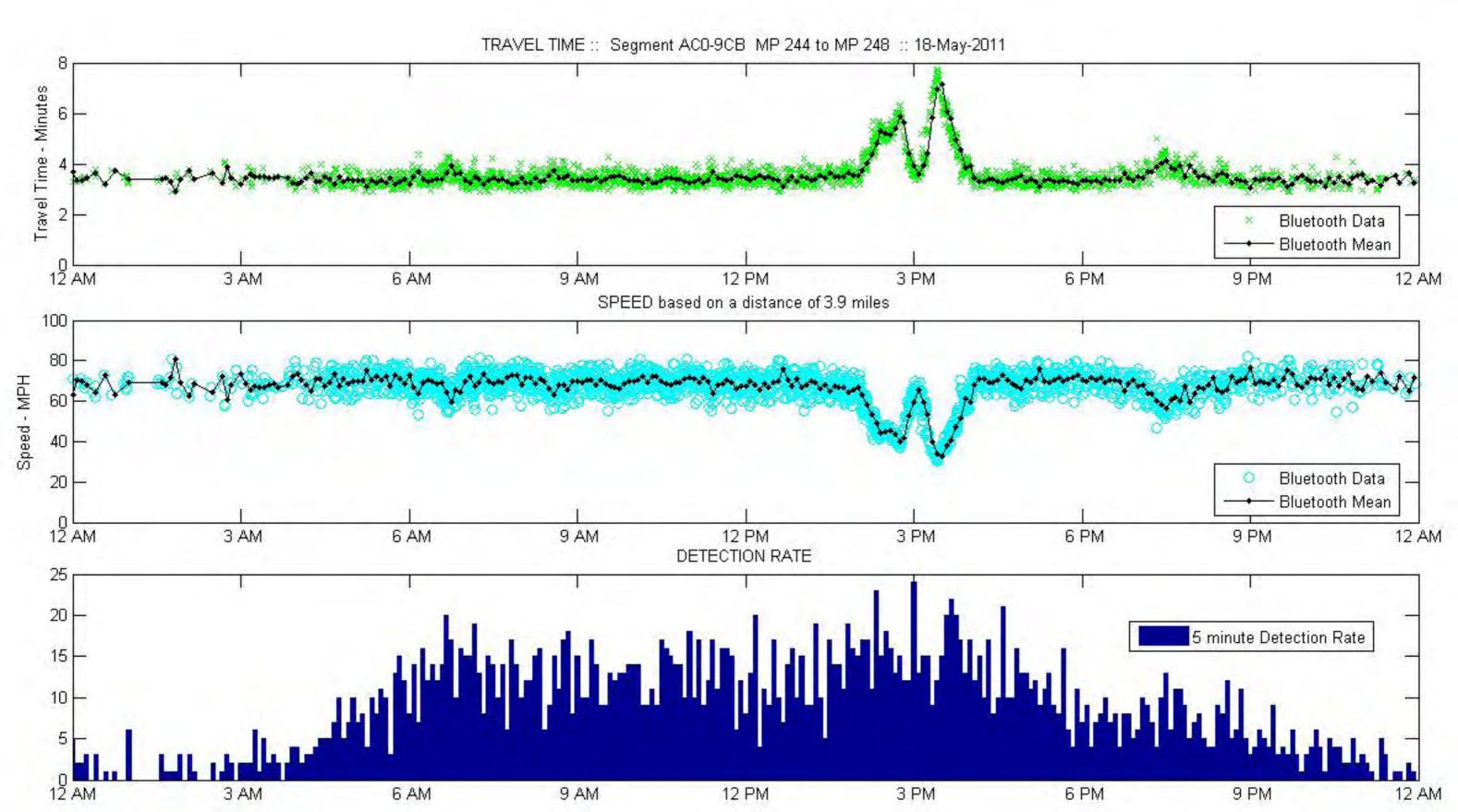


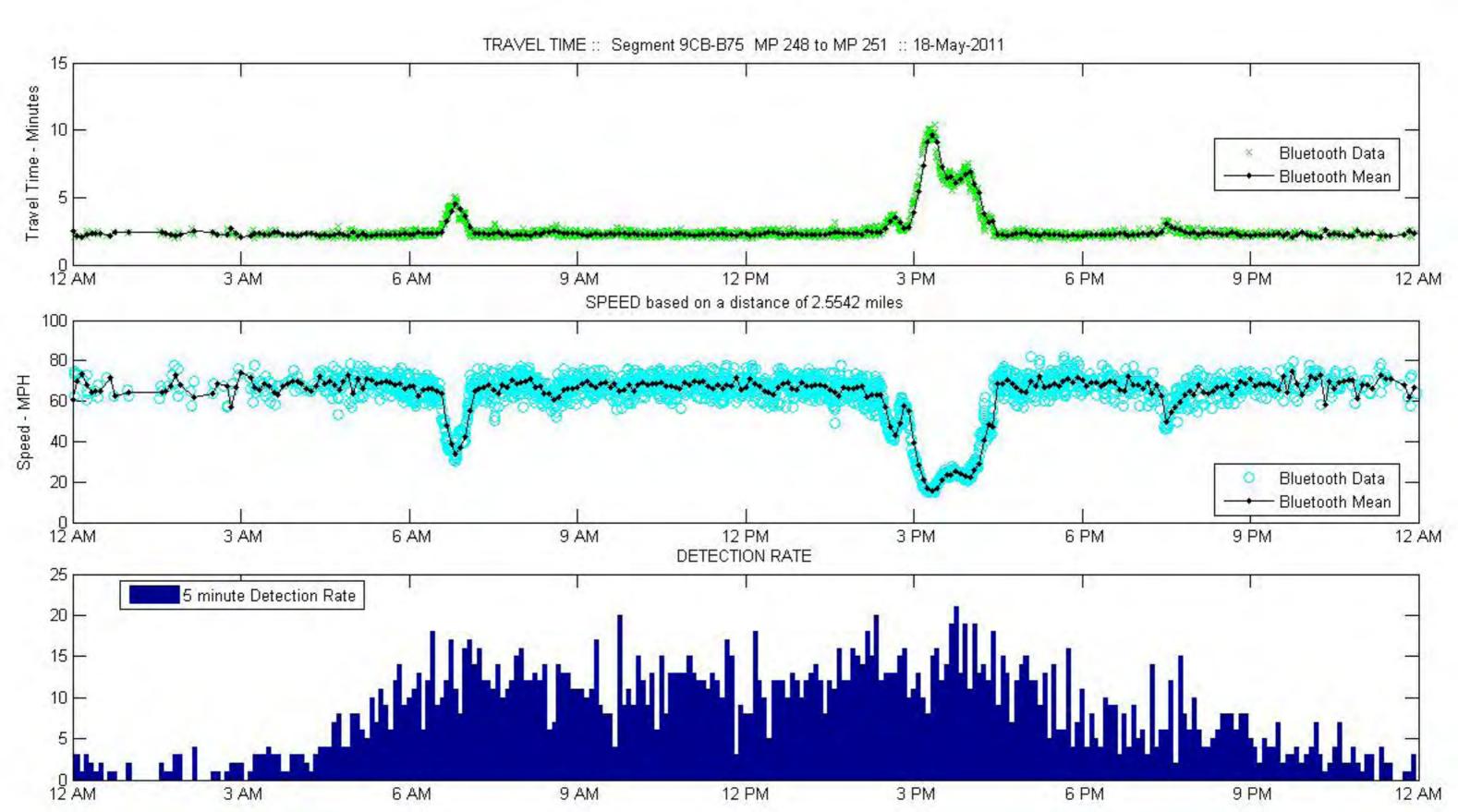


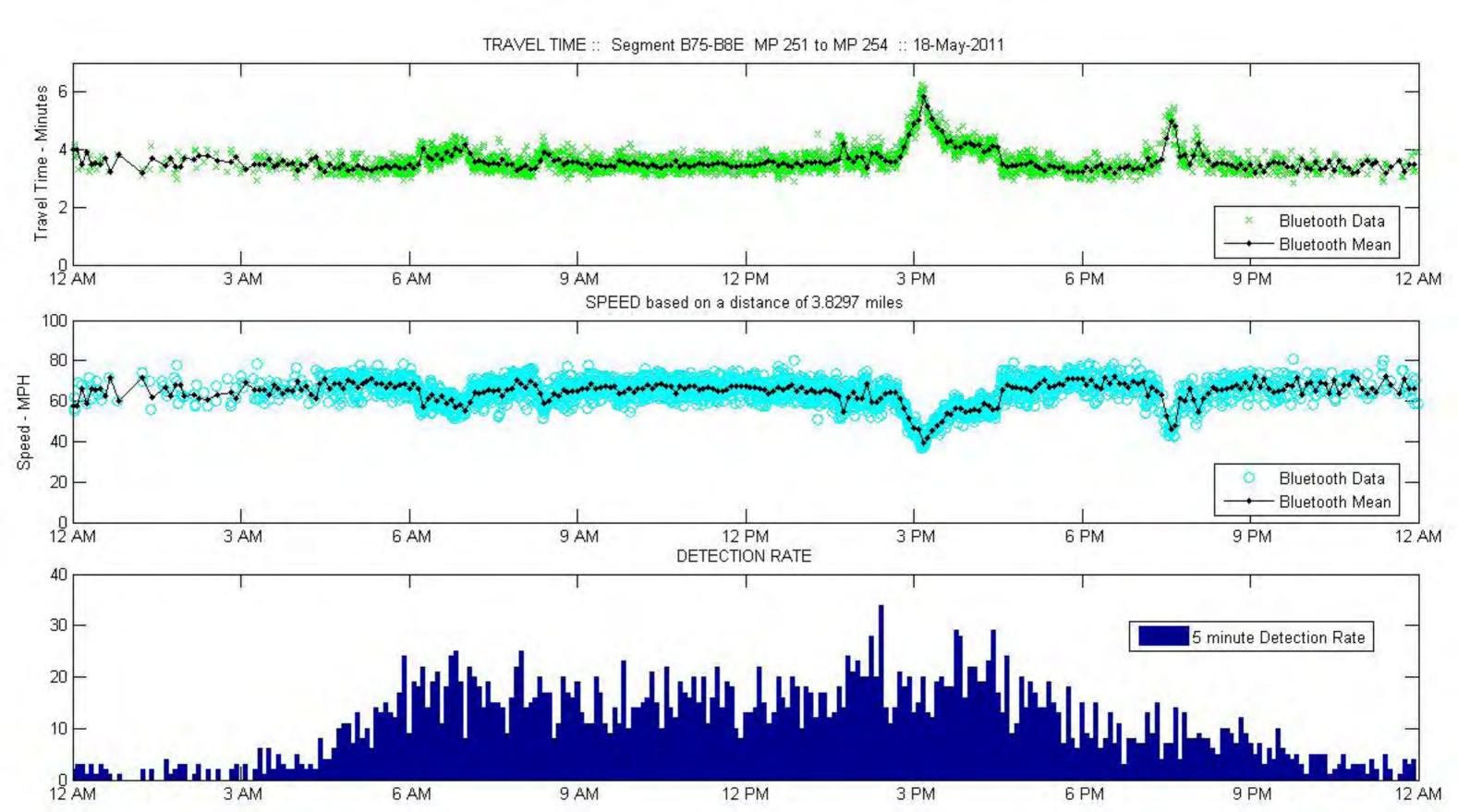


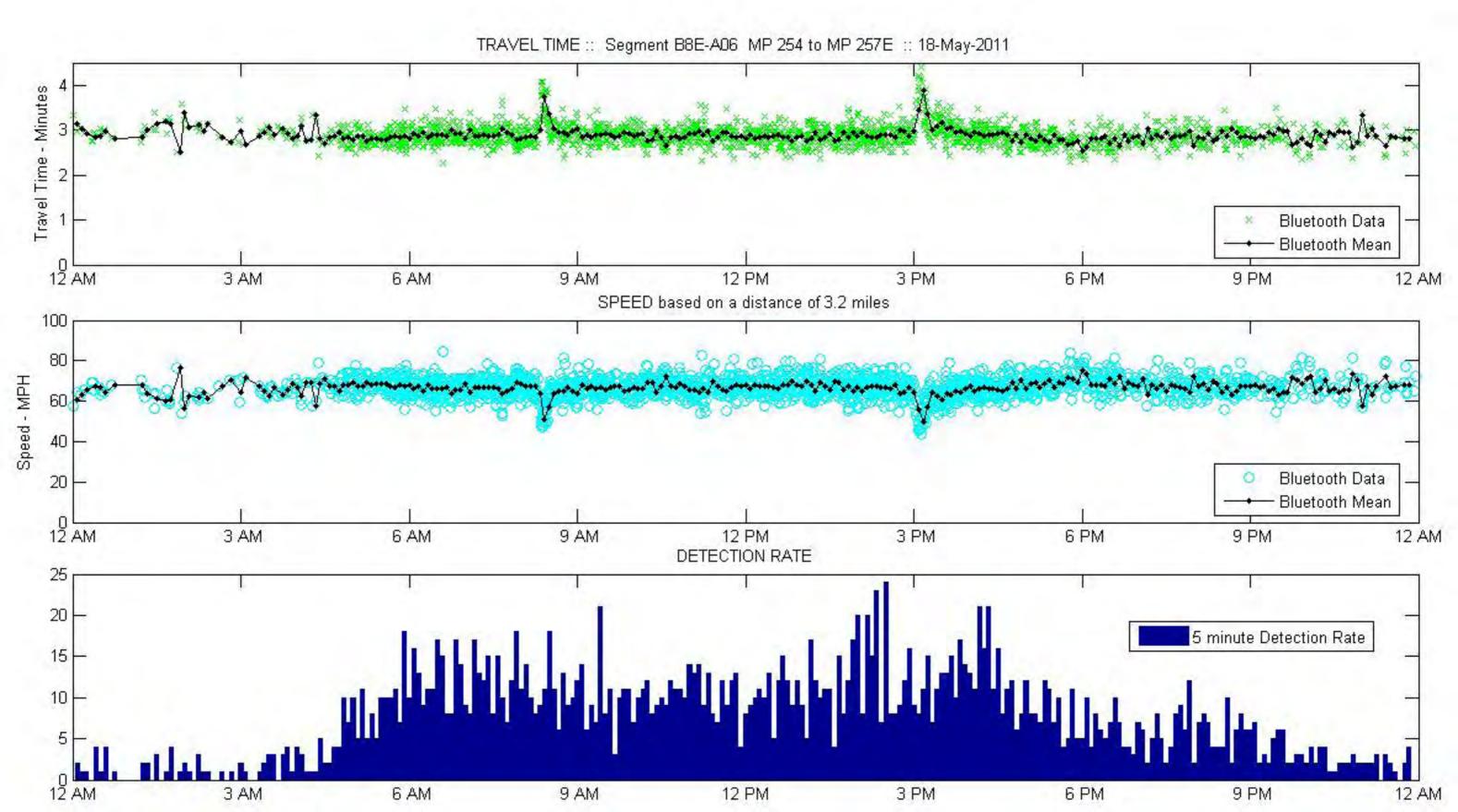


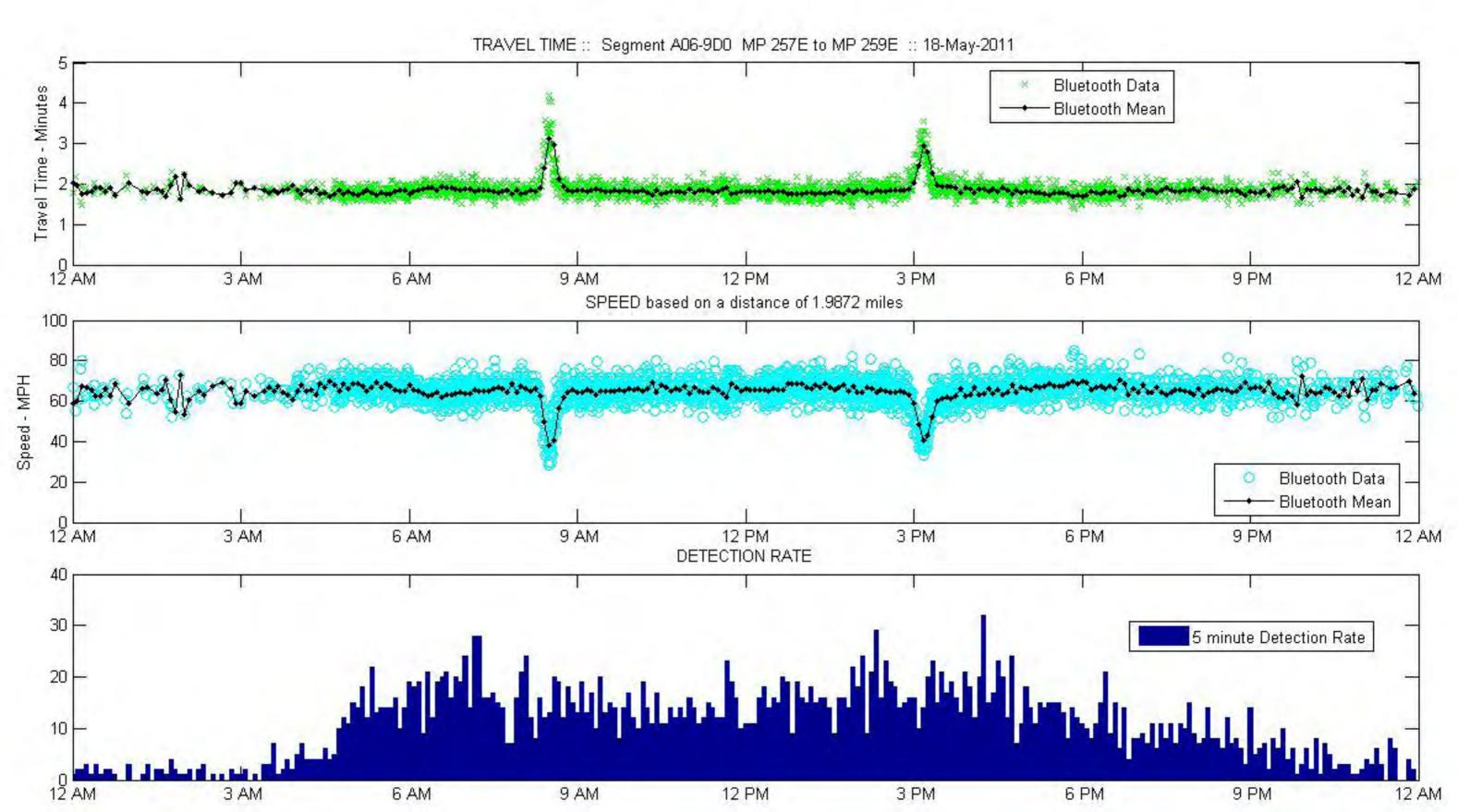


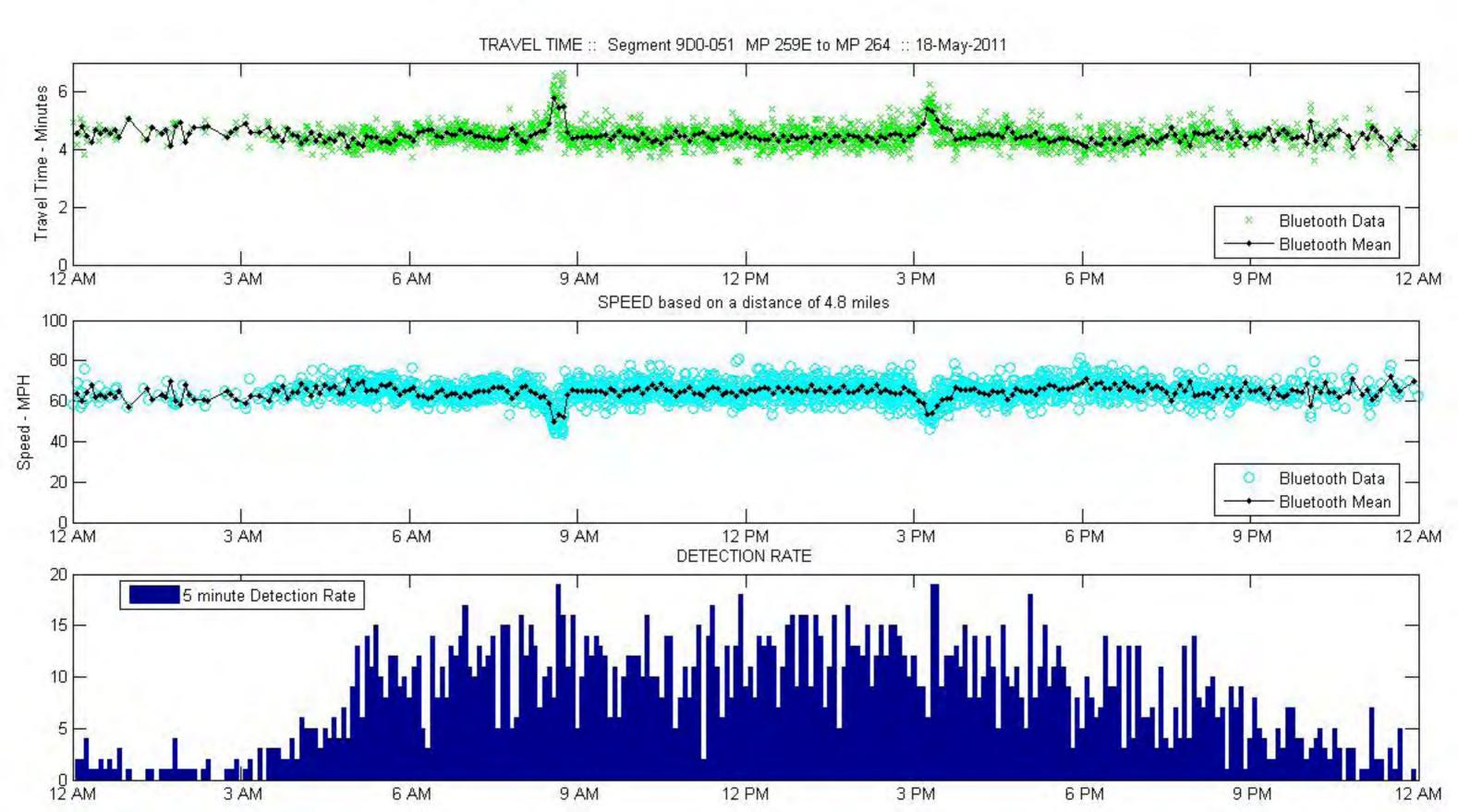


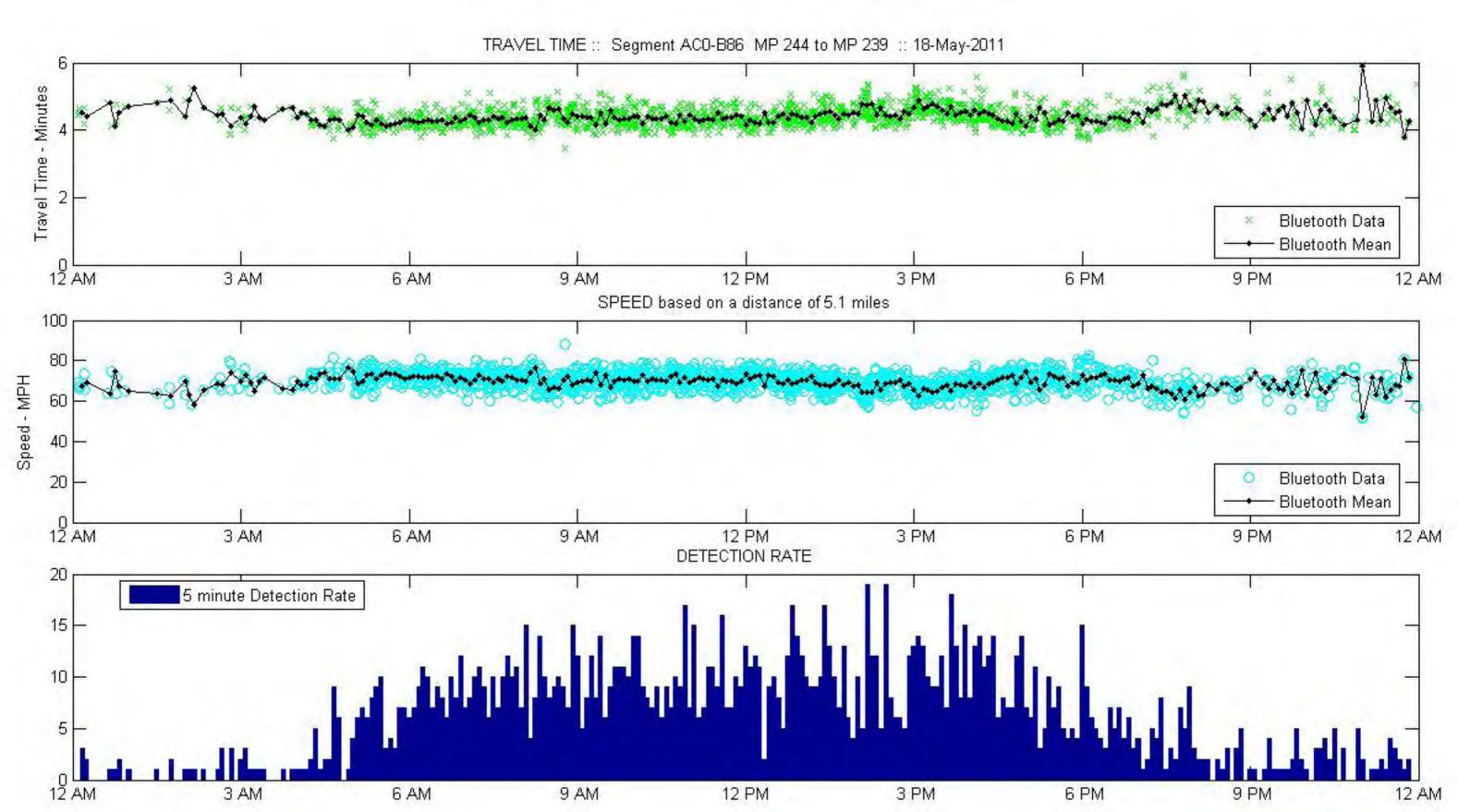


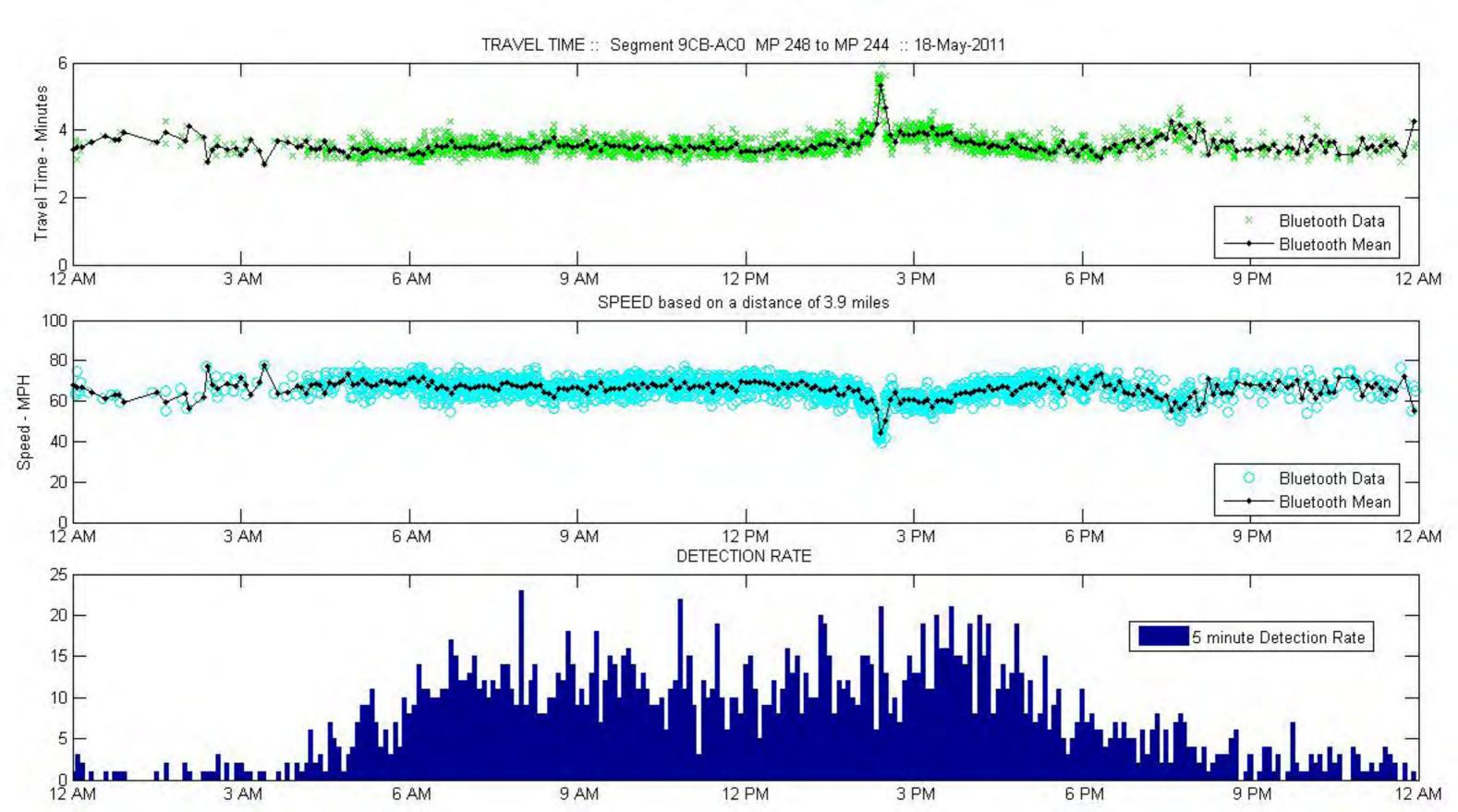


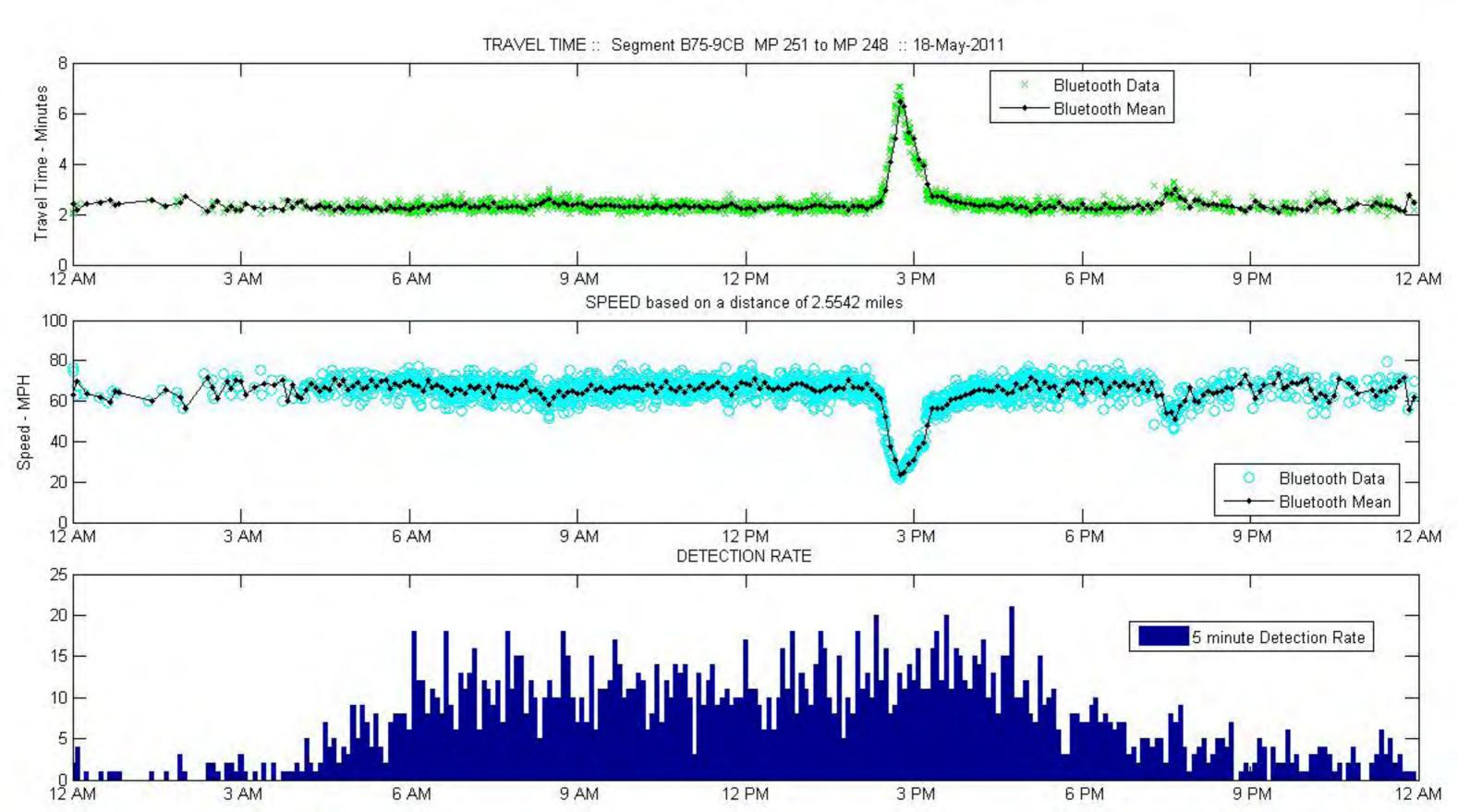


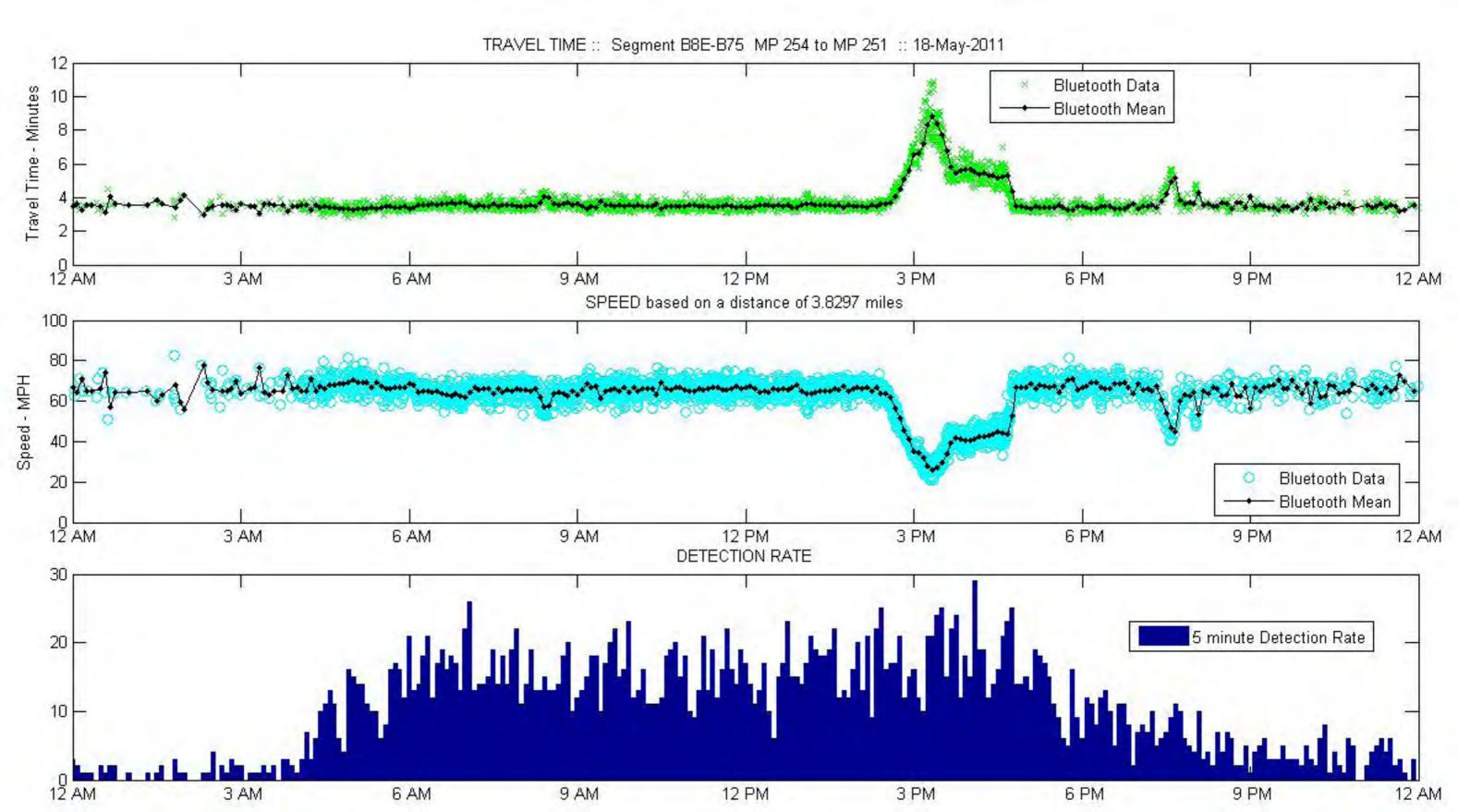


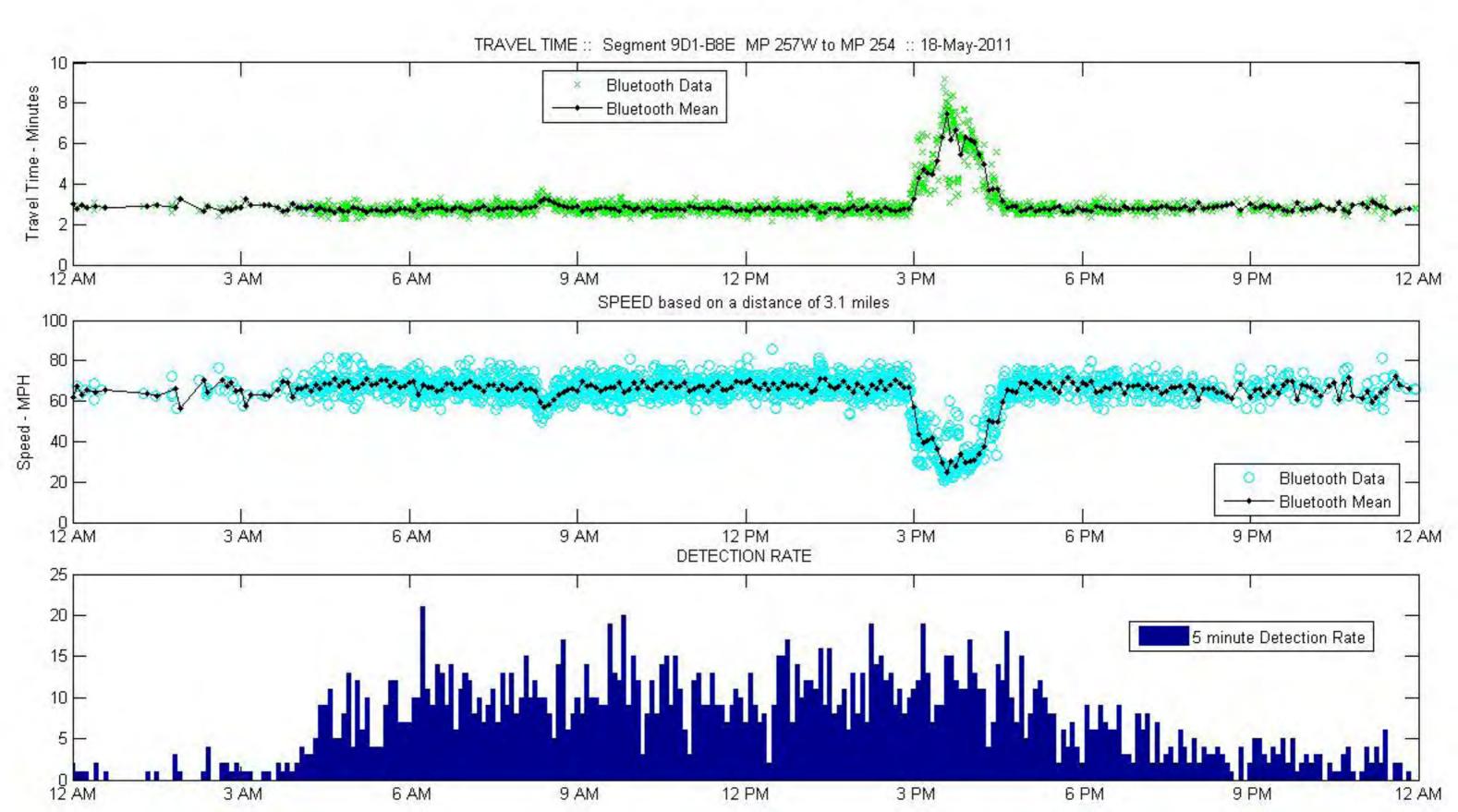


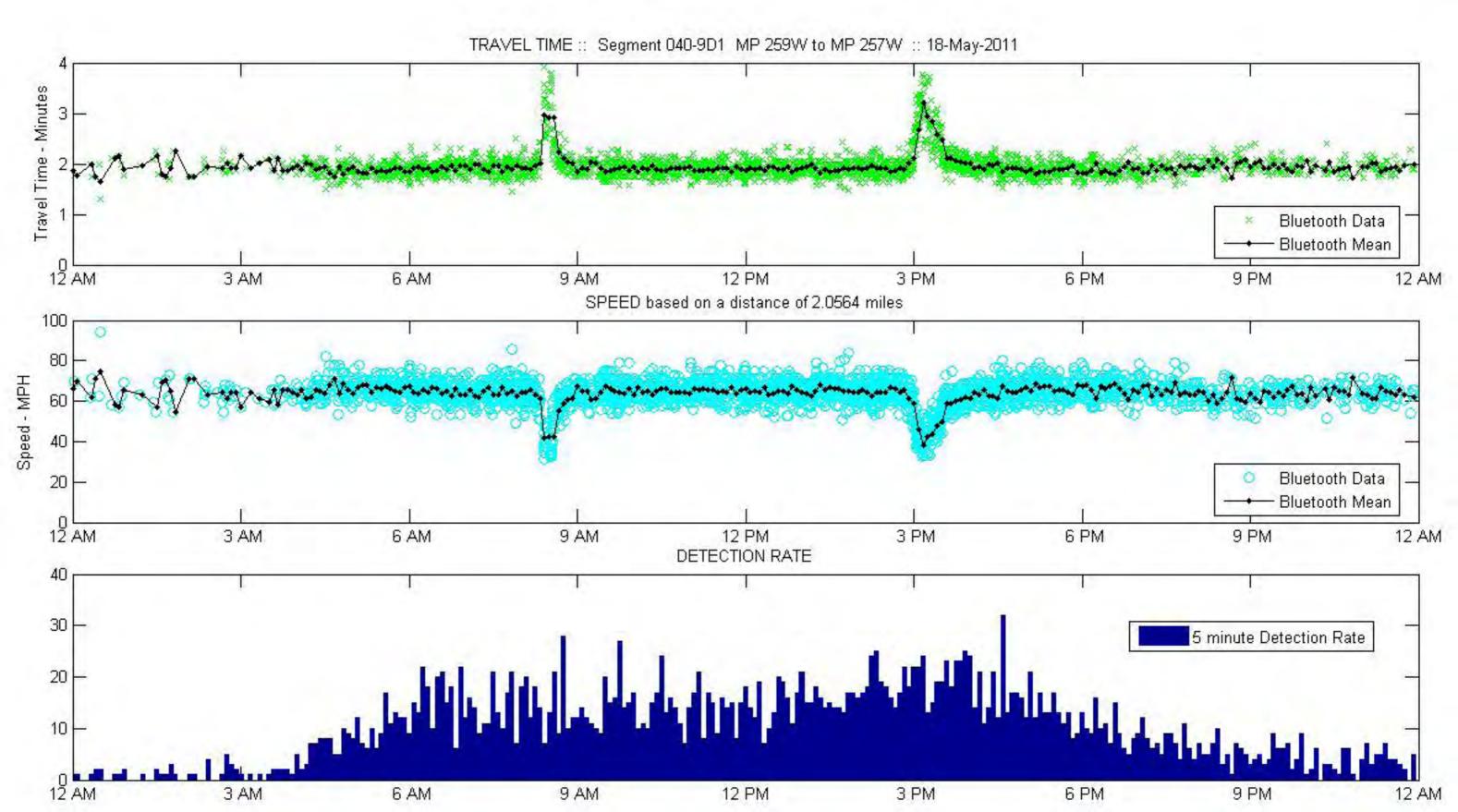


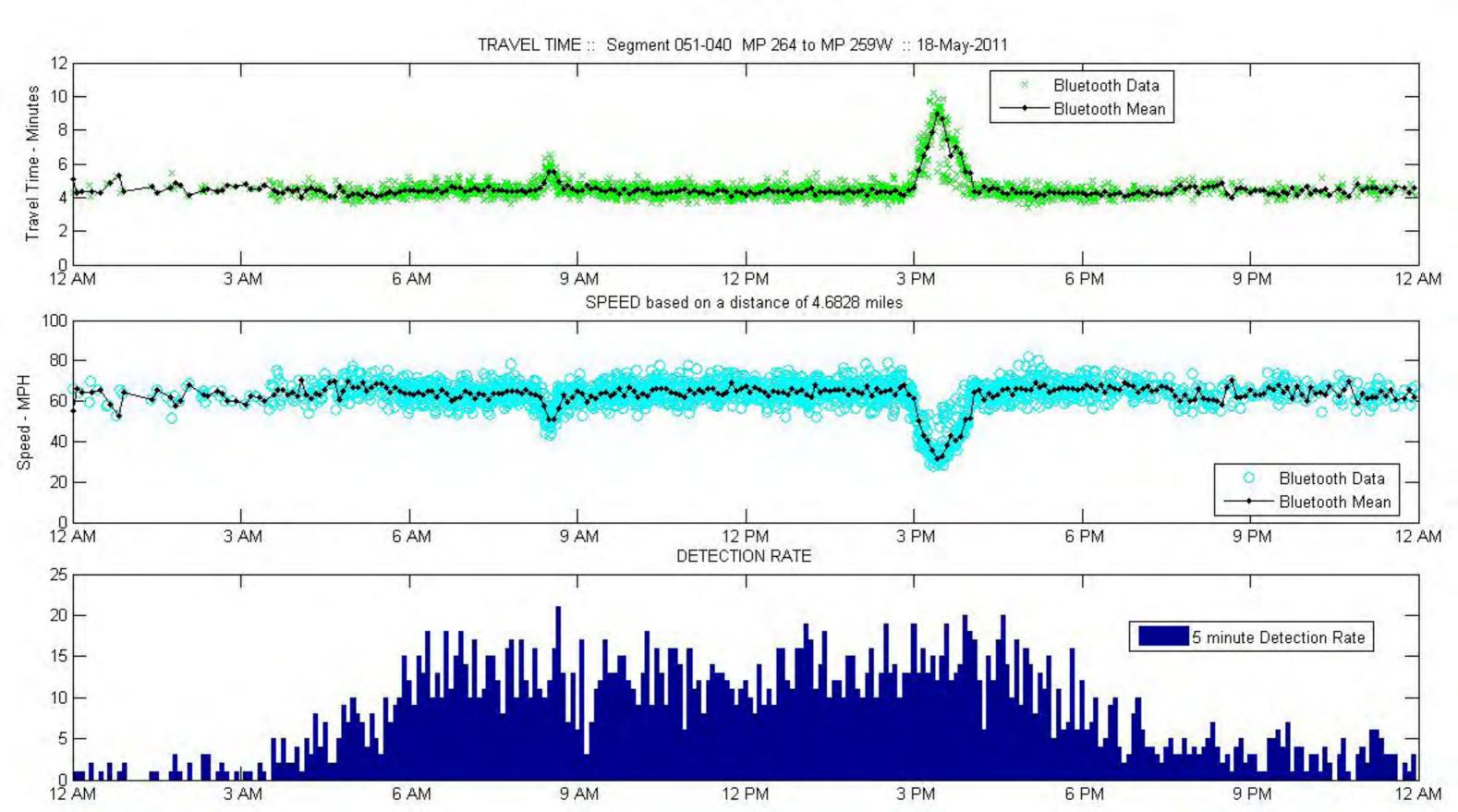


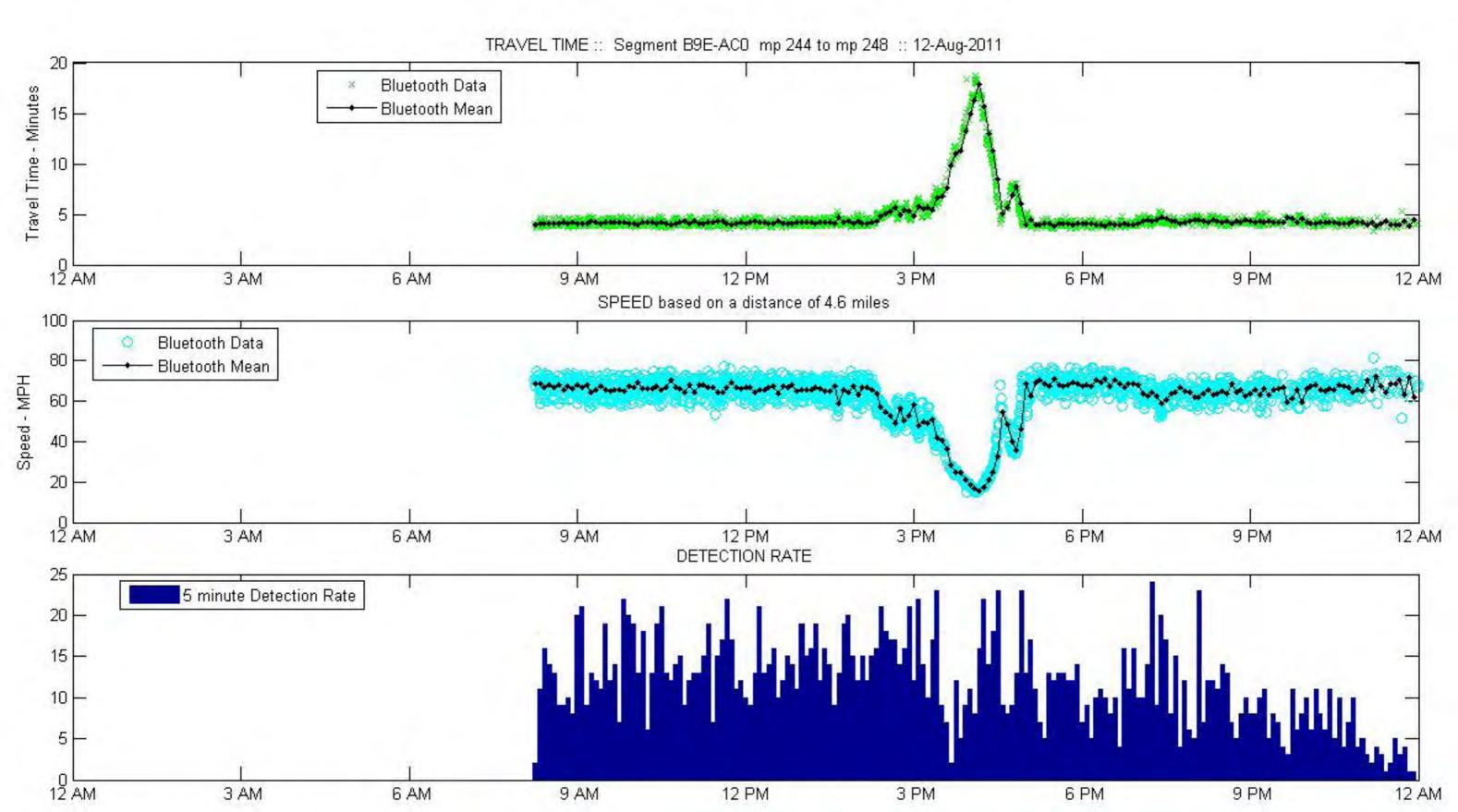


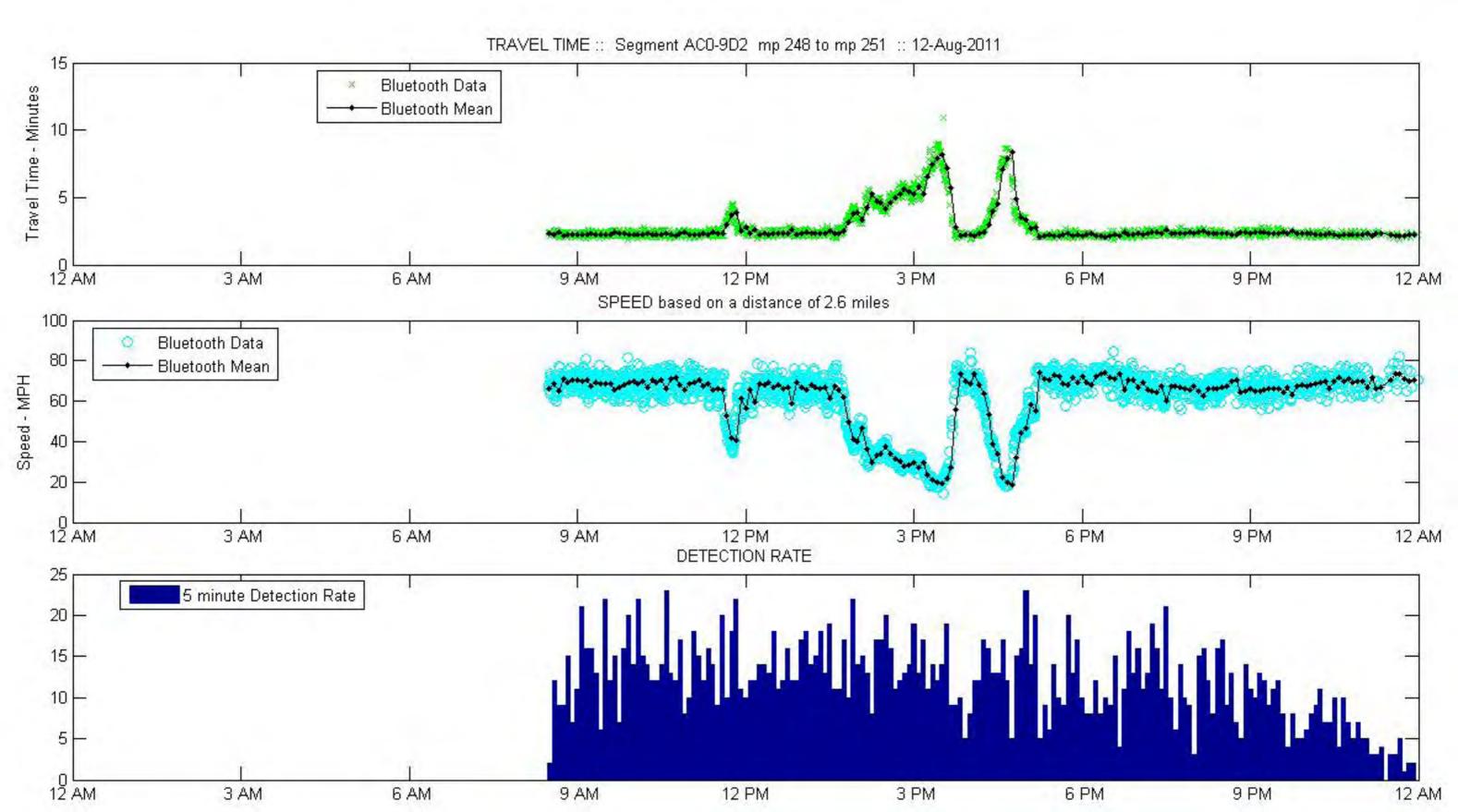


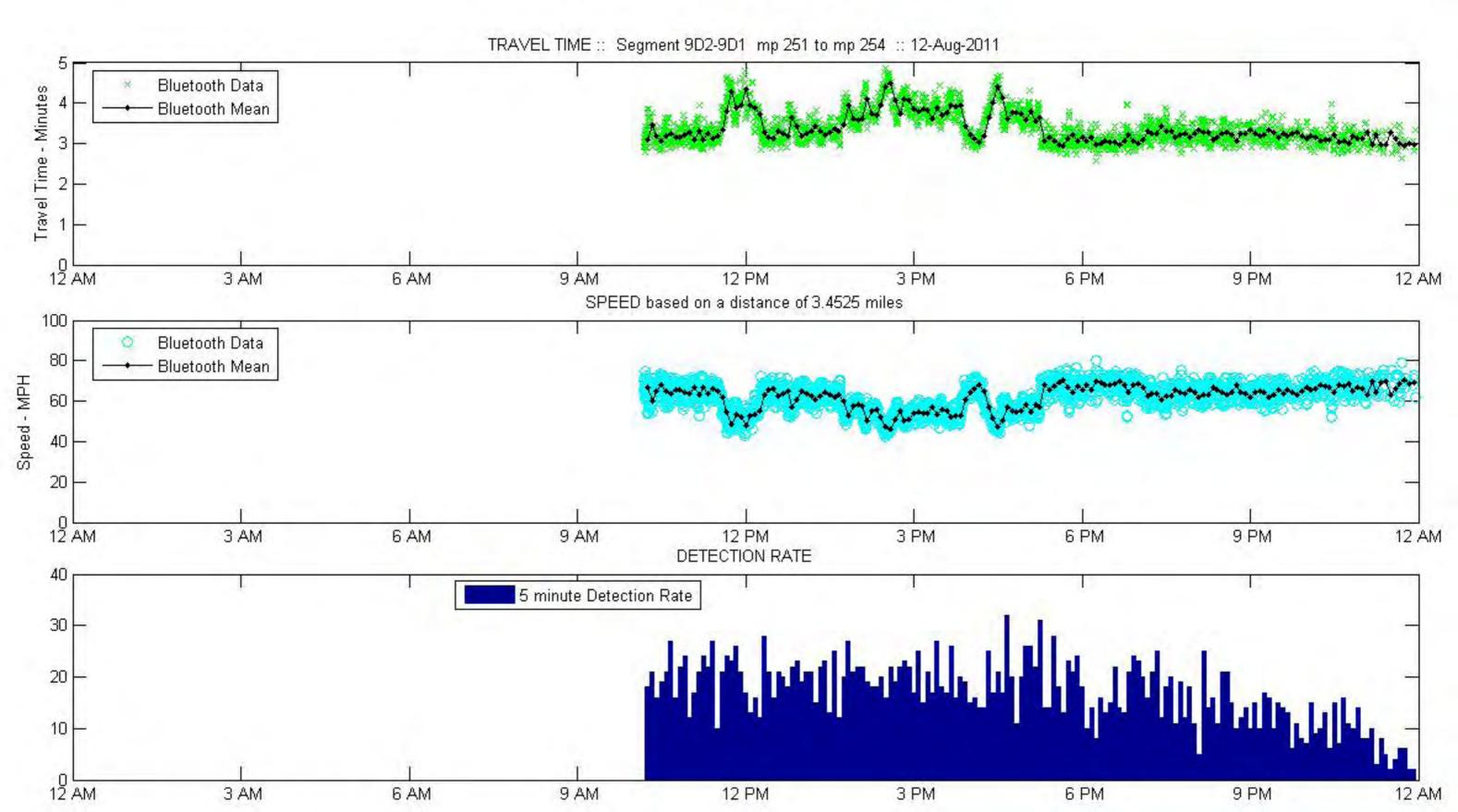


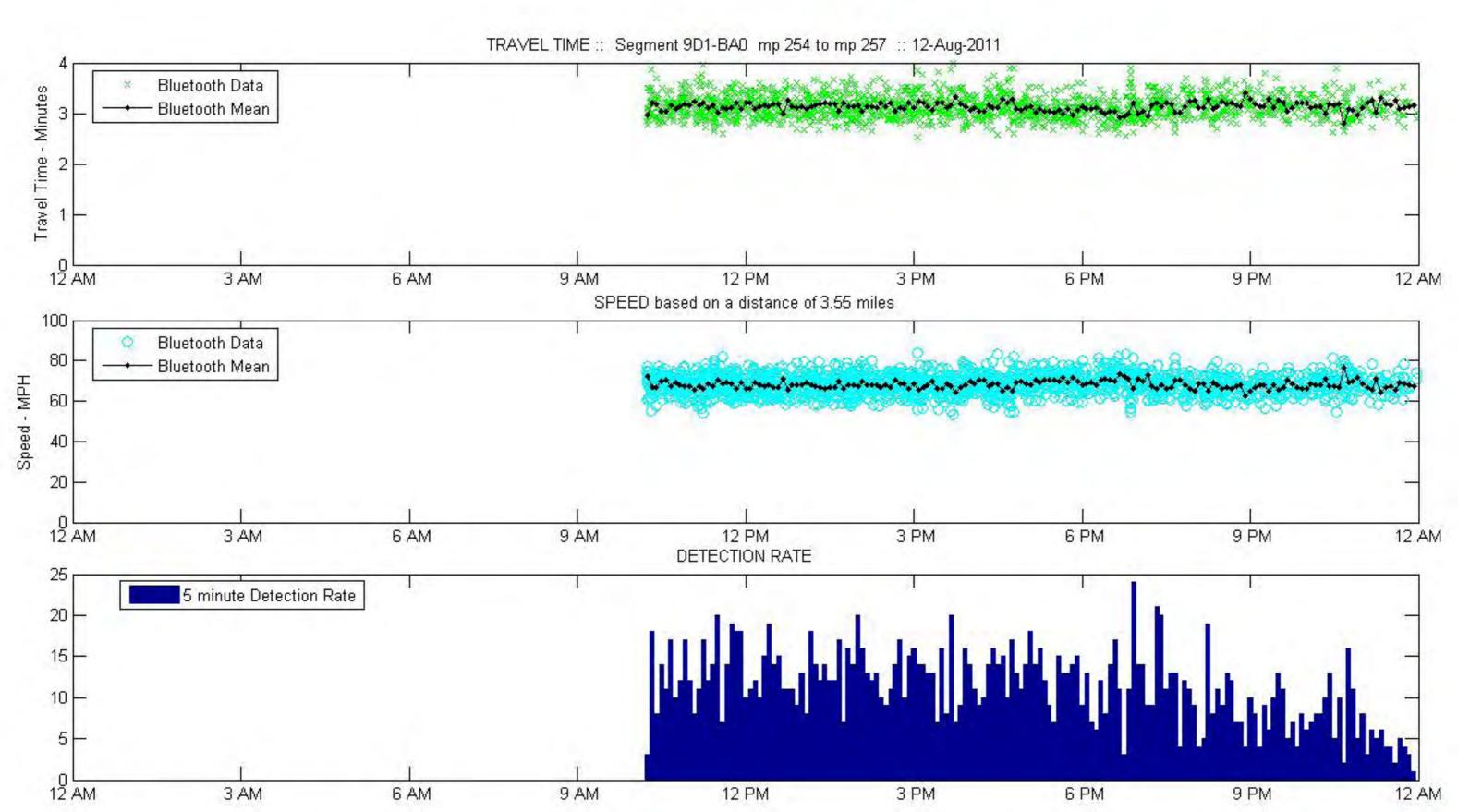


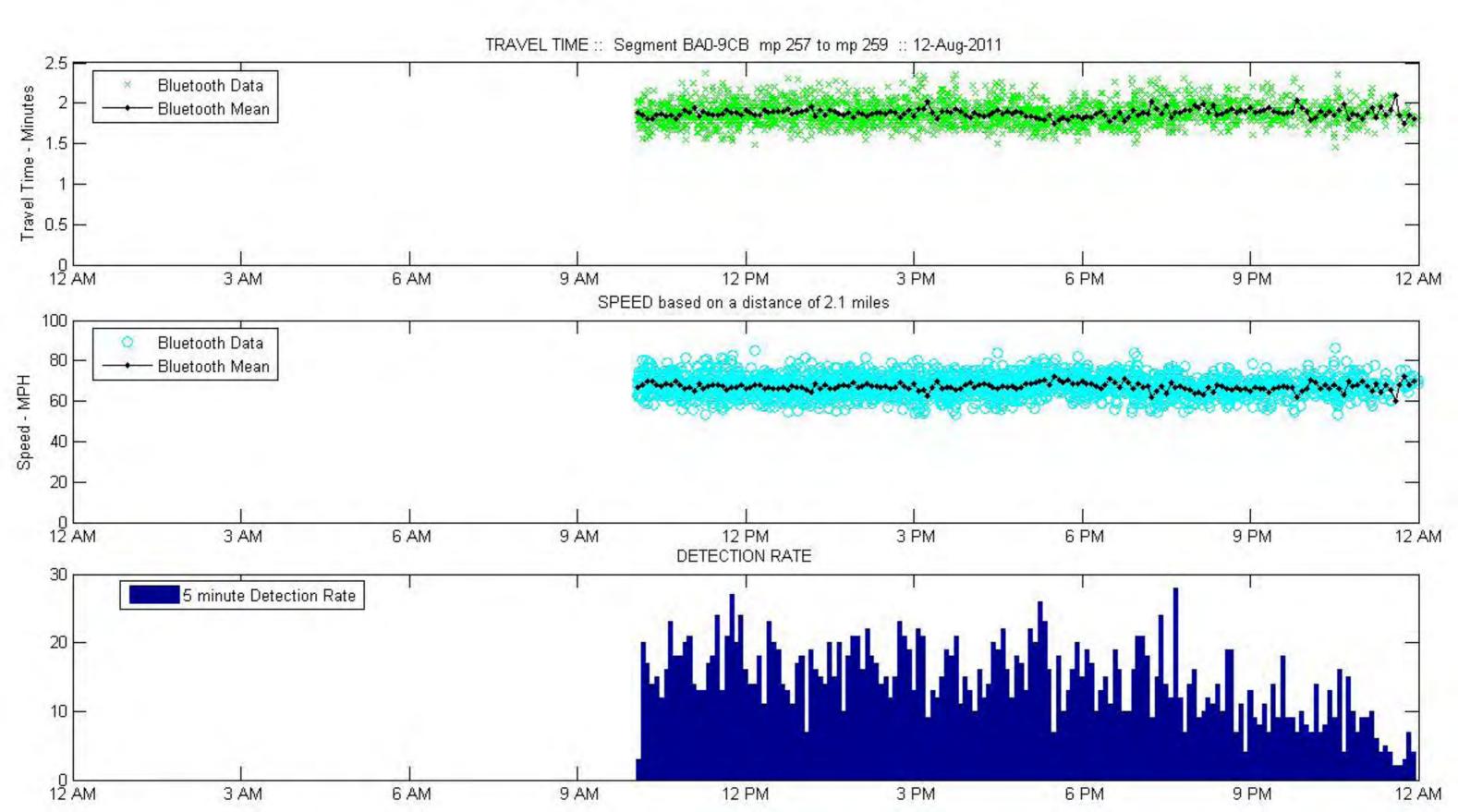


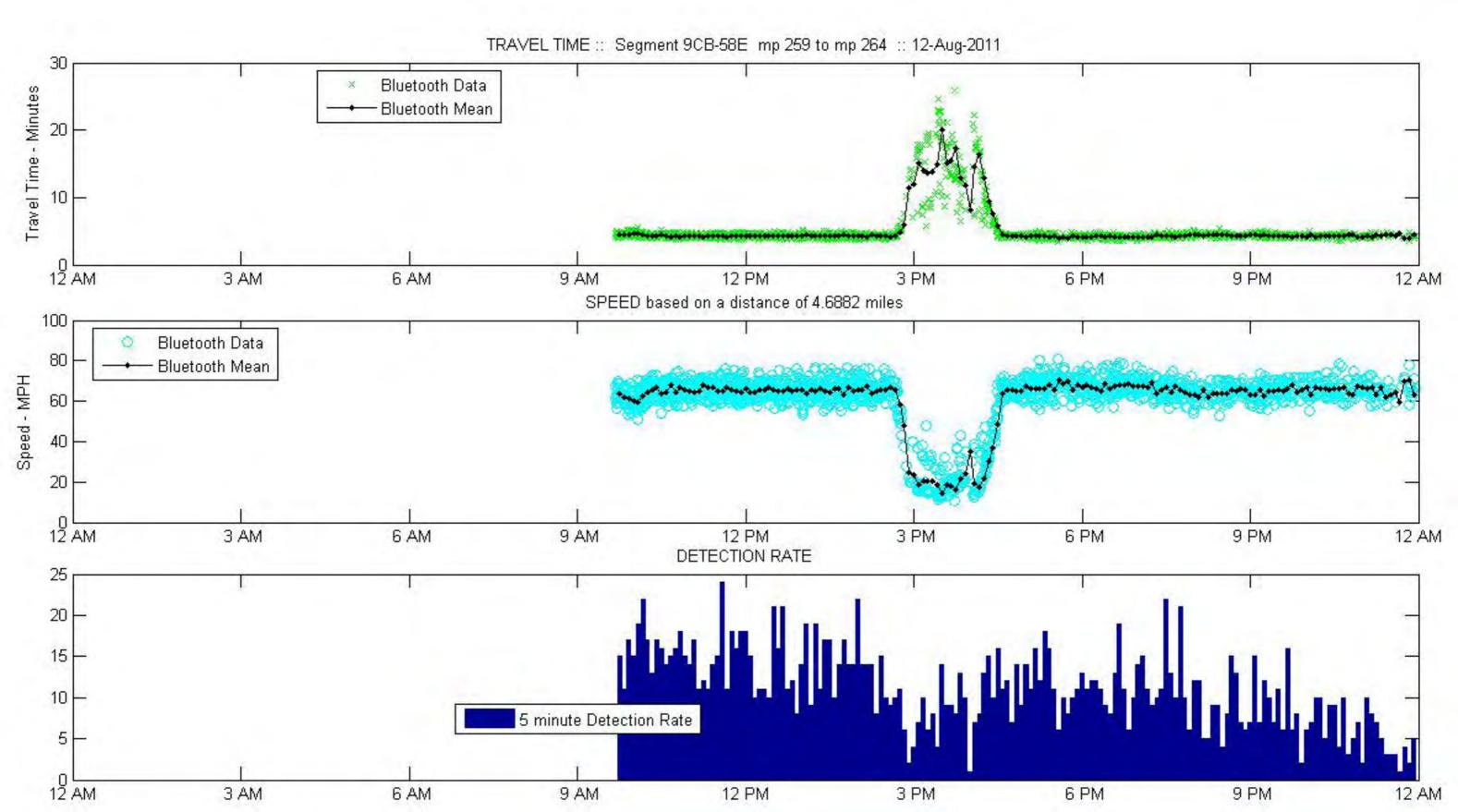


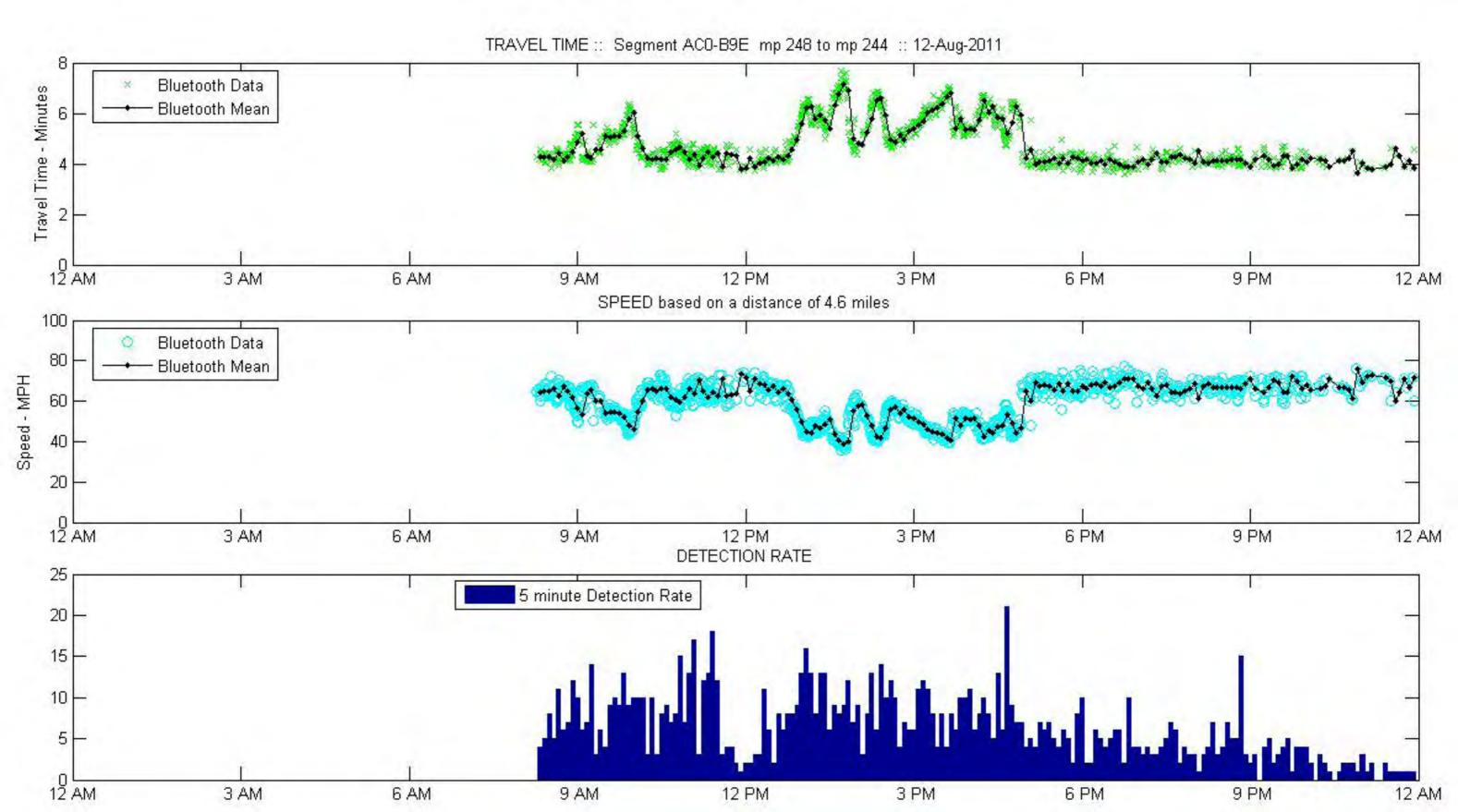


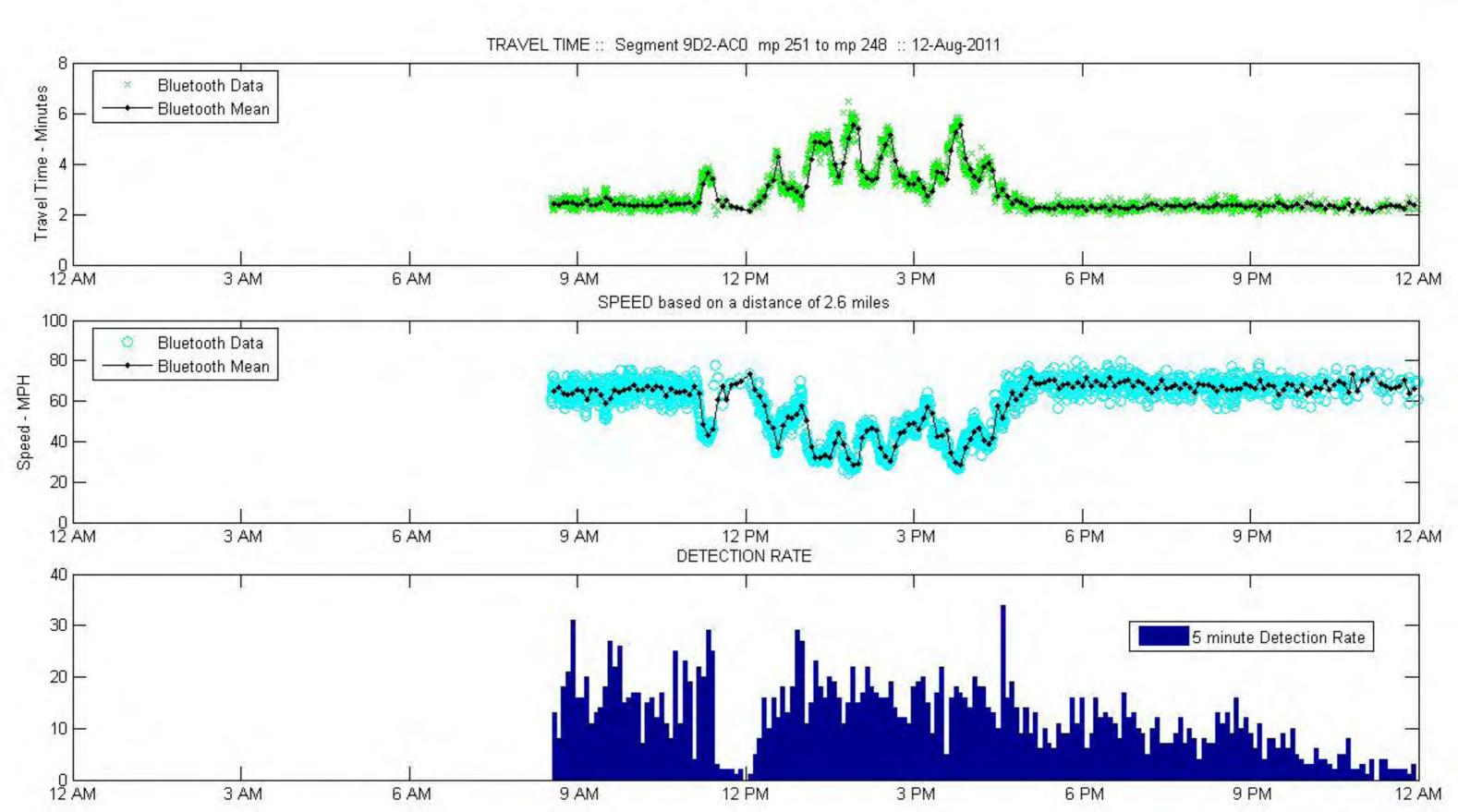


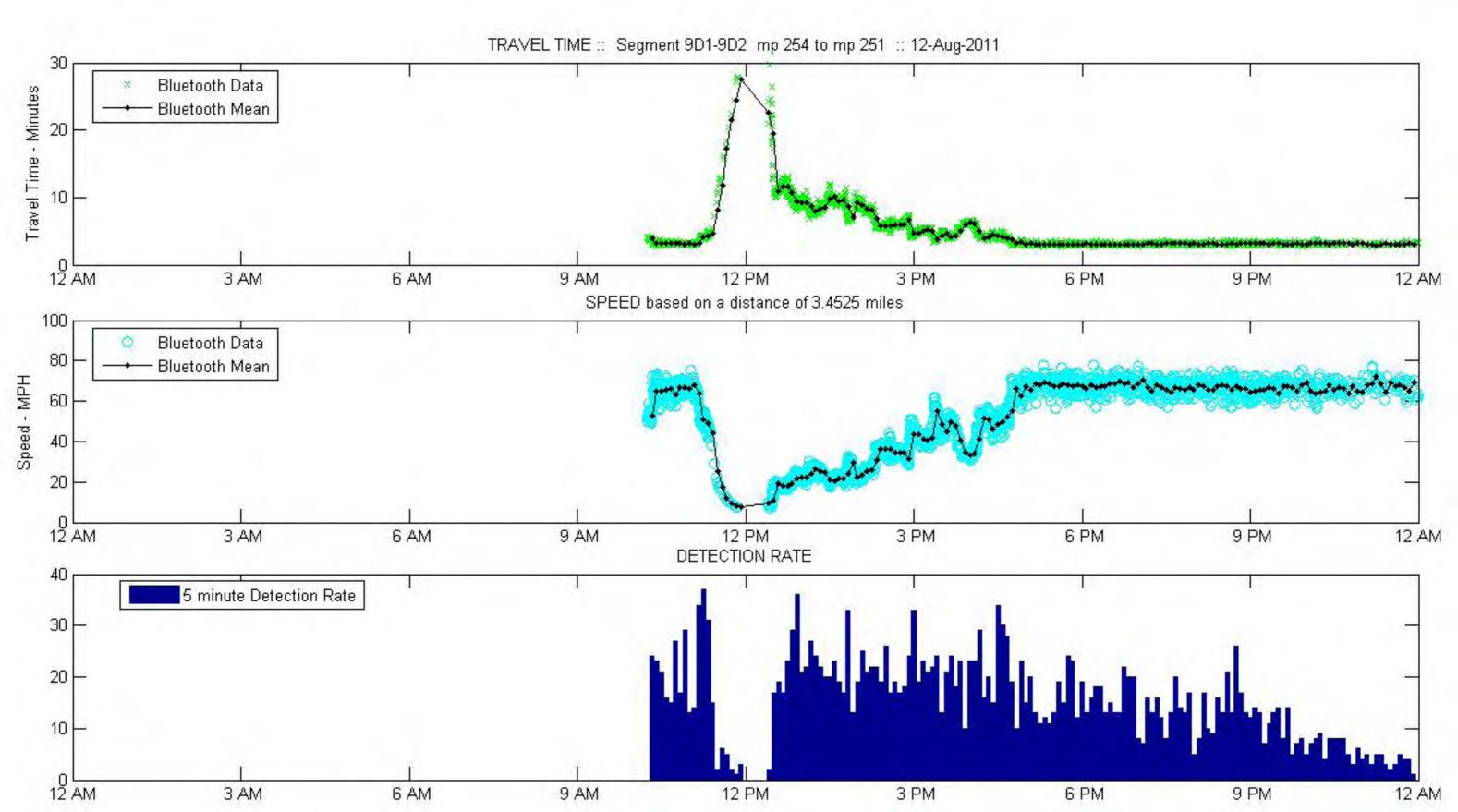


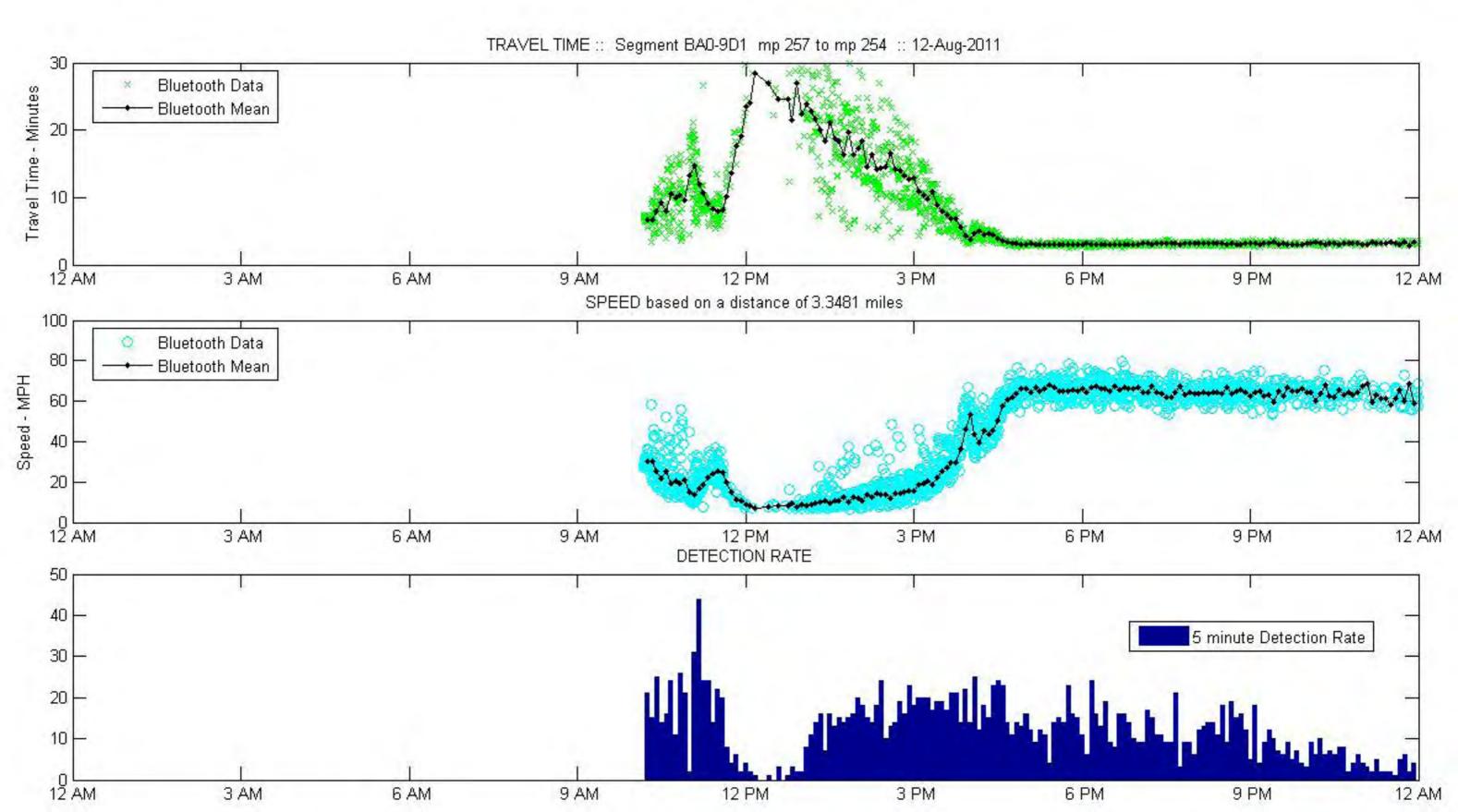


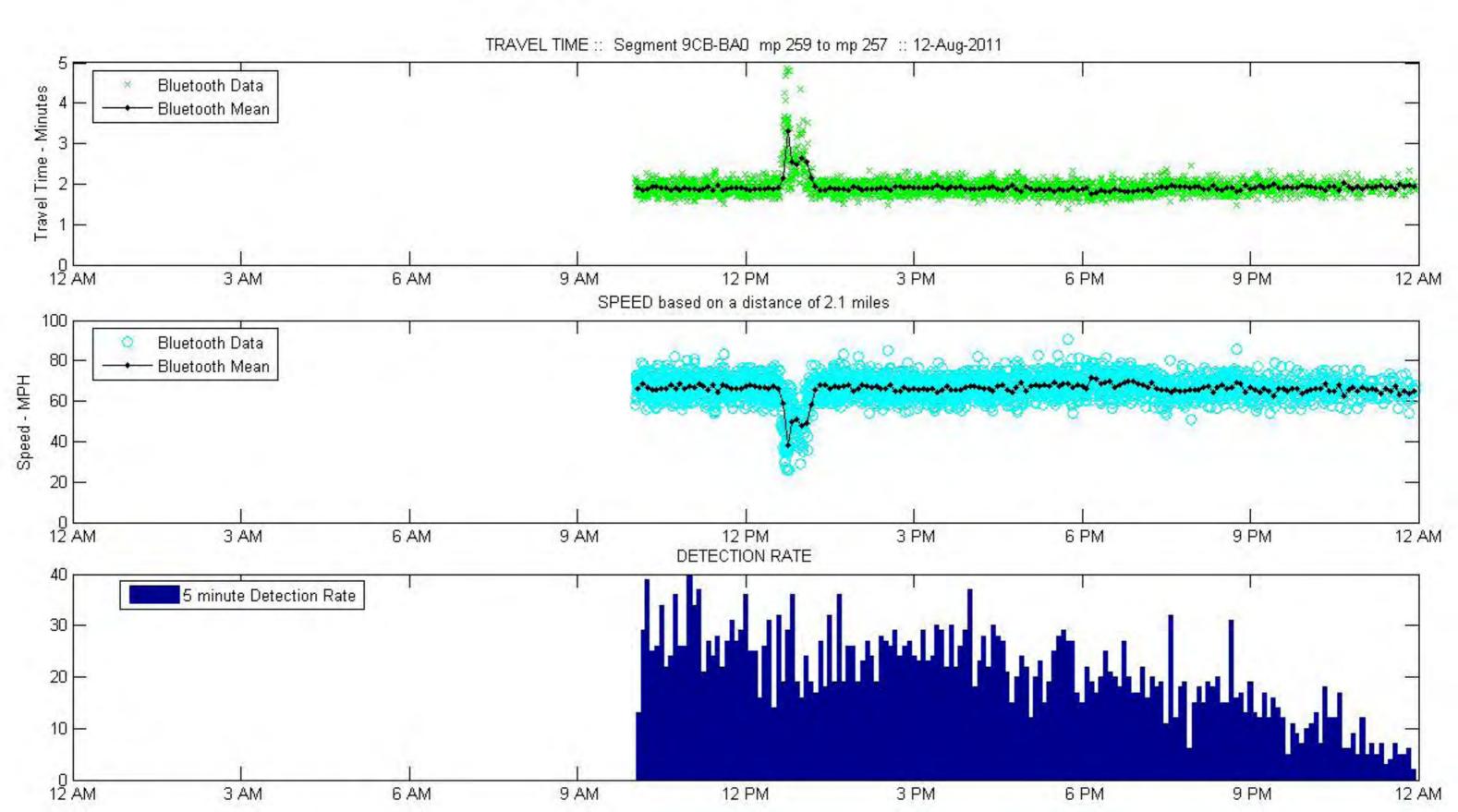


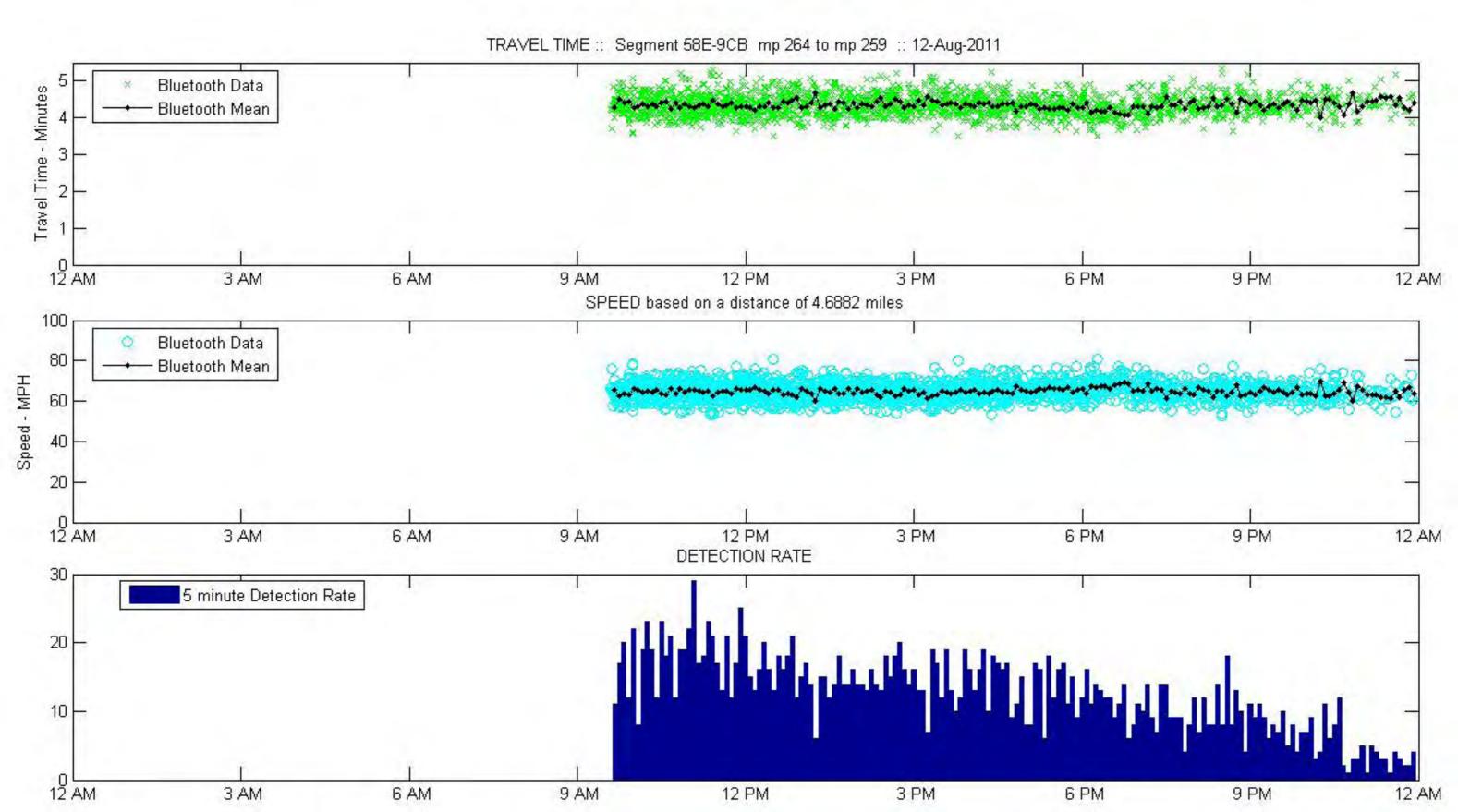


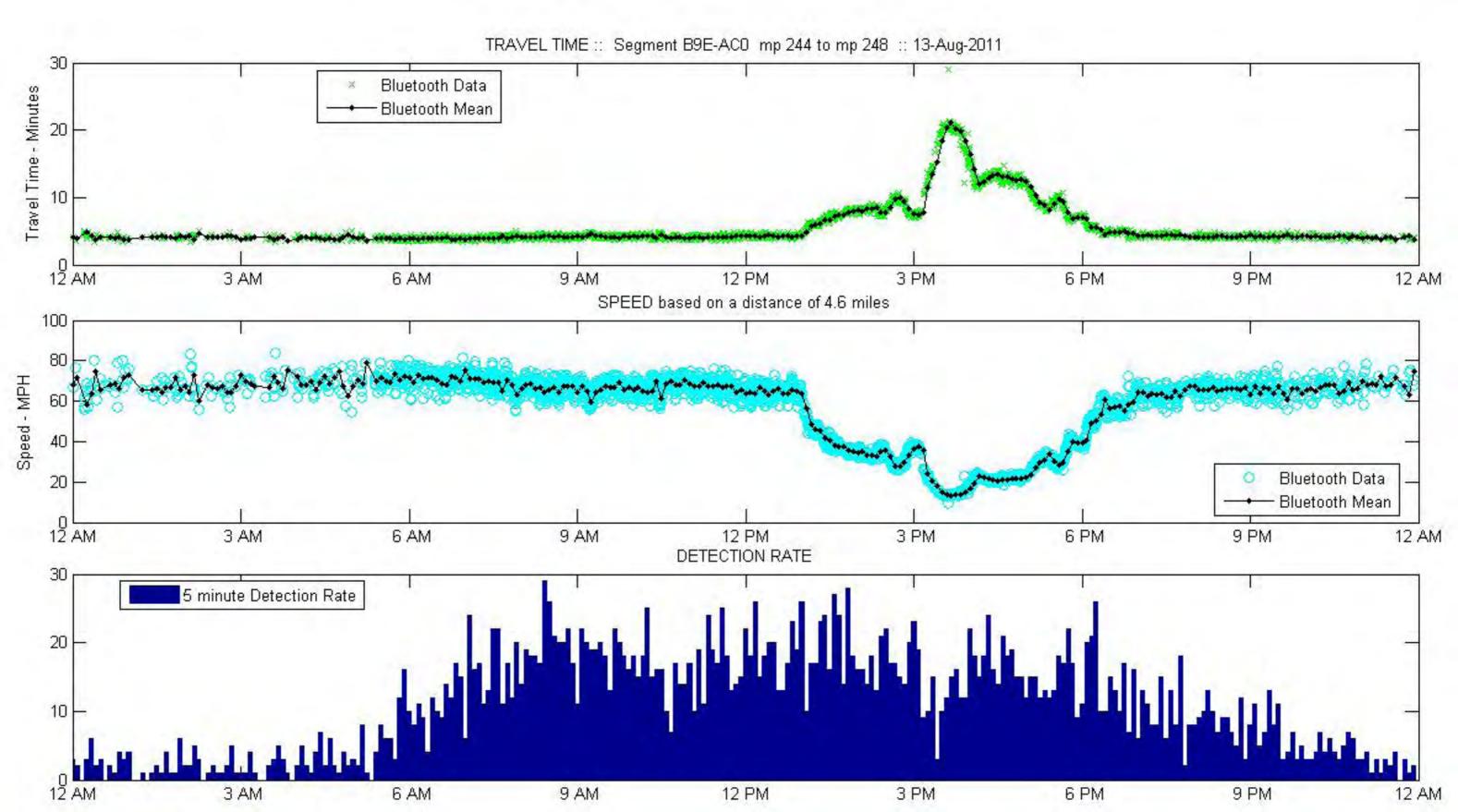


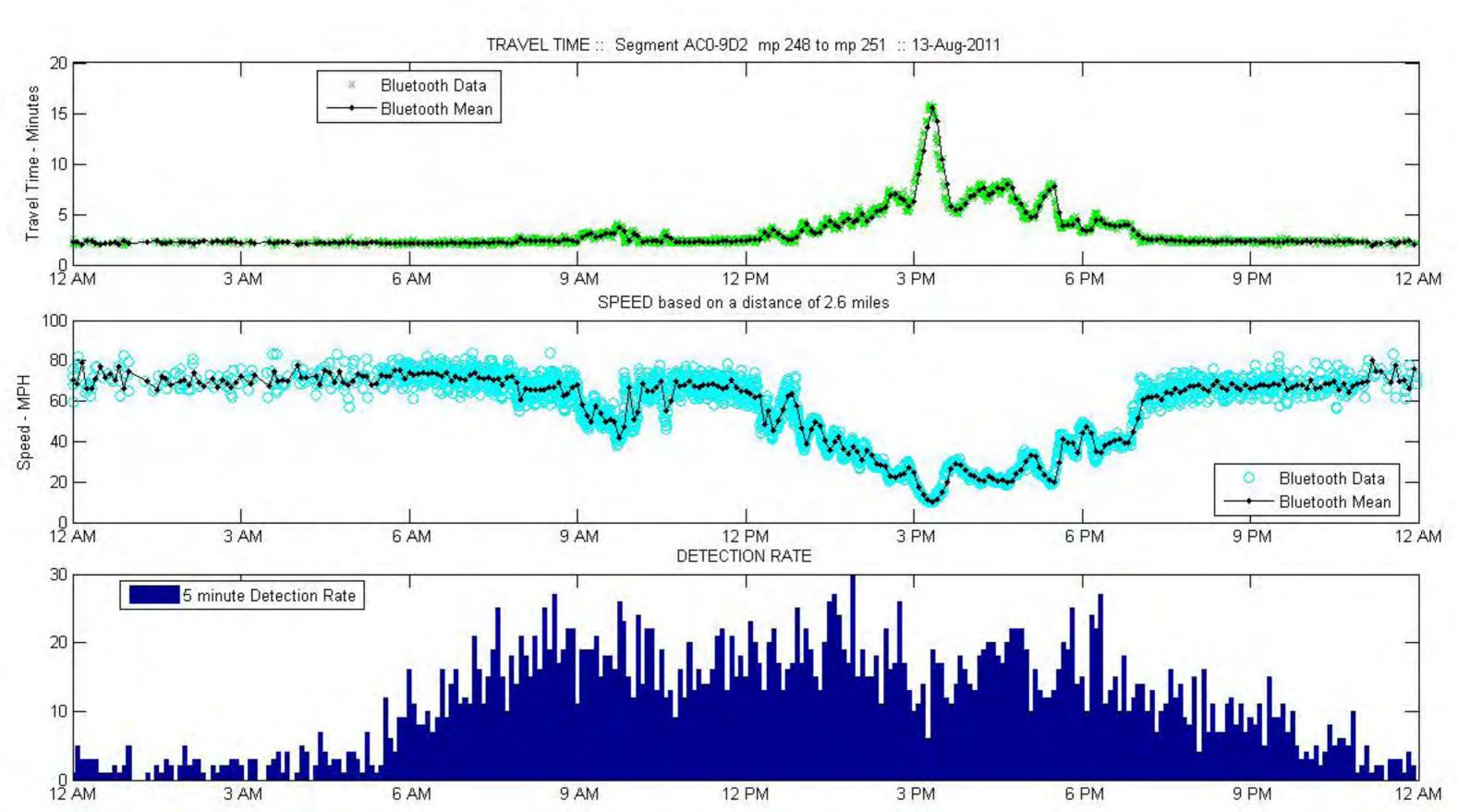


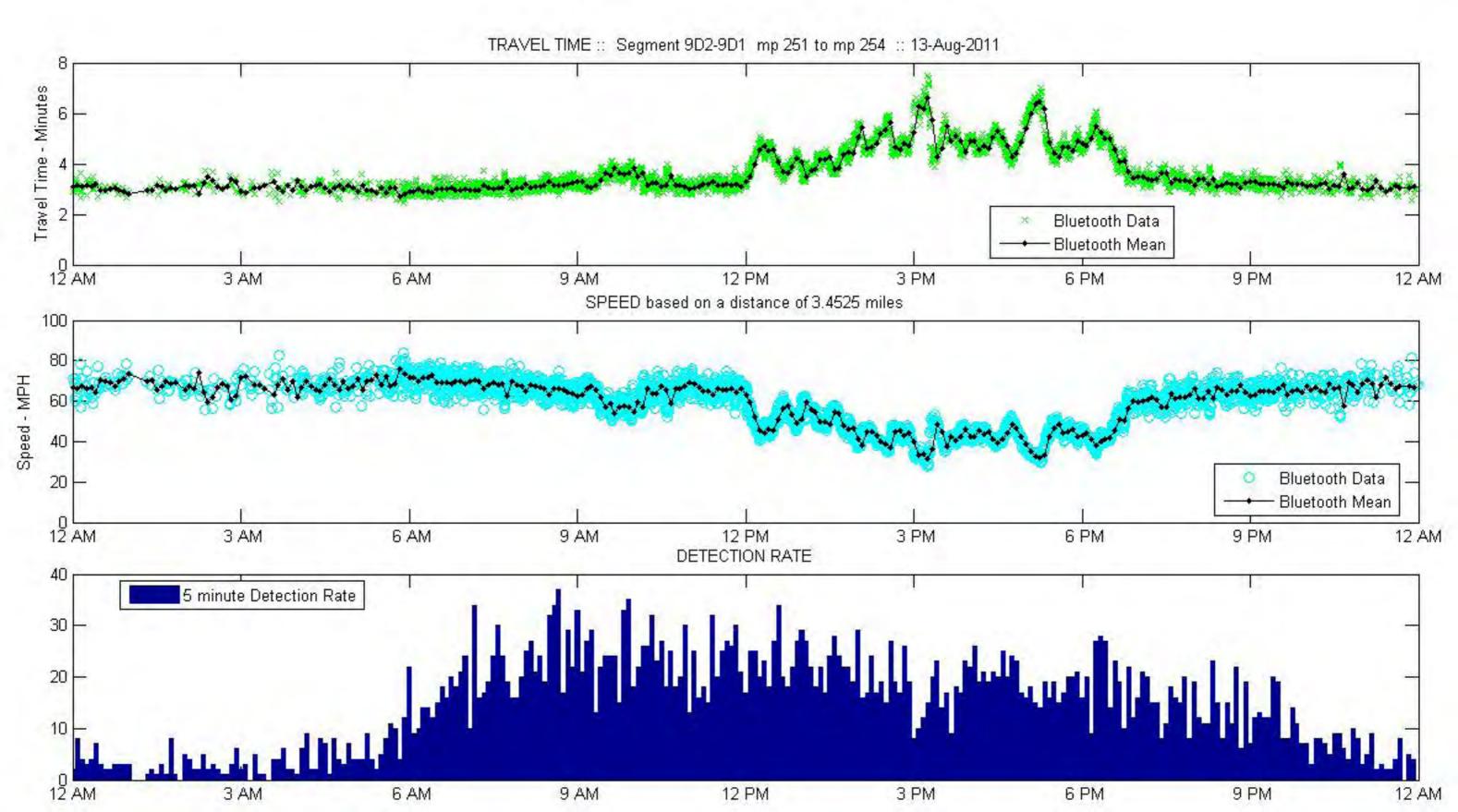


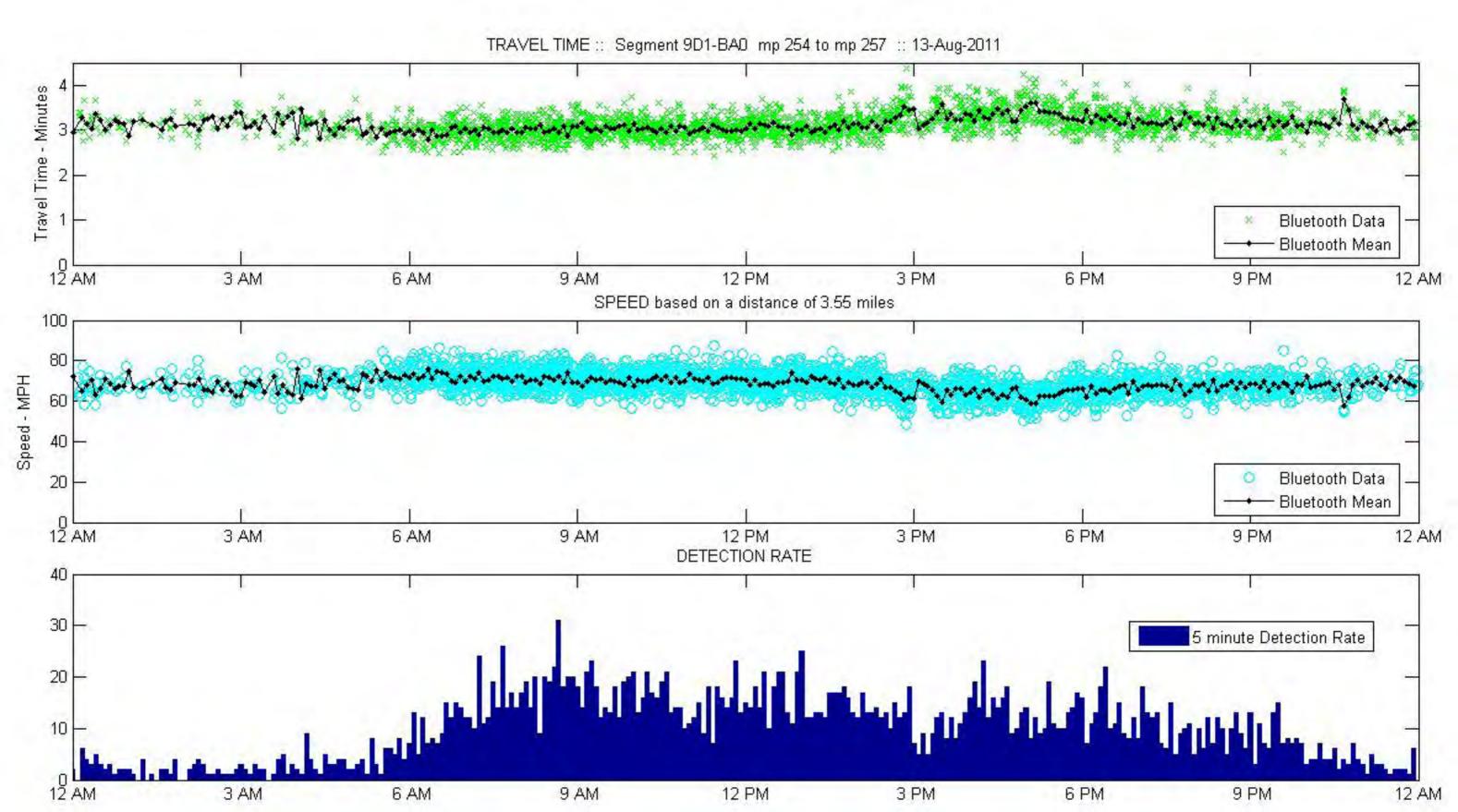


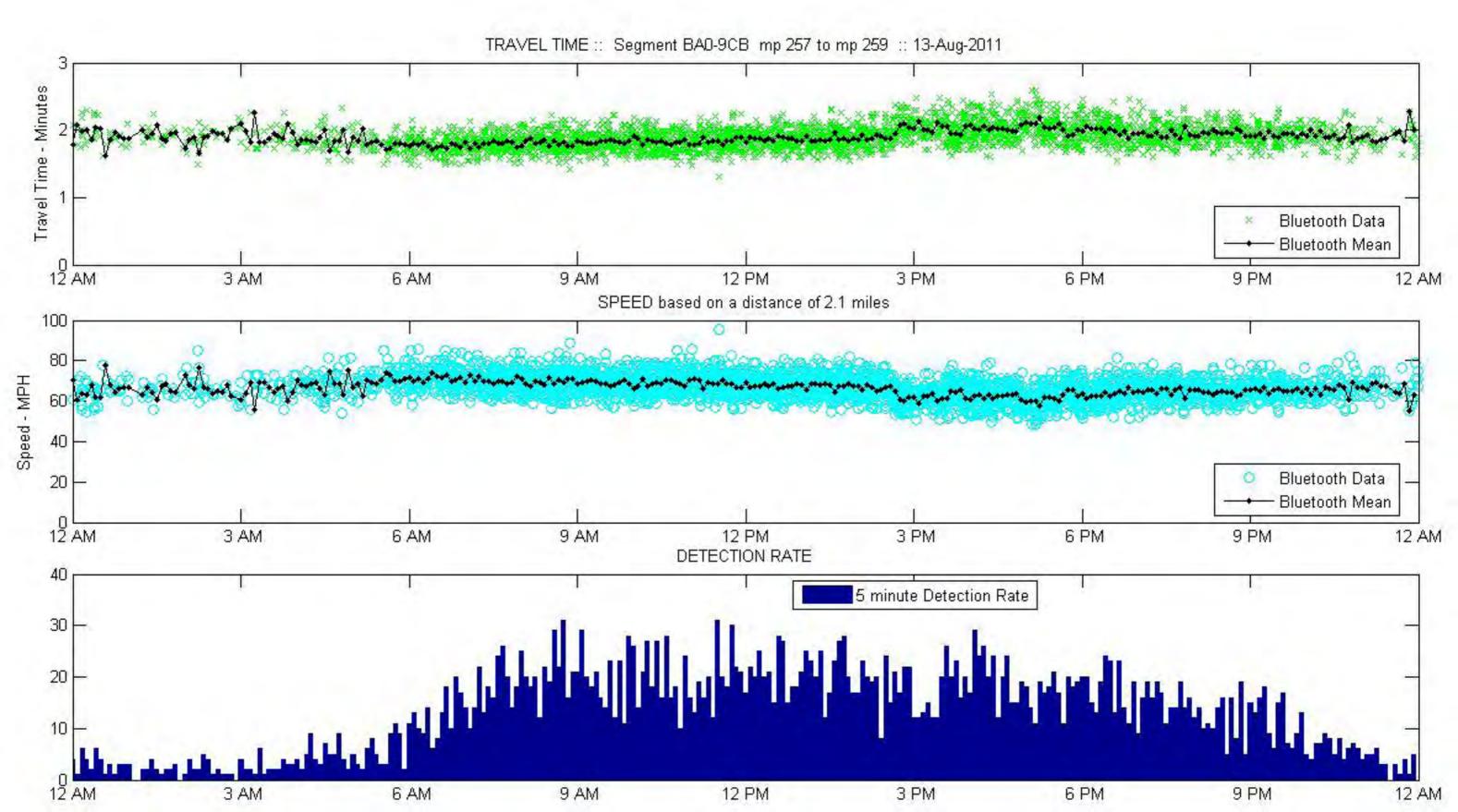


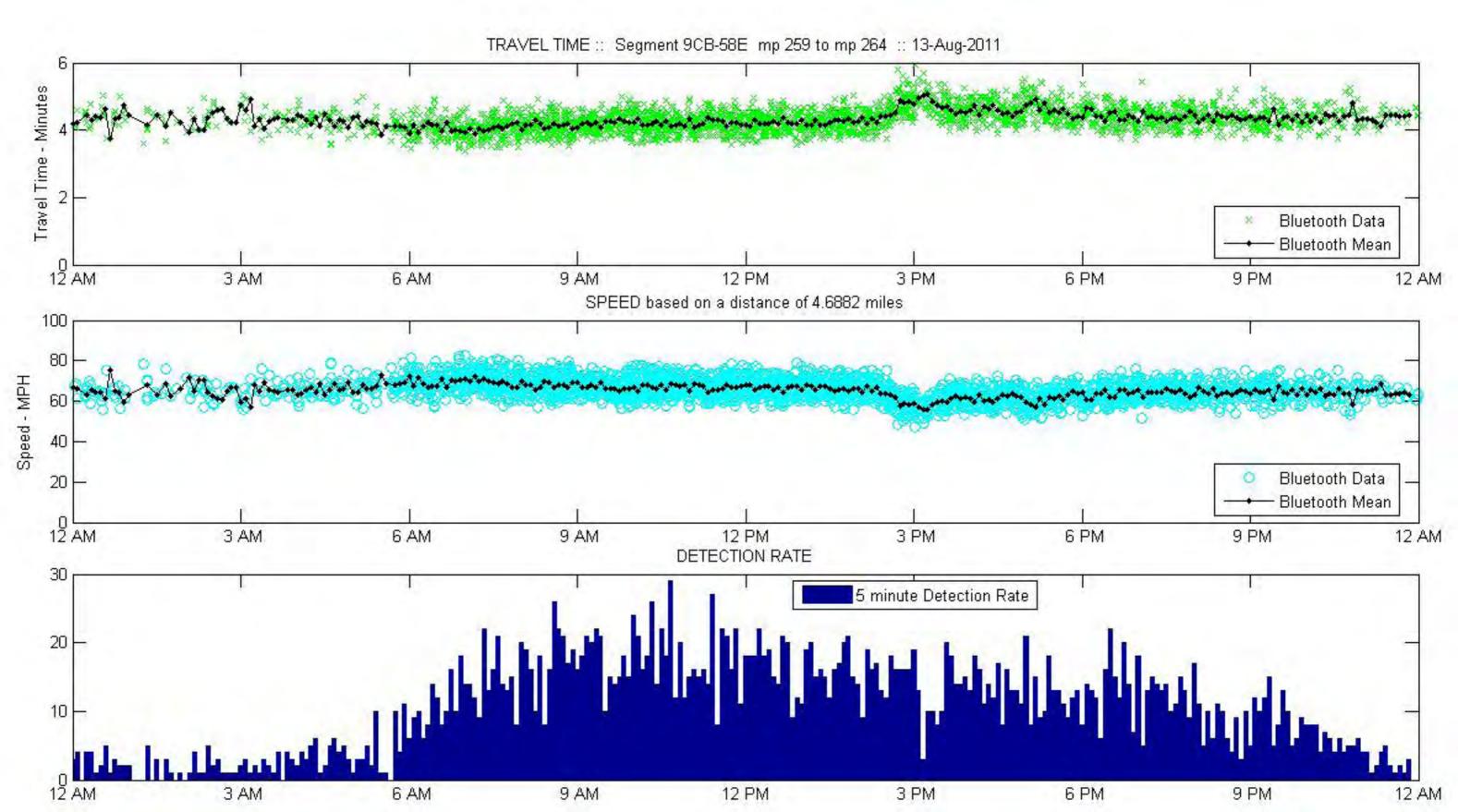


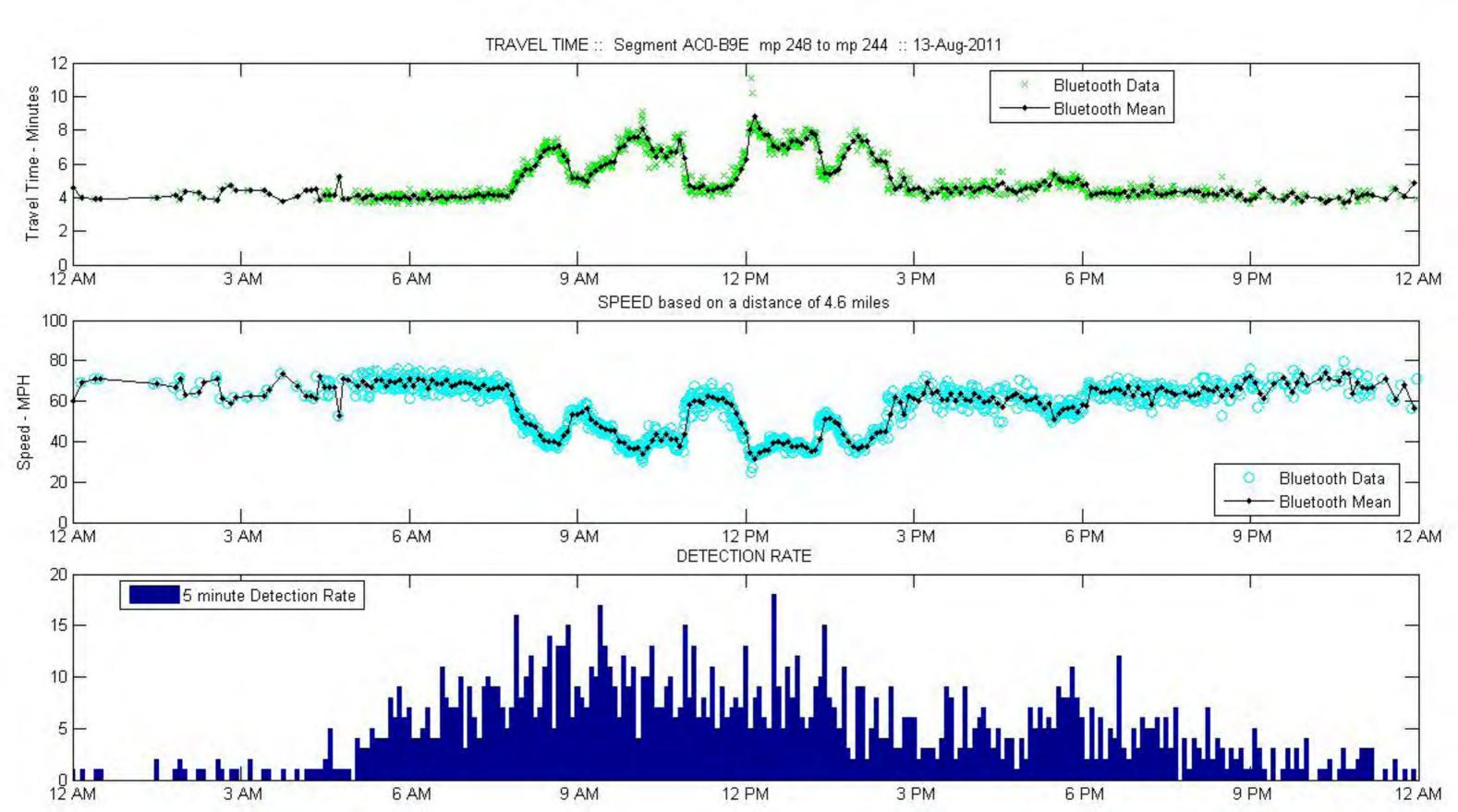


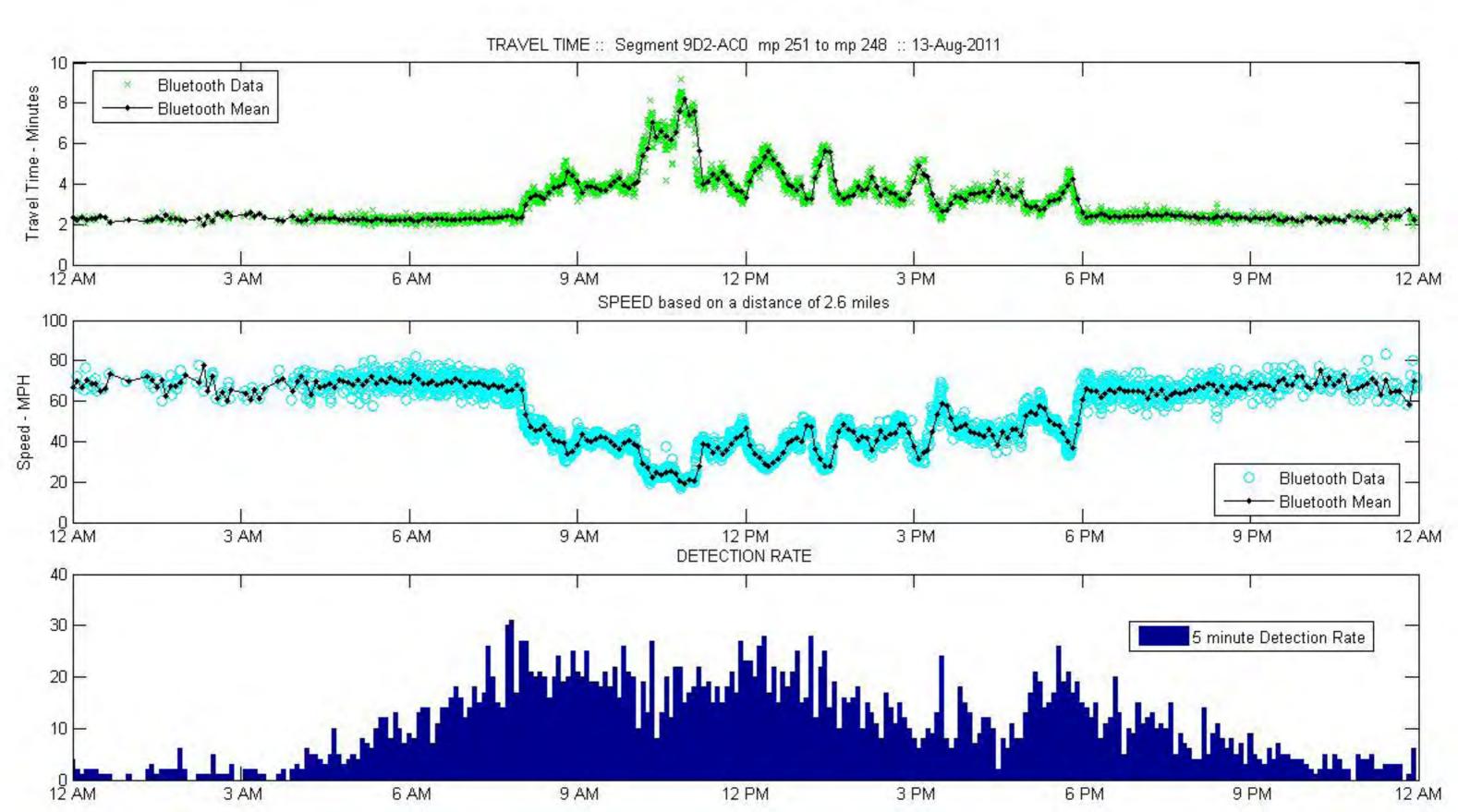


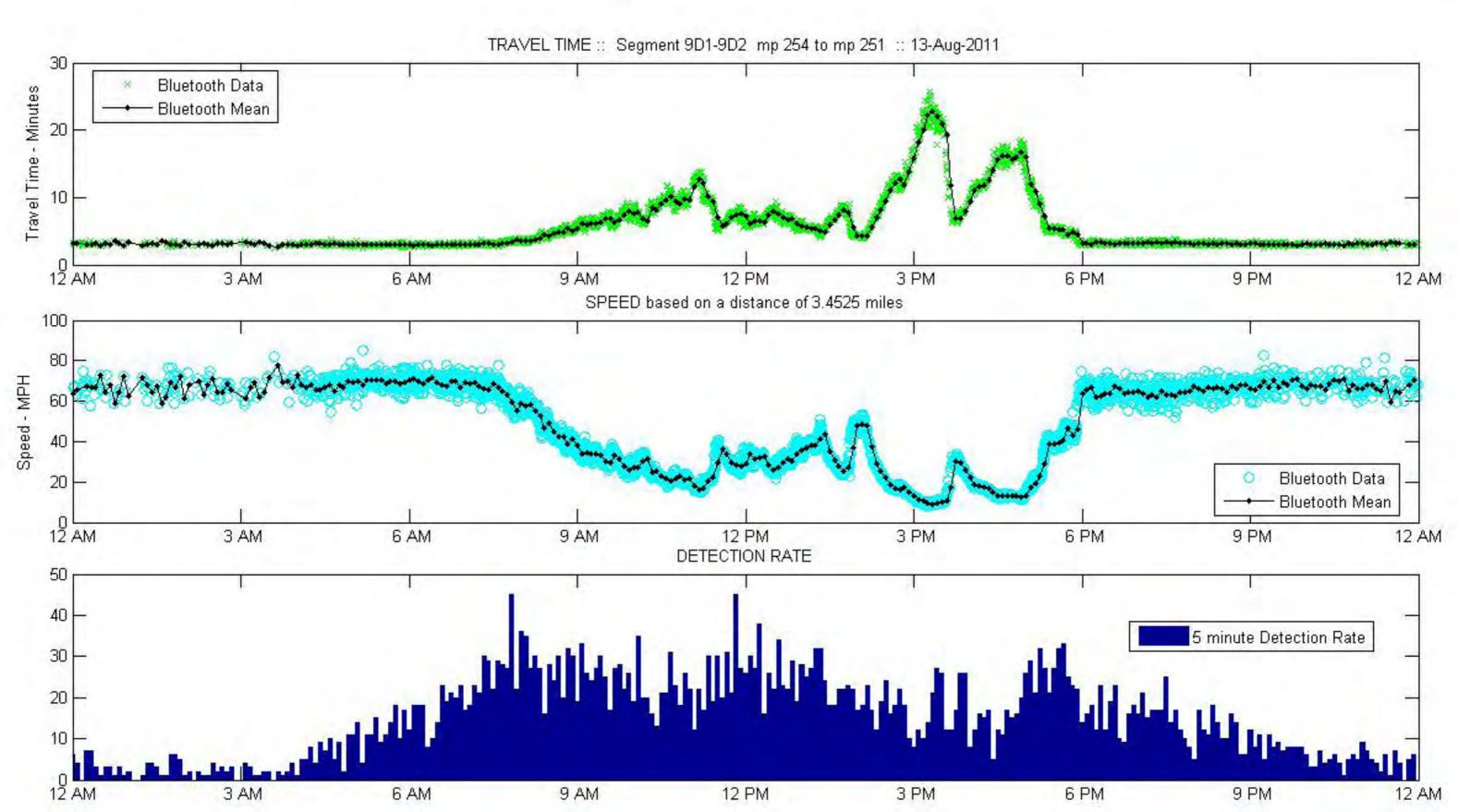


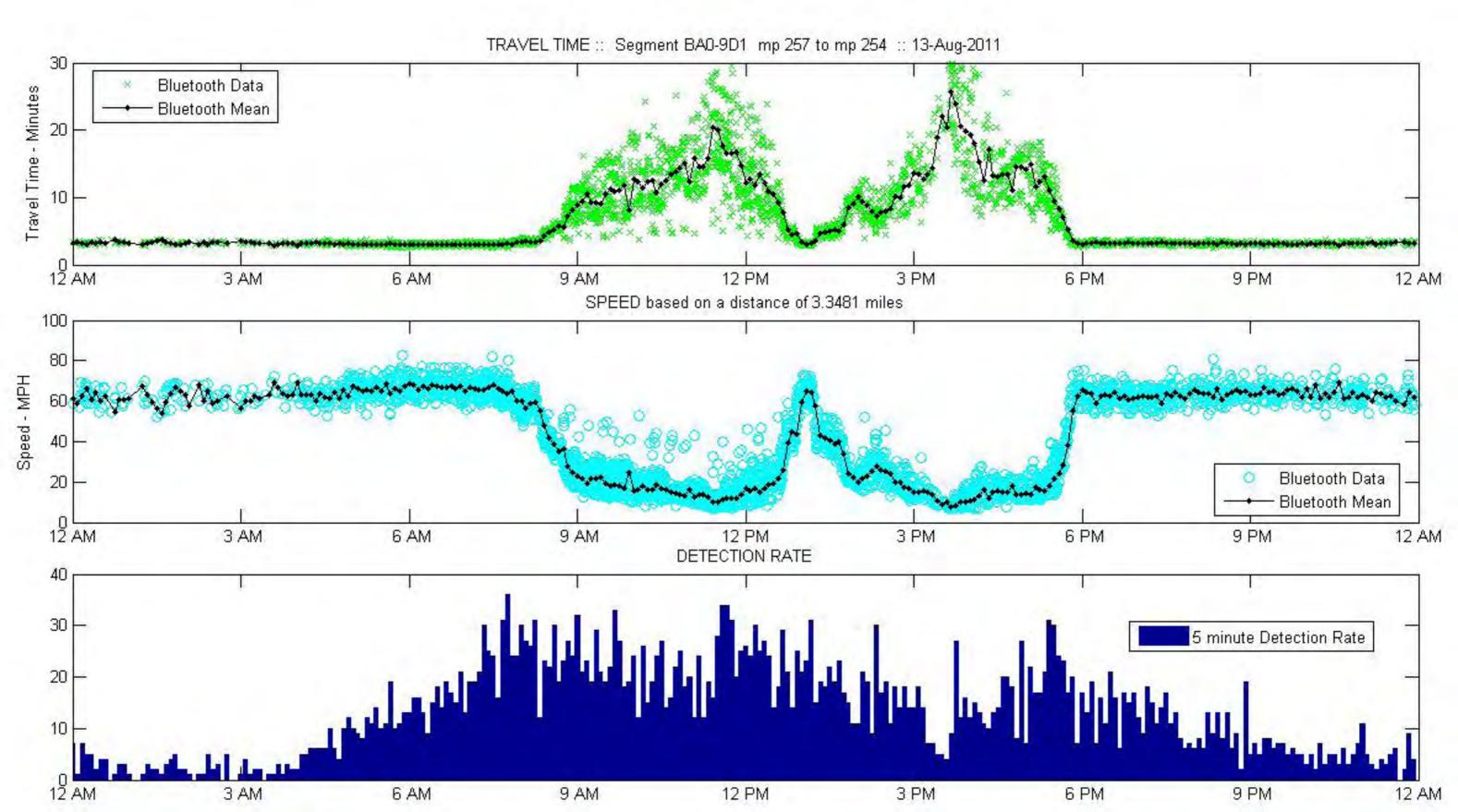


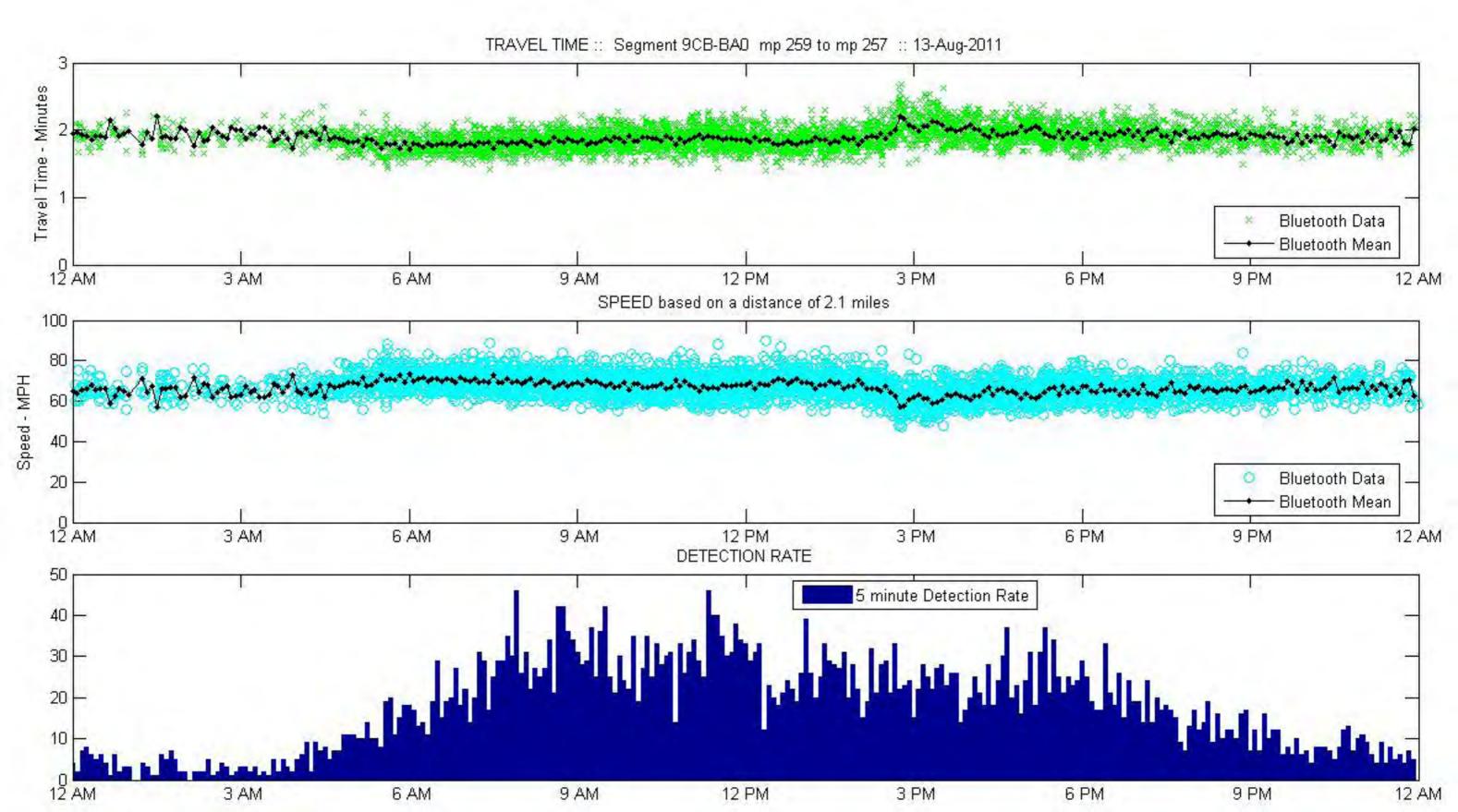


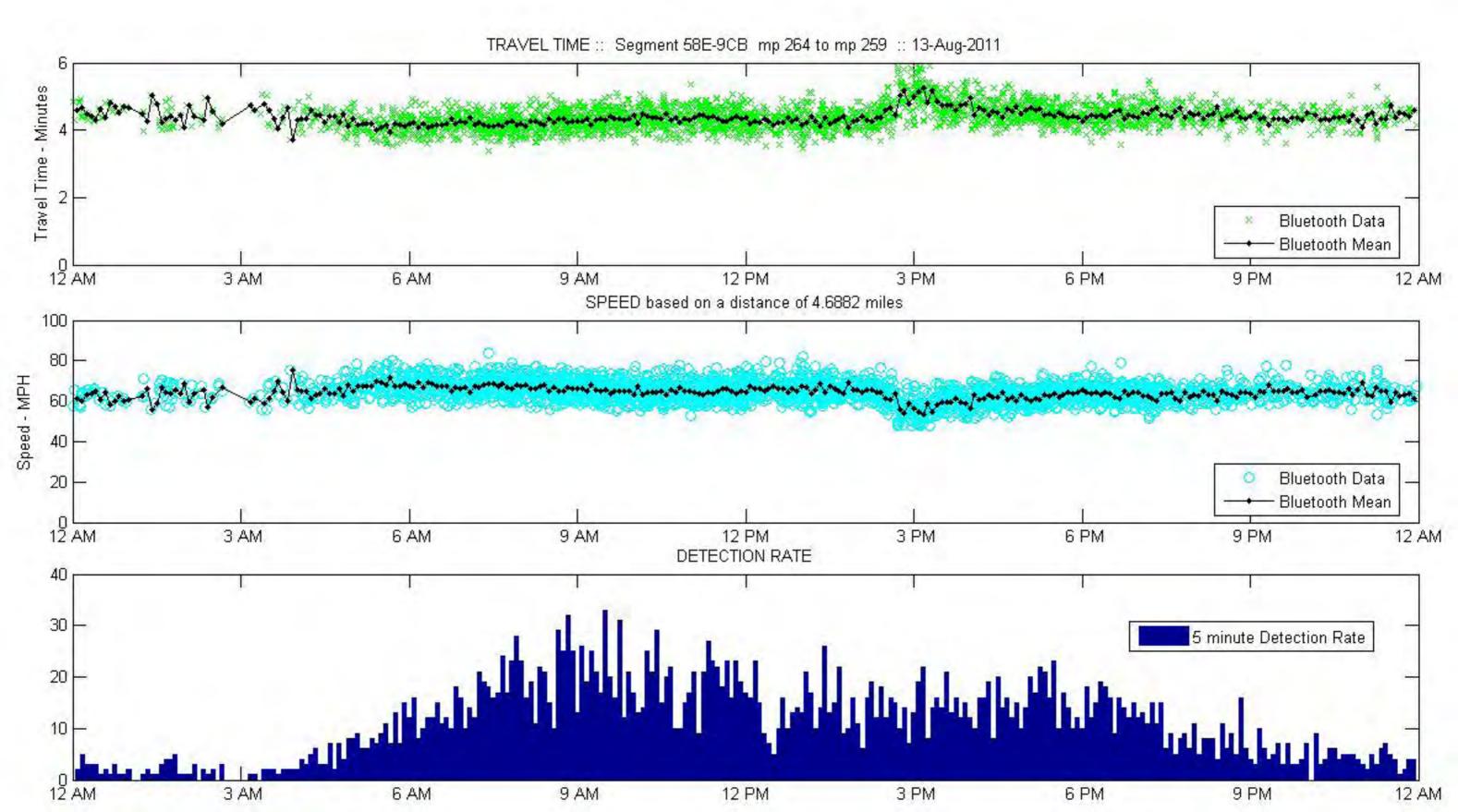


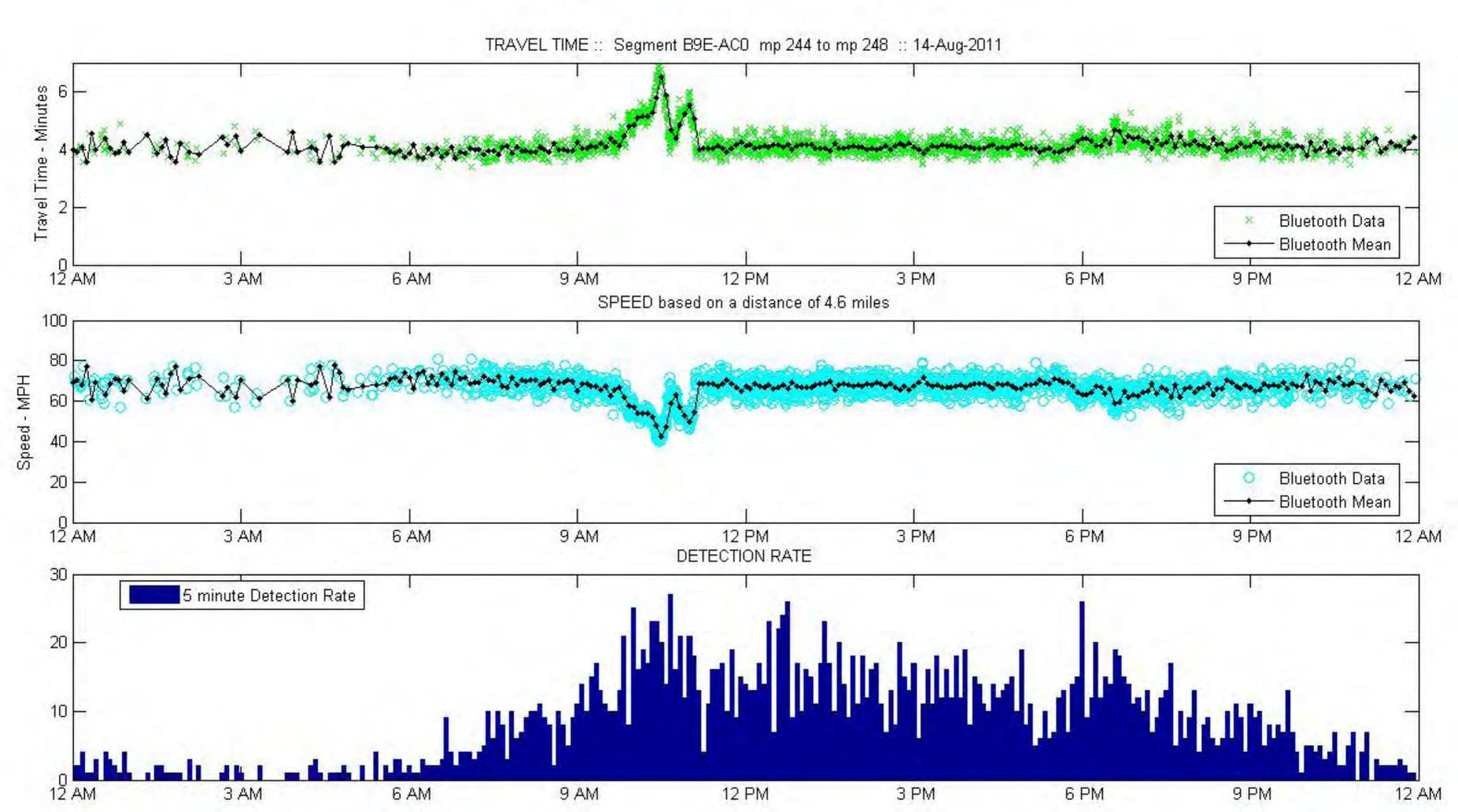


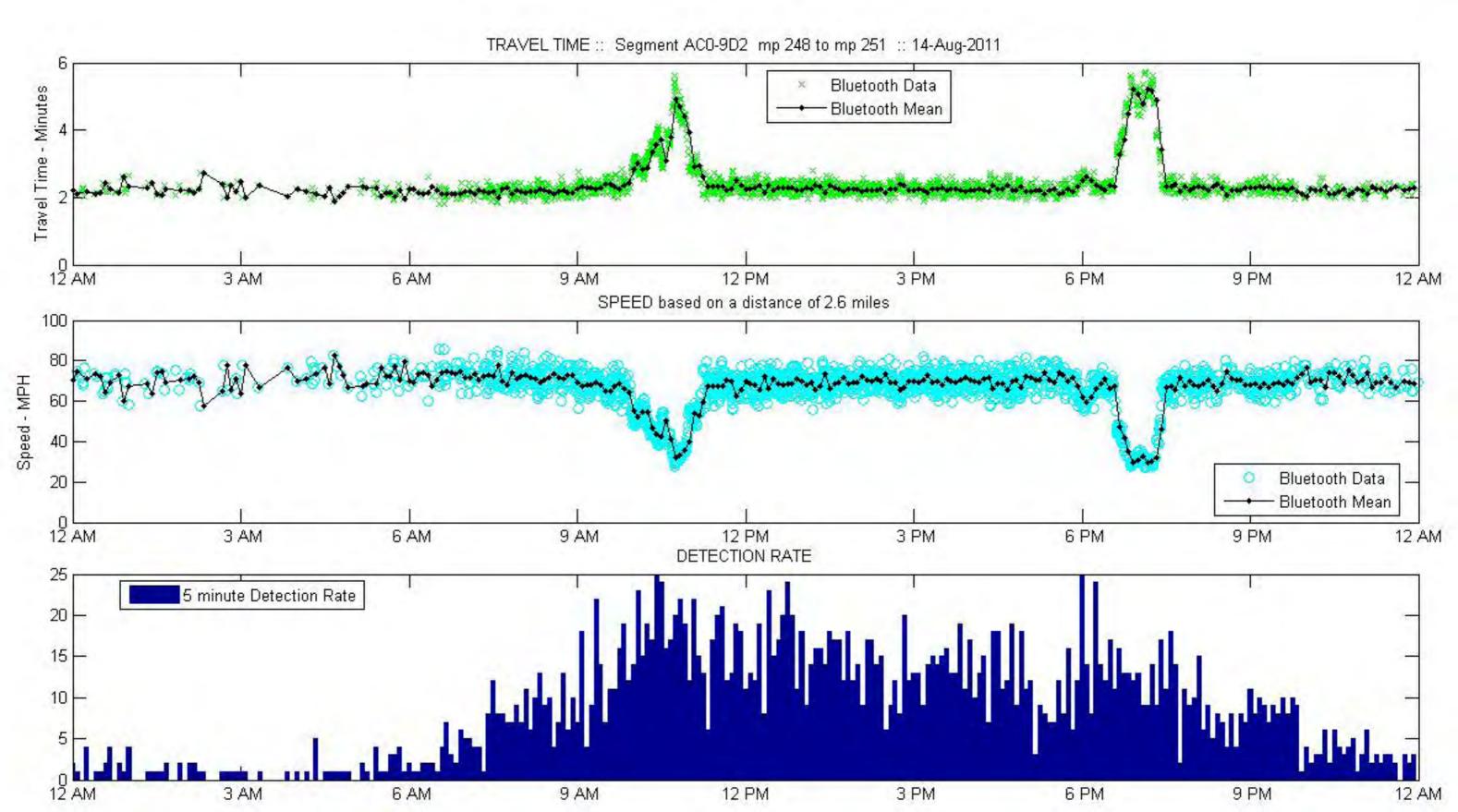


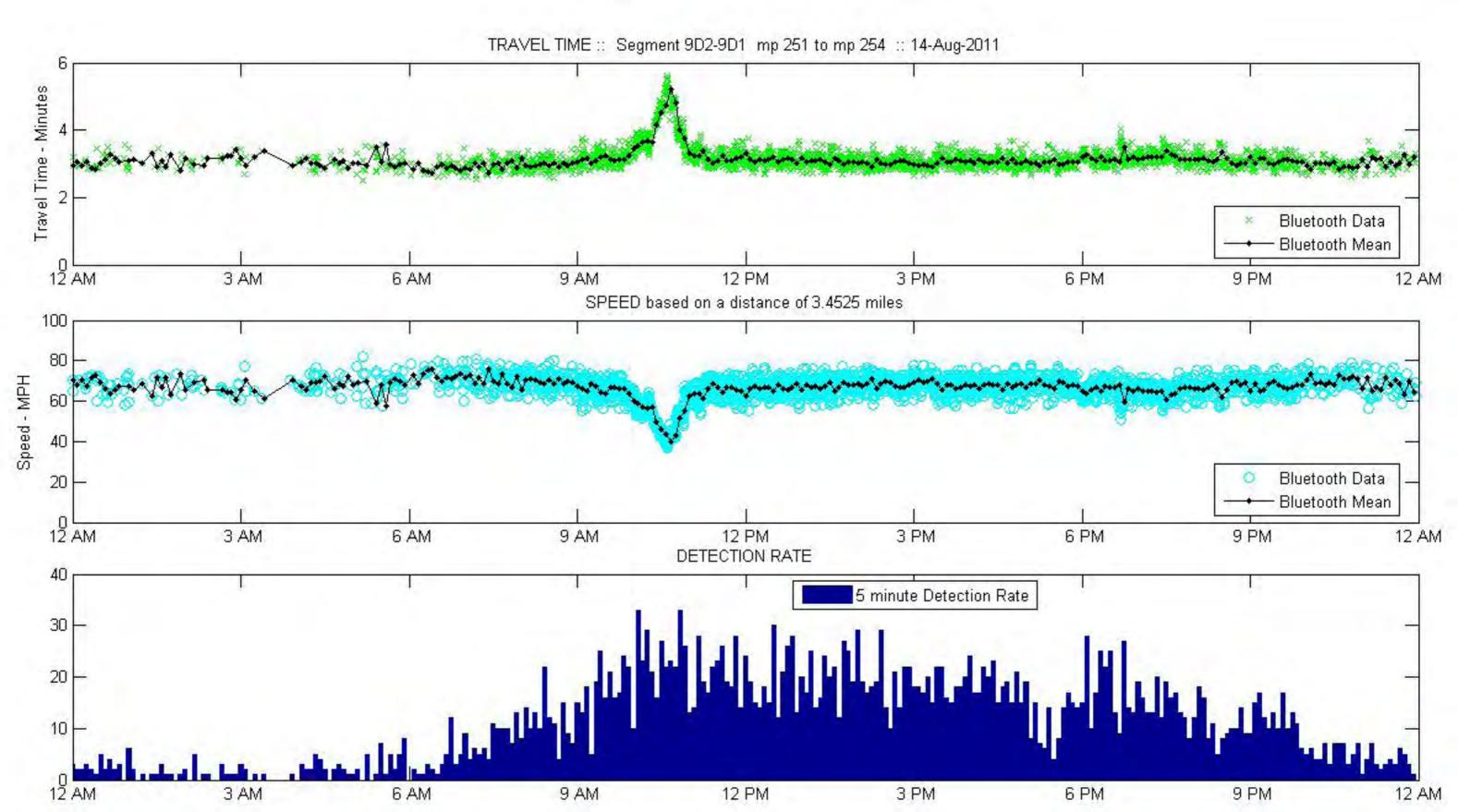


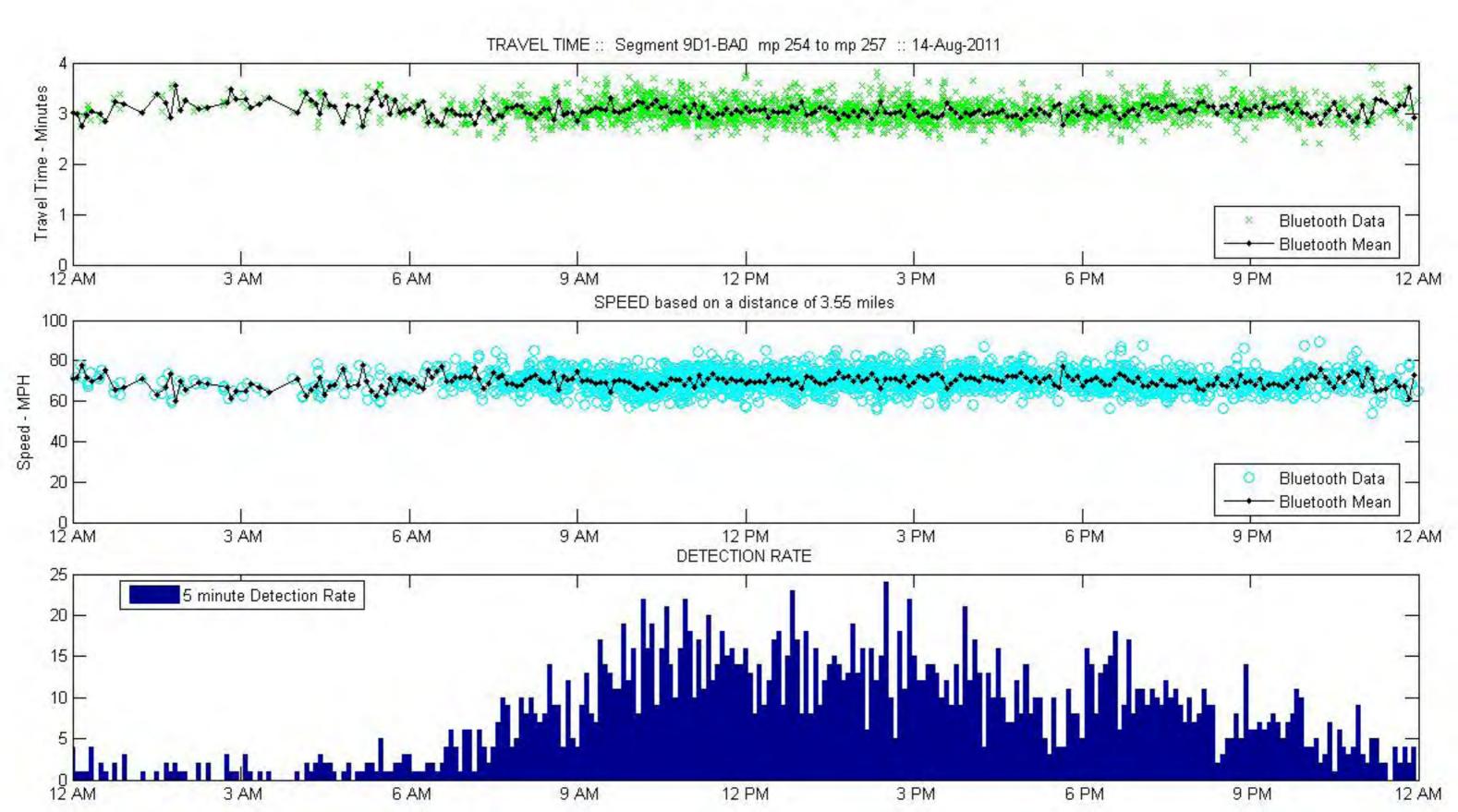


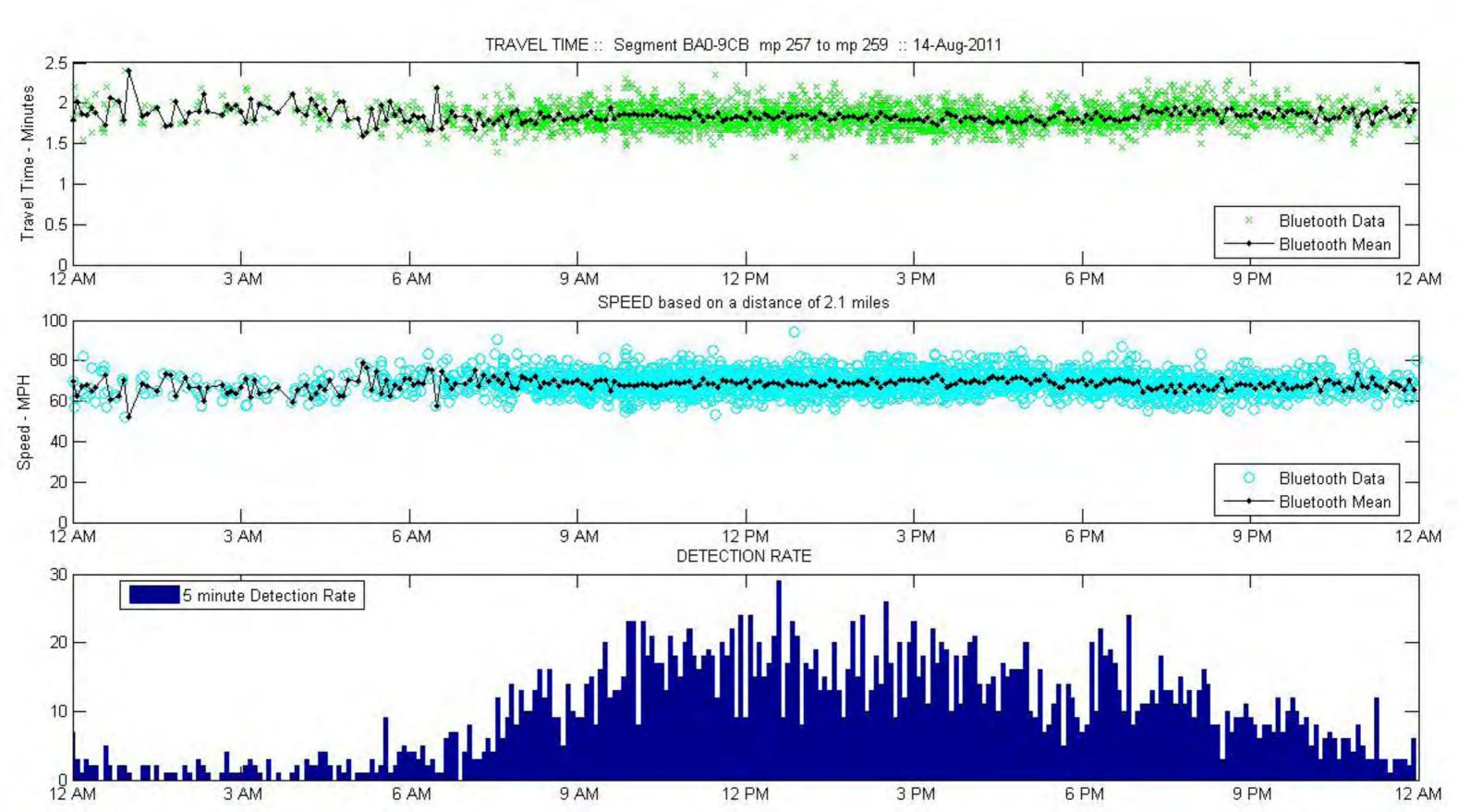


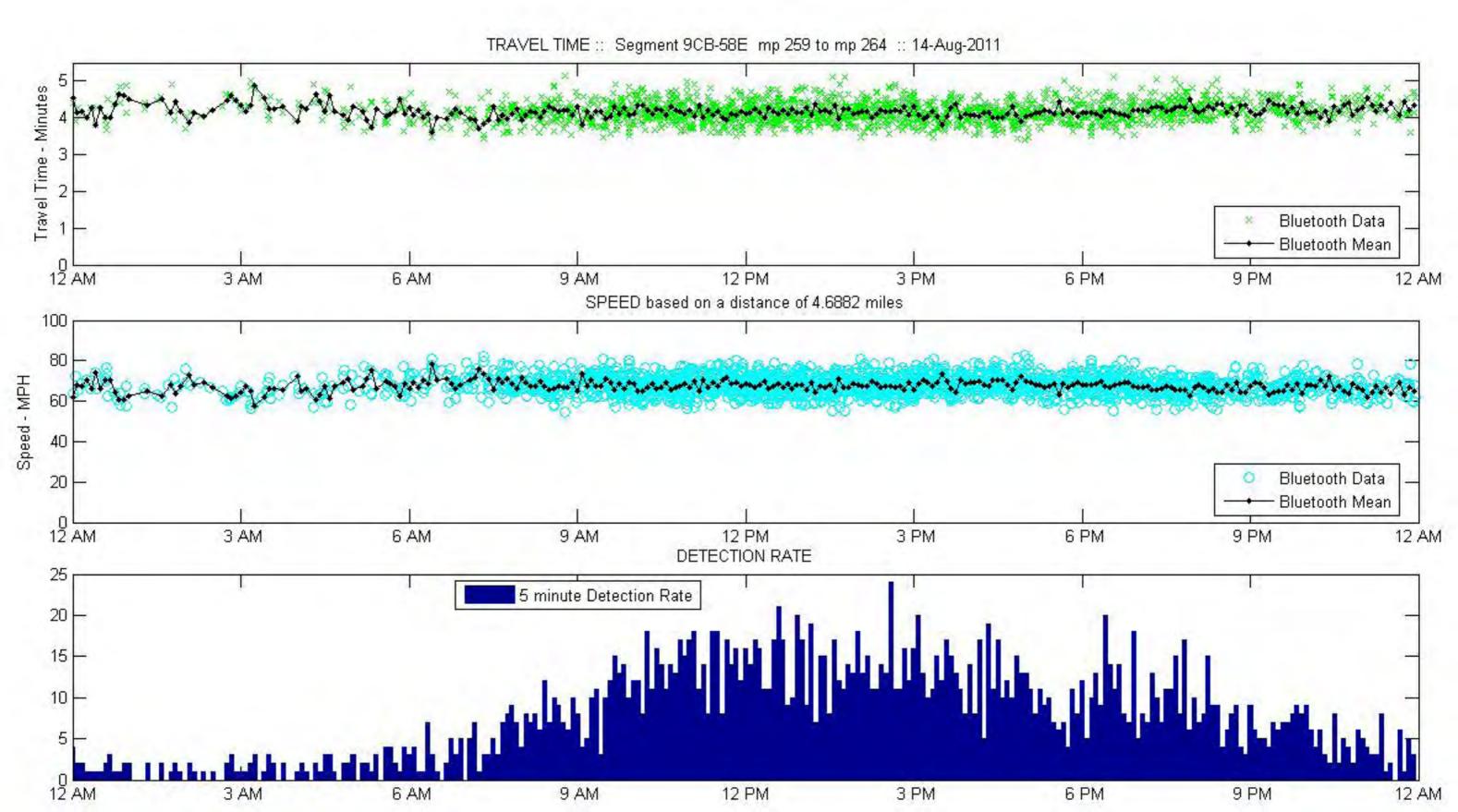


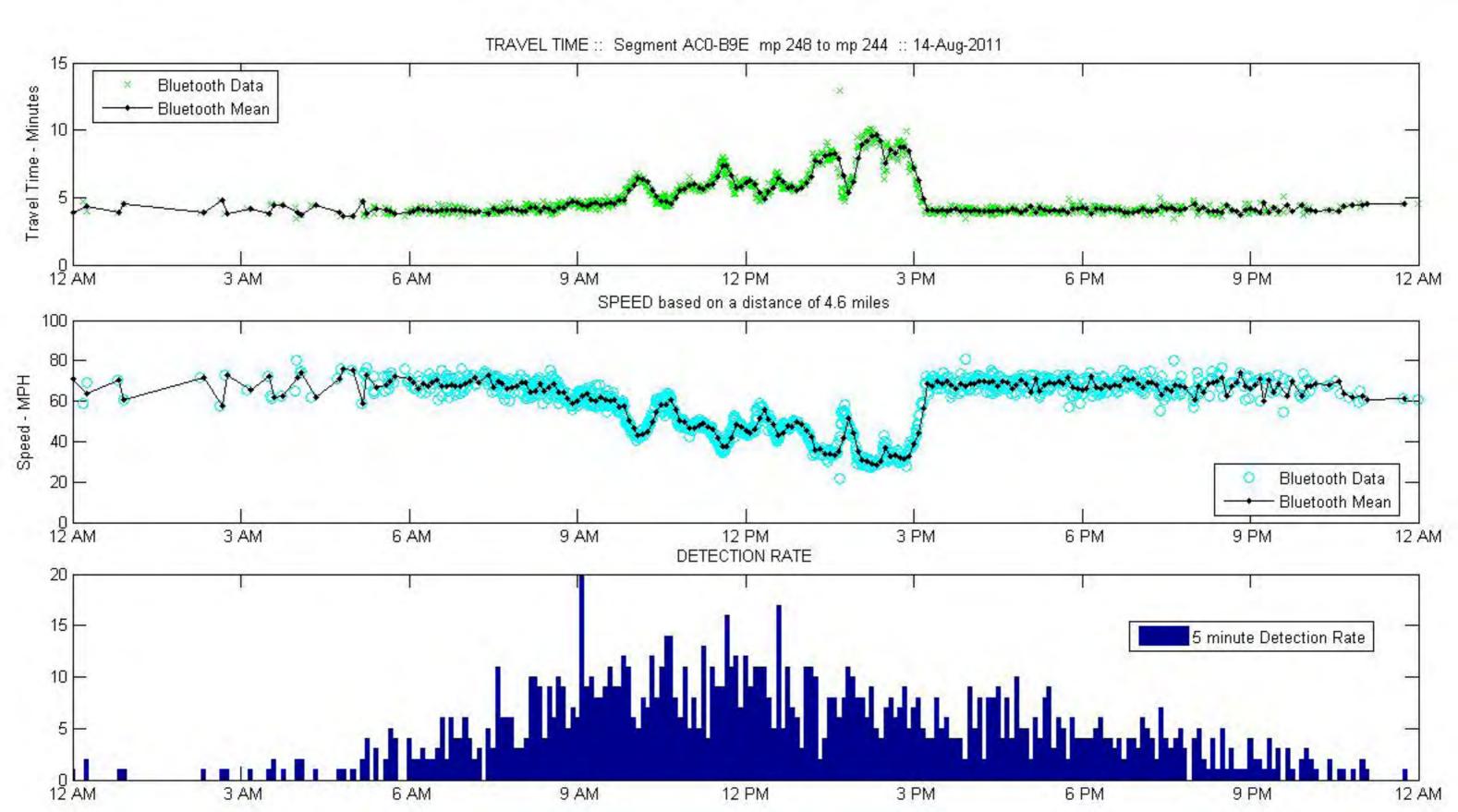


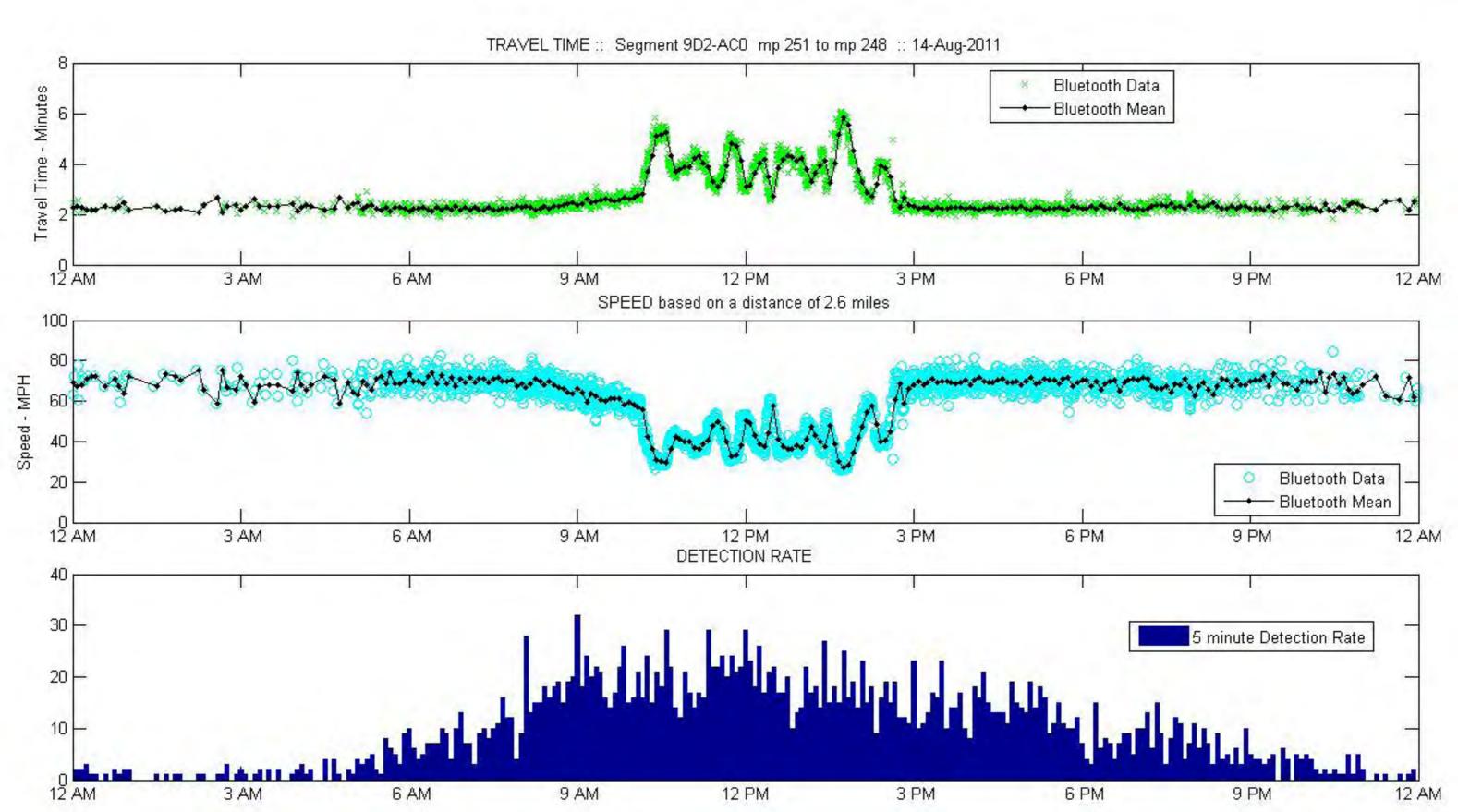


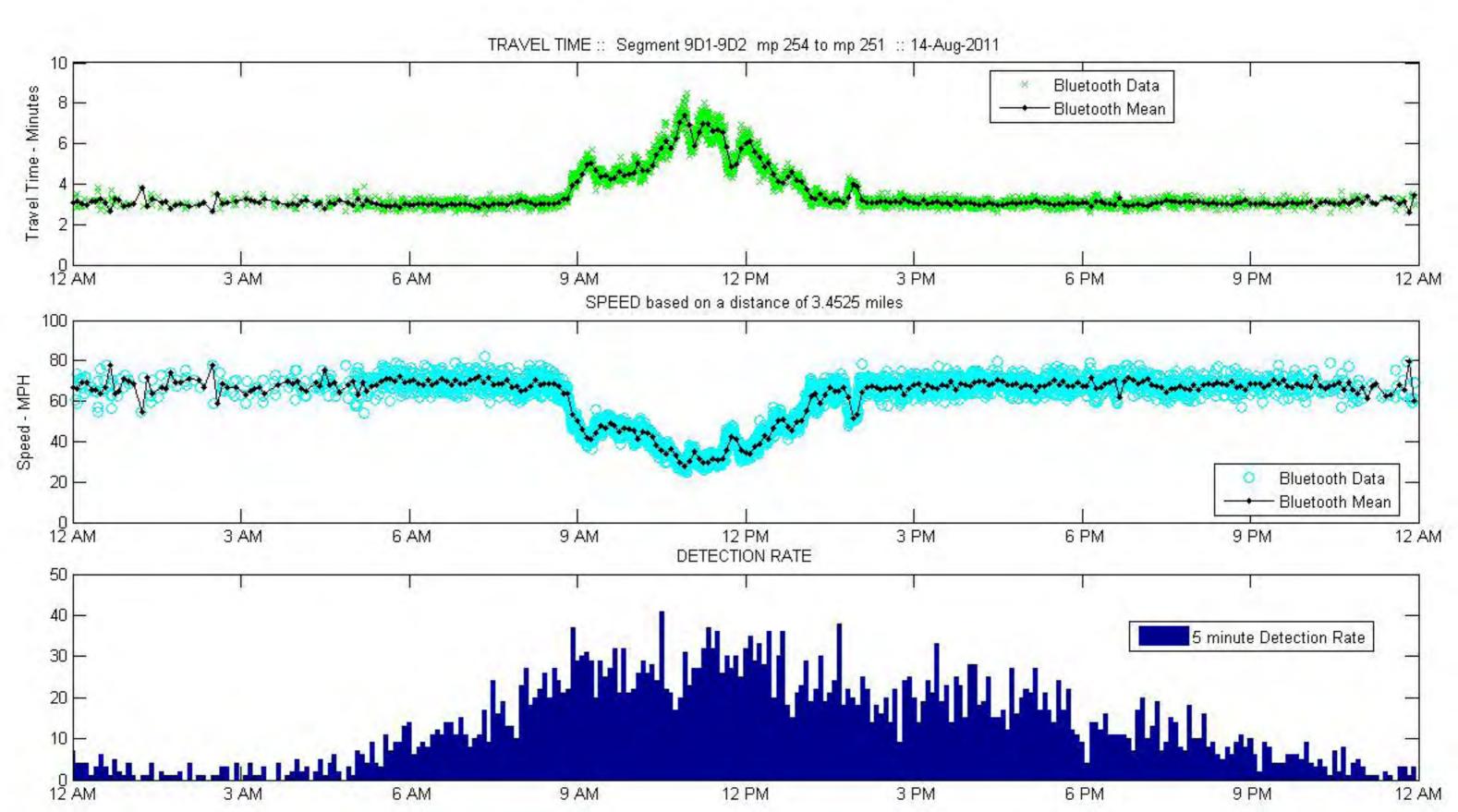


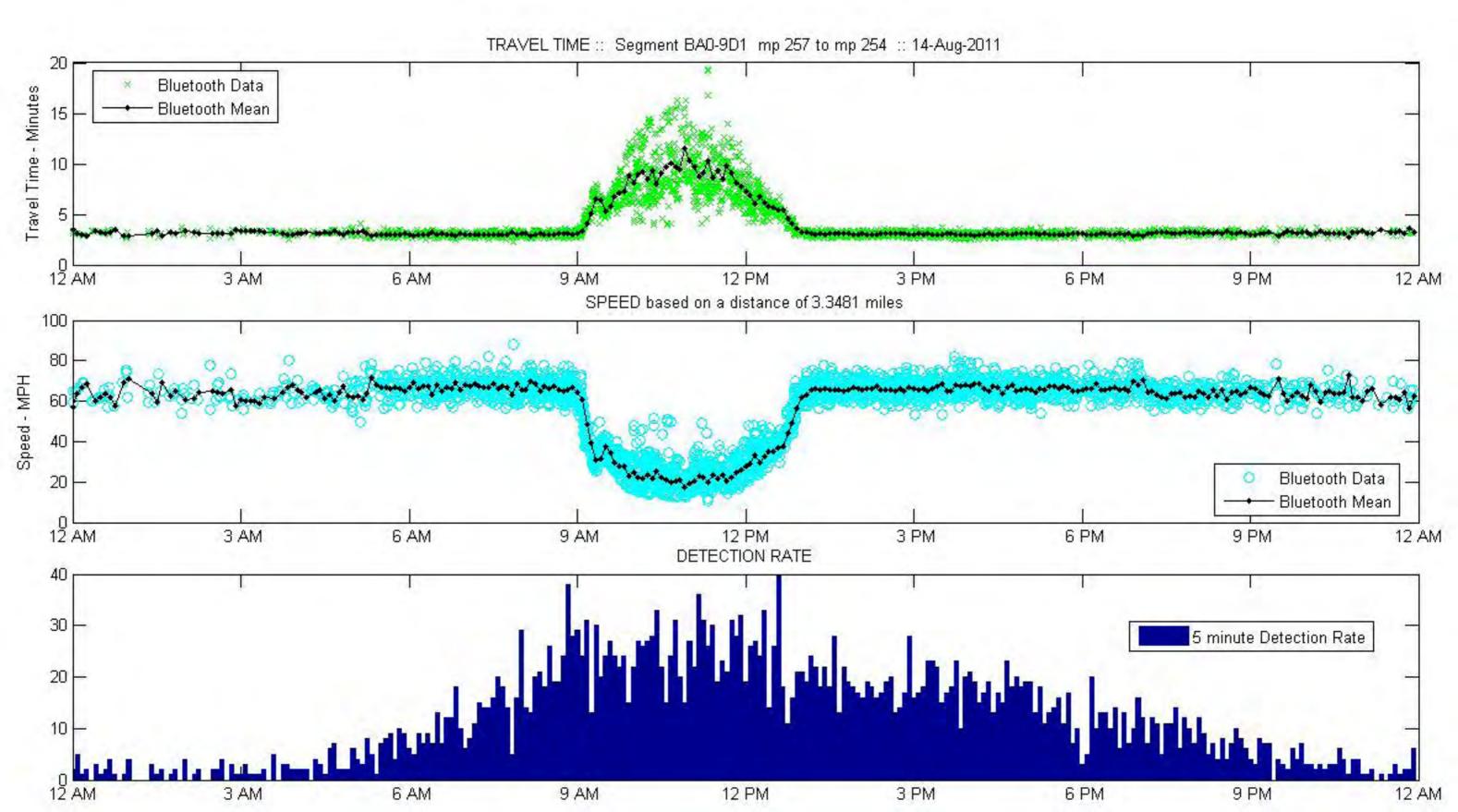


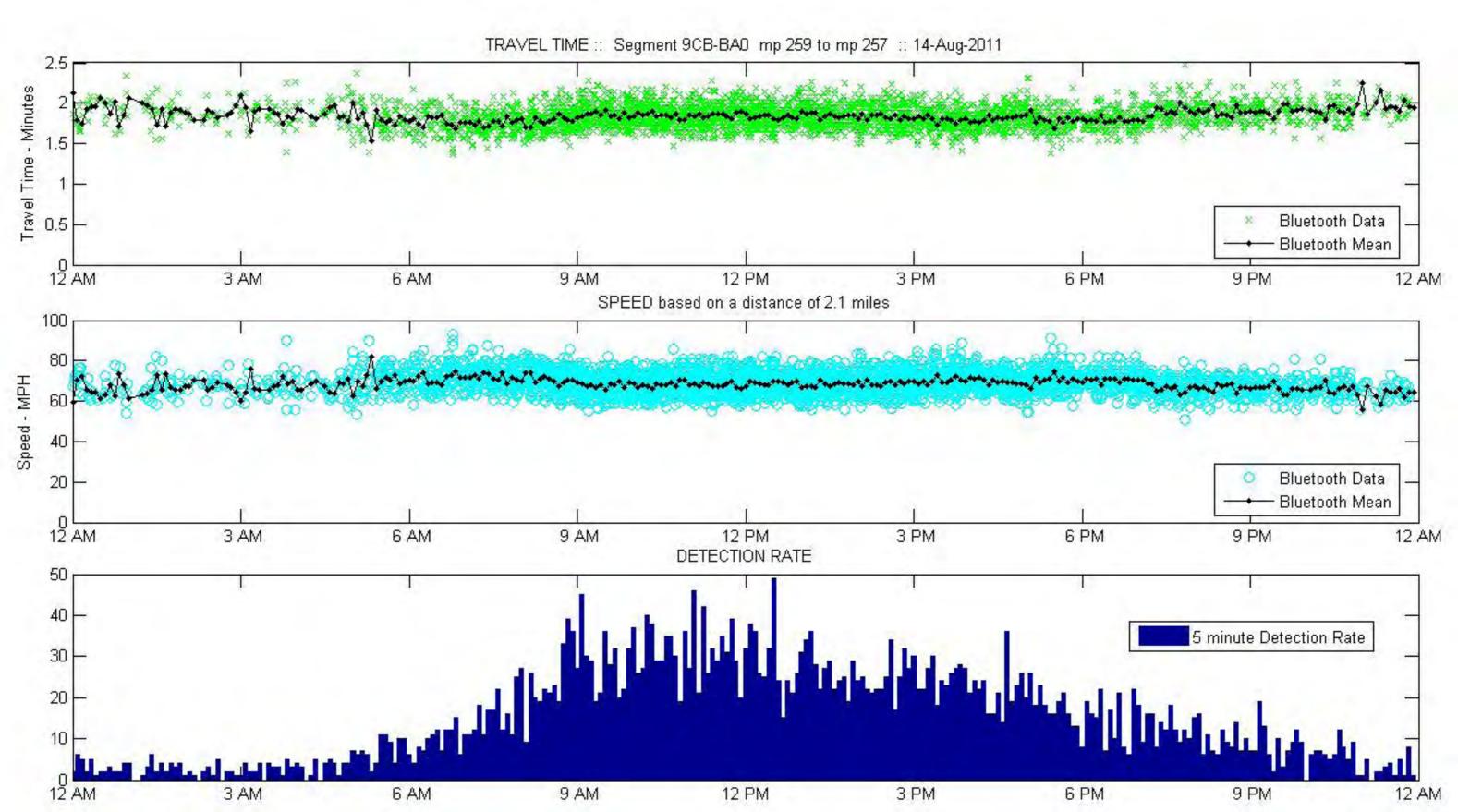


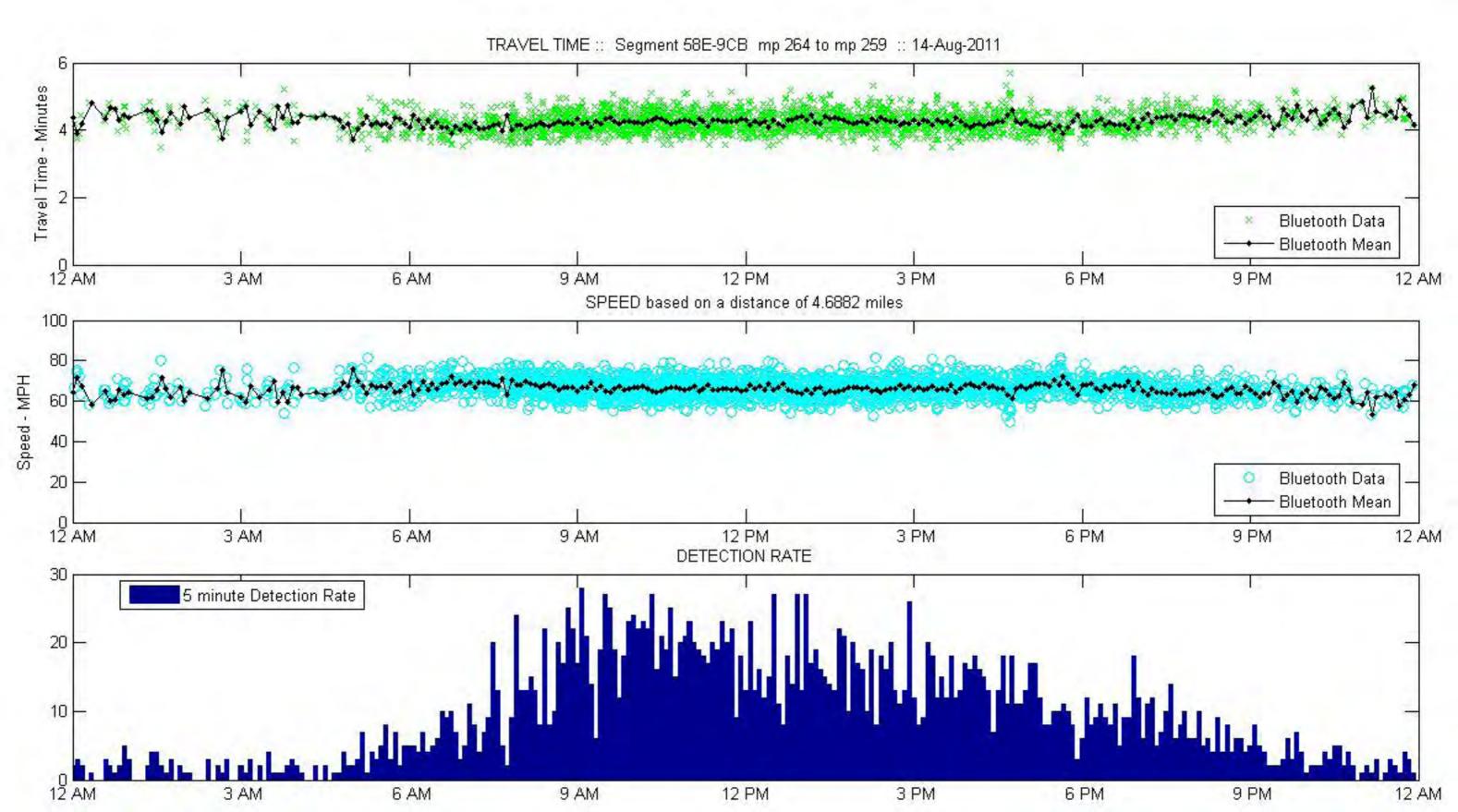


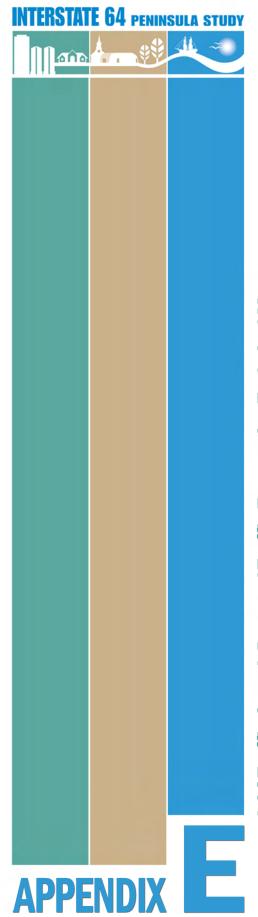












1-64 Traffic Growth Rate and Traffic Forecasting Technical Memo



MEMORANDUM

To: Nick Nies, VDOT

FROM: Marcel Klik, RK&K

Rich Butala, McCormick Taylor

DATE: October 21, 2011

Revised November 11, 2011

SUBJECT: I-64 Peninsula Study

Growth Rate Determination

As documented in our August 12, 2011 Memorandum, the guidance from VDOT to produce 2040 forecasts from the Super Regional Tidewater model is to develop growth rates, and apply those growth rates to the 2011 balanced volumes. In accordance with this proposed methodology, the project team reviewed historic growth rates along the corridor and reviewed the projected growth along I-64 in the travel demand model.

To determine historic growth rates, the Annual Average Daily Traffic (AADT) along the corridor for the 27 segments from I-95 to the Hampton Roads Bridge Tunnel (HRBT) was obtained from the Virginia Department of Transportation for the years 1975 – 2010 (at five-year intervals). These data are available on the Virginia Department of Transportation website. The results are provided in Table 1.

Table 1 also presents the the computed annual growth rate for the 1975 - 2010 and 2000 - 2010 timeframes. For the 1975 - 2010 timeframe, growth ranges from 0.4 to 4.9 percent per year, with the lowest growth occurring in the western area of the project (near Richmond), and the highest growth (more than 4 percent per year) occurring in the rural and eastern sections of the study area. This trend generally holds when only the last 10 years are examined (2000 - 2010), although urban areas (Richmond and Hampton Roads) have seen decreases in Average Daily Traffic Volumes. The slight decreases and lower growth rates may be attributed to recent economic conditions, as well as certain facilities reaching capacity.

Similarly, link volumes from the Super Regional Tidewater Super Regional model for the 2000 Base and 2034 No Build scenarios were compared, and an annual growth rate computed. The results are provided in Table 2. Results in Table 2 show annual link volume growth ranging from 0.4 to 2.1 percent. These projections are somewhat lower than historic growth trends, and indicate a combination of bottlenecks reaching capacity (such as the HRBT) and urban areas reaching full development. The Super Regional Model projects the largest traffic volume increases in the rural areas of the project, between I-295 and US 17 (Victory Boulevard).





Table 1 – Historic Traffic Volume Growth

| Link Description | | AADT By Year | | | | | | | | Annual Growth Rate | |
|------------------|--|--------------|--------|--------|---------|--------|---------|---------|---------|-----------------------|----------------|
| | | 1975 | 1980 | 1985 | 1990 | 1995 | 2000 | 2005 | 2010 | 1975 - 2010 | 2000 - 2010 |
| 1 | I-95 - Route 360 | 58,730 | 62,430 | 68,560 | 88,250 | 86,000 | 97,000 | 94,000 | 95,000 | 1.4% | -0.2% |
| 2 | Route 360 - Route 33 (Nine Mile Rd) | 46,600 | 48,560 | 53,235 | 66,570 | 84,000 | 75,000 | 74,000 | 75,000 | 1.4% | 0.0% |
| 3 | Route 33 (Nine Mile Rd) - Laburnum Ave | 36,250 | 42,370 | 43,260 | 53,690 | 62,000 | 68,000 | 58,000 | 60,000 | 1.5% | -1.2% |
| 4 | Laburnum Ave - Route 156 | 29,310 | 34,880 | 34,830 | 43,850 | 52,000 | 50,000 | 47,000 | 47,000 | 1.4% | -0.6% |
| 5 | Route 156 - I-295 | 29,310 | 24,420 | 24,840 | 31,690 | 52,000 | 31,000 | 32,000 | 34,000 | 0.4% | 0.9% |
| 6 | I-295 - Routes 33 & 249 | 18,965 | 25,810 | 30,195 | 39,850 | 47,000 | 62,000 | 68,000 | 68,000 | 3.7% | 0.9% |
| 7 | Route 33 & 249 - Route 106 | 15,400 | 22,360 | 25,470 | 33,520 | 45,000 | 40,000 | 55,000 | 61,000 | 4.0% | 4.3% |
| 8 | Route 106 - Route 155 | 15,400 | 22,360 | 25,470 | 32,380 | 44,000 | 41,000 | 51,000 | 61,000 | 4.0% | 4.1% |
| 9 | Route 155 - Route 33 (East) | 15,480 | 19,810 | 24,350 | 31,145 | 44,000 | 40,000 | 57,000 | 60,000 | 3.9% | 4.1% |
| 10 | Route 33 (East) - Route 30 (West) | 12,480 | 15,445 | 20,300 | 27,130 | 37,000 | 39,000 | 47,000 | 53,000 | 4.2% | 3.1% |
| 11 | Route 30 (West) - Route 30 (East)/Route 607 | 12,480 | 15,375 | 20,680 | 28,625 | 40,000 | 41,000 | 52,000 | 58,000 | 4.5% | 3.5% |
| 12 | Route 30 (East)/Route 607 - Route 199 (West) | 12,850 | 19,270 | 24,335 | 34,930 | 44,000 | 48,000 | 58,000 | 64,000 | 4.7% | 2.9% |
| 13 | Route 199 (North) - Route 143 (Camp Peary) | 13,390 | 19,270 | 24,335 | 34,930 | 44,000 | 54,000 | 58,000 | 61,000 | 4.4% | 1.2% |
| 14 | Route 143 - Route 199 (East) | 15,000 | 18,405 | 26,925 | 40,920 | 49,000 | 56,000 | 57,000 | 63,000 | 4.2% | 1.2% |
| 15 | Route 199 (South) - Exit 243A (Busch Gardens) | 15,000 | 19,870 | 29,895 | 51,475 | 54,000 | 60,000 | 80,000 | 81,000 | 4.9% | 3.0% |
| 16 | Exit 243A (Busch Gardens) - Route 238 (Yorktown) | 17,060 | 23,990 | 32,990 | 54,825 | 66,000 | 70,000 | 80,000 | 81,000 | 4.6% | 1.5% |
| 17 | Route 238 (Yorktown) - Route 105 (Ft. Eustis) | 18,905 | 23,990 | 32,990 | 56,975 | 71,000 | 71,000 | 86,000 | 88,000 | 4.5% | 2.2% |
| 18 | Route 105 (Ft. Eustis) - Route 143 (Jefferson Ave) | 24,520 | 27,950 | 38,220 | 61,890 | 78,000 | 77,000 | 96,000 | 96,000 | 4.0% | 2.2% |
| 19 | Route 143 (Jefferson Ave) - Route 171 (Victory Blvd) | 26,545 | 38,110 | 48,500 | 74,970 | 90,000 | 91,000 | 113,000 | 118,000 | 4.4% | 2.6% |
| 20 | Route 171 (Victory Blvd) - Route 17 | 26,545 | 38,110 | 48,500 | 74,970 | 90,000 | 122,000 | 124,000 | 132,000 | 4.7% | 0.8% |
| 21 | Route 17 - Hampton Roads Center Pkwy | 34,455 | 47,150 | 58,720 | 86,440 | 91,000 | 135,000 | 131,000 | 154,000 | 4.4% | 1.3% |
| 22 | Hampton Roads Center Pkwy - Route 258 (Mercury Blvd) | 39,095 | 60,810 | 75,120 | 101,730 | 91,000 | 132,000 | 146,000 | 160,000 | 4.1% | 1.9% |
| 23 | Route 258 (Mercury Blvd) - I-664 | 36,445 | 50,870 | 66,390 | 83,780 | 90,000 | 131,000 | 138,000 | 152,000 | 4.2% | 1.5% |
| 24 | I-664 - LaSalle Avenue | 37,880 | 50,630 | 63,890 | 80,160 | 92,000 | 104,000 | 110,000 | 112,000 | 3.1% | 0.7% |
| 25 | LaSalle Ave - Route 60 (Settlers Ldg Rd) | 33,970 | 47,010 | 56,300 | 80,890 | 90,000 | 102,000 | 97,000 | 89,000 | 2.8% | -1.4% |
| 26 | Route 60 (Settlers Ldg Rd) - Route 169 (Mallory St) | 21,710 | 42,795 | 54,890 | 82,160 | 91,000 | 101,000 | 98,000 | 87,000 | 4.0% | -1.5% |
| 27 | Route 169 (Mallory St) - HRBT | 24,040 | 44,850 | 65,990 | 77,140 | 91,000 | 91,000 | 91,000 | 85,000 | 3.7% | -0.7% |





Table 2 – Tidewater Super Regional Model Results, Mainline Links

| Link Description | | 2000 Dail | - | | y Volume | Annual Growth Rate | |
|------------------|--|-----------|--------|--------|----------|--------------------|------|
| | | EB | WB | EB | WB | EB | WB |
| 1 | I-95 - Route 360 | 33,788 | 36,932 | 47,511 | 48,701 | 1.0% | 0.8% |
| 2 | Route 360 - Route 33 (Nine Mile Rd) | 41,487 | 40,699 | 48,503 | 49,345 | 0.5% | 0.6% |
| 3 | Route 33 (Nine Mile Rd) - Laburnum Ave | 39,202 | 36,579 | 44,804 | 43,523 | 0.4% | 0.5% |
| 4 | Laburnum Ave - Route 156 | 35,481 | 33,304 | 42,618 | 40,063 | 0.5% | 0.5% |
| 5 | Route 156 - I-295 | 29,485 | 26,662 | 39,768 | 38,816 | 0.9% | 1.1% |
| 6 | I-295 - Routes 33 & 249 | 33,381 | 33,315 | 52,205 | 55,488 | 1.3% | 1.5% |
| 7 | Route 33 & 249 - Route 106 | 28,032 | 28,365 | 45,001 | 49,018 | 1.4% | 1.6% |
| 8 | Route 106 - Route 155 | 28,980 | 29,419 | 45,342 | 48,935 | 1.3% | 1.5% |
| 9 | Route 155 - Route 33 (East) | 28,882 | 28,923 | 44,527 | 47,400 | 1.3% | 1.5% |
| 10 | Route 33 (East) - Route 30 (West) | 23,522 | 23,540 | 35,874 | 38,755 | 1.2% | 1.5% |
| 11 | Route 30 (West) - Route 30 (East)/Route 607 | 24,078 | 24,087 | 38,445 | 39,496 | 1.4% | 1.5% |
| 12 | Route 30 (East)/Route 607 - Route 199 (West) | 27,143 | 27,159 | 52,770 | 55,394 | 2.0% | 2.1% |
| 13 | Route 199 (North) - Route 143 (Camp Peary) | 27,351 | 27,293 | 48,512 | 50,679 | 1.7% | 1.8% |
| 14 | Route 143 - Route 199 (East) | 26,316 | 26,211 | 45,393 | 46,818 | 1.6% | 1.7% |
| 15 | Route 199 (South) - Exit 243A (Busch Gardens) | 37,693 | 37,741 | 58,835 | 56,147 | 1.3% | 1.2% |
| 16 | Exit 243A (Busch Gardens) - Route 238 (Yorktown) | 42,627 | 42,660 | 60,310 | 63,670 | 1.0% | 1.2% |
| 17 | Route 238 (Yorktown) - Route 105 (Ft. Eustis) | 42,729 | 42,689 | 62,162 | 64,905 | 1.1% | 1.2% |
| 18 | Route 105 (Ft. Eustis) - Route 143 (Jefferson Ave) | 45,329 | 45,029 | 80,029 | 81,377 | 1.7% | 1.8% |
| 19 | Route 143 (Jefferson Ave) - Route 171 (Victory Blvd) | 52,960 | 52,775 | 79,152 | 81,423 | 1.2% | 1.3% |
| 20 | Route 171 (Victory Blvd) - Route 17 | 54,890 | 54,677 | 82,509 | 84,975 | 1.2% | 1.3% |
| 21 | Route 17 - Hampton Roads Center Pkwy | 64,513 | 64,165 | 86,291 | 87,983 | 0.9% | 0.9% |
| 22 | Hampton Roads Center Pkwy - Route 258 (Mercury Blvd) | 51,539 | 50,313 | 79,586 | 79,820 | 1.3% | 1.4% |
| 23 | Route 258 (Mercury Blvd) - I-664 | 54,624 | 55,676 | 96,255 | 99,050 | 1.7% | 1.7% |
| 24 | I-664 - LaSalle Avenue | 48,777 | 46,941 | 60,877 | 60,802 | 0.7% | 0.8% |
| 25 | LaSalle Ave - Route 60 (Settlers Ldg Rd) | 49,131 | 43,057 | 62,766 | 59,959 | 0.7% | 1.0% |
| 26 | Route 60 (Settlers Ldg Rd) - Route 169 (Mallory St) | 38,835 | 38,921 | 54,265 | 55,951 | 1.0% | 1.1% |
| 27 | Route 169 (Mallory St) – HRBT | 39,330 | 39,394 | 54,716 | 56,552 | 1.0% | 1.1% |





Table 3 – Tidewater Super Regional Model Results, Cross Street Links

| | | 2000 Daily Volume | | 2034 Dail | y Volume | Annual Growth Rate | | |
|------|--------------------------------------|-------------------|--------|-----------|----------|--------------------|-------|--|
| Exit | Cross Street | North | South | North | South | North | South | |
| 190 | I-95 | 101,563 | 83,853 | 114,809 | 95,588 | 0.4% | 0.4% | |
| 192 | Route 360 | 33,448 | 33,601 | 51,353 | 41,405 | 1.3% | 0.6% | |
| 193 | Route 33 (Nine Mile Rd) | 20,570 | 9,602 | 22,451 | 10,832 | 0.3% | 0.4% | |
| 195 | Laburnum Ave | 8,445 | 15,777 | 18,390 | 26,197 | 2.3% | 1.5% | |
| 197 | Route 156 | 23,441 | 21,969 | 30,098 | 31,217 | 0.7% | 1.0% | |
| 200 | I-295 | 68,419 | 64,557 | 97,976 | 93,302 | 1.1% | 1.1% | |
| 205 | Route 33 & 249 | 6,405 | 9,891 | 7,692 | 11,907 | 0.5% | 0.5% | |
| 211 | Route 106 | 2,378 | 1,566 | 7,434 | 4,097 | 3.4% | 2.9% | |
| 214 | Route 155 | 100 | 1,096 | 2,791 | 6,077 | 10.3% | 5.2% | |
| 220 | Route 33 (East) | 10,743 | - | 17,298 | - | 1.4% | - | |
| 227 | Route 30 (West) | 1,966 | 831 | 20,002 | 15,889 | 7.1% | 9.1% | |
| 231 | Route 30 (East)/Route 607 | 2,811 | 6,000 | 18,695 | 21,299 | 5.7% | 3.8% | |
| 234 | Route 199 (North) | 6,720 | 12,008 | 16,244 | 35,196 | 2.6% | 3.2% | |
| 238 | Route 143 | 1,364 | 3,244 | 1,874 | 15,283 | 0.9% | 4.7% | |
| 242 | Route 199 (South) | 3,421 | 28,349 | 21,423 | 55,048 | 5.5% | 2.0% | |
| 243 | Exit 243A (Busch Gardens) | - | 12,015 | - | 37,174 | - | 3.4% | |
| 247 | Route 238 (Yorktown) | 13,795 | 12,771 | 19,551 | 20,416 | 1.0% | 1.4% | |
| 250 | Route 105 (Ft. Eustis) | 14,859 | 31,988 | 28,307 | 66,573 | 1.9% | 2.2% | |
| 255 | Route 143 (Jefferson Ave) | 57,832 | 41,442 | 76,685 | 70,360 | 0.8% | 1.6% | |
| 256 | Route 171 (Victory Blvd) | 40,670 | 28,007 | 63,511 | 48,703 | 1.3% | 1.6% | |
| 258 | Route 17 (J. Clyde Morris Boulevard) | 36,975 | 45,827 | 47,859 | 58,048 | 0.8% | 0.7% | |
| 261 | Hampton Roads Center Pkwy | 31,482 | 26,862 | 60,304 | 74,459 | 1.9% | 3.0% | |
| 262 | Magruder Boulevard | 21,818 | - | 33,812 | - | 1.3% | - | |
| 263 | Route 258 (Mercury Blvd) | 30,871 | 45,429 | 43,573 | 63,602 | 1.0% | 1.0% | |
| 264 | 1-664 | - | 46,163 | - | 93,290 | - | 2.1% | |





Table 3 provides model output for the cross streets. This table provides the combined daily volume for links immediately to the north and south of each interchange. The growth rates for the cross street are generally slightly higher than the mainline growth rates, which is due in part to the lower starting volumes on the cross streets. The highest cross street growth rates are found on links that represent the edges of the Richmond and Hampton Roads models (Exits 214 - 231). Travel Demand Model performance at the edges of a network tends to be unreliable due to the sparseness of the modeled roadway network and the proximity of external zones, so these volume increases must be examined closely during post processing.

In addition, the growth rate along Hampton Roads Center Parkway is artificially high because the base model (year 2000) did not include the now-constructed extension to Harpersville Road.

As an additional check on growth, changes in land use information (population and total employment) provided in the Tidewater Super Regional Model was plotted for each Transportation Analysis Zone (TAZ) within the study area. This allowed for a check of the changes in land use against the model-projected growth. These plots showed generally similar population and employment trends, with population generally increasing along the I-64 corridor. The highest percentage population increases were generally found in the rural areas of the corridor. Population decreases are projected mostly in the Hampton Roads area along sections of the waterfront that are home to military facilities.

Employment follows somewhat similar trends, with employment projected to decline in urban areas, but showing modest increases in rural areas of the corridor.

These land use plots were used to validate the boundaries between "urban" and "rural" growth areas.

The plots are included in Attachment A.

As denoted in Table 2 by the heavy borders, approximate boundaries of urban and rural areas were identified. The urban areas were selected from I-95 to I-295 in the Richmond area, and from US 17 (Victory Boulevard) to the HRBT in the Hampton Roads area. These areas were also selected as the threshold for urban and rural growth areas.

After the three areas were selected, the growth rates projected by the Tidewater model were averaged and rounded to the nearest 0.1 percent. The model was selected as the primary source for the overall growth rates, because it is a forward-looking tool (unlike the historic growth rates), and incorporates approved land use forecasts and accepted modeling protocols. Historic growth rates should be used with caution, in particular along extended projects such as the I-64 Peninsula EIS, because they are less able to factor in future development patterns, capacity constraints and diversion to other facilities, new roadway projects, and other factors that influence traffic patterns (such as tolls). However, they serve as a reasonableness check on growth rates developed from other sources.

The procedure outlined above yielded the following proposed annual growth rates for the mainline links:

Richmond urban area: 0.7%/year Peninsula rural area: 1.5%/year Hampton Roads urban area: 1.1%/year





These growth rates are higher in the Richmond and Hampton Roads urban areas, compared to average growth since 2000 (which were -0.2% and 0.6%, respectively). However, the past 10 years included the effects of the 2008 economic recession which resulted in nationwide declines in traffic volumes. It is not realistic to expect these slow growth trends to continue over the next 30 years.

The proposed growth rate for the rural area is lower than the average growth rate for the past 10 years (2.6%); however, growth of such magnitude is unlikely to be sustained over the next 30 years.





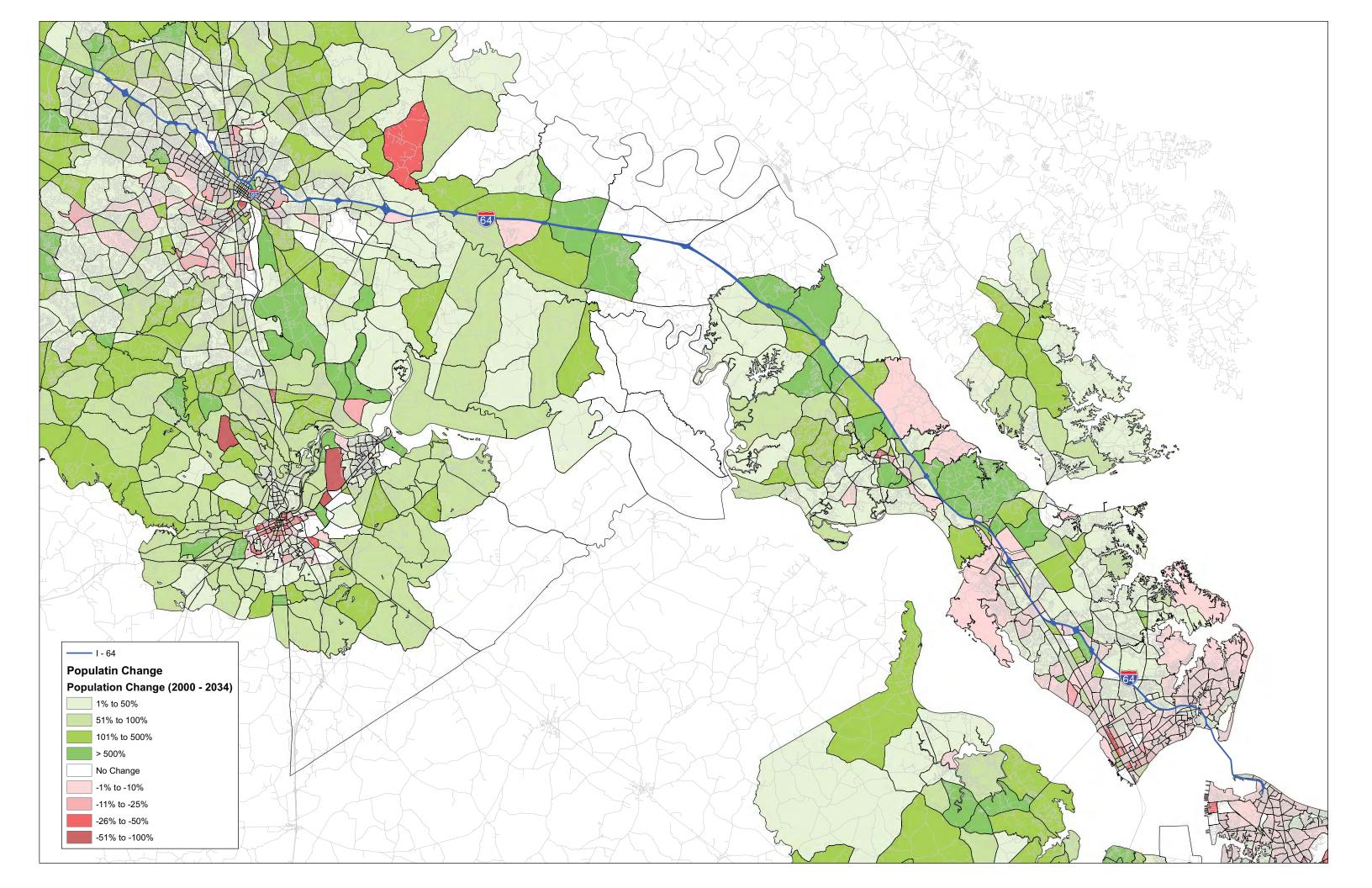


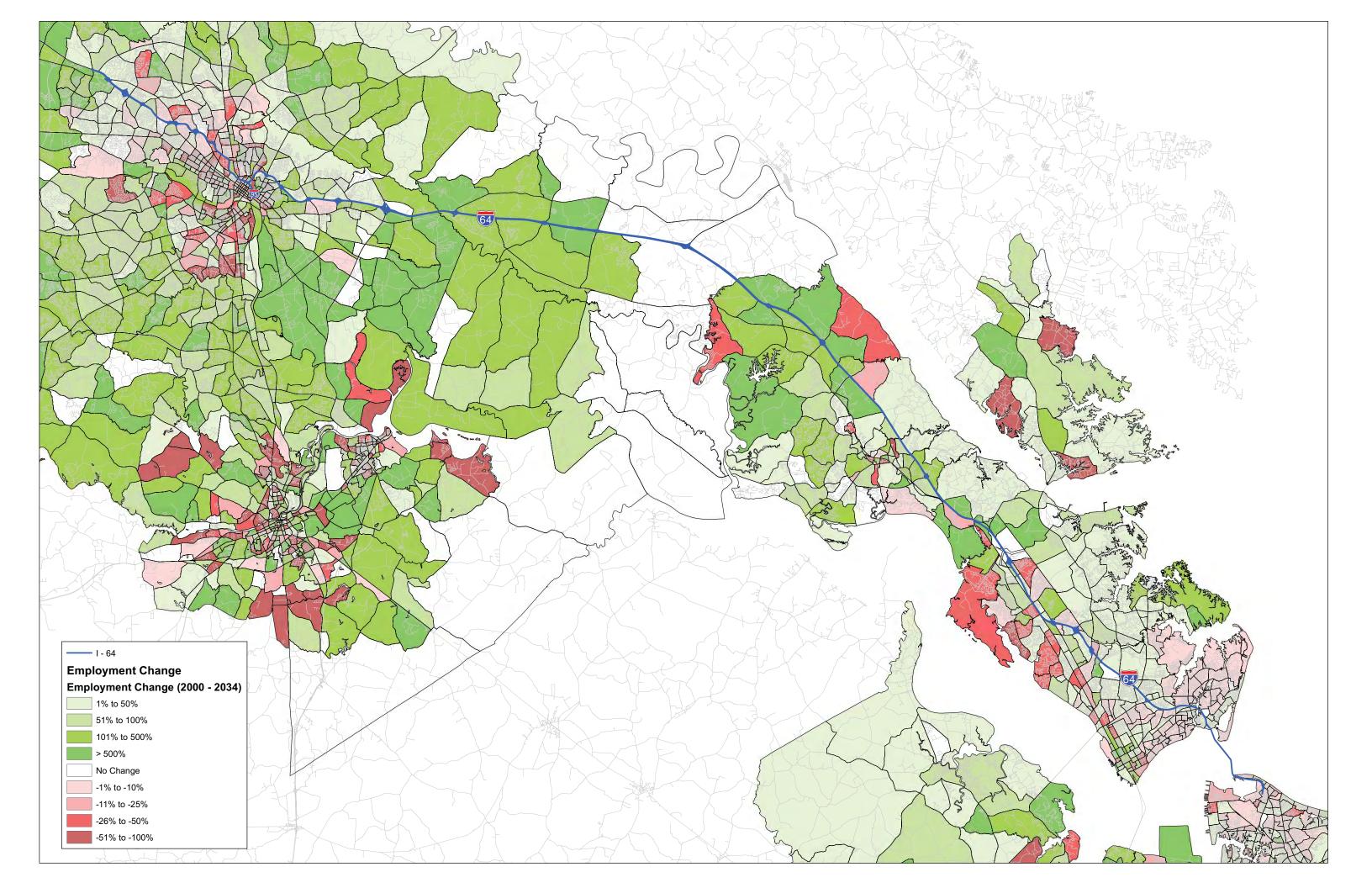
ATTACHMENT A

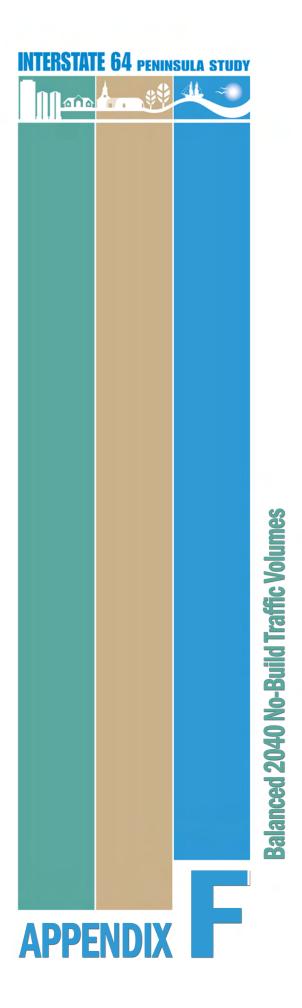
LAND USE PLOTS











FINAL Updated 6/7/2012

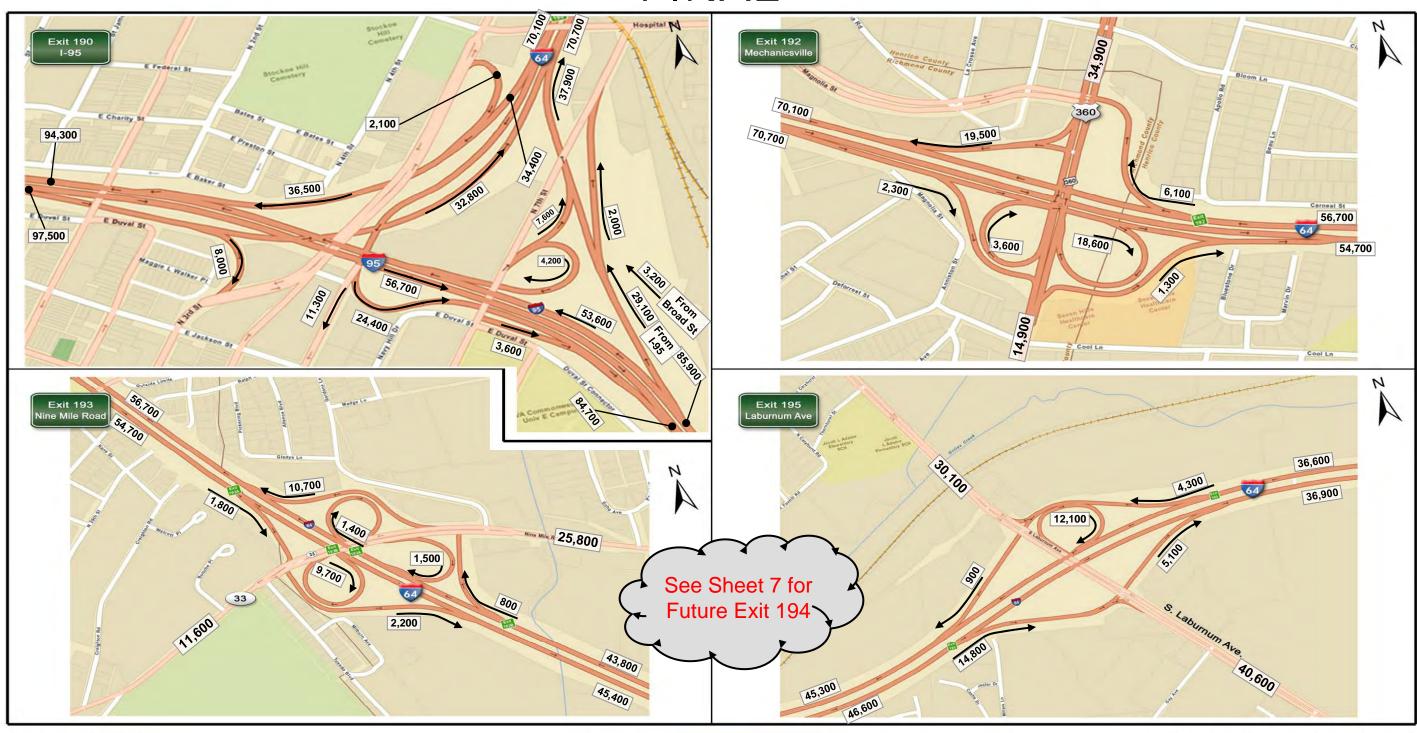






FIGURE 3: ADT Volumes

No Build 2040 Balanced Volumes

Sheet 1 of 7

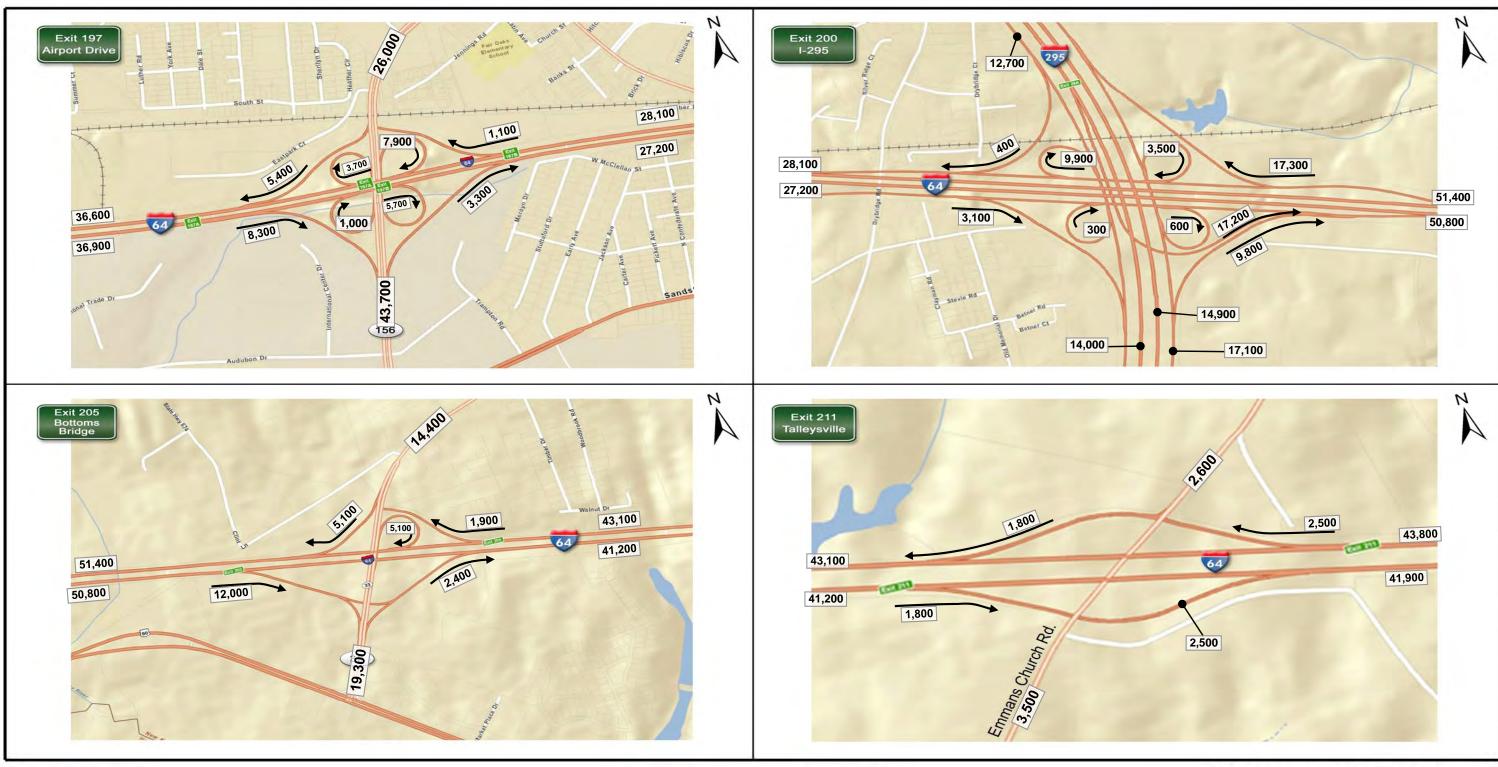






FIGURE 3: ADT Volumes

No Build 2040 Balanced Volumes

Sheet 2 of 7

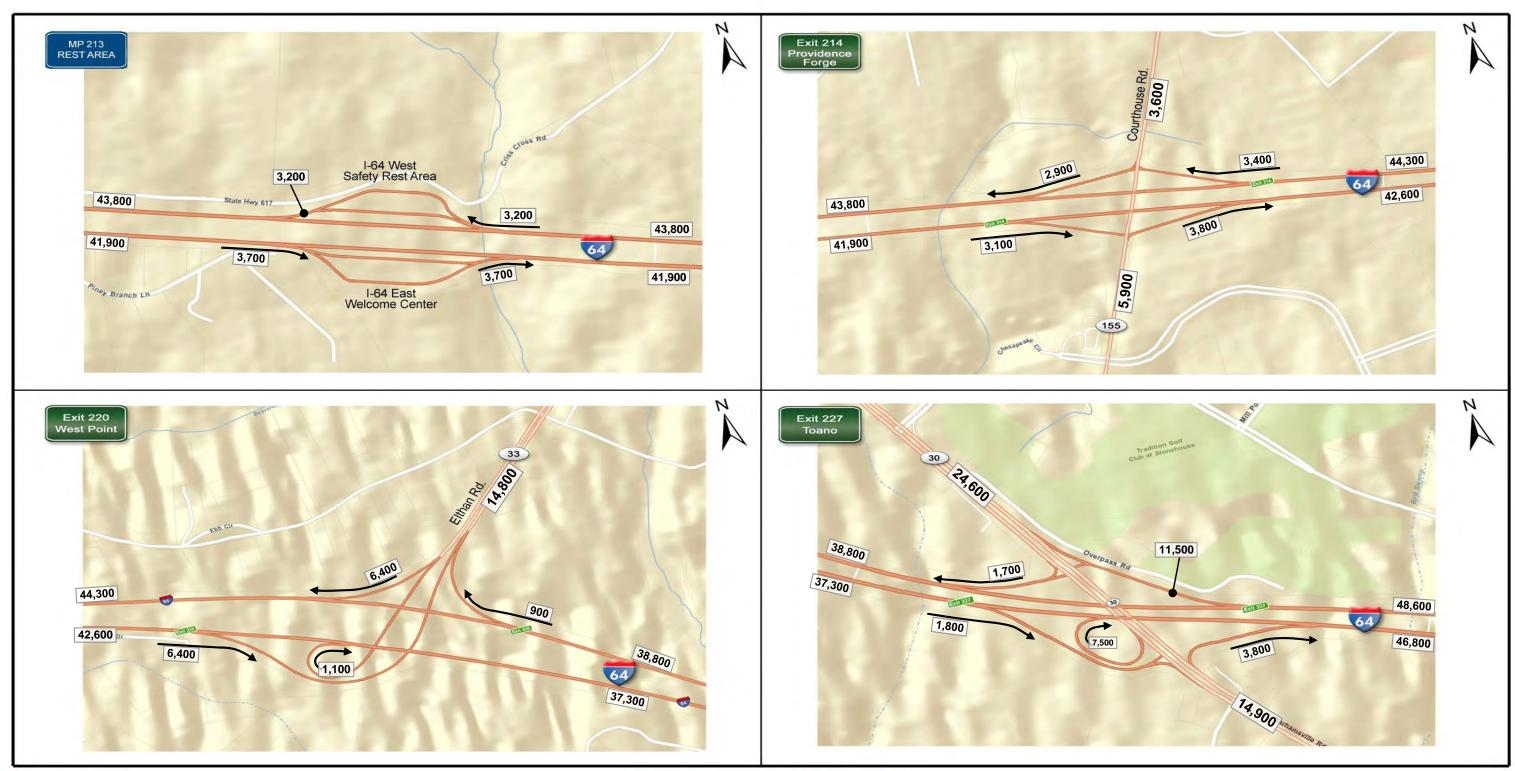






FIGURE 3: ADT Volumes

No Build 2040 Balanced Volumes

Sheet 3 of 7

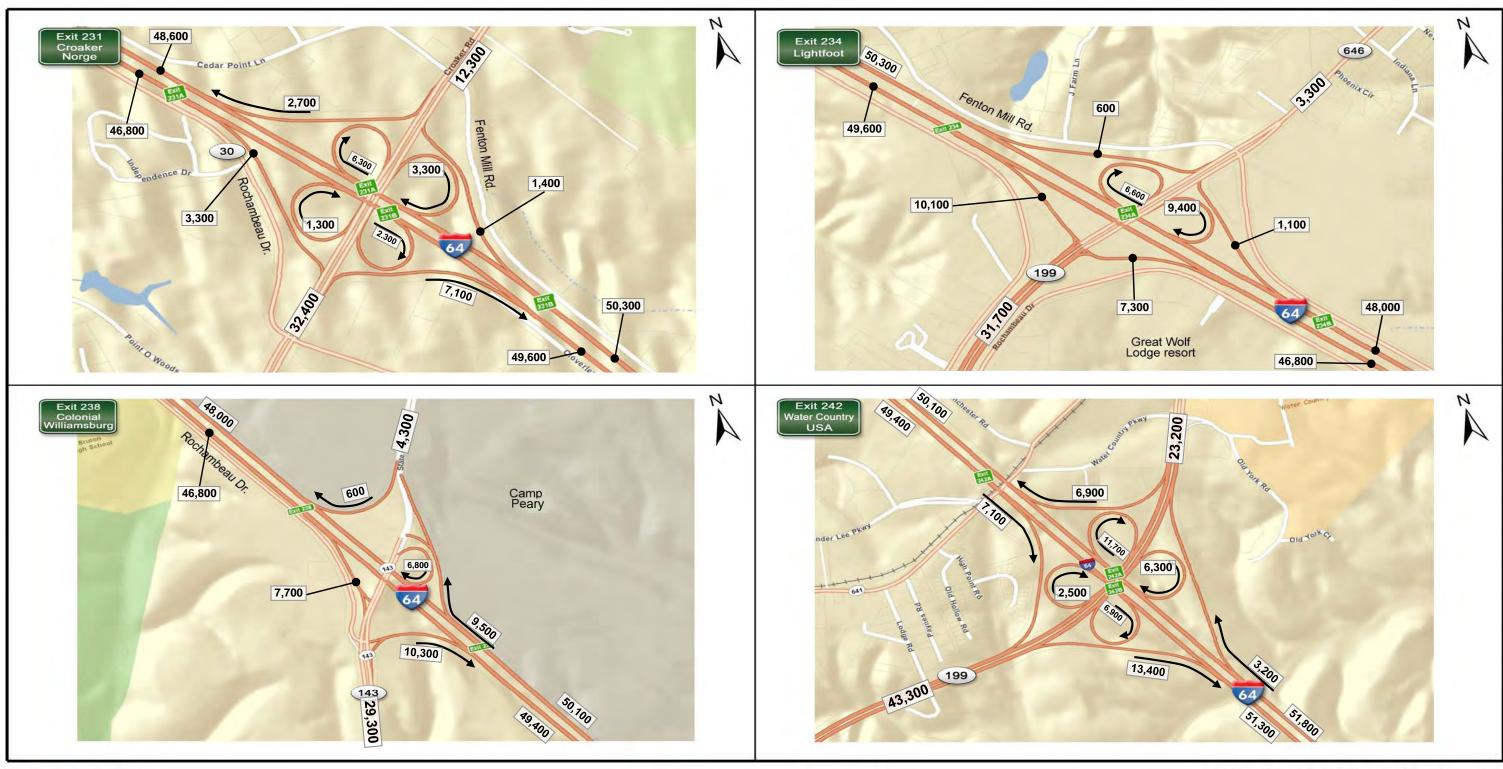




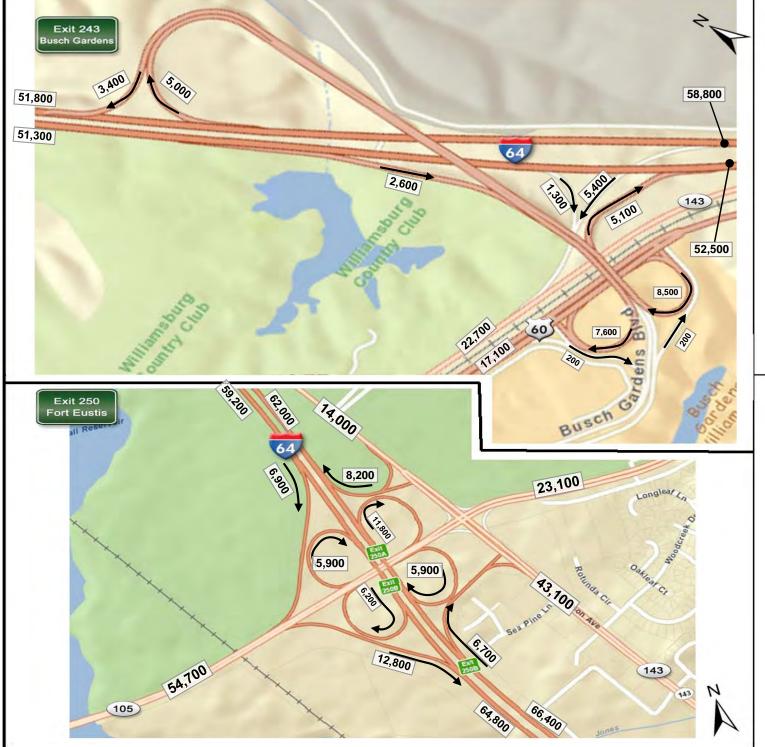


FIGURE 3: ADT Volumes

No Build 2040 Balanced Volumes

Sheet 4 of 7

FINAL





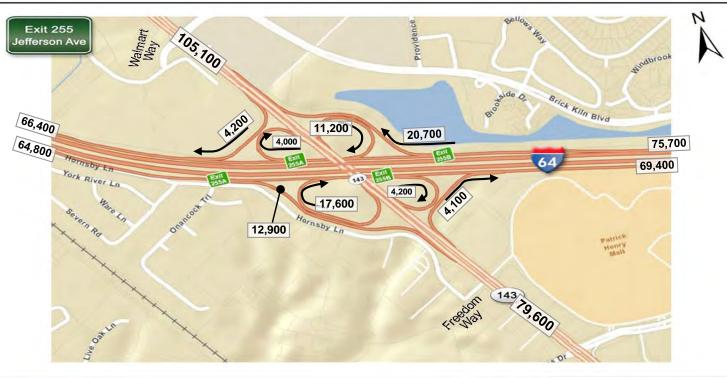






FIGURE 3: ADT Volumes

No Build 2040 Balanced Volumes

Sheet 5 of 7

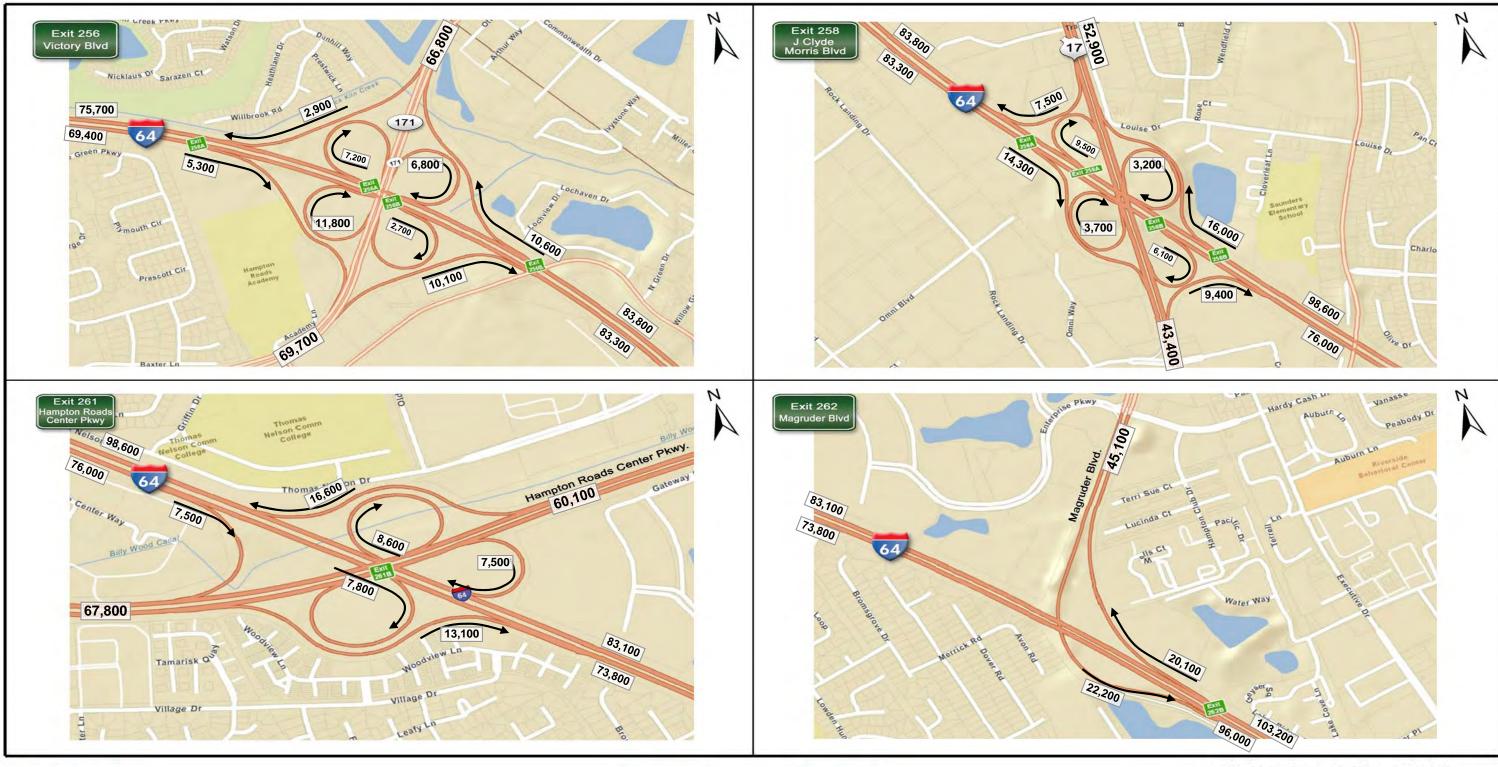




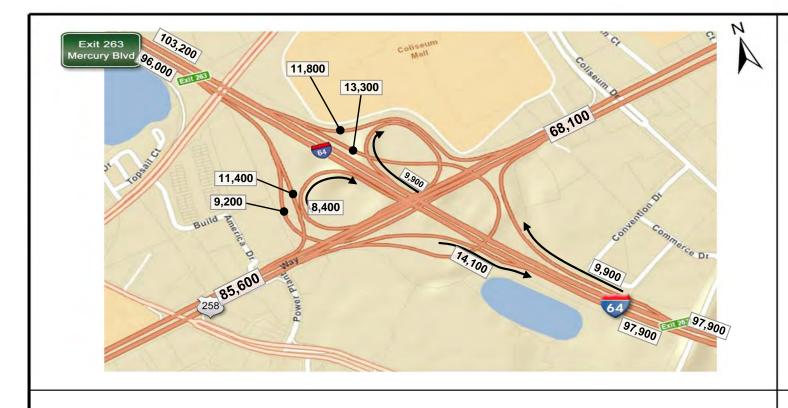


FIGURE 3: ADT Volumes

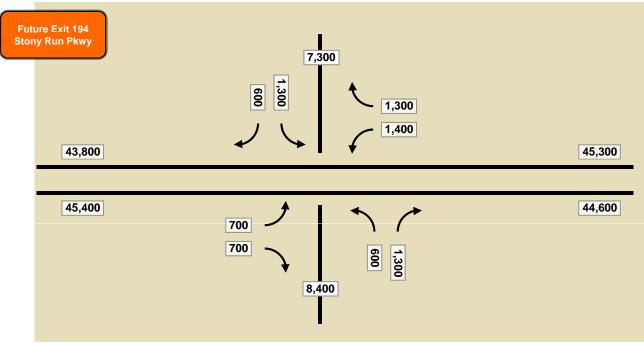
No Build 2040 Balanced Volumes

Sheet 6 of 7

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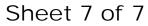








ADT Volumes No Build 2040 Balanced Volumes







FINAL Updated 6/7/12

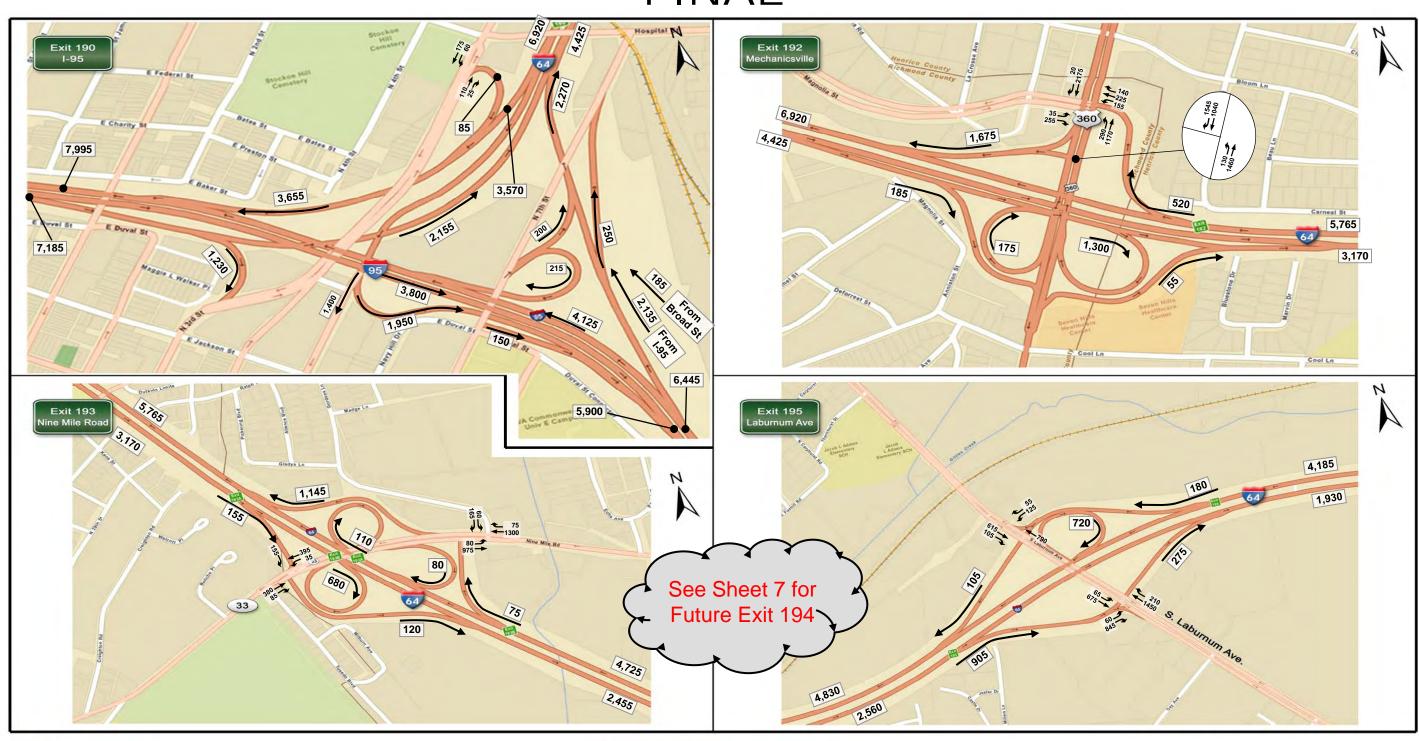






FIGURE 1: AM Peak Hour Volumes
2040 No Build Balanced Volumes
Sheet 1 of 7

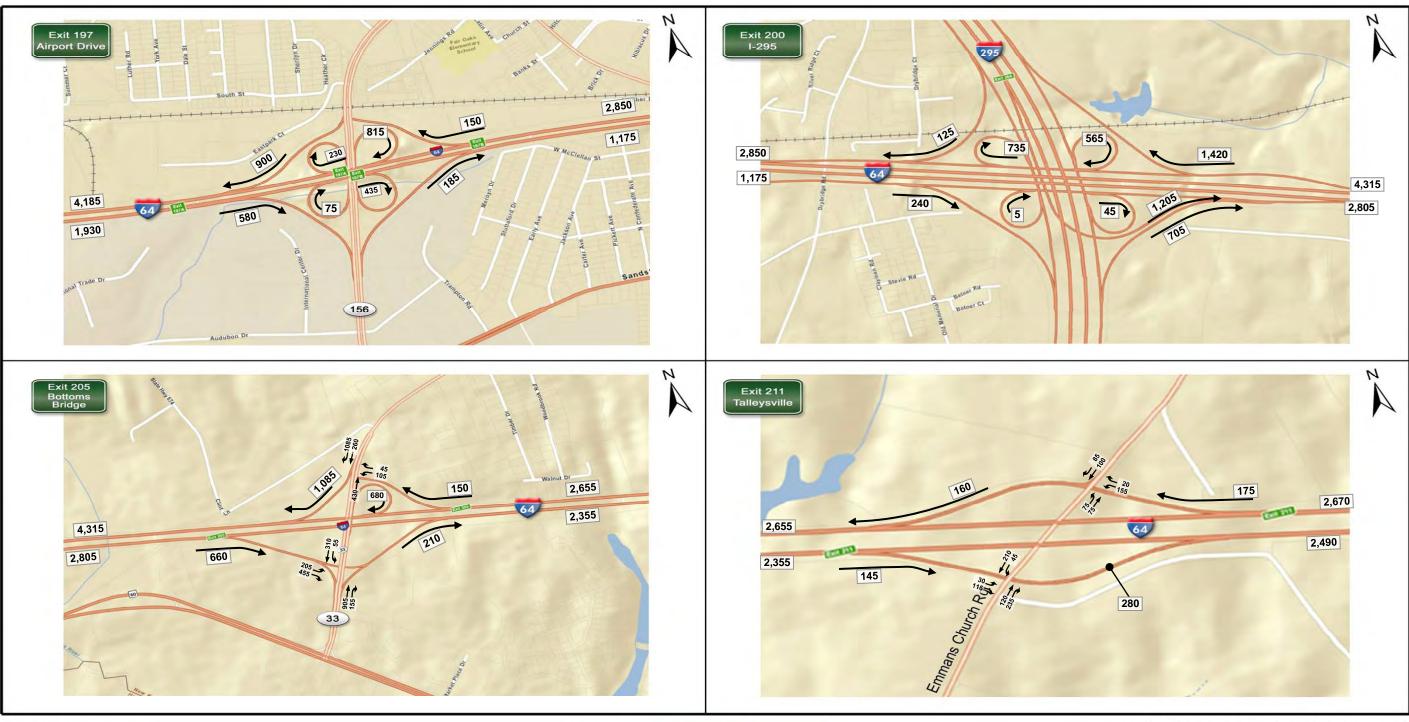






FIGURE 1: AM Peak Hour Volumes
2040 No Build Balanced Volumes
Sheet 2 of 7

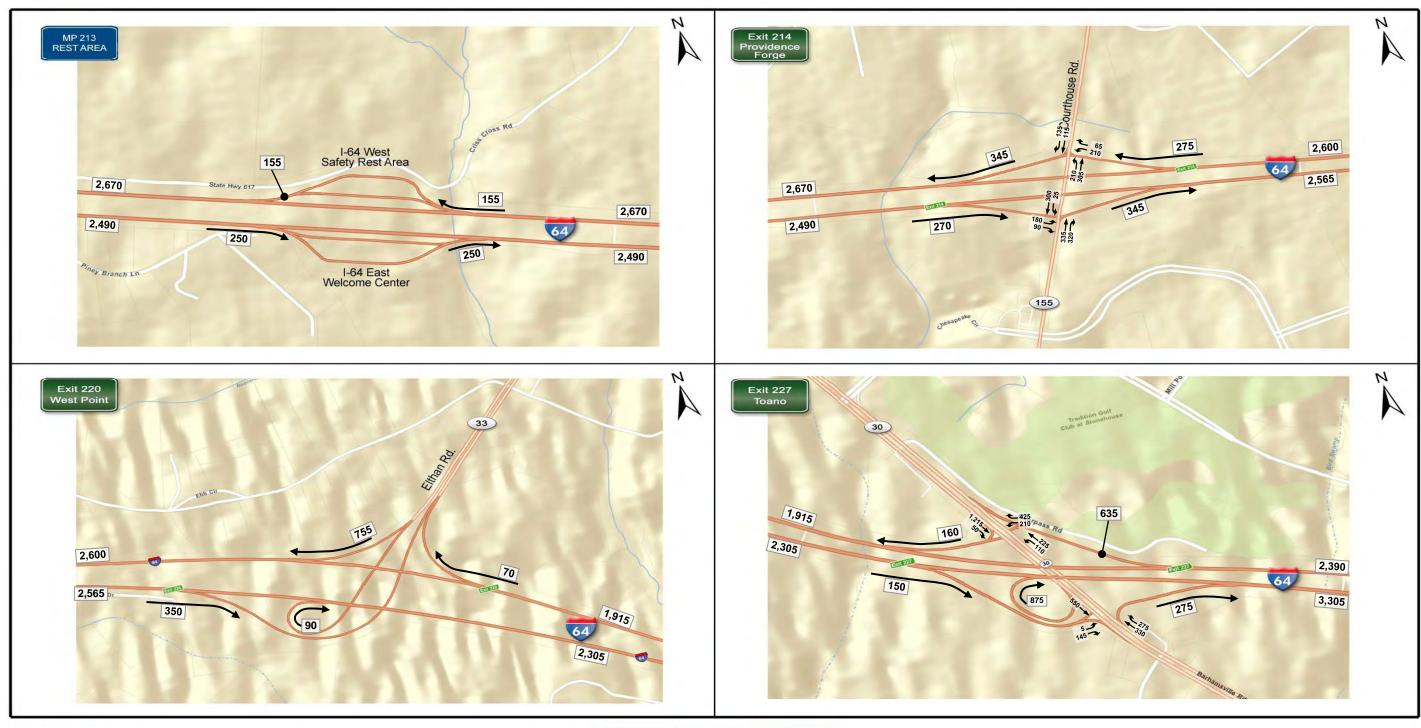






FIGURE 1: AM Peak Hour Volumes
2040 No Build Balanced Volumes
Sheet 3 of 7

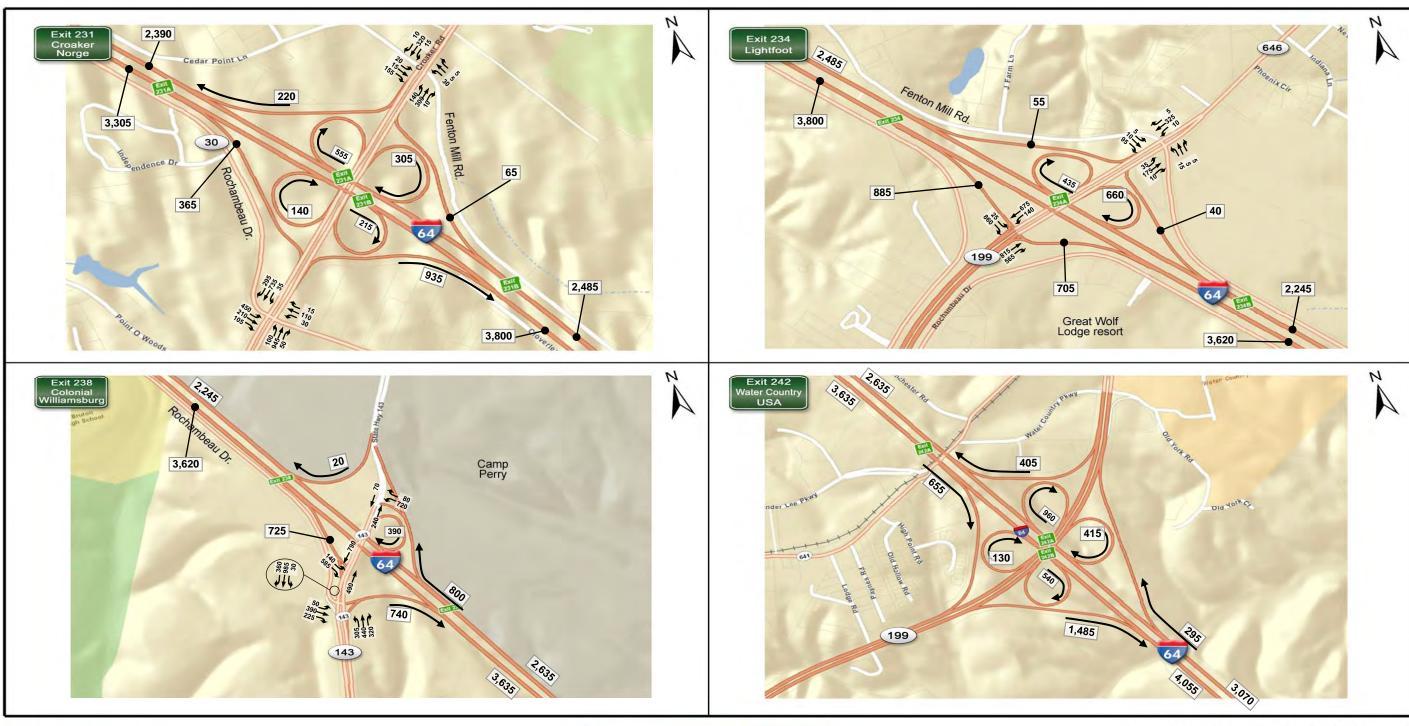






FIGURE 1: AM Peak Hour Volumes
2040 No Build Balanced Volumes
Sheet 4 of 7

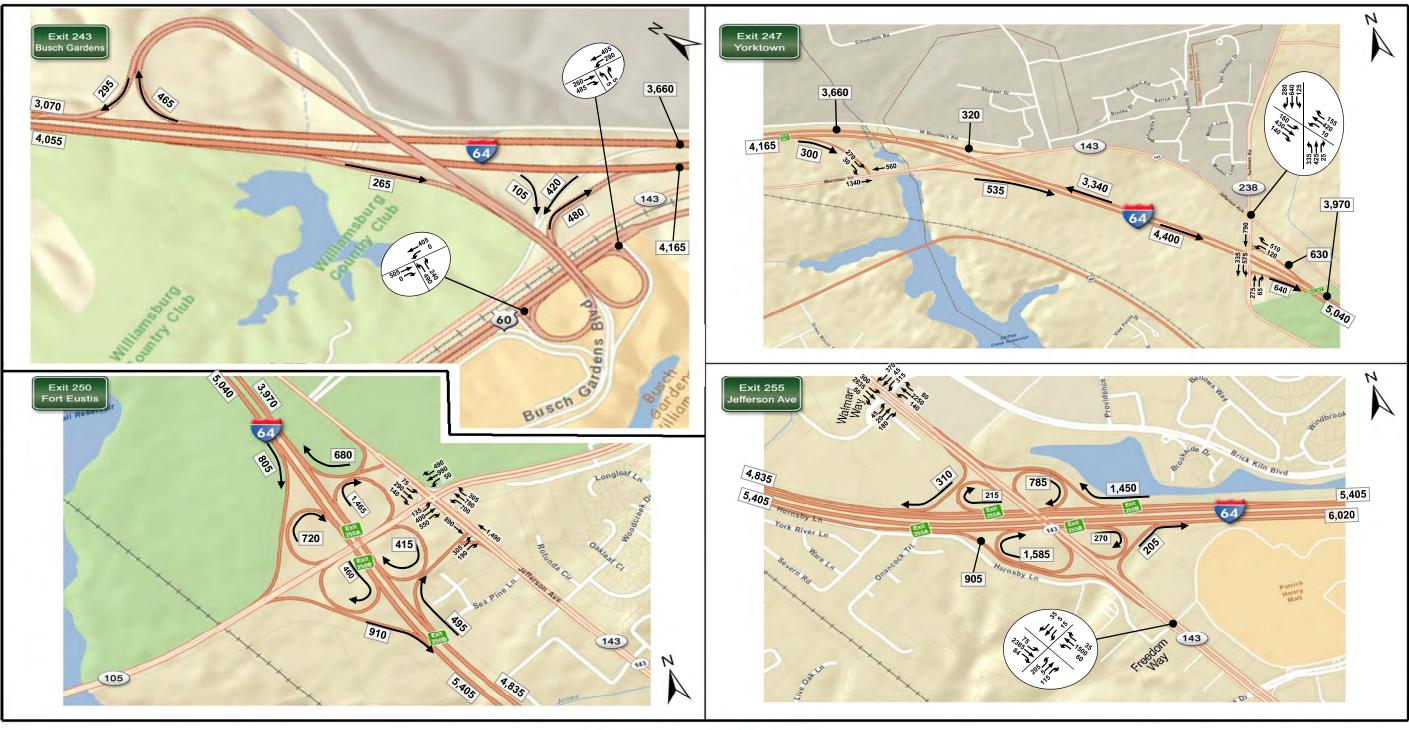






FIGURE 1: AM Peak Hour Volumes
2040 No Build Balanced Volumes
Sheet 5 of 7

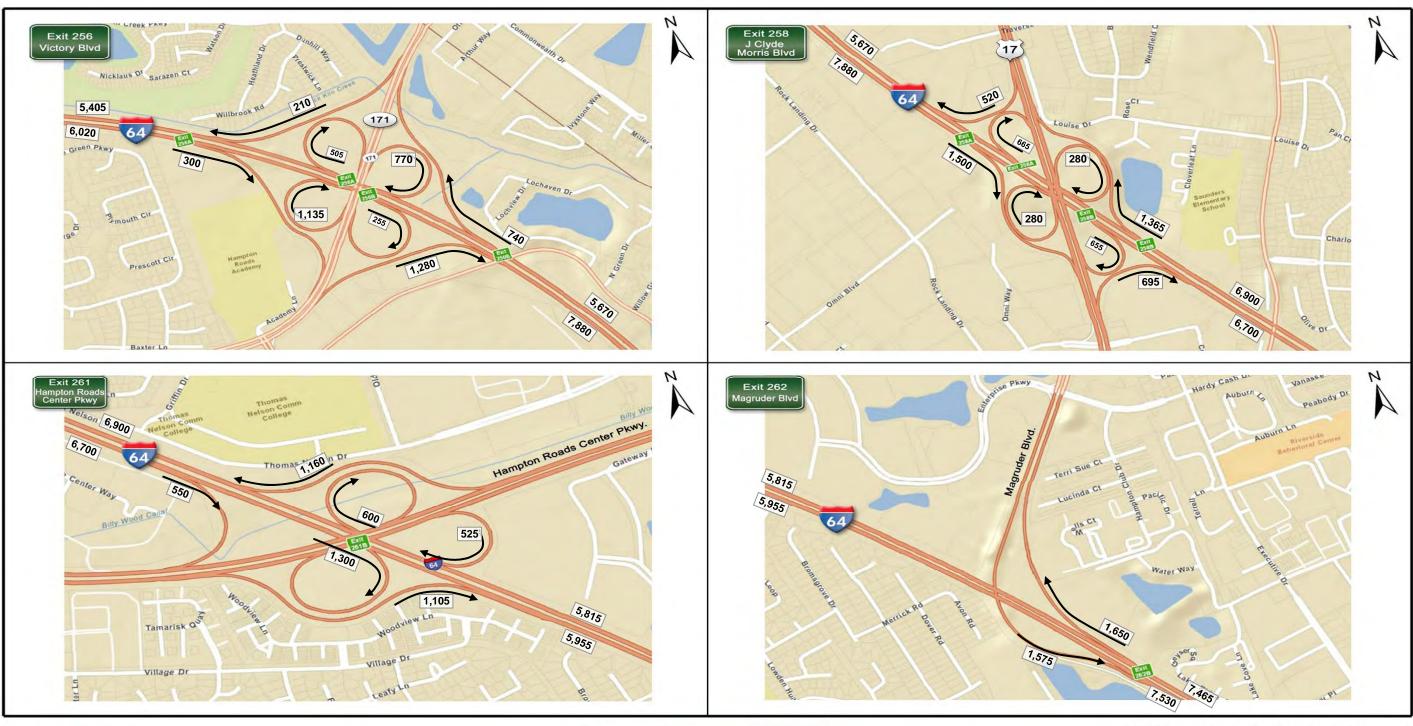






FIGURE 1: AM Peak Hour Volumes
2040 No Build Balanced Volumes
Sheet 6 of 7

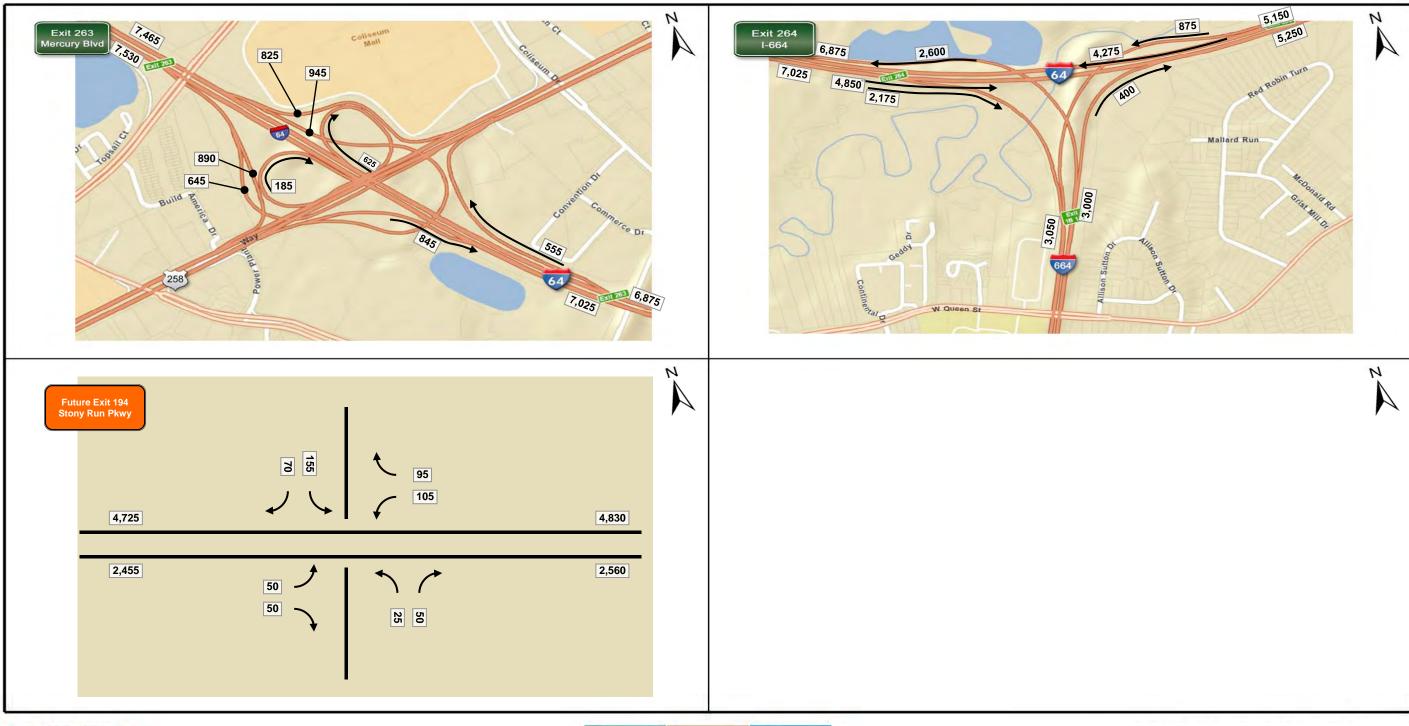






FIGURE 1: AM Peak Hour Volumes
2040 No Build Balanced Volumes

Sheet 7 of 7

FINAL Updated 6/7/12

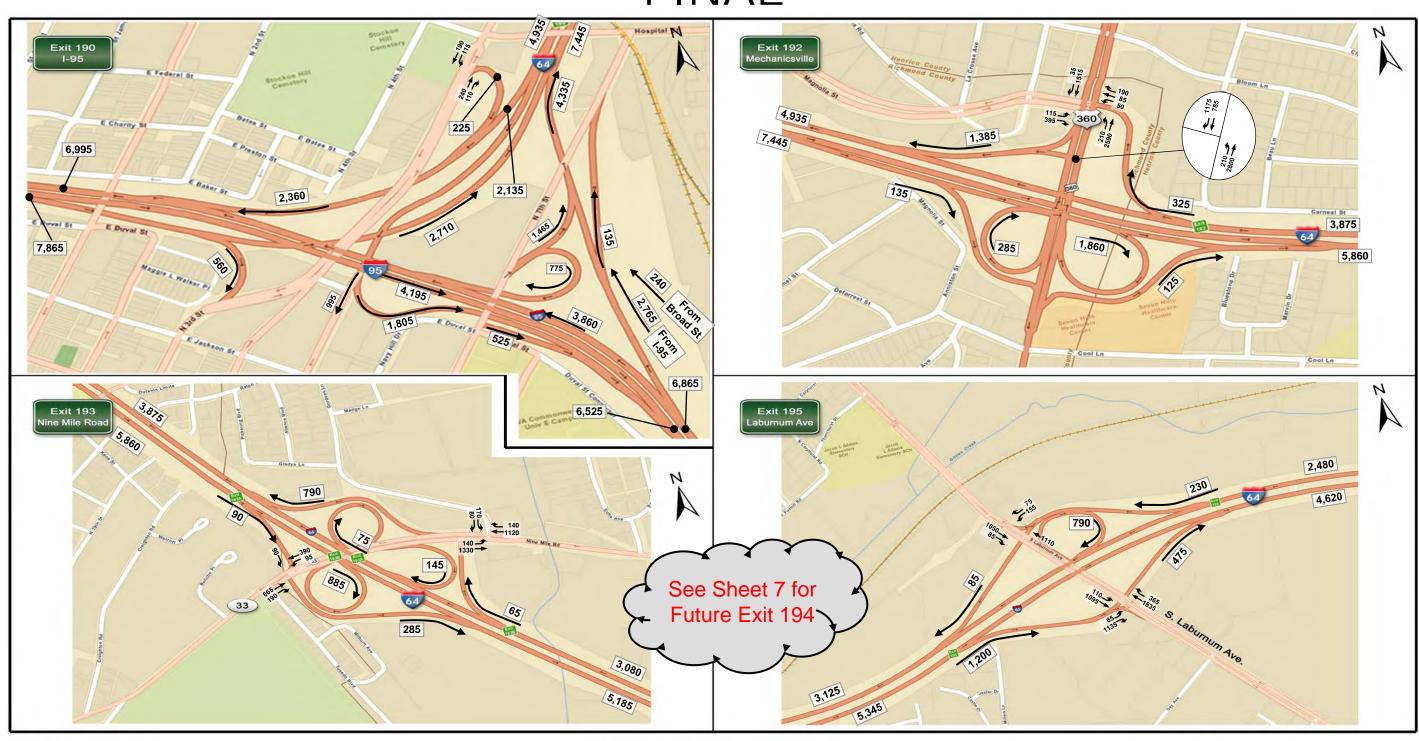






FIGURE 2: PM Peak Hour Volumes
2040 No Build Balanced Volumes
Sheet 1 of 7

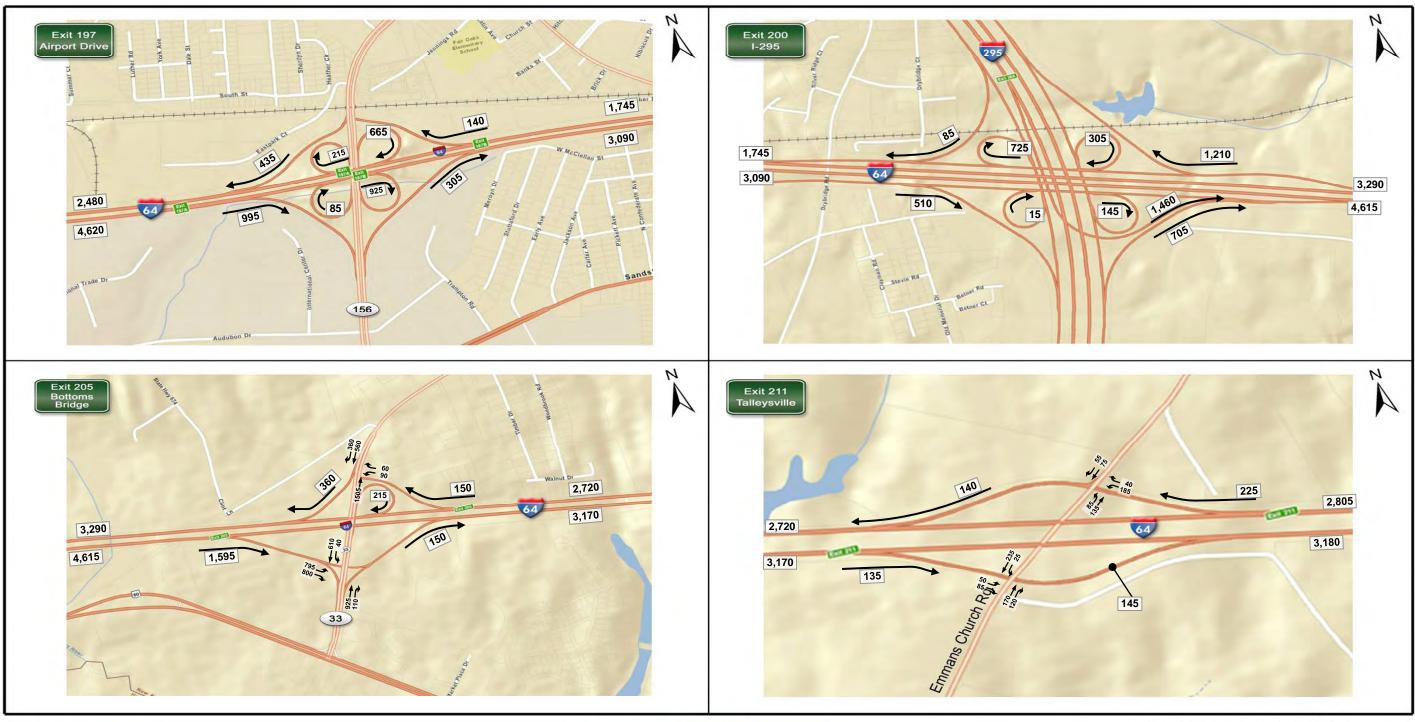






FIGURE 2: PM Peak Hour Volumes
2040 No Build Balanced Volumes
Sheet 2 of 7

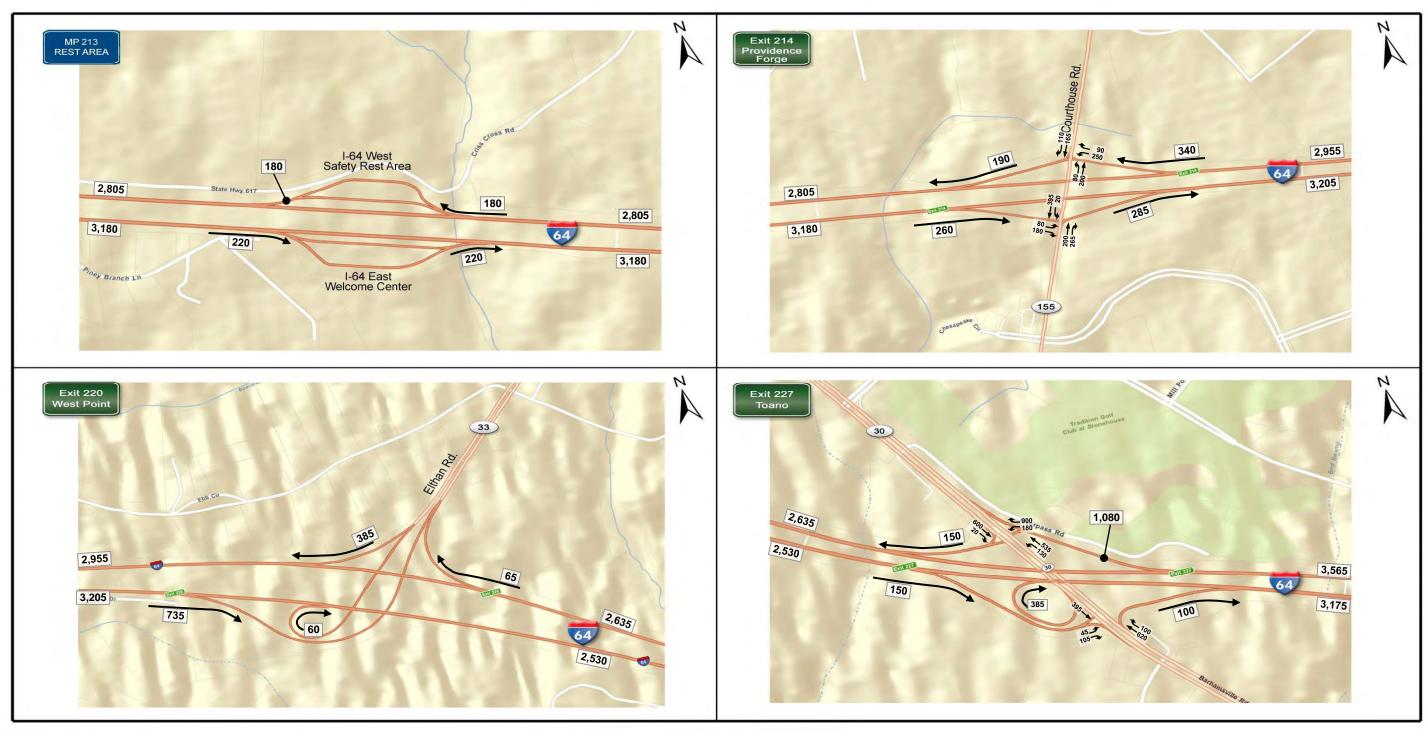






FIGURE 2: PM Peak Hour Volumes
2040 No Build Balanced Volumes
Sheet 3 of 7

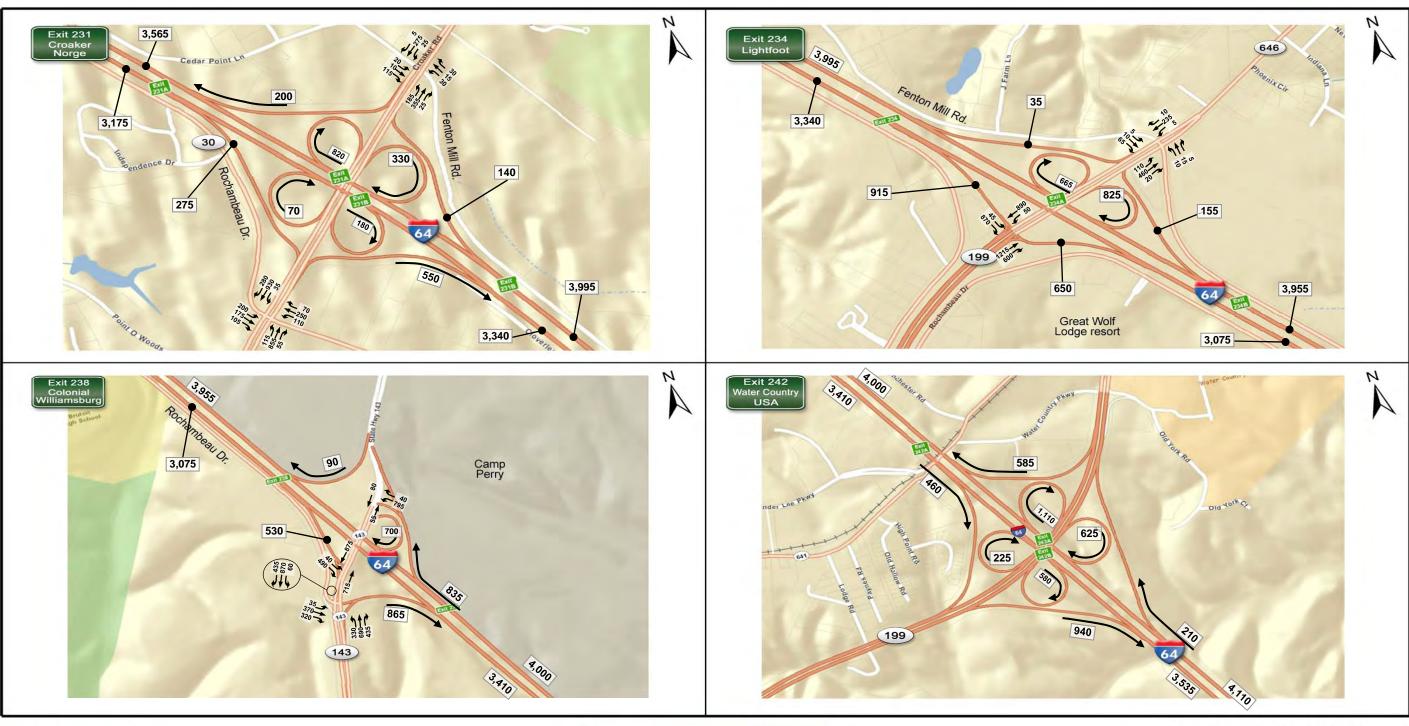






FIGURE 2: PM Peak Hour Volumes
2040 No Build Balanced Volumes
Sheet 4 of 7

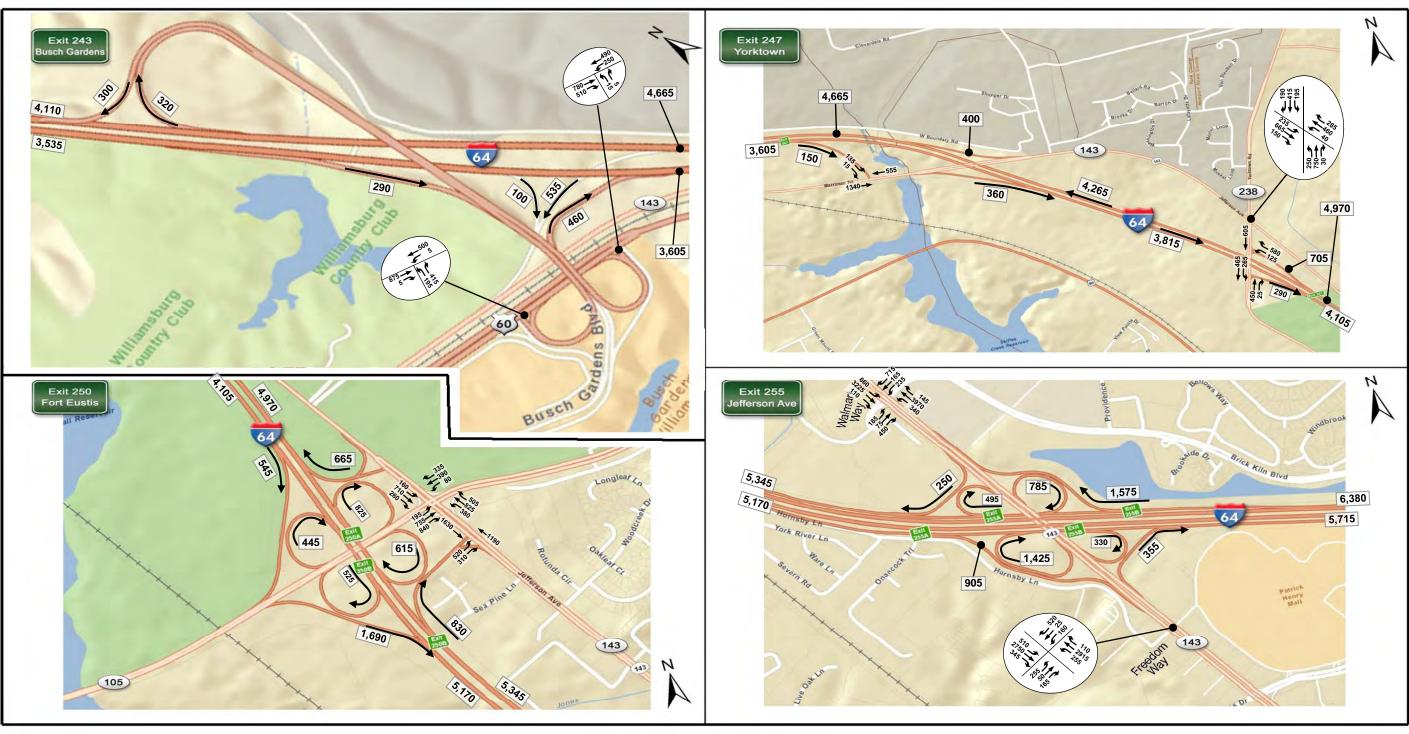






FIGURE 2: PM Peak Hour Volumes
2040 No Build Balanced Volumes
Sheet 5 of 7

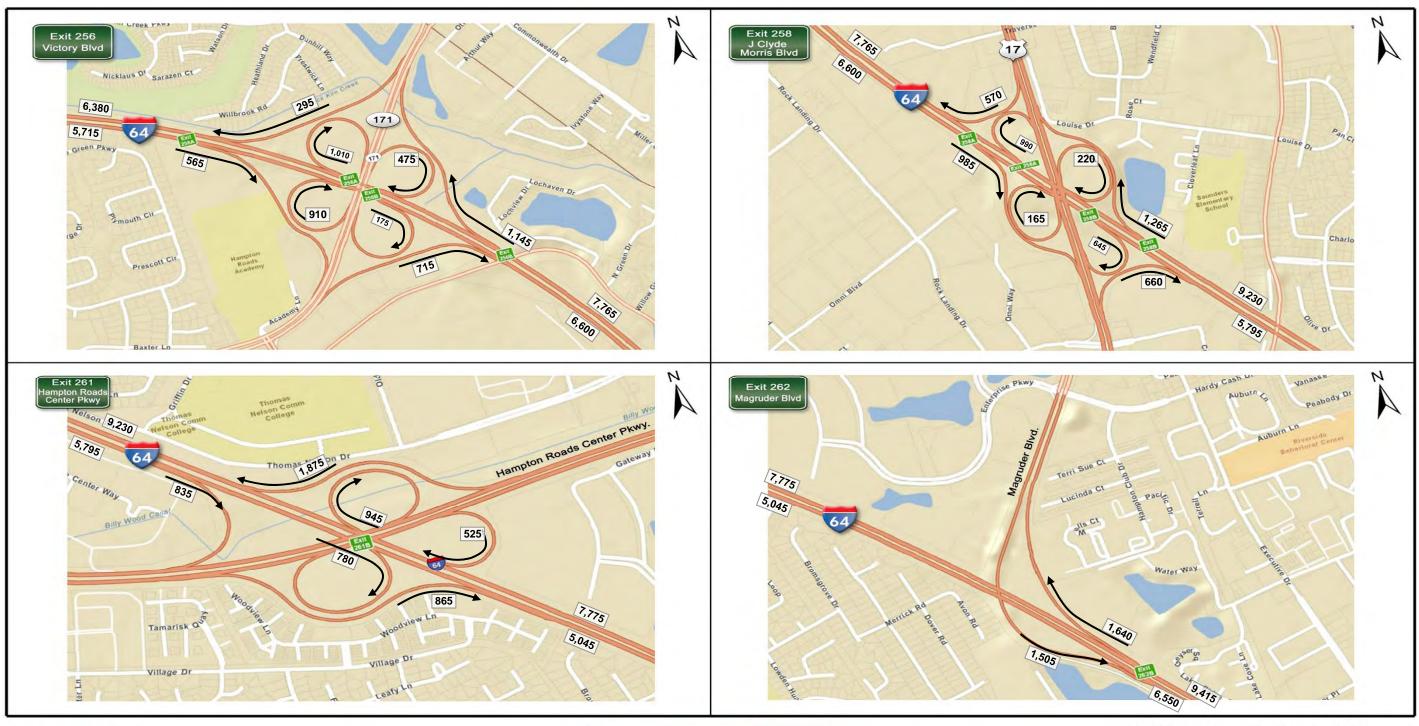






FIGURE 2: PM Peak Hour Volumes
2040 No Build Balanced Volumes
Sheet 6 of 7

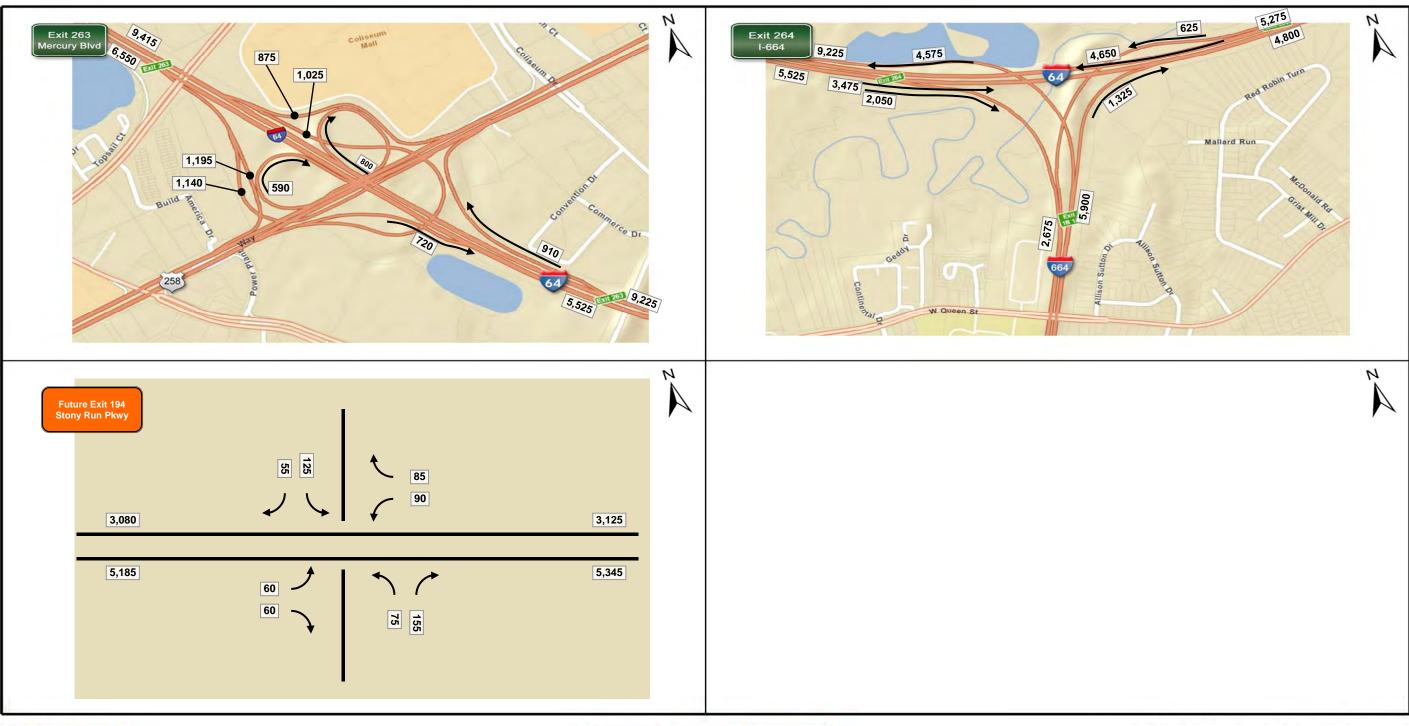






FIGURE 2: PM Peak Hour Volumes
2040 No Build Balanced Volumes
Sheet 7 of 7

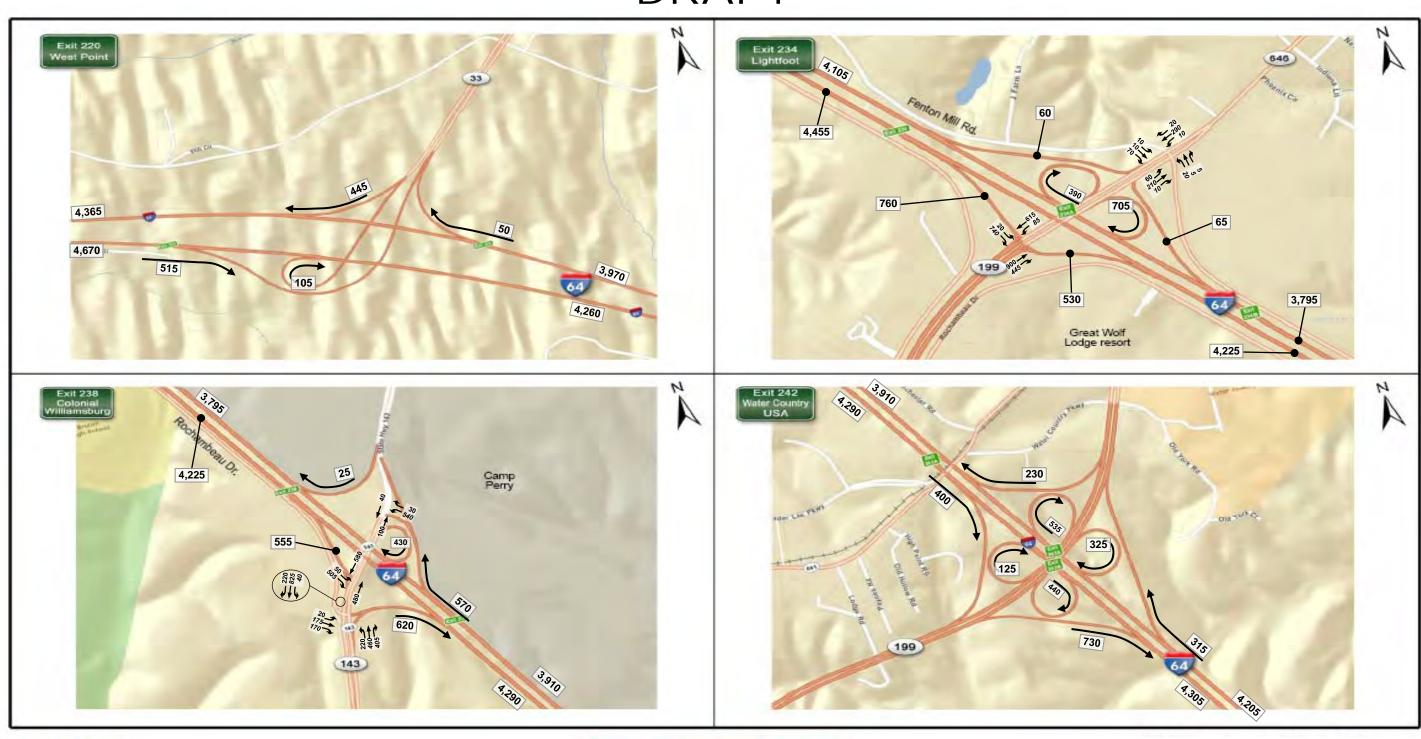
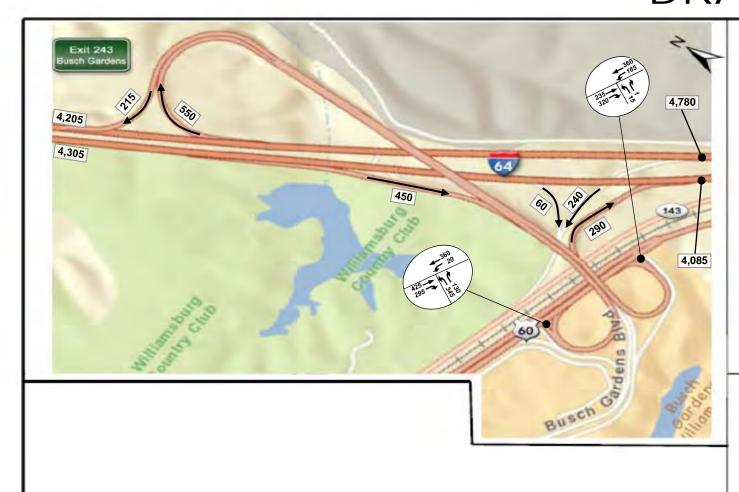






FIGURE 4: Summer SAT Peak Hour Volumes
2040 No Build Balanced Volumes
Sheet 1 of 2

DRAFT Updated 3/16/12







Note: Due to rounding, some volumes do not balance exactly.

FIGURE 4: Summer SAT Peak Hour Volumes 2040 No Build Balanced Volumes

Sheet 2 of 2

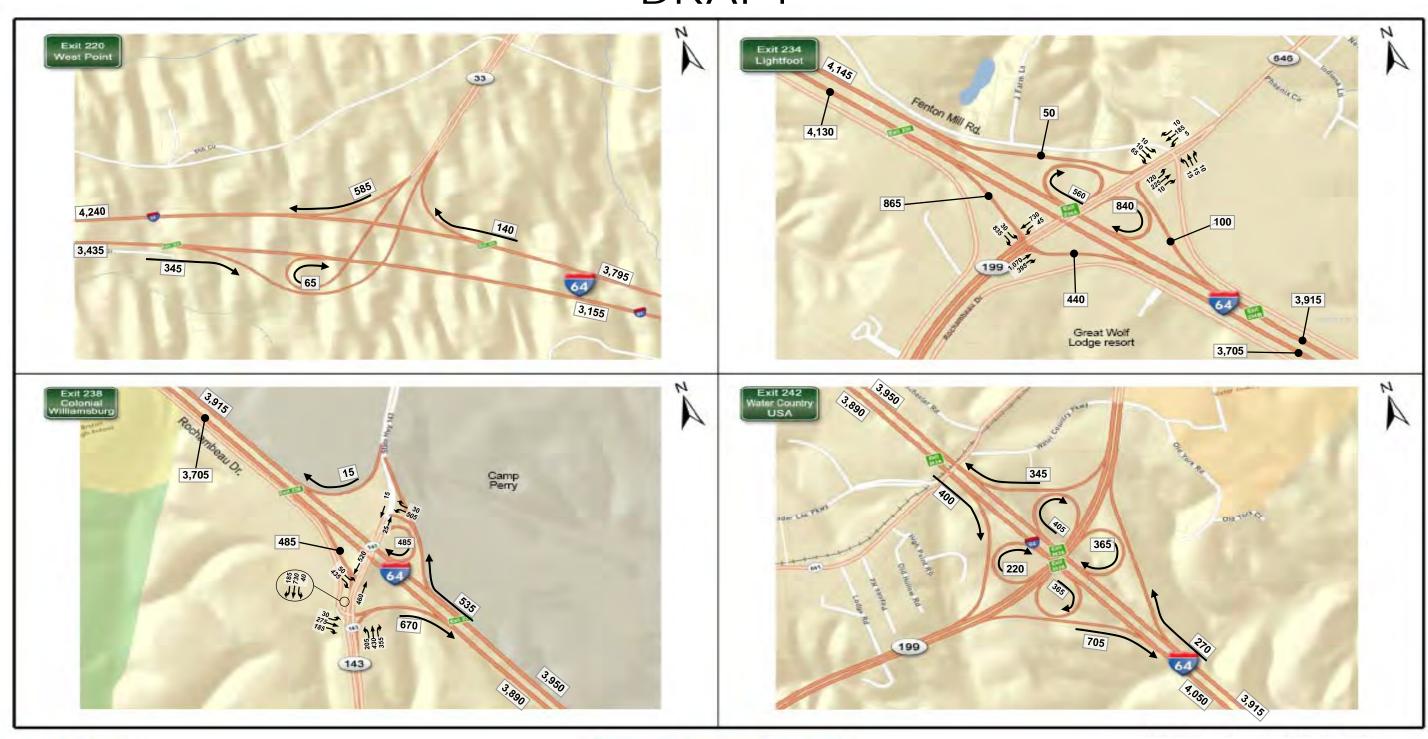






FIGURE 5: Summer SUN Peak Hour Volumes
2040 No Build Balanced Volumes
Sheet 1 of 2

Note: Due to rounding, some volumes do not balance exactly.

DRAFT Updated 3/16/12

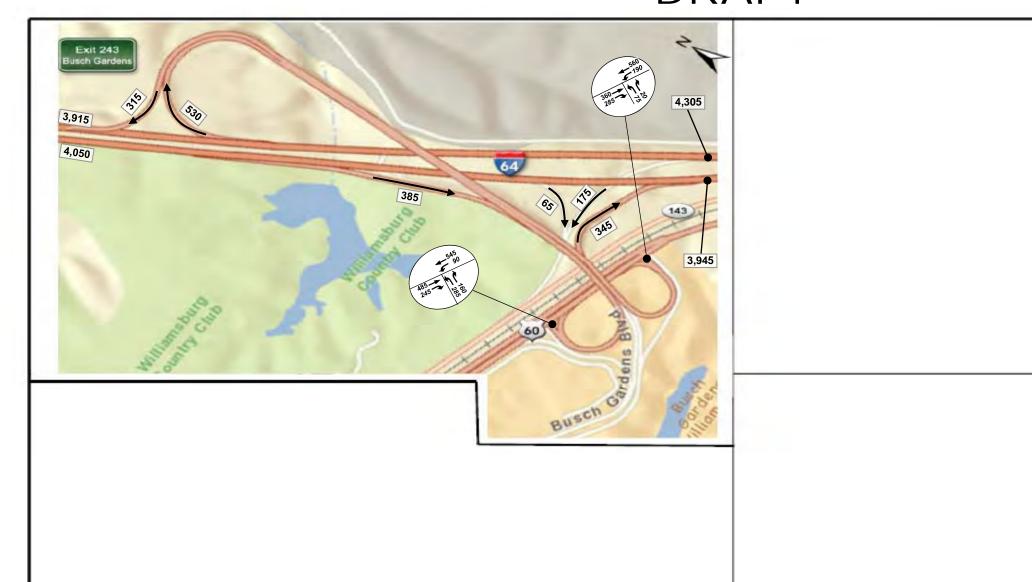






FIGURE 5: Summer SUN Peak Hour Volumes
2040 No Build Balanced Volumes
Sheet 2 of 2

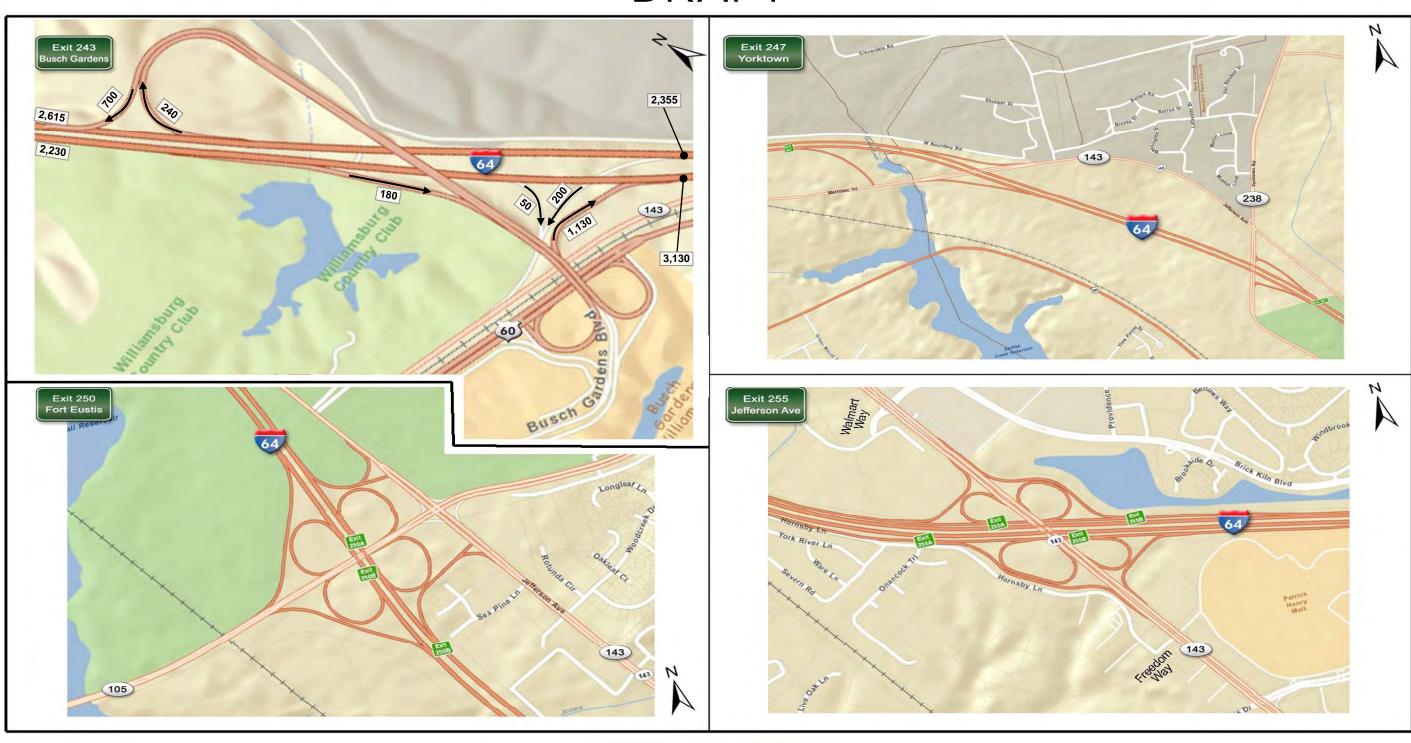






FIGURE 6: Volumes

Summer SAT NIGHT Peak Hour

2040 No Build Balanced Volumes Sheet 1 of 1

Note: Due to rounding, some volumes do not balance exactly.

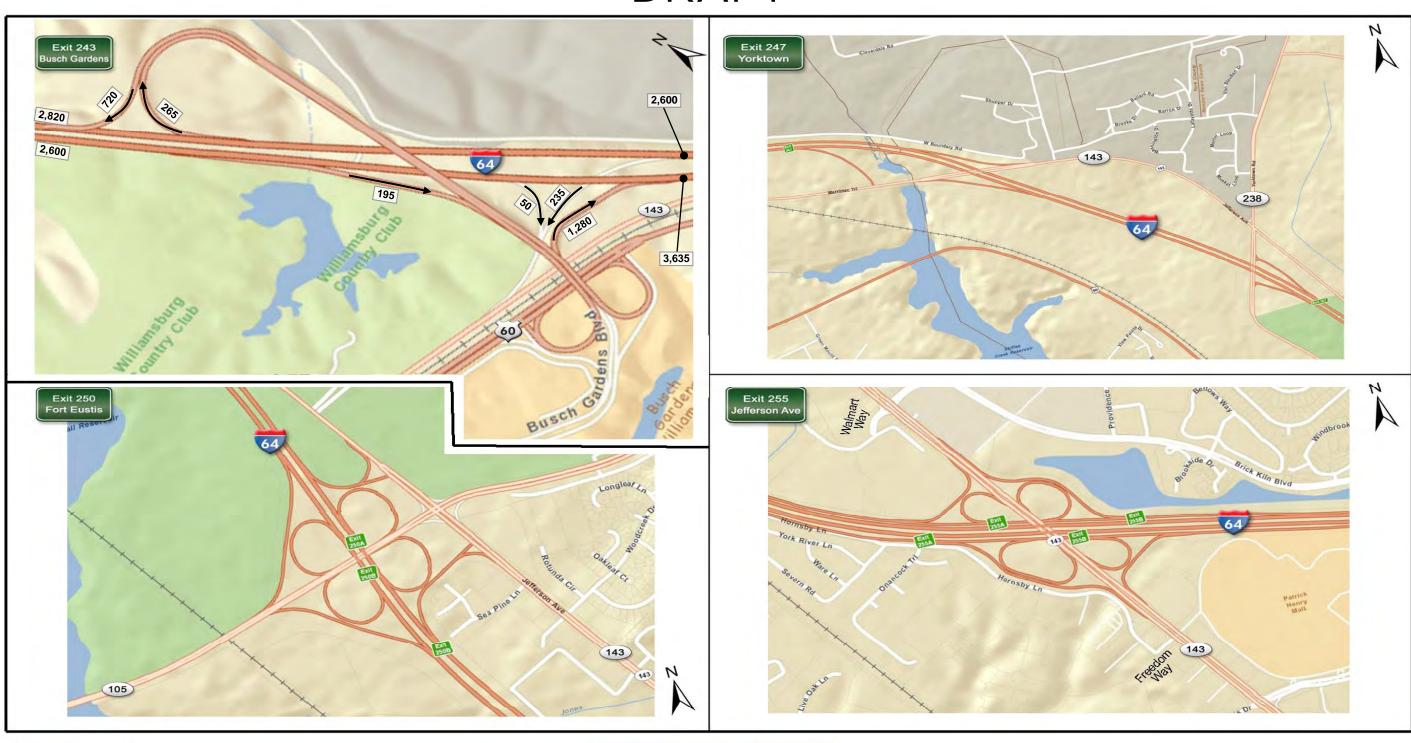






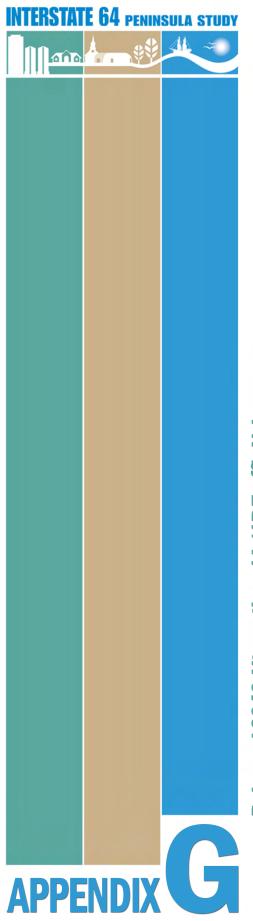


FIGURE 7: Volumes

Summer SUN NIGHT Peak Hour

2040 No Build Balanced Volumes Sheet 1 of 1

Note: Due to rounding, some volumes do not balance exactly.



Balanced 2040 Alternatives 1A/1B Traffic Volumes

DRAFT Updated 6/7/2012

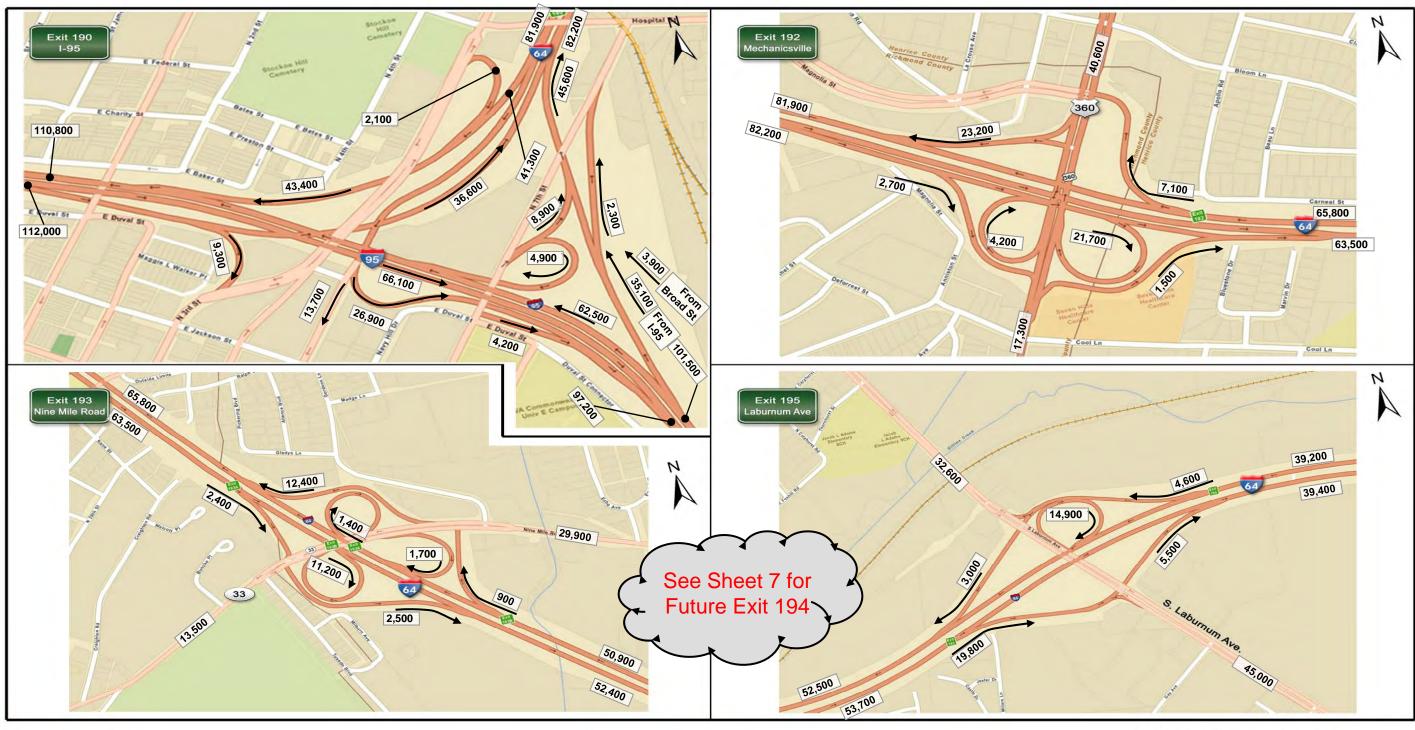






FIGURE 3: ADT Volumes
2040 Build Alt 1 Balanced Volumes
Sheet 1 of 7

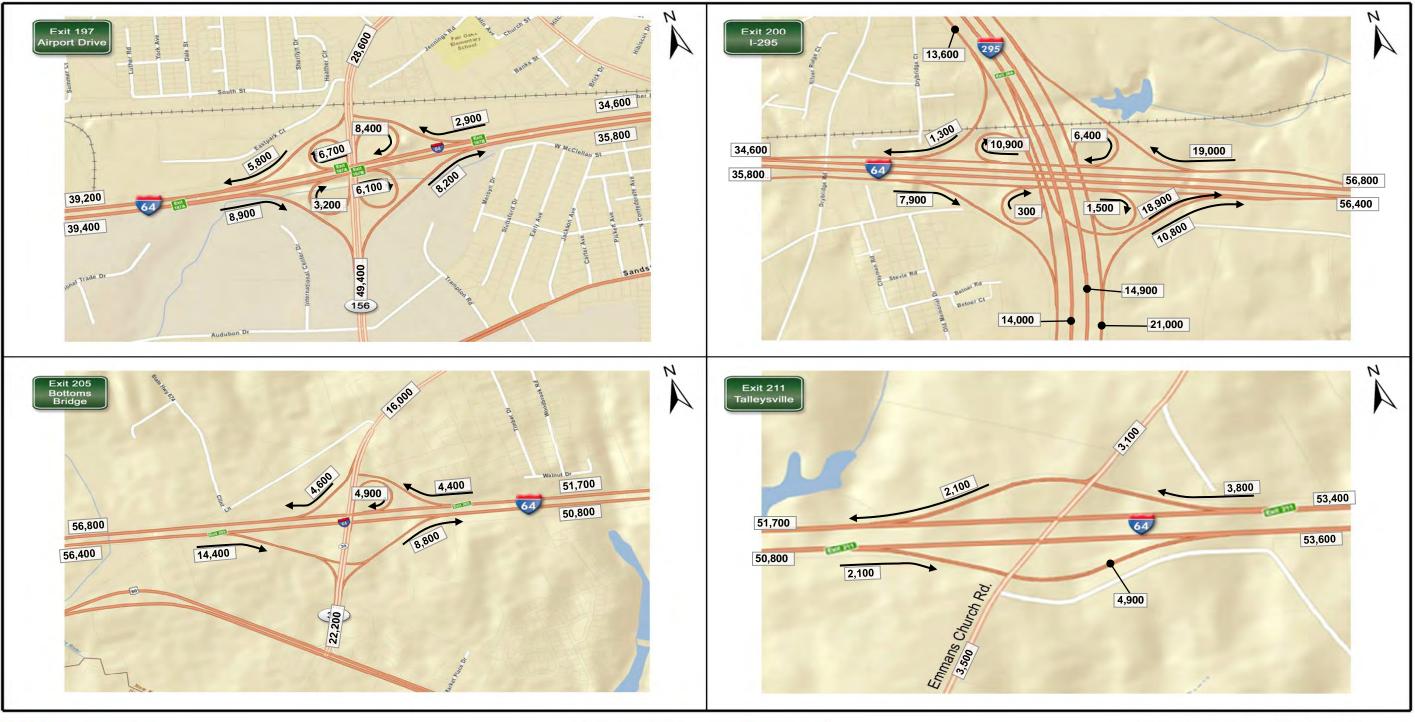






FIGURE 3: ADT Volumes

2040 Build Alt 1 Balanced Volumes

Sheet 2 of 7

DRAFT Updated 4/30/2012

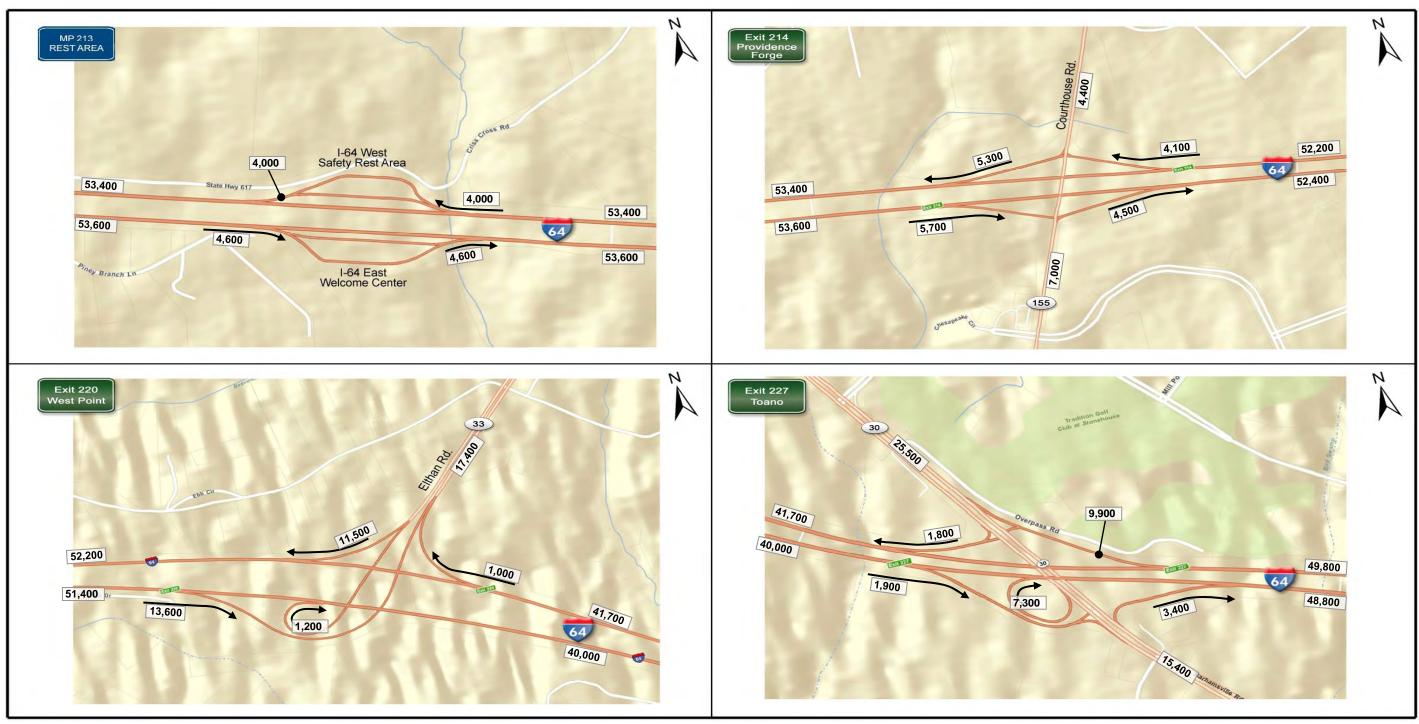






FIGURE 3: ADT Volumes

2040 Build Alt 1 Balanced Volumes

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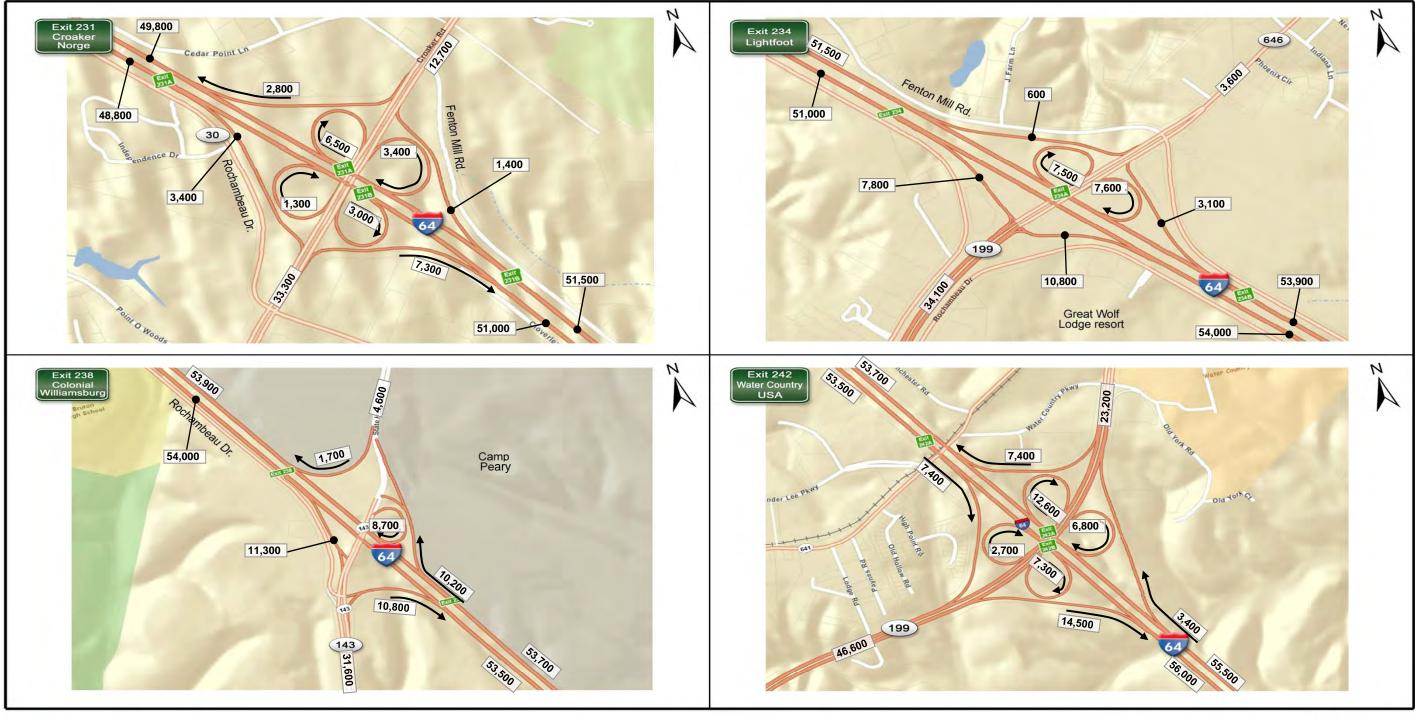






FIGURE 3: ADT Volumes
2040 Build Alt 1 Balanced Volumes
Sheet 4 of 7

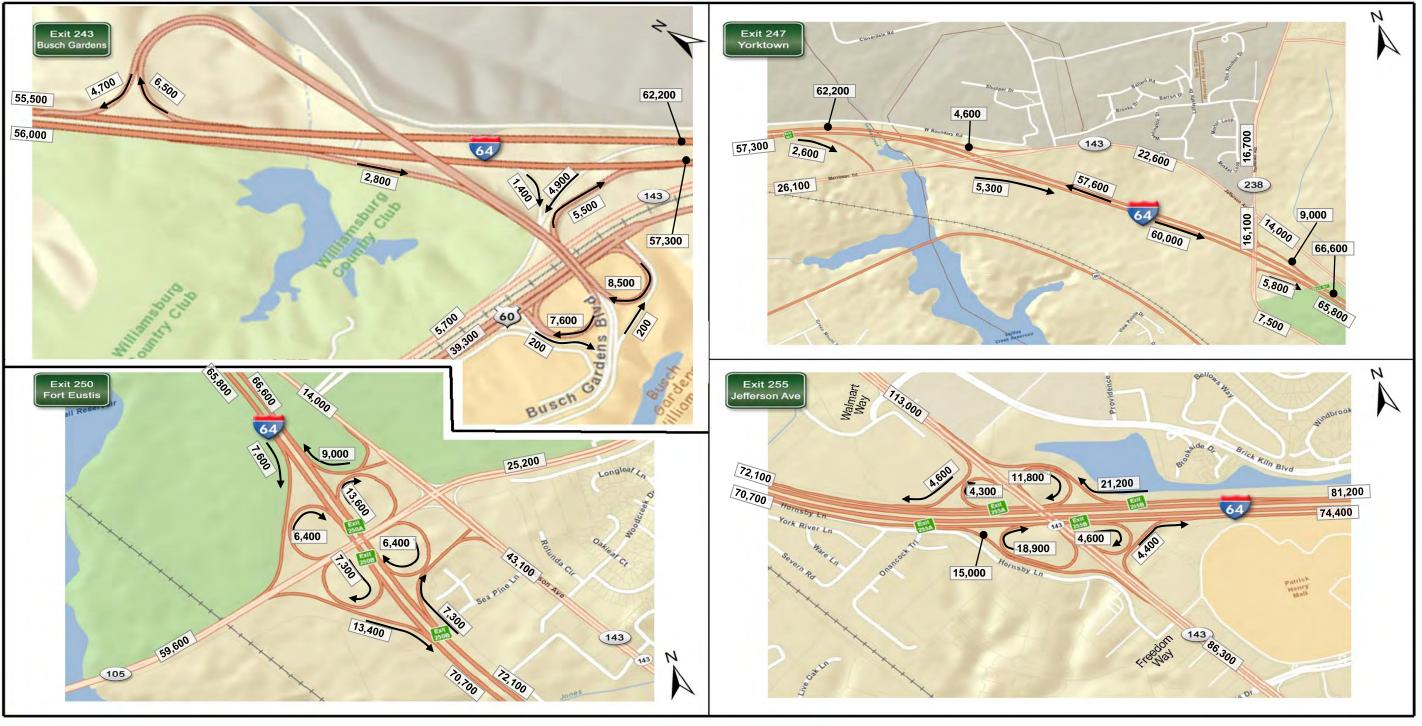






FIGURE 3: ADT Volumes
2040 Build Alt 1 Balanced Volumes
Sheet 5 of 7

DRAFT Updated 4/30/2012

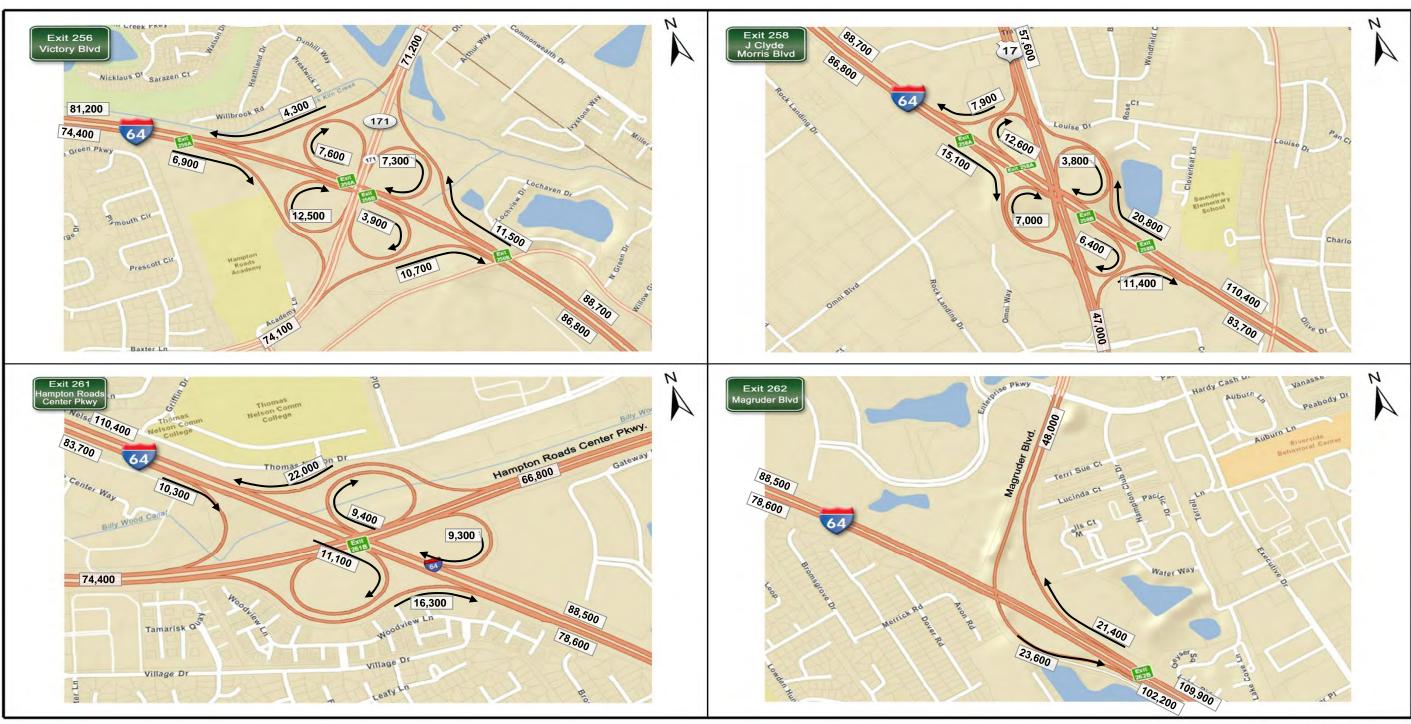






FIGURE 3: ADT Volumes
2040 Build Alt 1 Balanced Volumes
Sheet 6 of 7

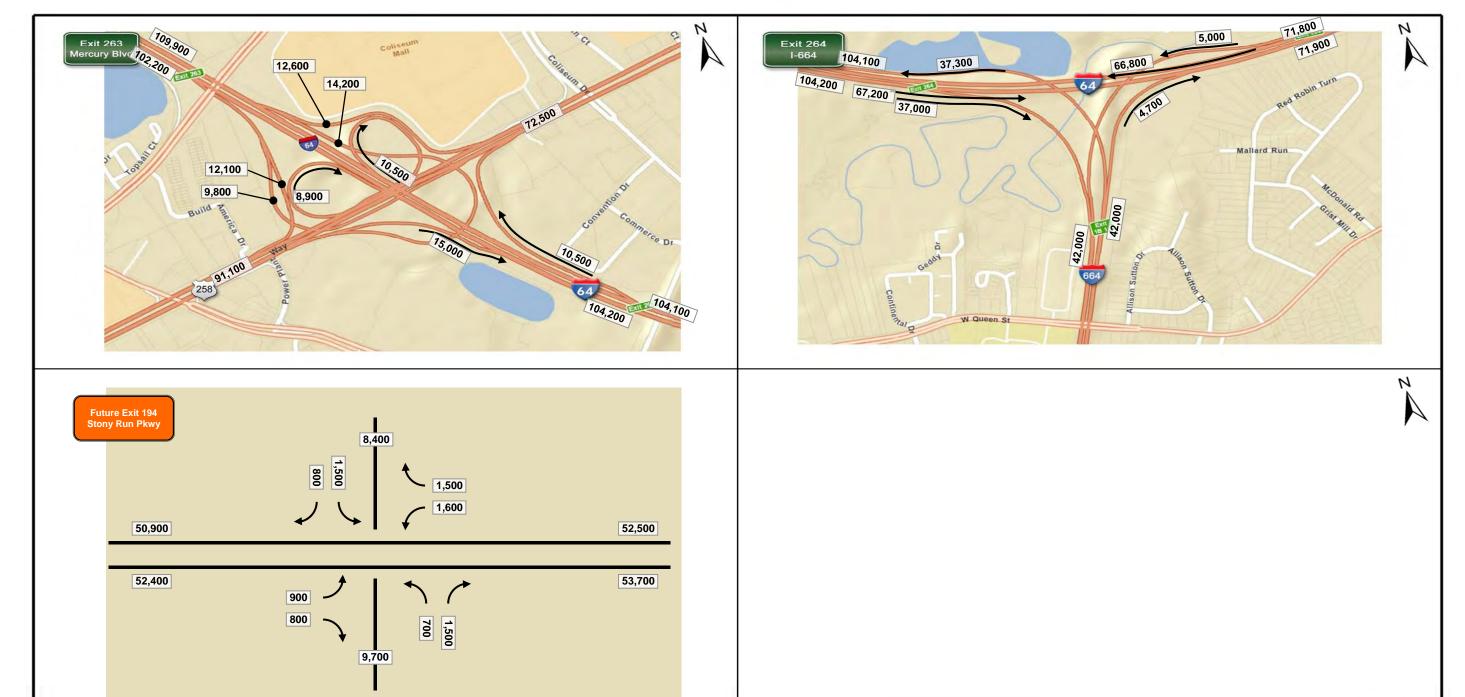






FIGURE 3: ADT Volumes

2040 Build Alt 1 Balanced Volumes

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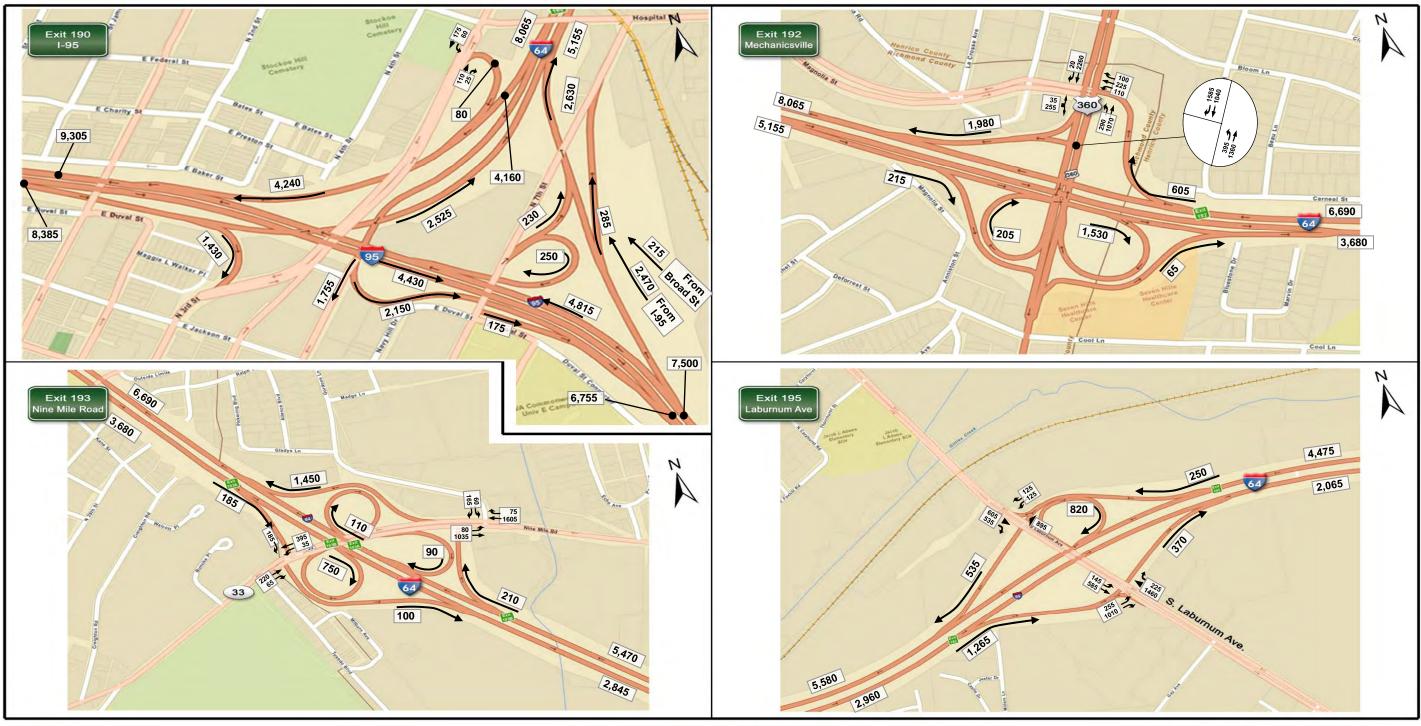






FIGURE 1: AM Peak Hour Volumes
2040 Alt 1 Balanced Volumes
Sheet 1 of 7

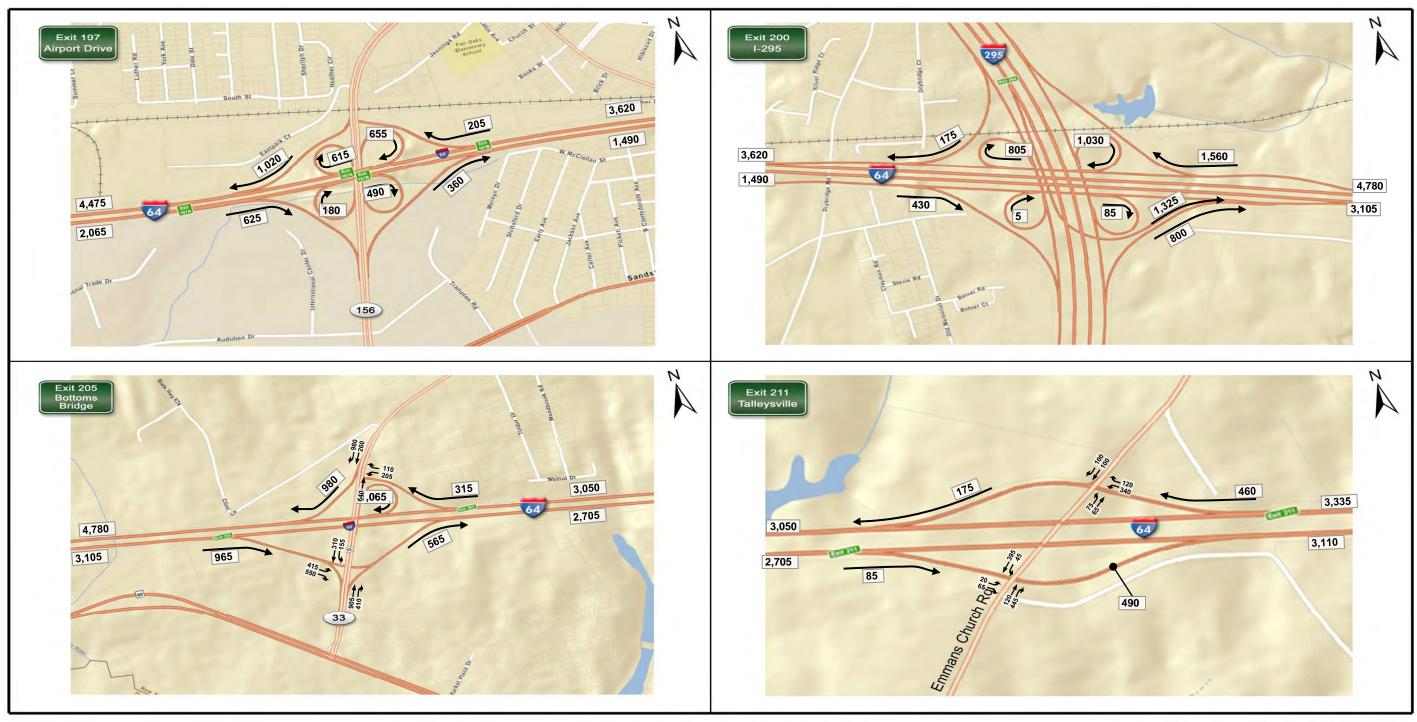






FIGURE 1: AM Peak Hour Volumes
2040 Alt 1 Balanced Volumes
Sheet 2 of 7

DRAFT Updated 5/21/12

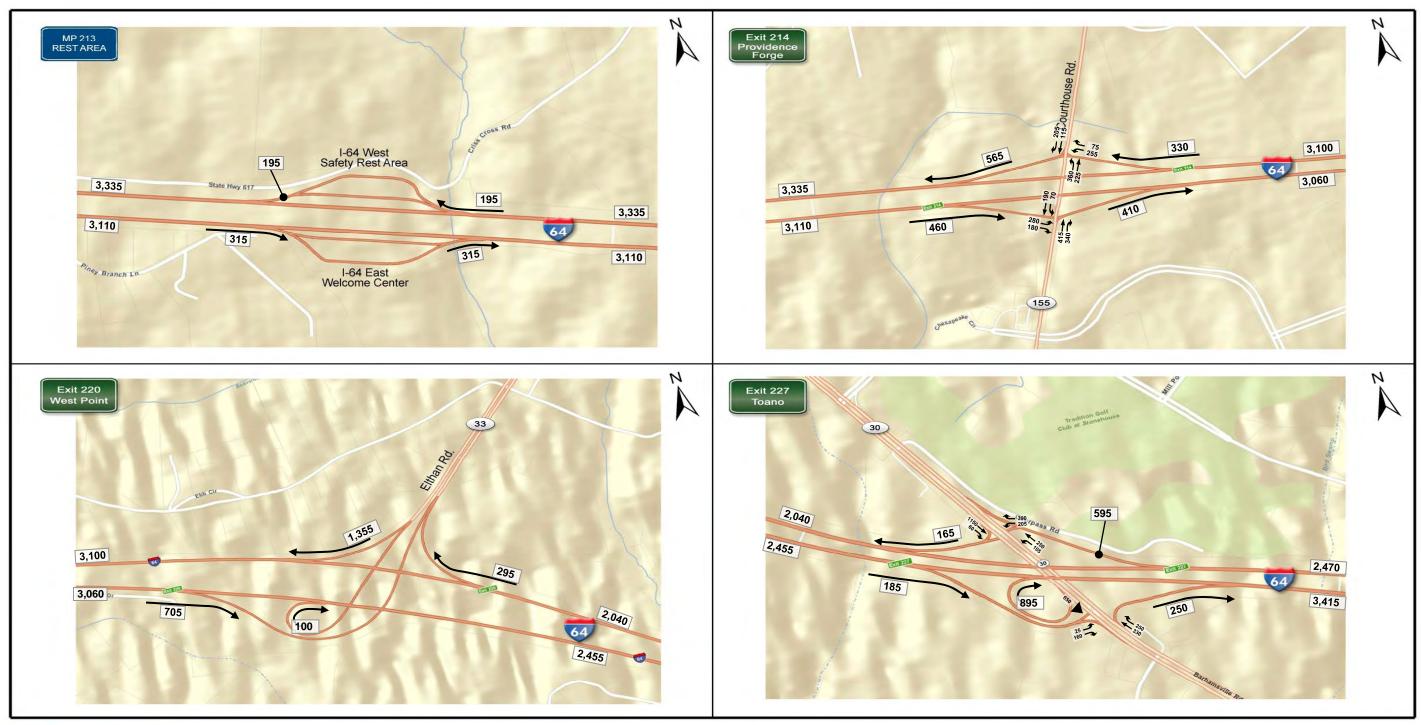






FIGURE 1: AM Peak Hour Volumes
2040 Alt 1 Balanced Volumes
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DRAFT Updated 5/21/12

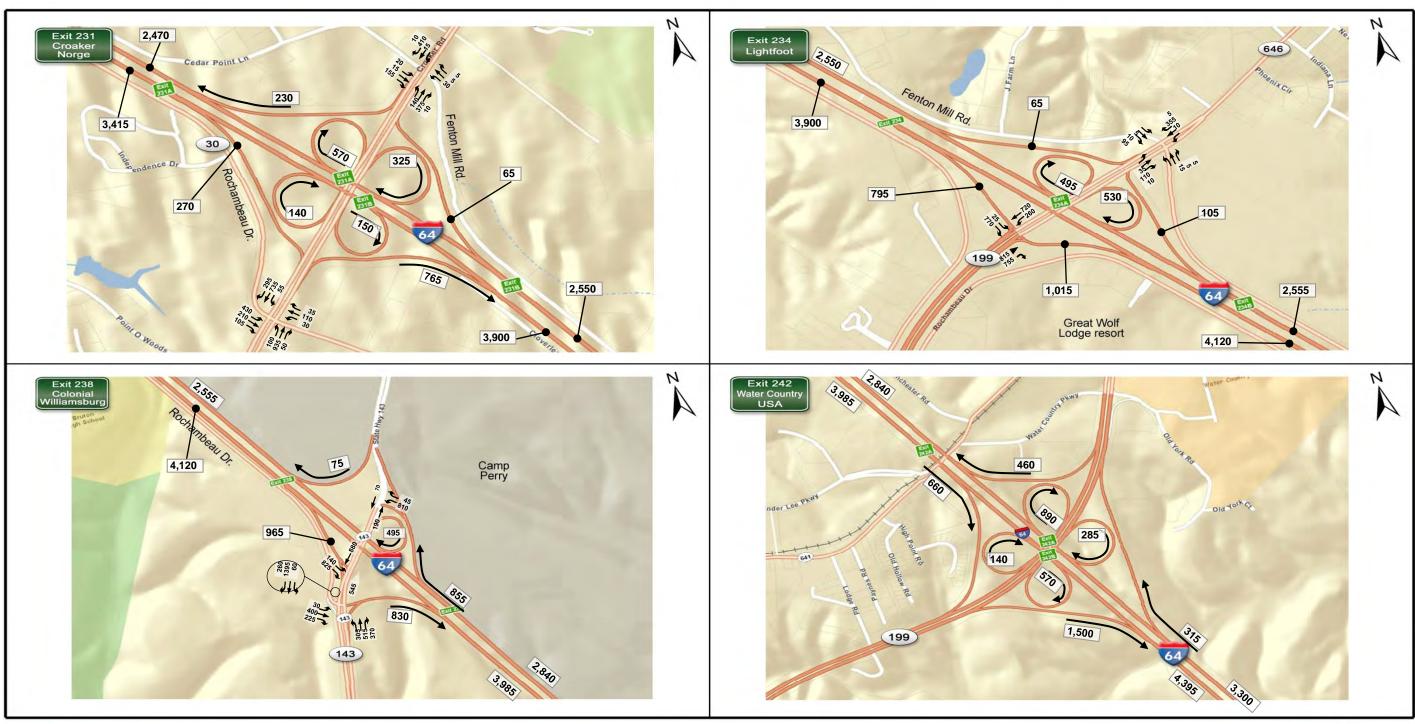






FIGURE 1: AM Peak Hour Volumes
2040 Alt 1 Balanced Volumes
Sheet 4 of 7

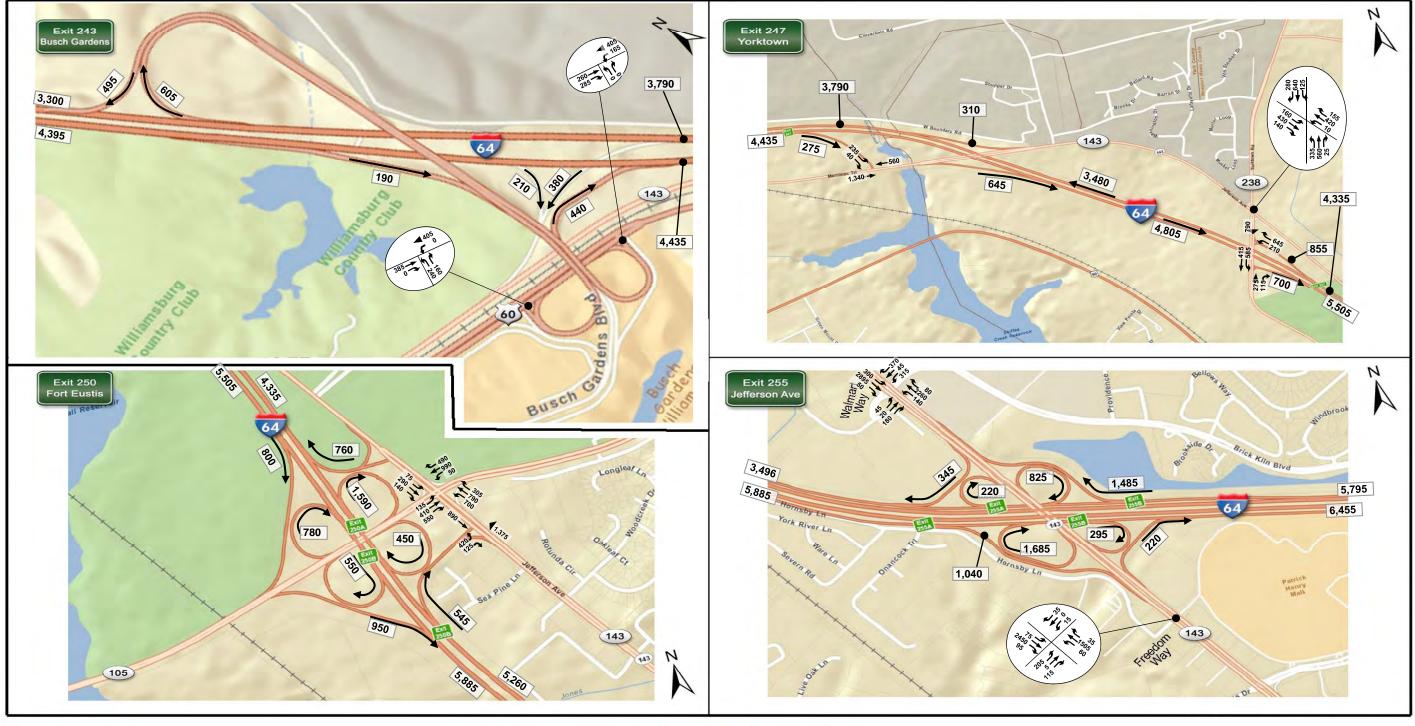






FIGURE 1: AM Peak Hour Volumes
2040 Alt 1 Balanced Volumes
Sheet 5 of 7

DRAFT Updated 5/21/12

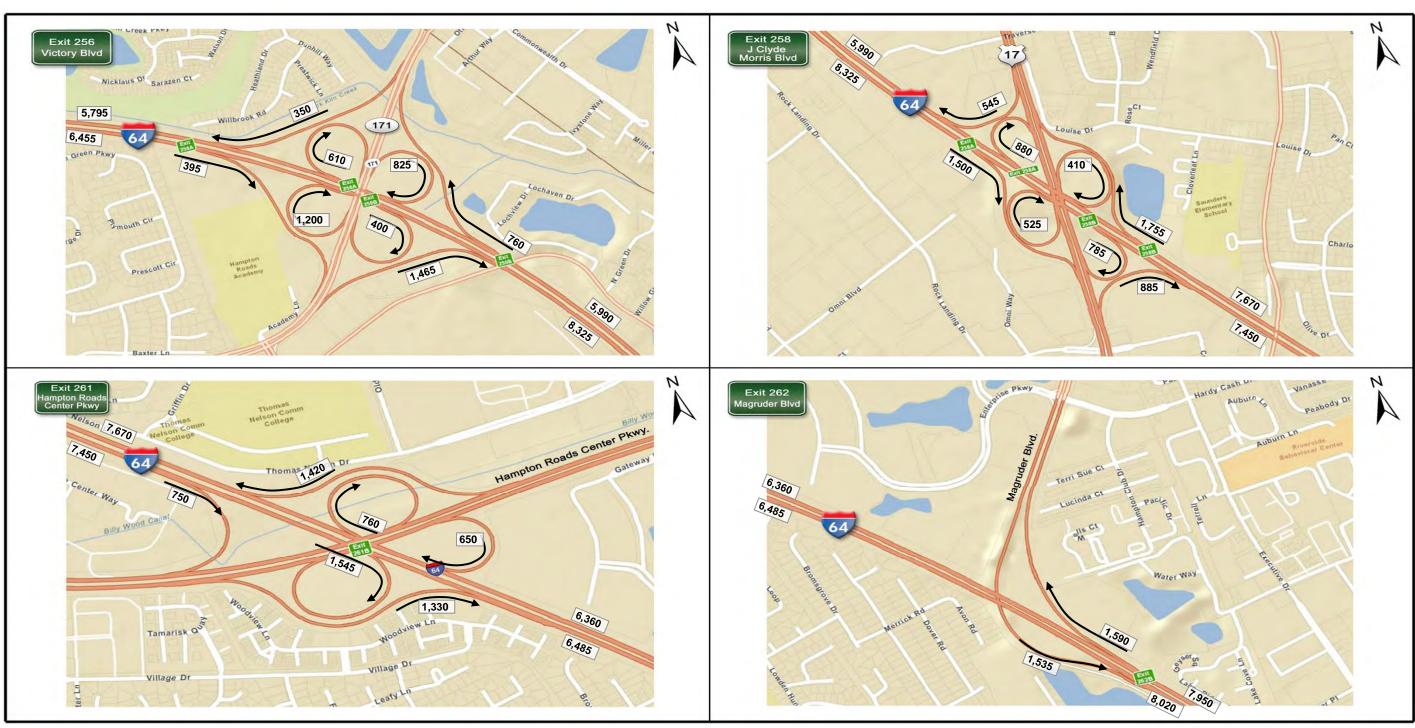






FIGURE 1: AM Peak Hour Volumes
2040 Alt 1 Balanced Volumes
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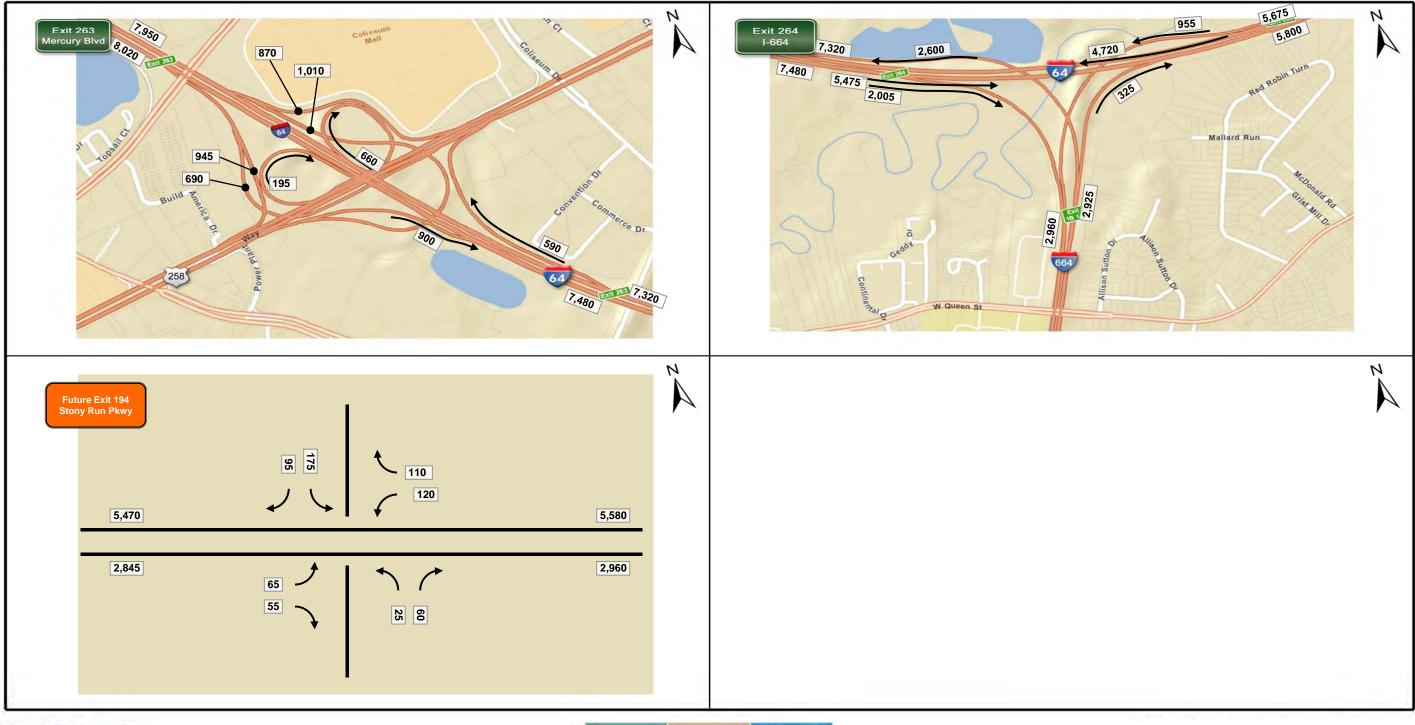






FIGURE 1: AM Peak Hour Volumes

2040 Alt 1 Balanced Volumes

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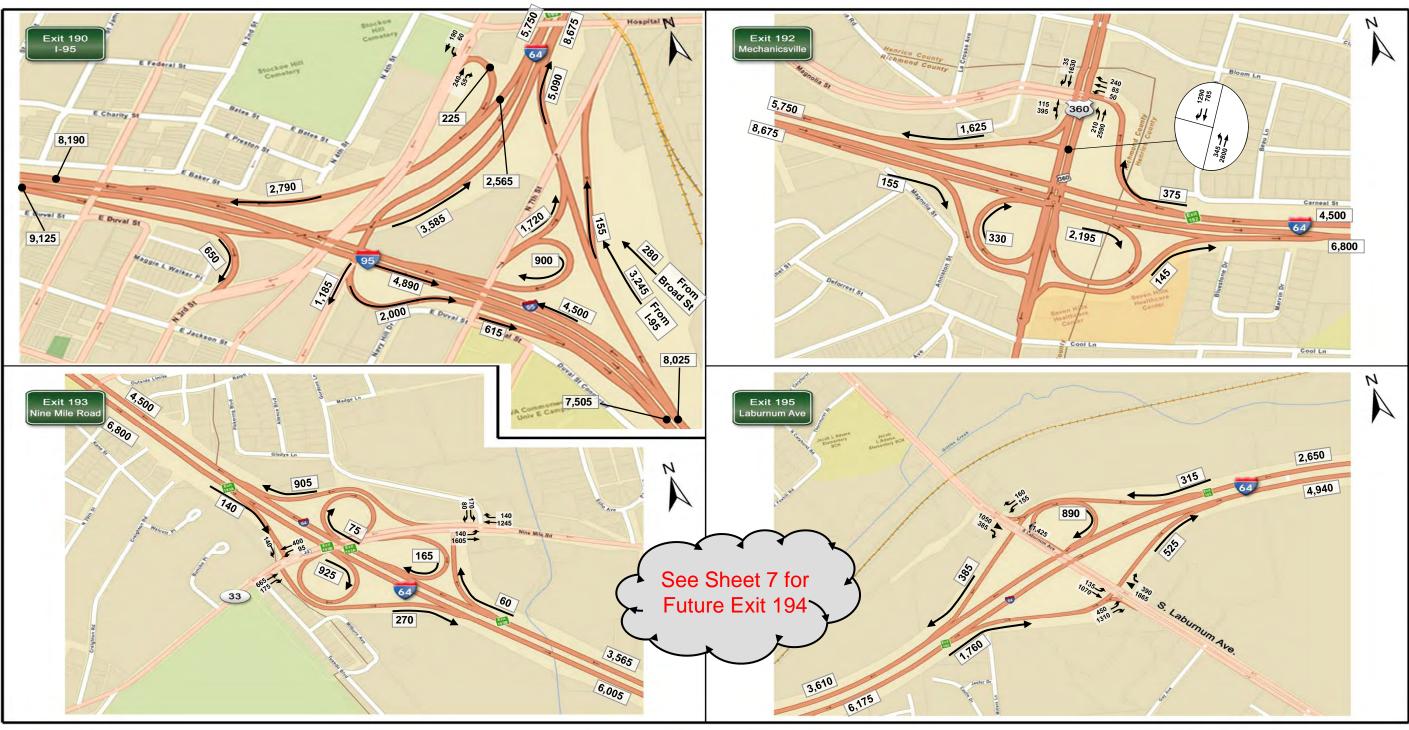






FIGURE 2: PM Peak Hour Volumes
2040 Alt 1 Balanced Volumes
Sheet 1 of 7

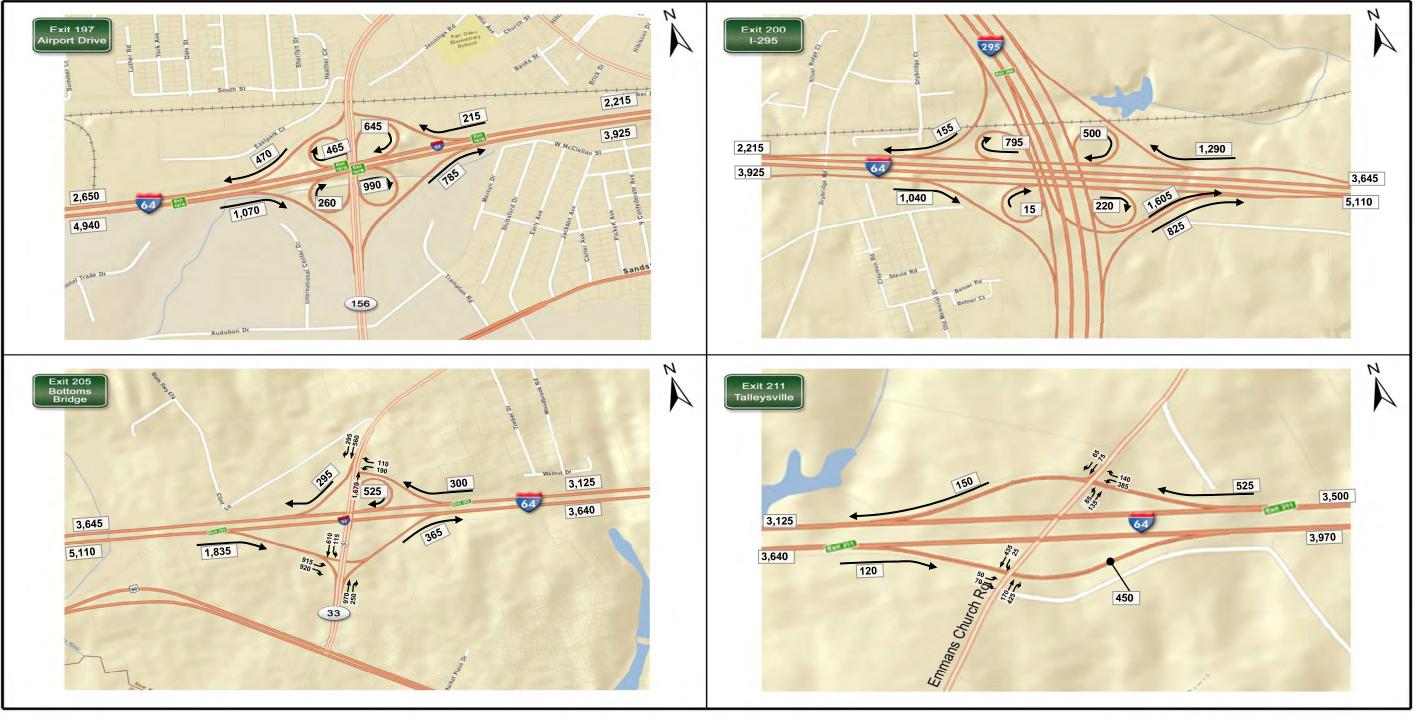






FIGURE 2: PM Peak Hour Volumes
2040 Alt 1 Balanced Volumes
Sheet 2 of 7

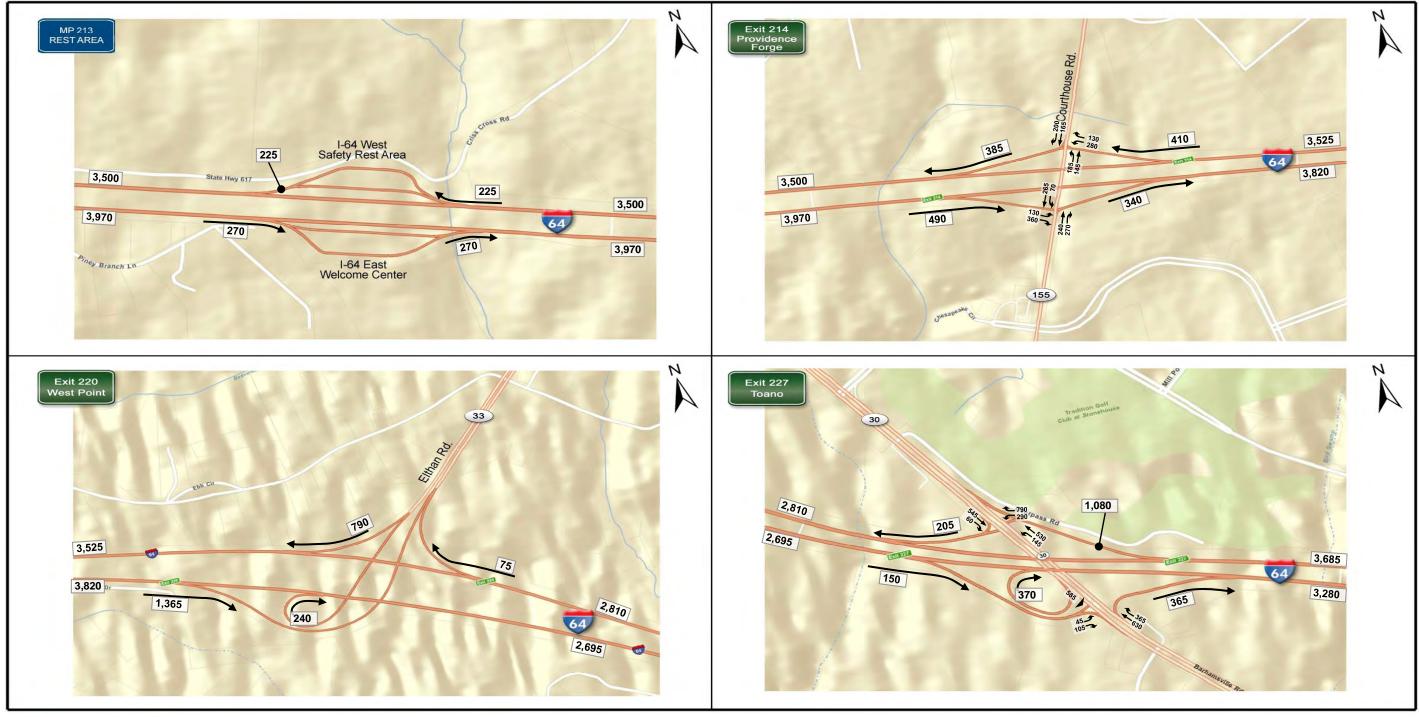






FIGURE 2: PM Peak Hour Volumes
2040 Alt 1 Balanced Volumes
Sheet 3 of 7

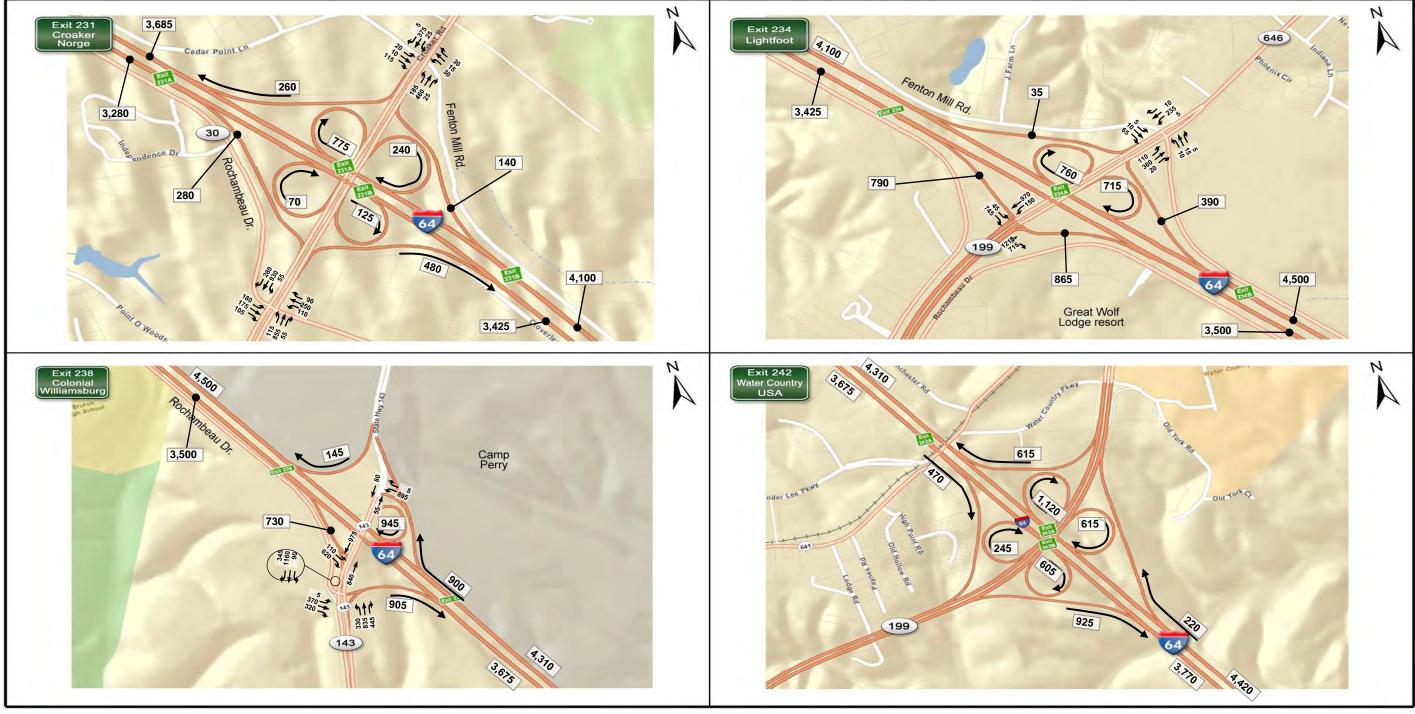






FIGURE 2: PM Peak Hour Volumes
2040 Alt 1 Balanced Volumes
Sheet 4 of 7

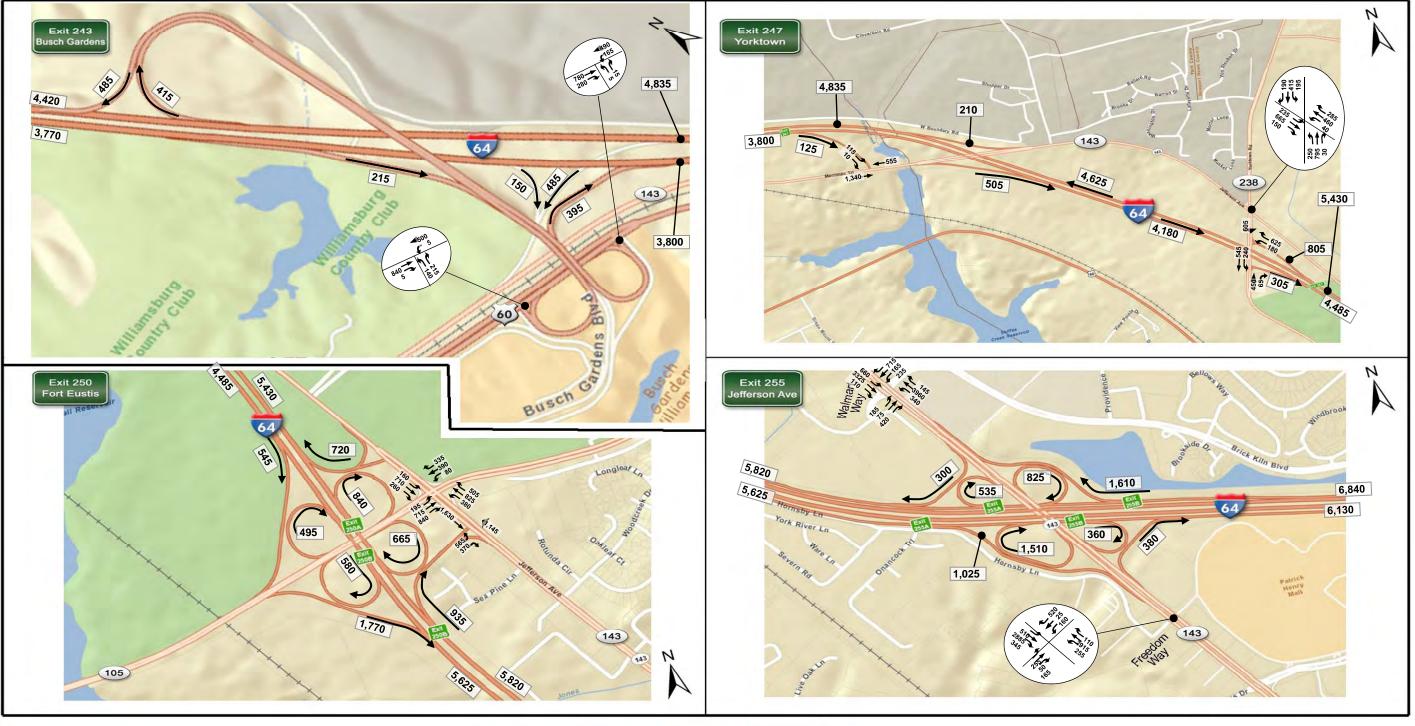






FIGURE 2: PM Peak Hour Volumes
2040 Alt 1 Balanced Volumes
Sheet 5 of 7

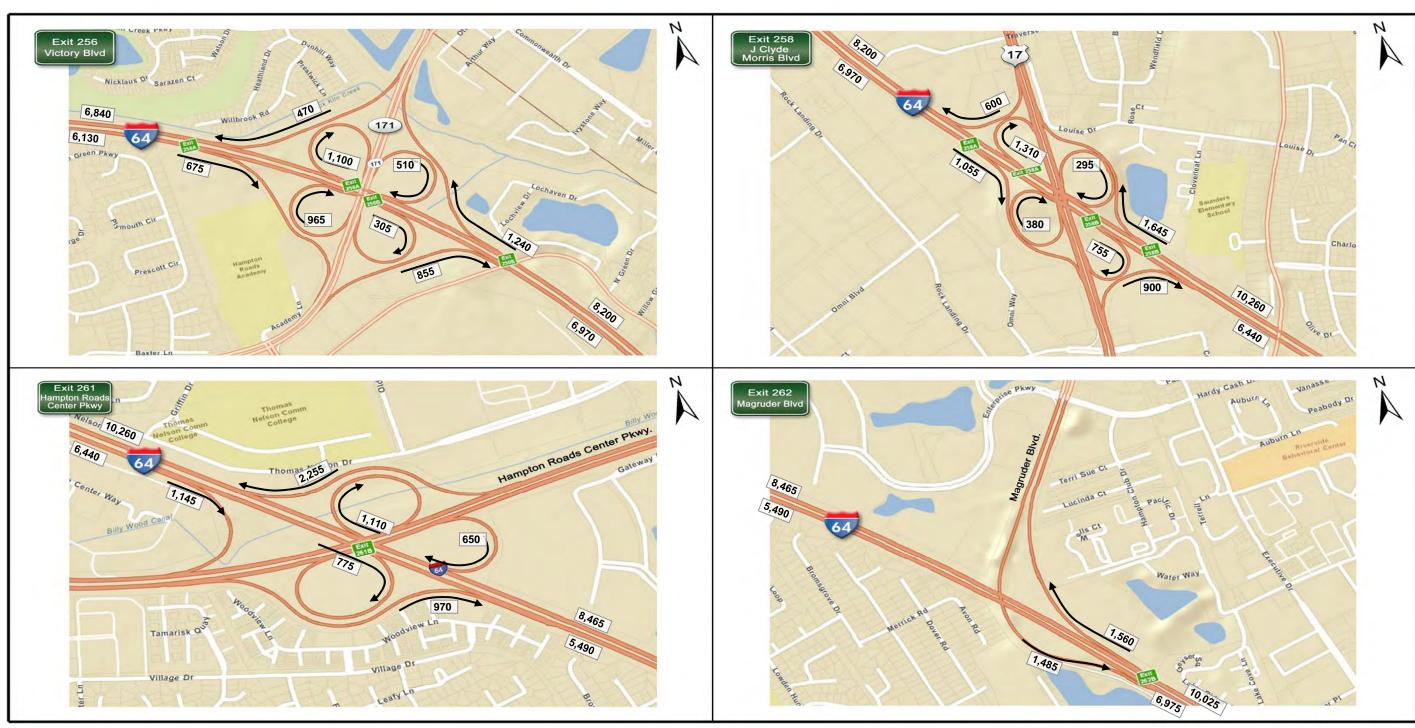






FIGURE 2: PM Peak Hour Volumes
2040 Alt 1 Balanced Volumes
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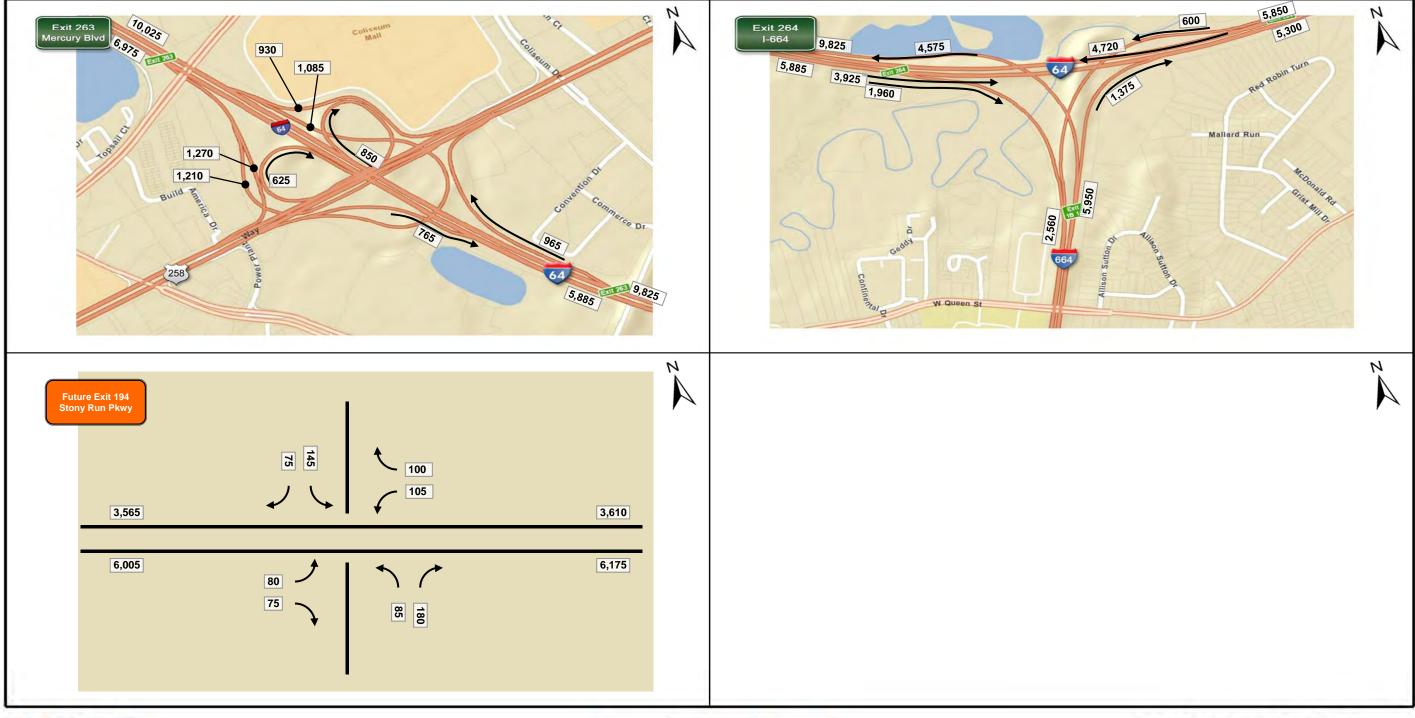
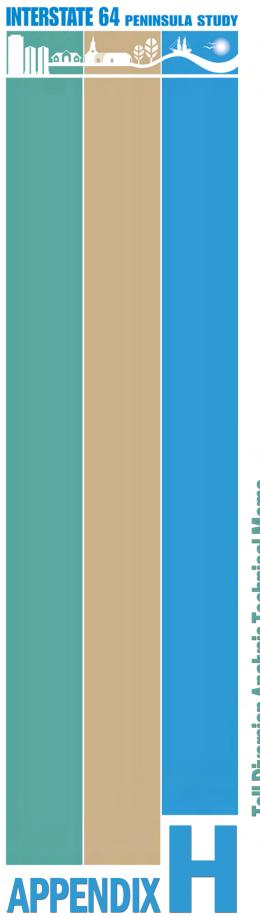






FIGURE 2: PM Peak Hour Volumes
2040 Alt 1 Balanced Volumes

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Toll Diversion Analysis Technical Memo



Memorandum: Toll Diversion Analysis

Preliminary Results

Date: May 18, 2012

Scenarios Analyzed:

• Build Alternatives 2A/2B - I-64 Widening With Full Tolling

• Reversible HOT lane (analysis to be completed)

Tools Used:

• VDOT's Superregional Tidewater Model (SRTW) daily assignment model

Key Assumptions:

- Fixed, distance-based toll for both directions of the entire facility (I-95 in Richmond to I-664 in Hampton)
- Toll rates uniform for all segments (for example, with toll-collection gantries placed between each and every interchange within the corridor)
- Tolls collected at highway speeds
- Uniform rate for all vehicles (no higher truck rates)
- Toll rates based current rates for similar facilities in Northeast:

| Facility | Length of full trip (mi) | Toll | Rate/mile |
|-------------------------------|--------------------------------|----------|-----------|
| Dulles Toll Road | 16.2 | \$ 1.50 | \$ 0.093 |
| Dulles Greenway (peak) | 12.5 | \$ 4.80 | \$ 0.383 |
| Dulles Toll Road & Greenway | 28.7 | \$ 6.30 | \$ 0.220 |
| ICC (peak) | 14.1 | \$ 4.00 | \$ 0.285 |
| Delaware Route 1 (weekdays) | 51 | \$ 2.00 | \$ 0.039 |
| Delaware Turnpike | 11.2 | \$ 4.00 | \$ 0.357 |
| I-95/JFK (Maryland, one way) | 48 | \$ 6.00 | \$ 0.125 |
| DE I-95 & MD I-95, one way | 59.2 | \$ 10 | \$ 0.169 |
| New Jersey Turnpike | 113 | \$ 13.85 | \$ 0.123 |
| DE I-95 & MD I-95, round-trip | 118 | \$ 14 | \$ 0.118 |

- Assumed Average Rate for I-64 EIS (based on highlighted regional toll rates): \$0.15/mile
- Sensitivity runs conducted: 50% higher and 50% lower (\$0.075/mile and \$0.225/mile)
- While the toll rate for the Delaware Turnpike was included in the summary of toll rates, it was not factored into the overall average. The Delaware Turnpike per-mile toll rate is an outlier, and its toll could be regarded more as a single-point toll bridge rather than a mileage-based toll





facility. A rate of 35 cents/mile is considerably higher than any other non-peak toll rate currently being charged in the US for passenger cars. The toll rates were coded in 2011 dollars, and not adjusted for future years for consistency with value of time assumptions

Preliminary Results:

Table 1
Daily volume changes at select locations along I-64

| Exit | | Segment | Assumed Toll Rate | | |
|------|-----|--|-------------------|---------|-----------|
| From | То | Segment | 7.5 ¢/mi | 15 ¢/mi | 22.5 ¢/mi |
| 192 | 193 | US 360 to Nine Mile Road | -0.1% | -0.1% | -0.1% |
| 194 | 195 | Stony Run Parkway to Laburnum Road | -0.1% | -0.1% | 0.0% |
| 195 | 197 | Laburnum Road to VA 156 | -0.1% | -0.1% | 0.0% |
| 214 | 220 | VA 155 to VA 33 (West Point) | -0.6% | -1.3% | -2.3% |
| 234 | 238 | VA 199 to VA 143 | -2.1% | -4.9% | -7.7% |
| 238 | 242 | VA 143 to VA 199 | -4.3% | -8.4% | -12% |
| 243 | 247 | Busch Gardens to Yorktown | -4.2% | -9.5% | -16% |
| 250 | 255 | VA 105 to VA 143 | -1.3% | -2.1% | -3.1% |
| 256 | 258 | Victory Boulevard to J Clyde Morris Blvd | -1.2% | -2.3% | -3.5% |
| 262 | 263 | Magruder Boulevard to Mercury Boulevard | -1.5% | -3.7% | -5.5% |

Table 2
Daily volume changes at select locations along US 60

| Exit | | Cogmont | Assumed Toll Rate | | |
|------|-----|--|-------------------|---------|-----------|
| From | То | Segment | 7.5 ¢/mi | 15 ¢/mi | 22.5 ¢/mi |
| 192 | 193 | US 360 to Nine Mile Road | -0.2% | -0.1% | -0.4% |
| 194 | 195 | Stony Run Parkway to Laburnum Road | -0.1% | -0.1% | 0.0% |
| 195 | 197 | Laburnum Road to VA 156 | 2.2% | 4.0% | 6.7% |
| 214 | 220 | VA 155 to VA 33 (West Point) | 6.2% | 18% | 33% |
| 234 | 238 | VA 199 to VA 143 | -0.4% | 1.1% | 1.9% |
| 238 | 242 | VA 143 to VA 199 | 2.6% | 6.5% | 11% |
| 243 | 247 | Busch Gardens to Yorktown | -0.3% | 0.9% | 3.1% |
| 250 | 255 | VA 105 to VA 143 | 1.5% | 2.9% | 3.3% |
| 256 | 258 | Victory Boulevard to J Clyde Morris Blvd | 1.2% | 1.5% | 4.3% |

Key Observations:

- Largest reductions in traffic volumes on I-64 projected to occur on "eastern" section of I-64 (east of Exit 214).
- Network congestion and lack of parallel alternate routes limit opportunity for diversion in Richmond area
- Other free parallel alternate routes such as VA Route 5 and US 17 are not projected to see major diversion of traffic from I-64 - Although TSM1 showed some diversion to VA 5, the significant additional time this route adds to long-distance trips between Richmond and Hampton Roads limits its attractiveness as a primary alternate route. US 17 is not modeled in its entirety within





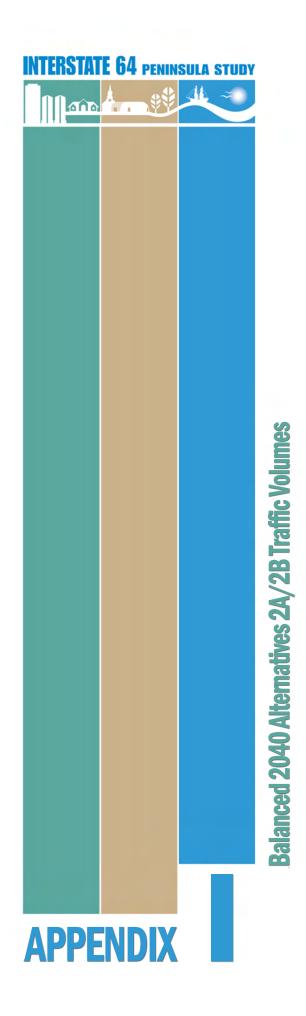
- TSM1 as a parallel route to I-64 and I-95; consequently, it is not possible to evaluate the level of diversion to this facility.
- Negligible impact on US 460 The raw assignment in TSM1 showed very little change in daily volumes, which is in line with previous studies and in line with expectations. A select link analysis along I-64 showed approximately 10 percent of all trips originating and ending in Richmond and Hampton Roads (and beyond). This indicates that I-64 and US 460 compete for a limited number of true long-distance trips. The considerable additional distance that US 460 adds to a trip between Richmond and Hampton roads further limits the attractiveness of US 460 as a viable parallel route. US 460 was coded as a tolled, upgraded facility. It should be noted that the trip table in TSM1 is constructed from the individual models' trip tables; the conversion process may have resulted in underestimation of long-distance trips. In addition, TSM1 does not assign truck traffic, which may react differently to toll than passenger cars. Given the modeling tools currently available for this project, we believe the results are reasonable; however, we recommend that all forecasts be reviewed when TSM2 becomes available.

Impacts on Level of Service:

 If we assume that peak hour traffic diversion will be identical to daily traffic volume diversion, less widening may be required to achieve acceptable LOS (see attached spreadsheet). However, this assumption must be considered carefully, as peak hour network congestion will make alternate routes less attractive, and daily model results may overstate the level of diversion during peak hours.







DRAFT Updated 6/21/2012

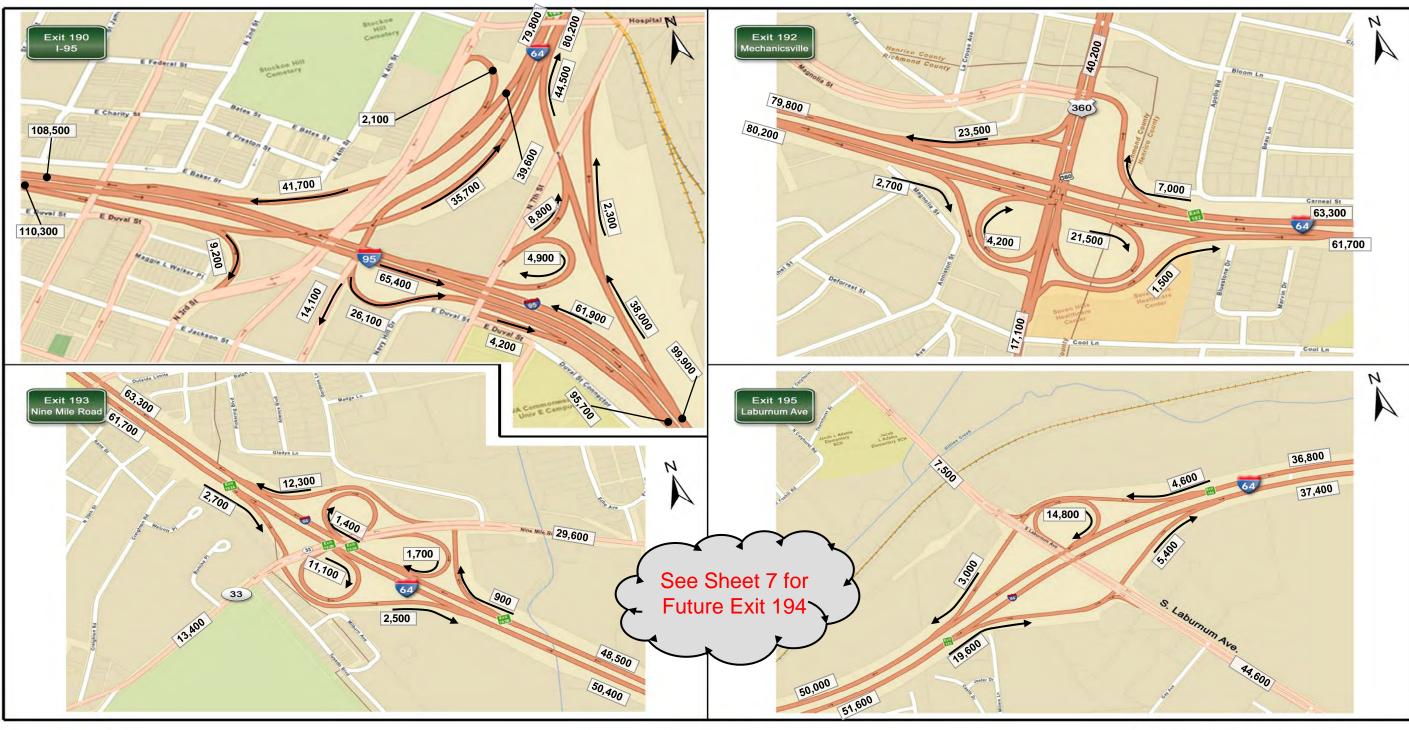






FIGURE 3: ADT Volumes

Alt 2 2040 Balanced Volumes

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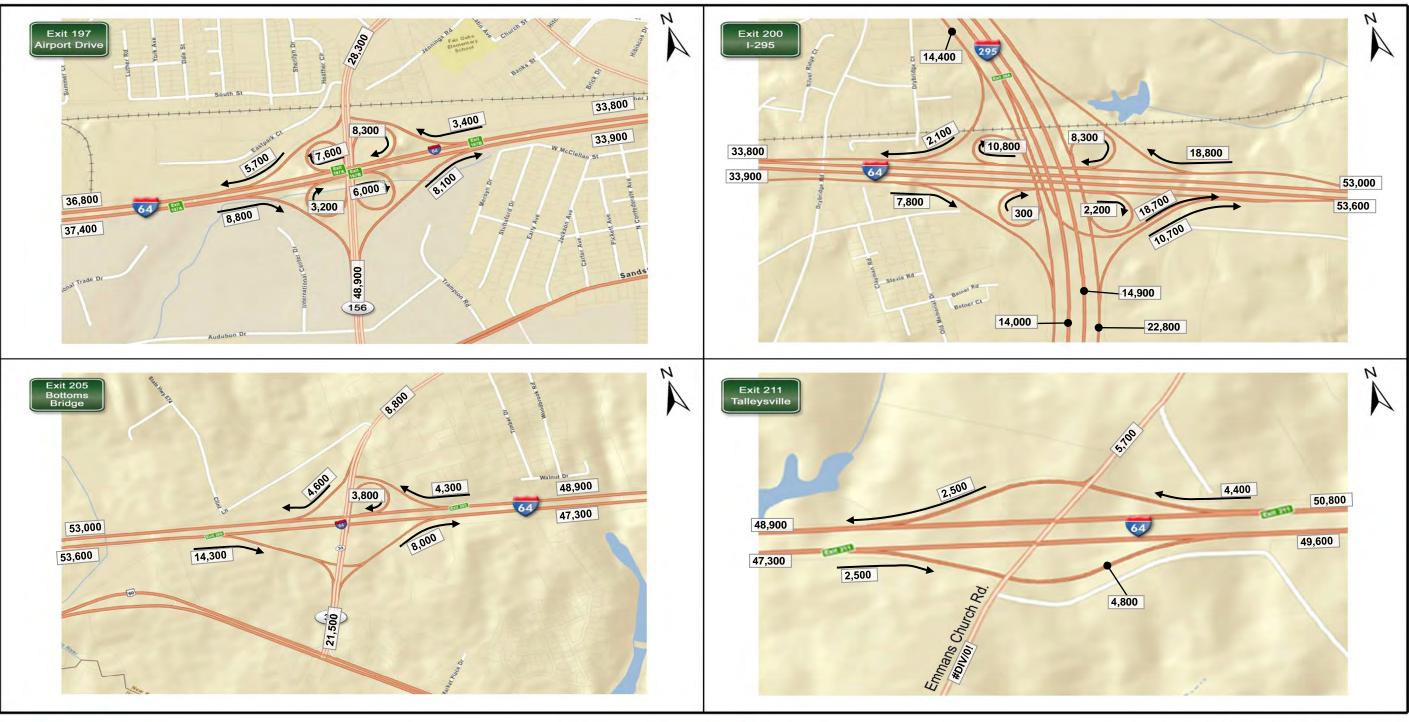






FIGURE 3: ADT Volumes

Alt 2 2040 Balanced Volumes

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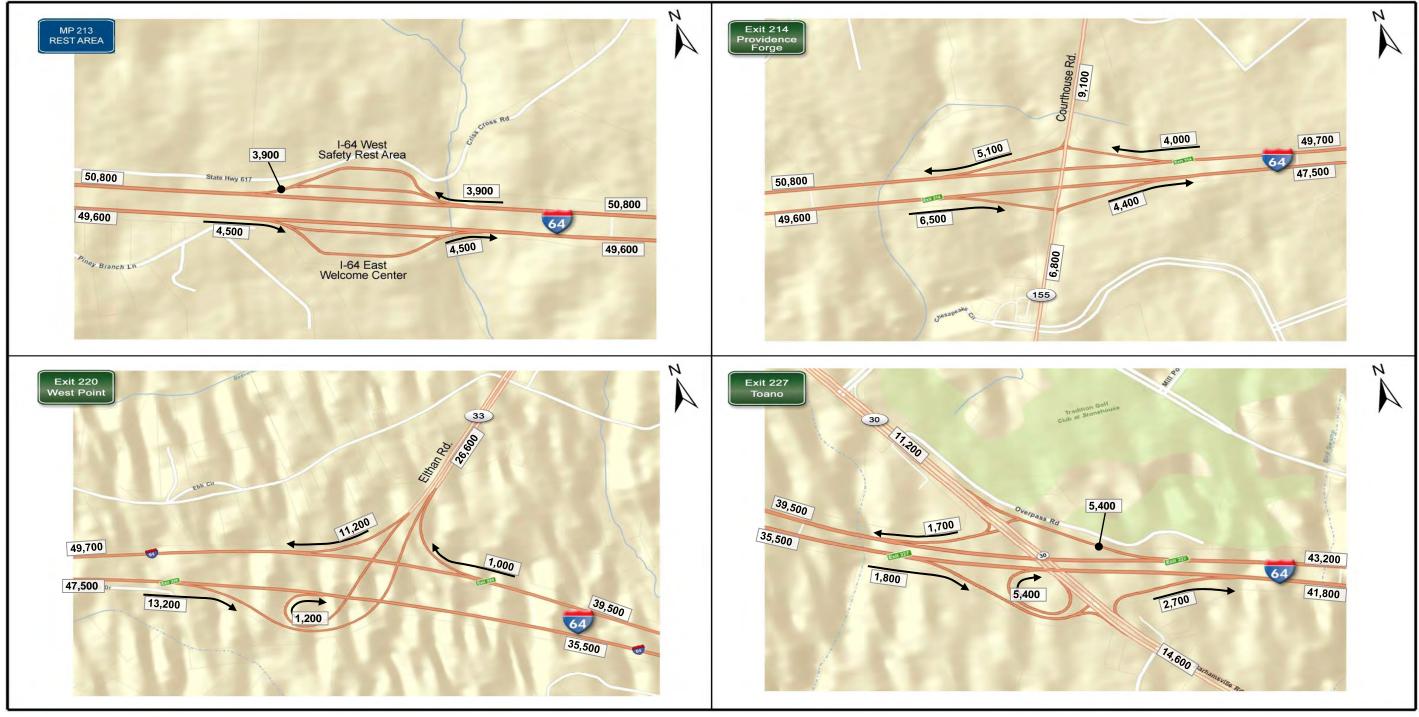






FIGURE 3: ADT Volumes

Alt 2 2040 Balanced Volumes

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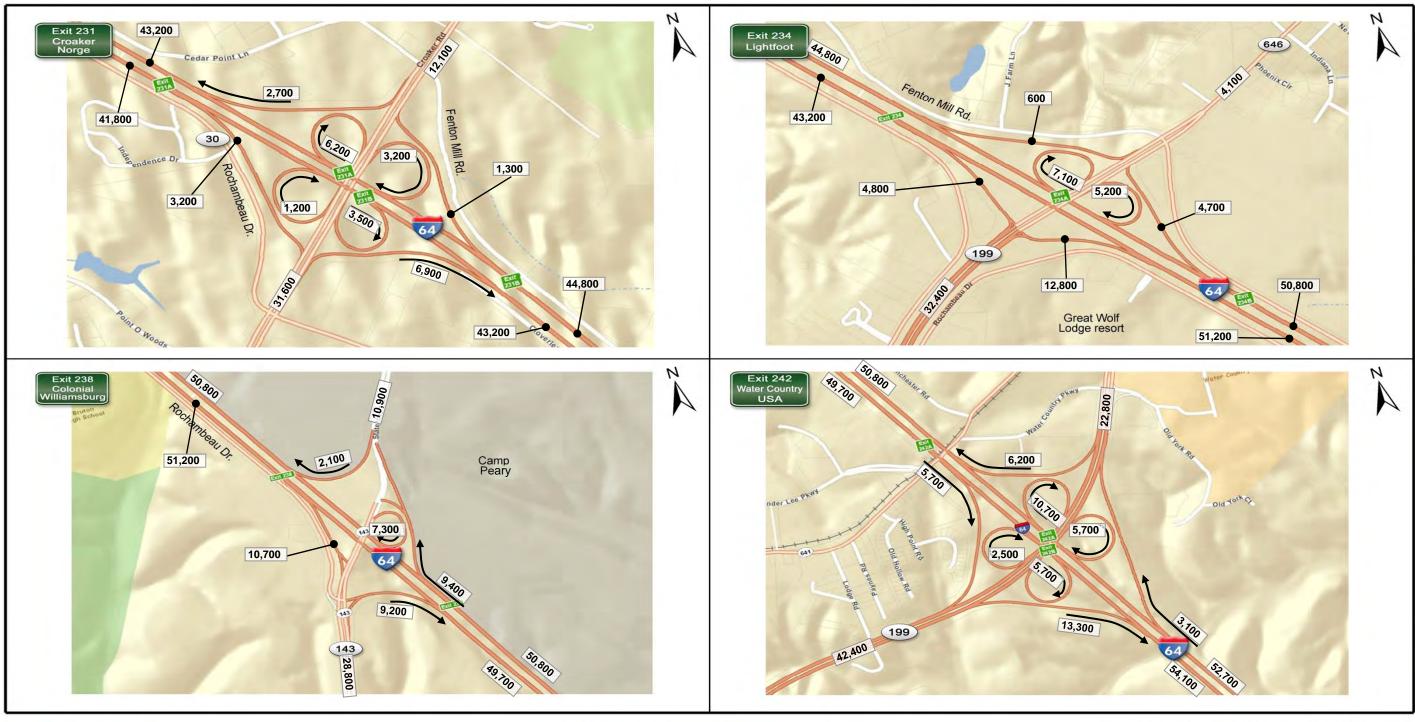






FIGURE 3: ADT Volumes

Alt 2 2040 Balanced Volumes

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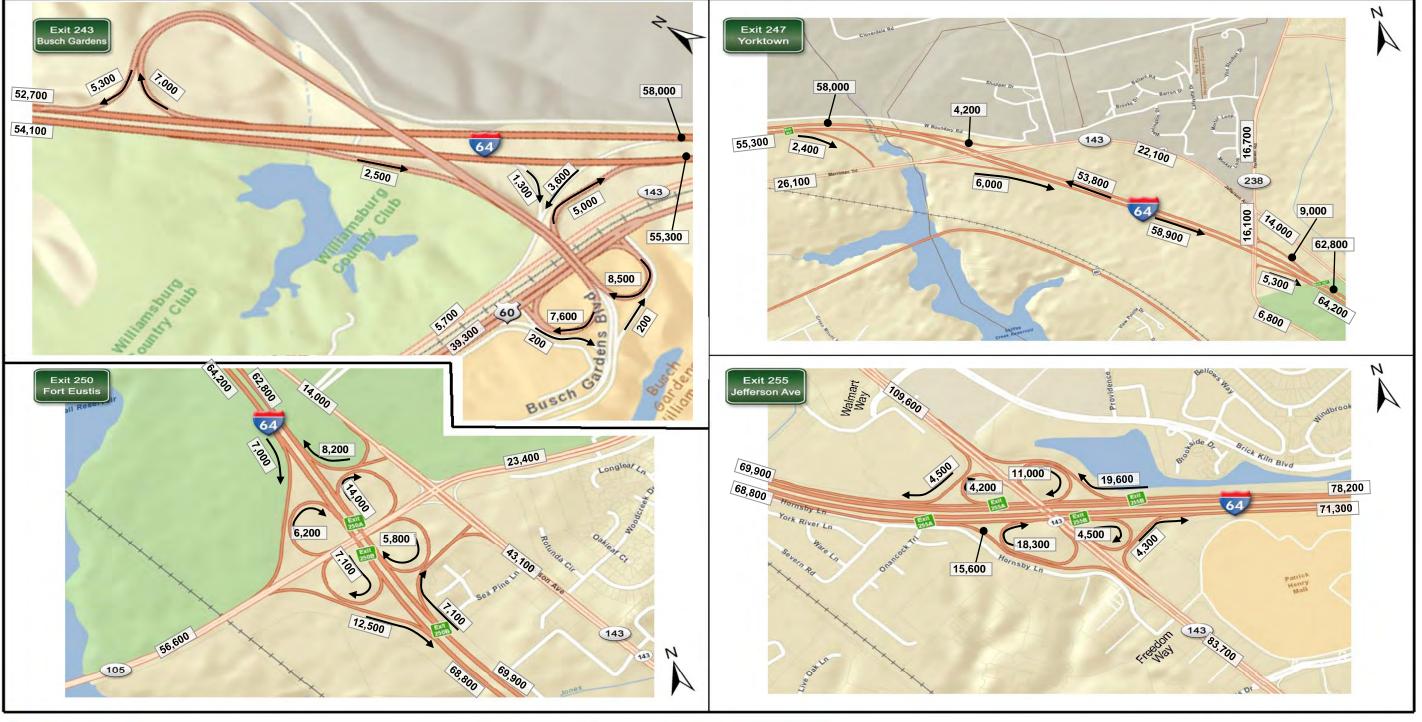






FIGURE 3: ADT Volumes

Alt 2 2040 Balanced Volumes

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DRAFT Updated 6/21/2012

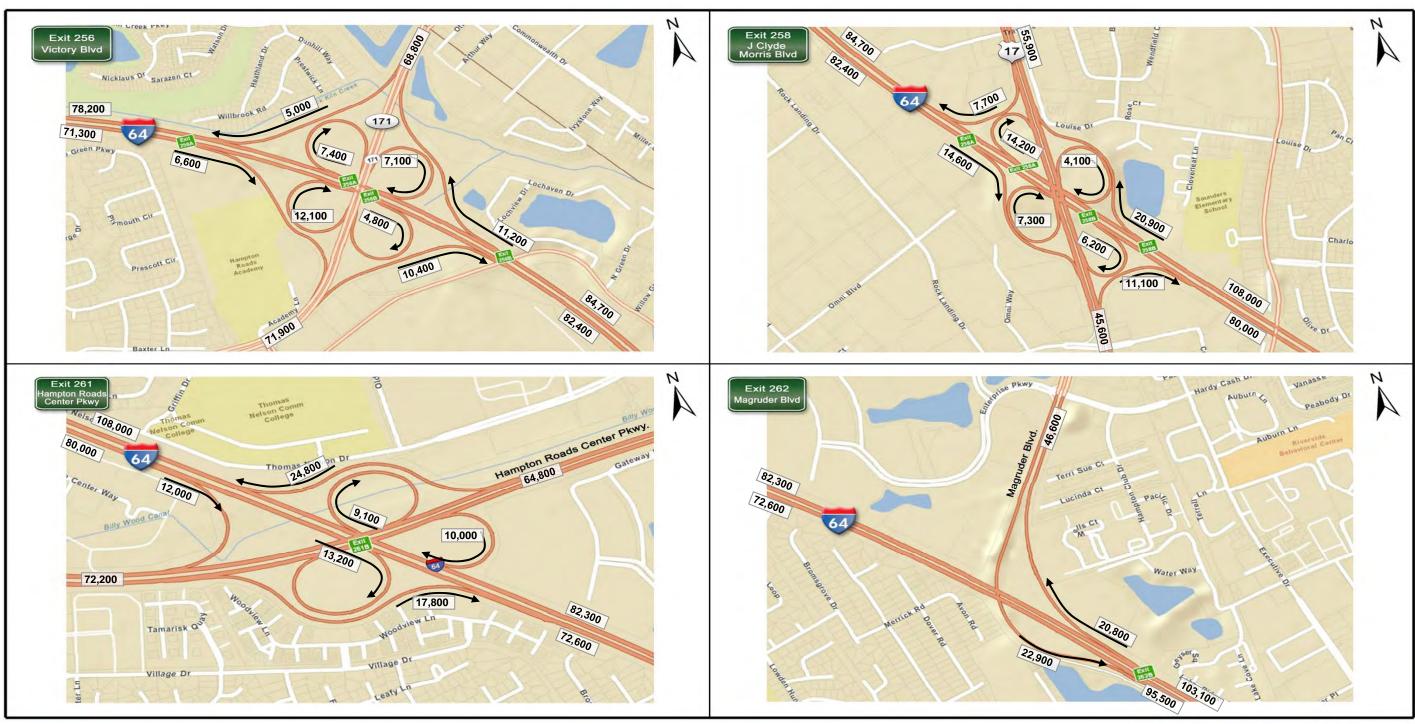


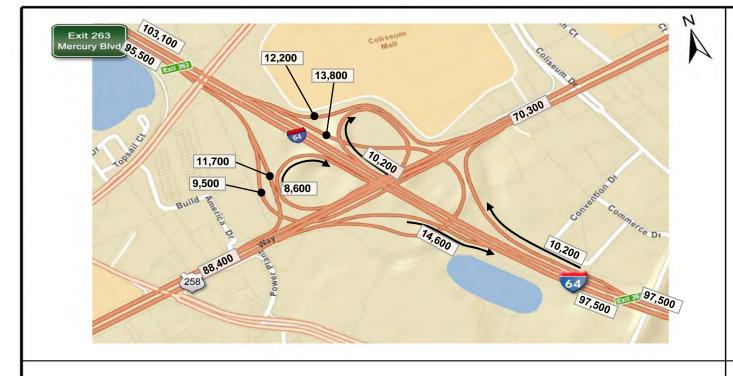


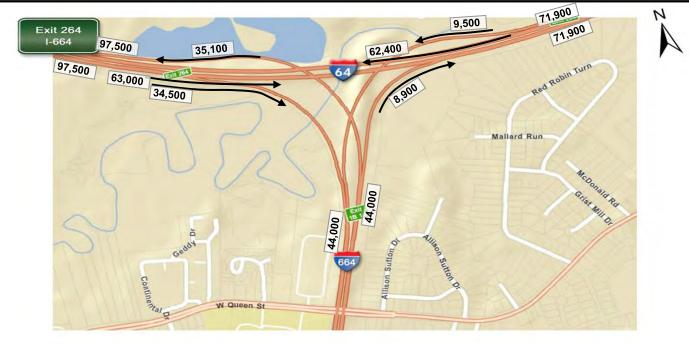


FIGURE 3: ADT Volumes

Alt 2 2040 Balanced Volumes

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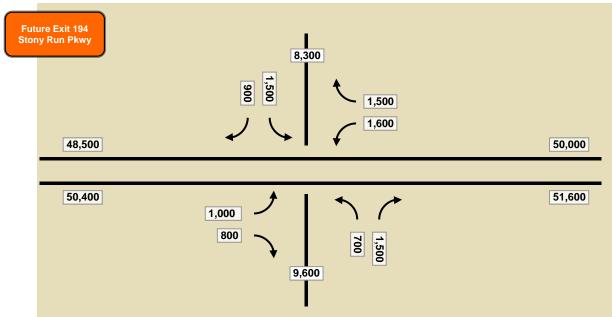








FIGURE 3: ADT Volumes

Alt 2 2040 Balanced Volumes

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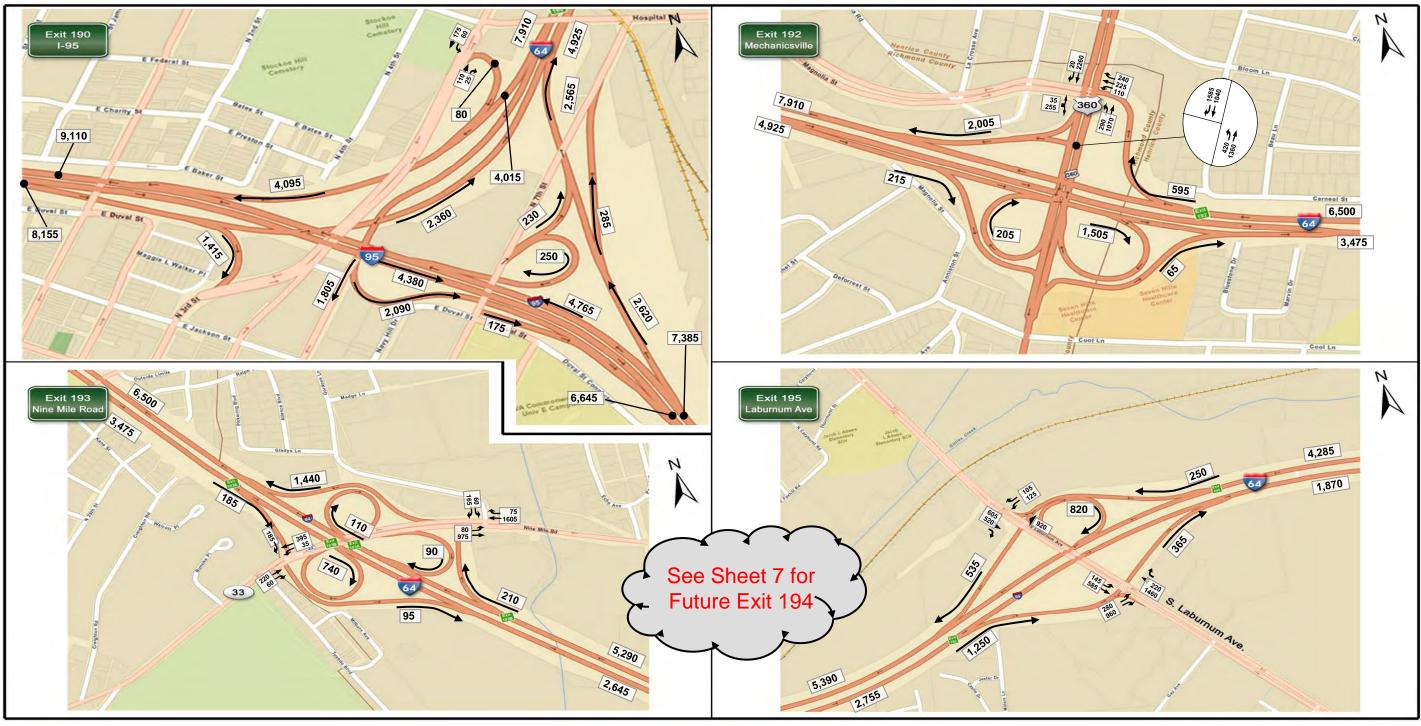






FIGURE 1: AM Peak Hour Volumes
2040 Alt 2 Balanced Volumes
Sheet 1 of 7

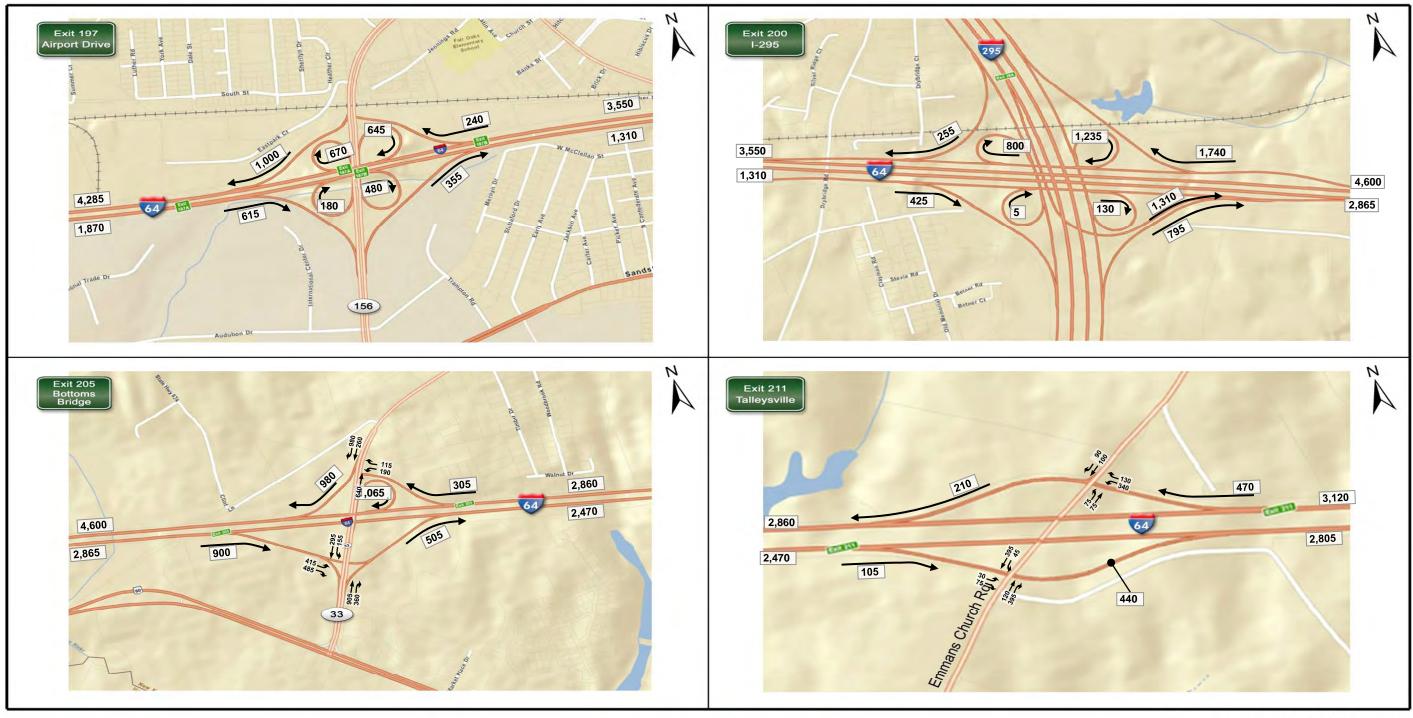






FIGURE 1: AM Peak Hour Volumes
2040 Alt 2 Balanced Volumes
Sheet 2 of 7

DRAFT Updated 6/22/12

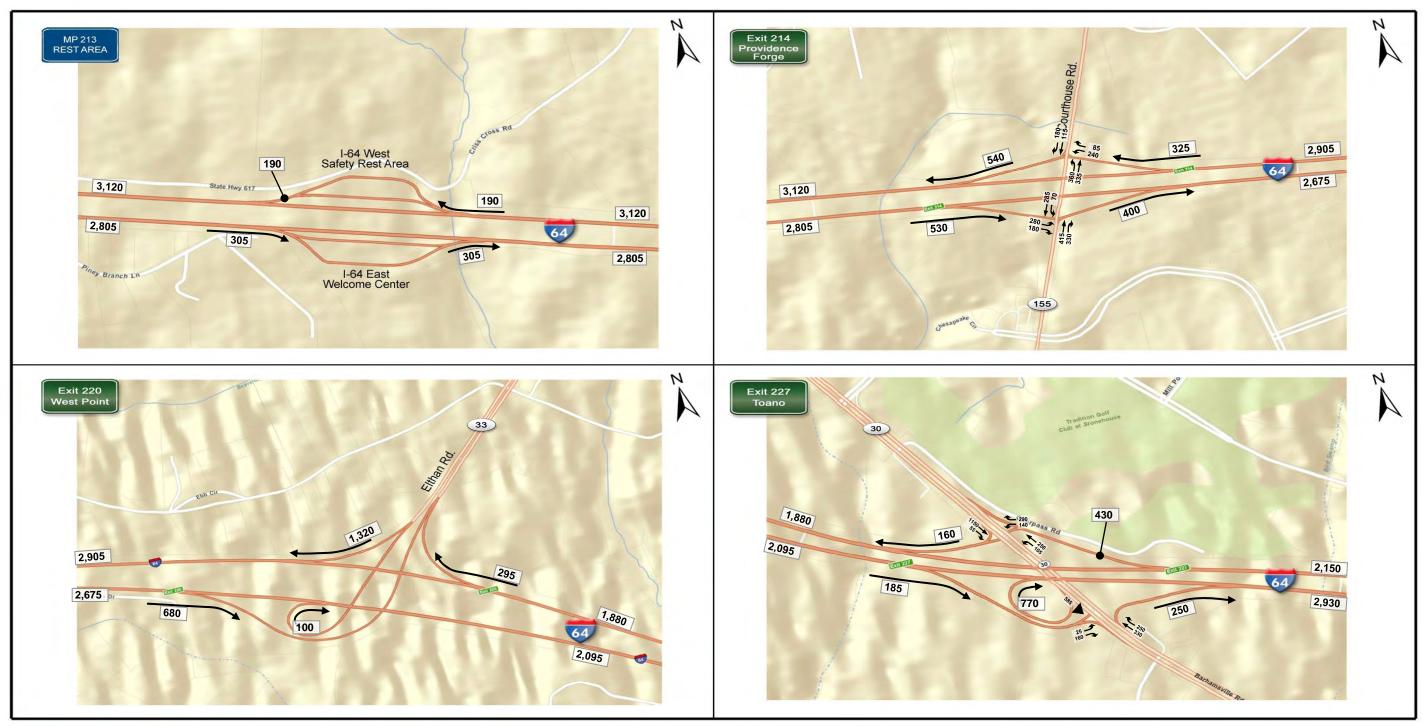






FIGURE 1: AM Peak Hour Volumes
2040 Alt 2 Balanced Volumes
Sheet 3 of 7

DRAFT Updated 6/22/12

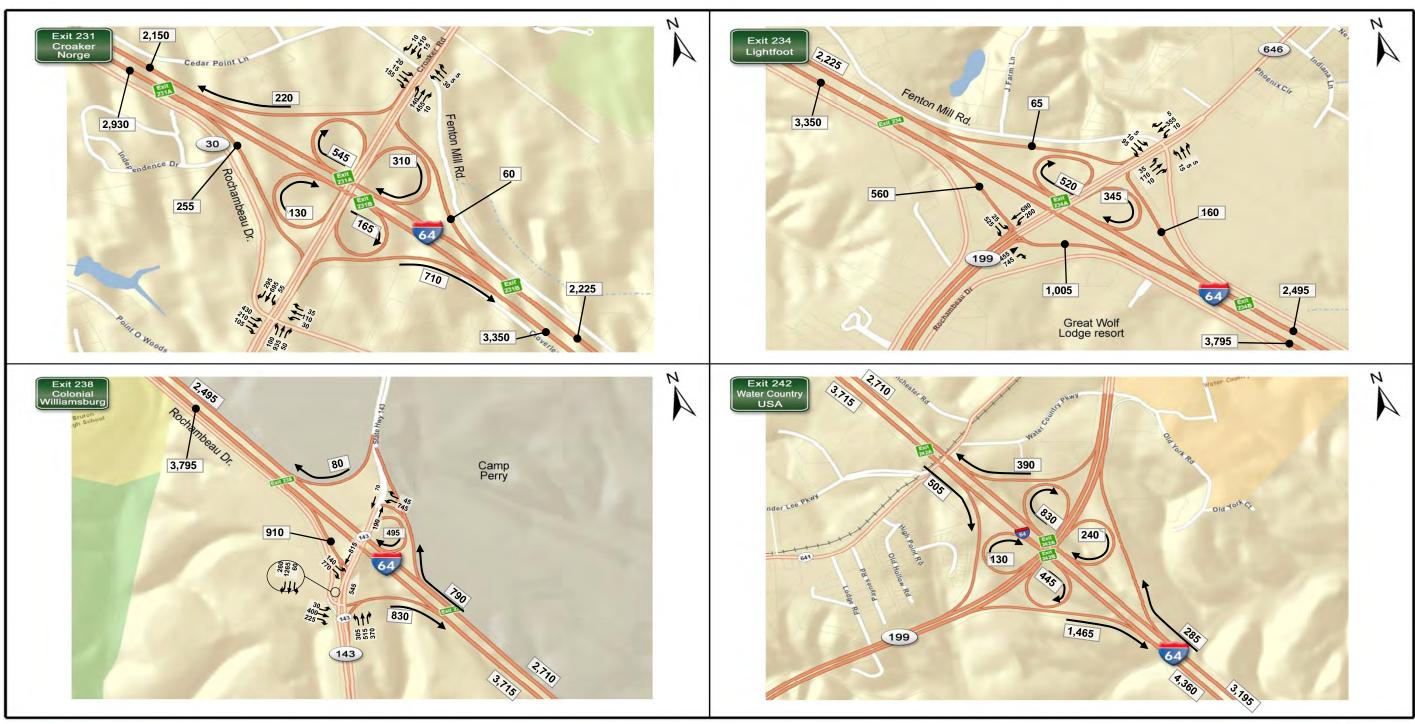






FIGURE 1: AM Peak Hour Volumes
2040 Alt 2 Balanced Volumes
Sheet 4 of 7

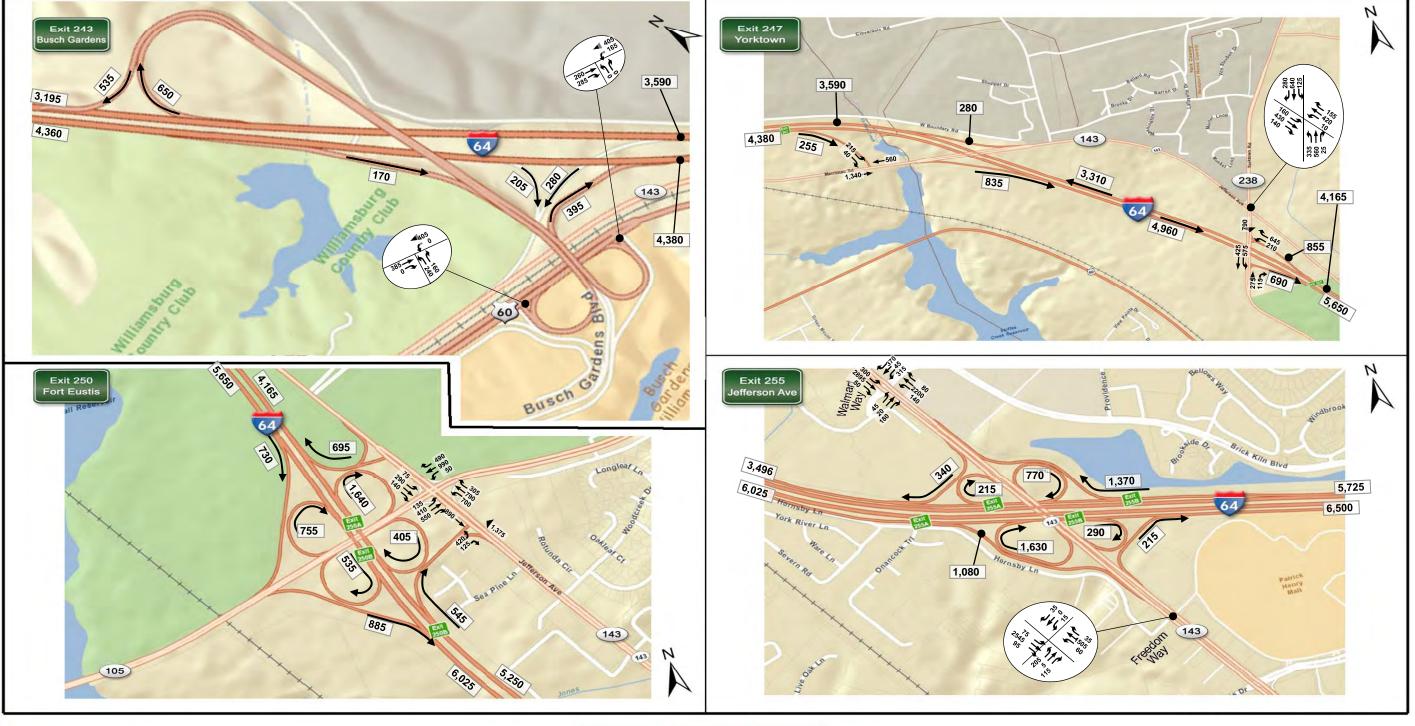






FIGURE 1: AM Peak Hour Volumes
2040 Alt 2 Balanced Volumes
Sheet 5 of 7

DRAFT Updated 6/22/12

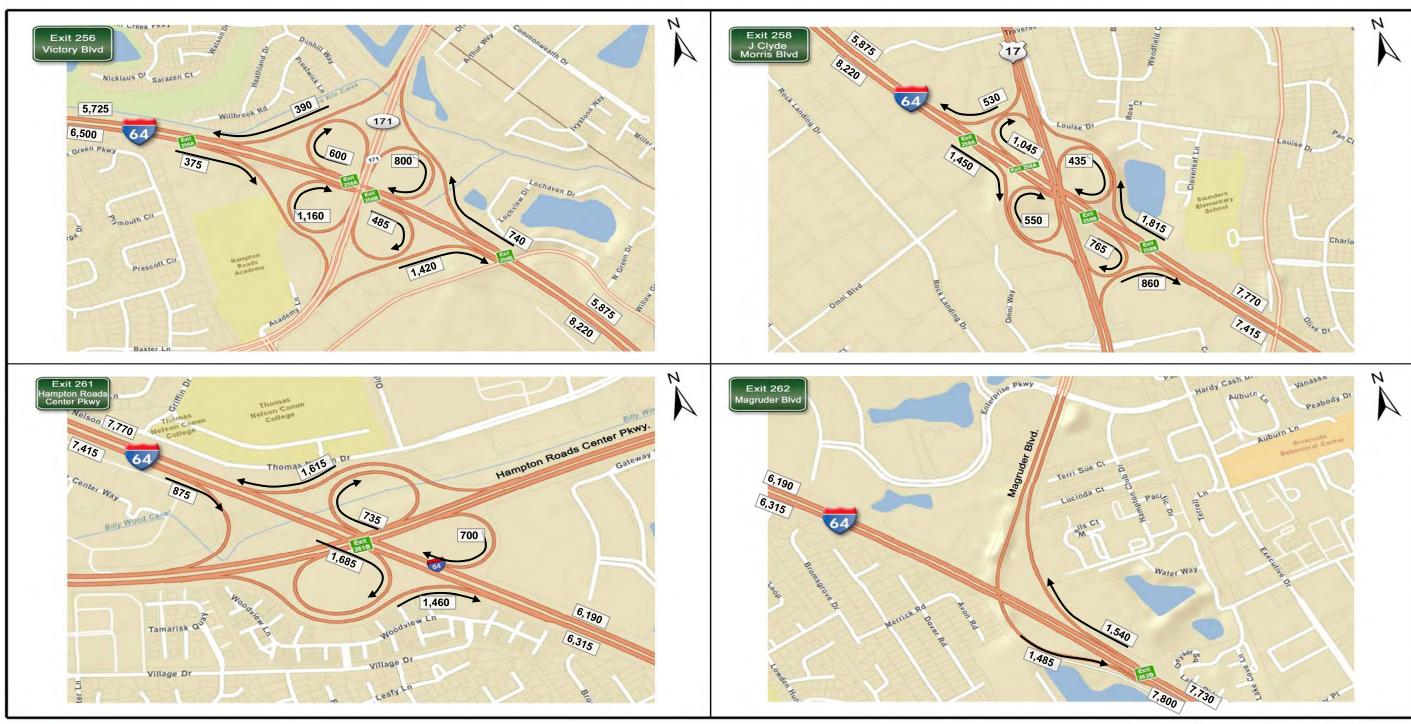






FIGURE 1: AM Peak Hour Volumes
2040 Alt 2 Balanced Volumes
Sheet 6 of 7

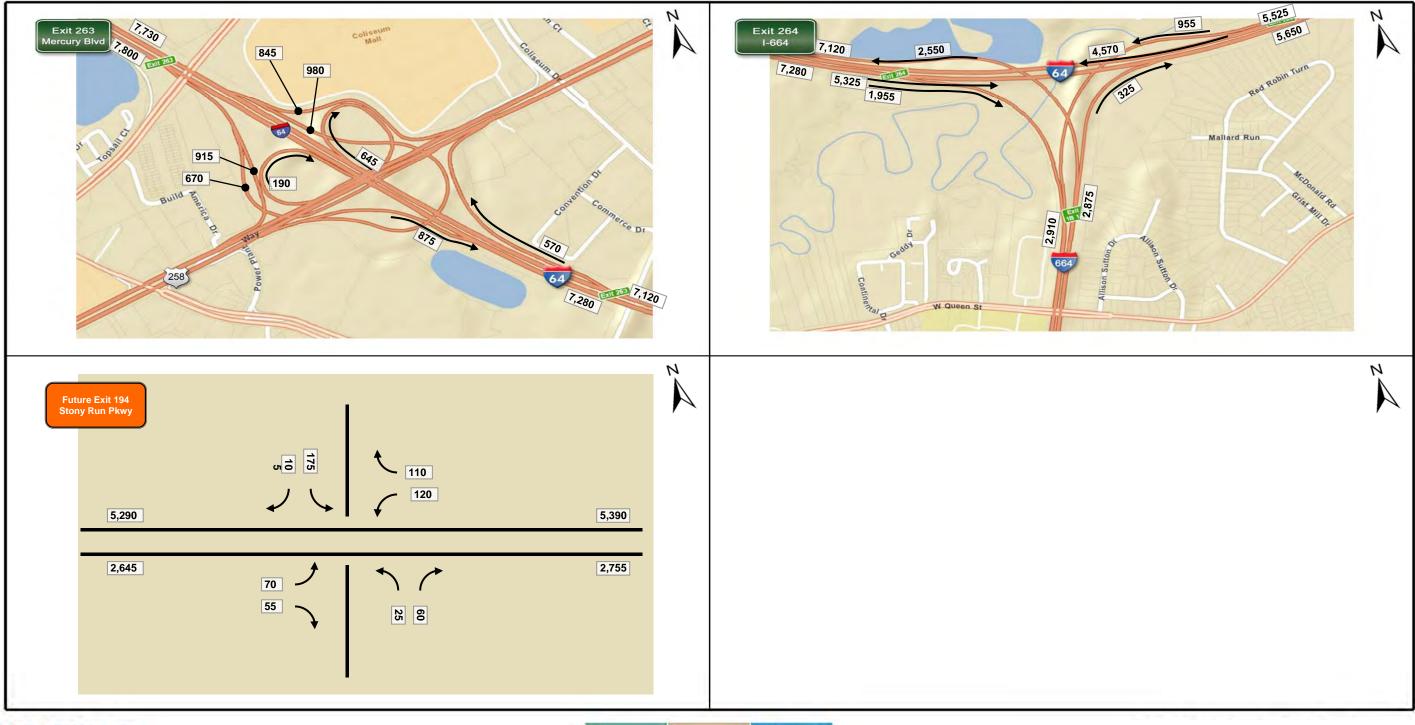






FIGURE 1: AM Peak Hour Volumes

2040 Alt 2 Balanced Volumes

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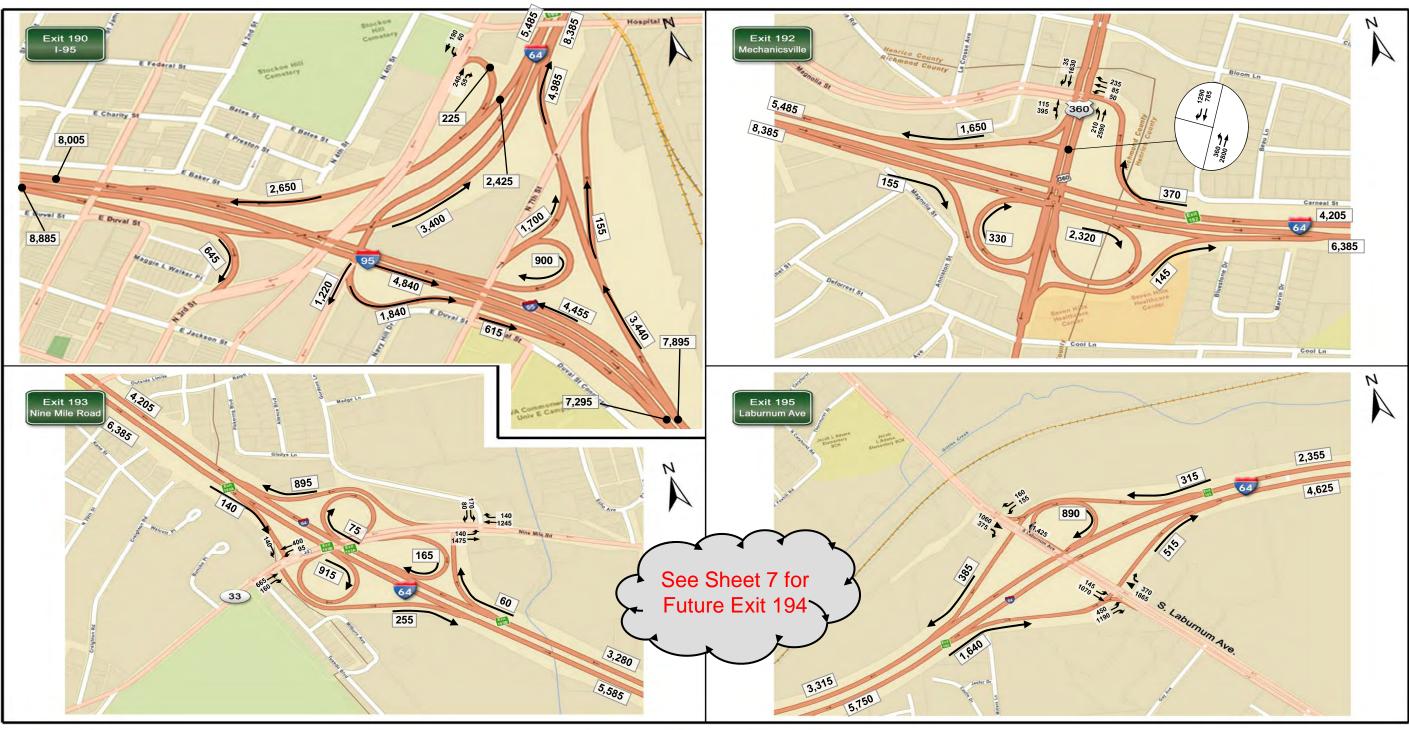






FIGURE 2: PM Peak Hour Volumes
2040 Alt 2 Balanced Volumes
Sheet 1 of 7

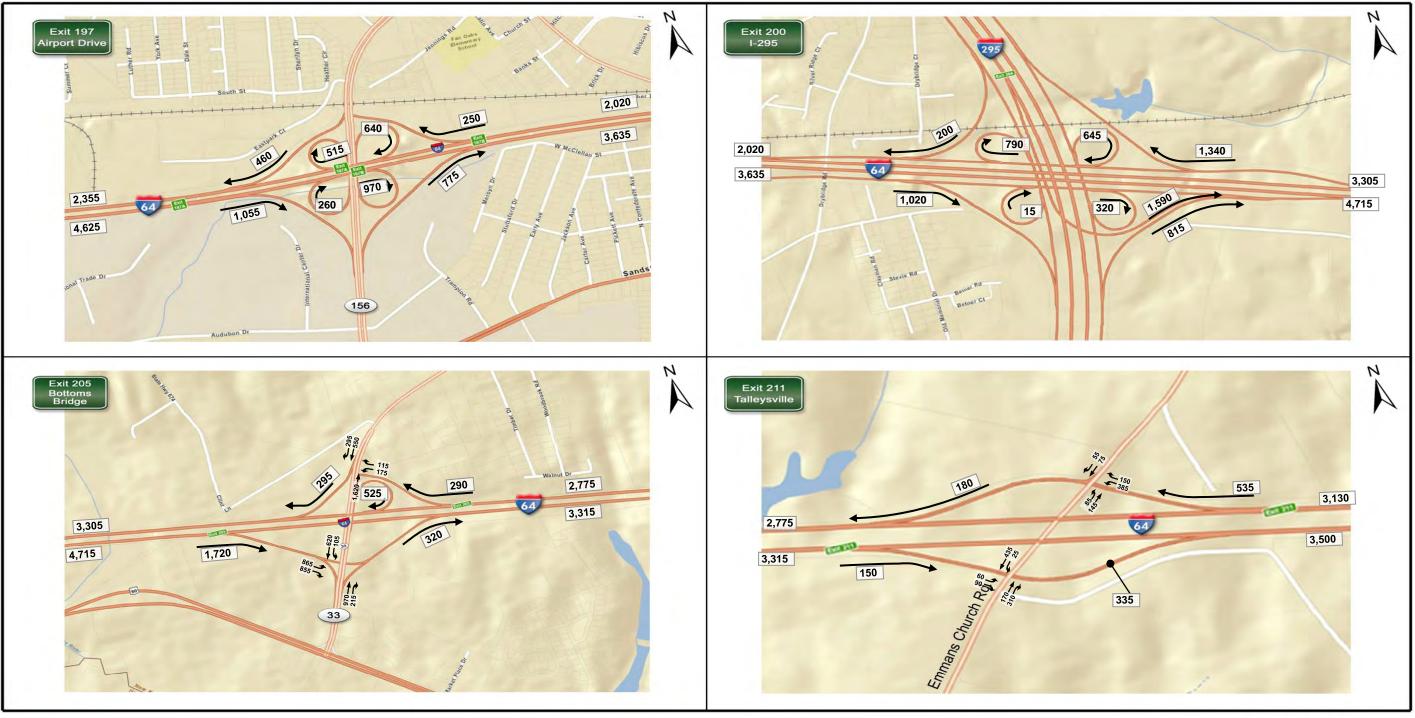






FIGURE 2: PM Peak Hour Volumes
2040 Alt 2 Balanced Volumes
Sheet 2 of 7



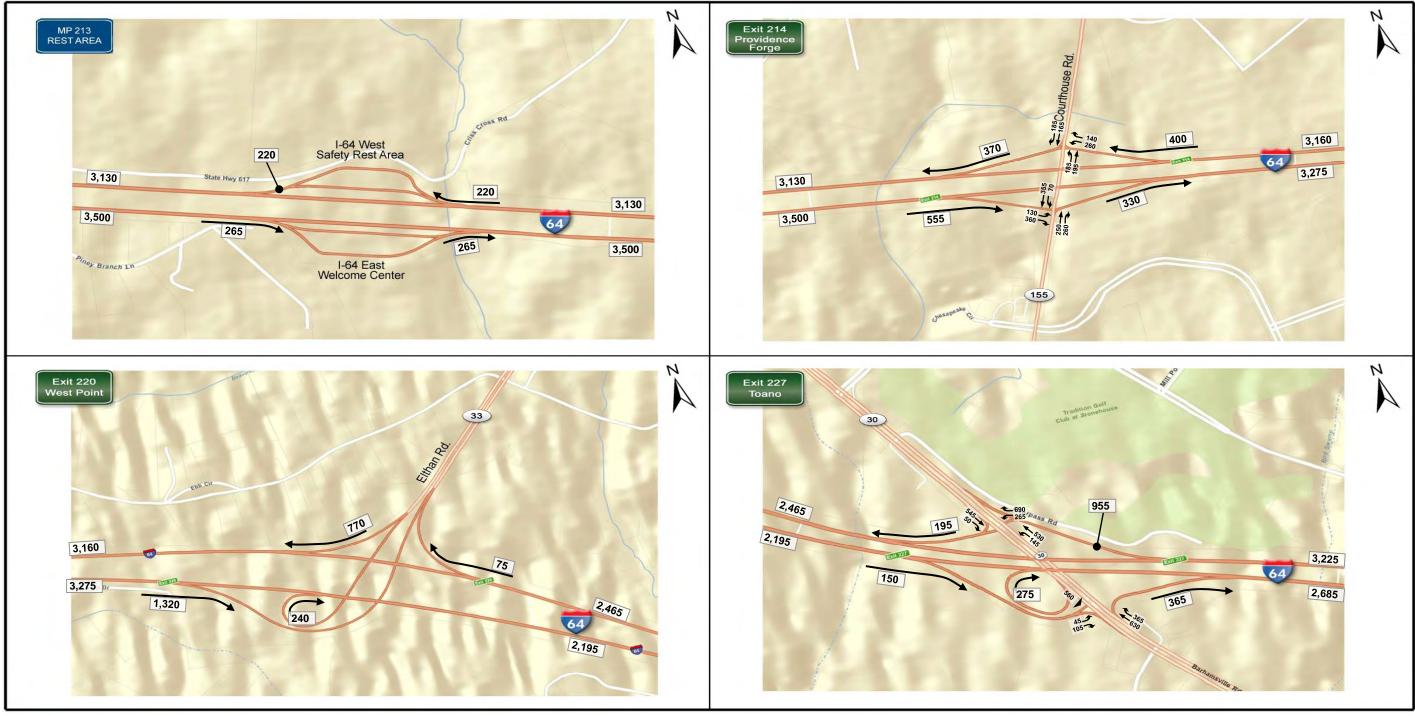






FIGURE 2: PM Peak Hour Volumes
2040 Alt 2 Balanced Volumes
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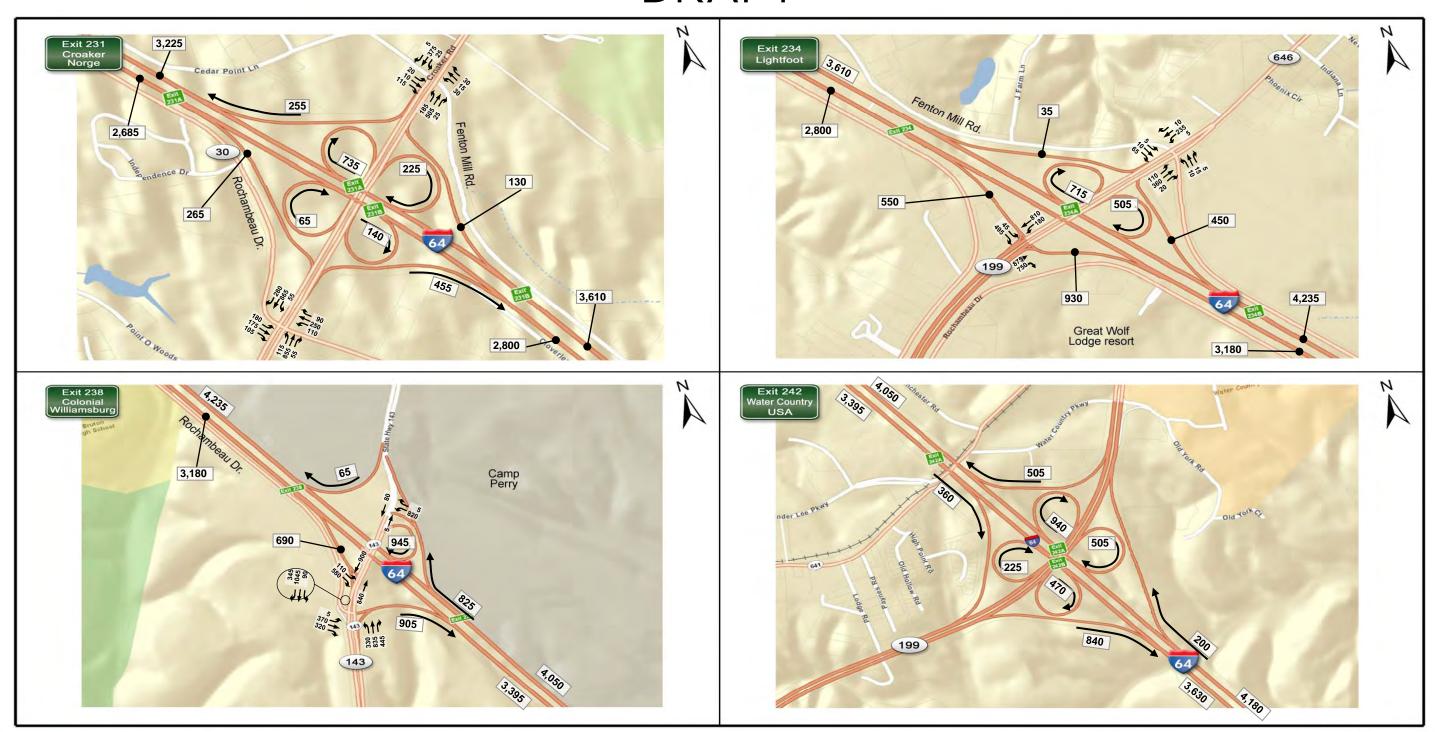






FIGURE 2: PM Peak Hour Volumes
2040 Alt 2 Balanced Volumes
Sheet 4 of 7

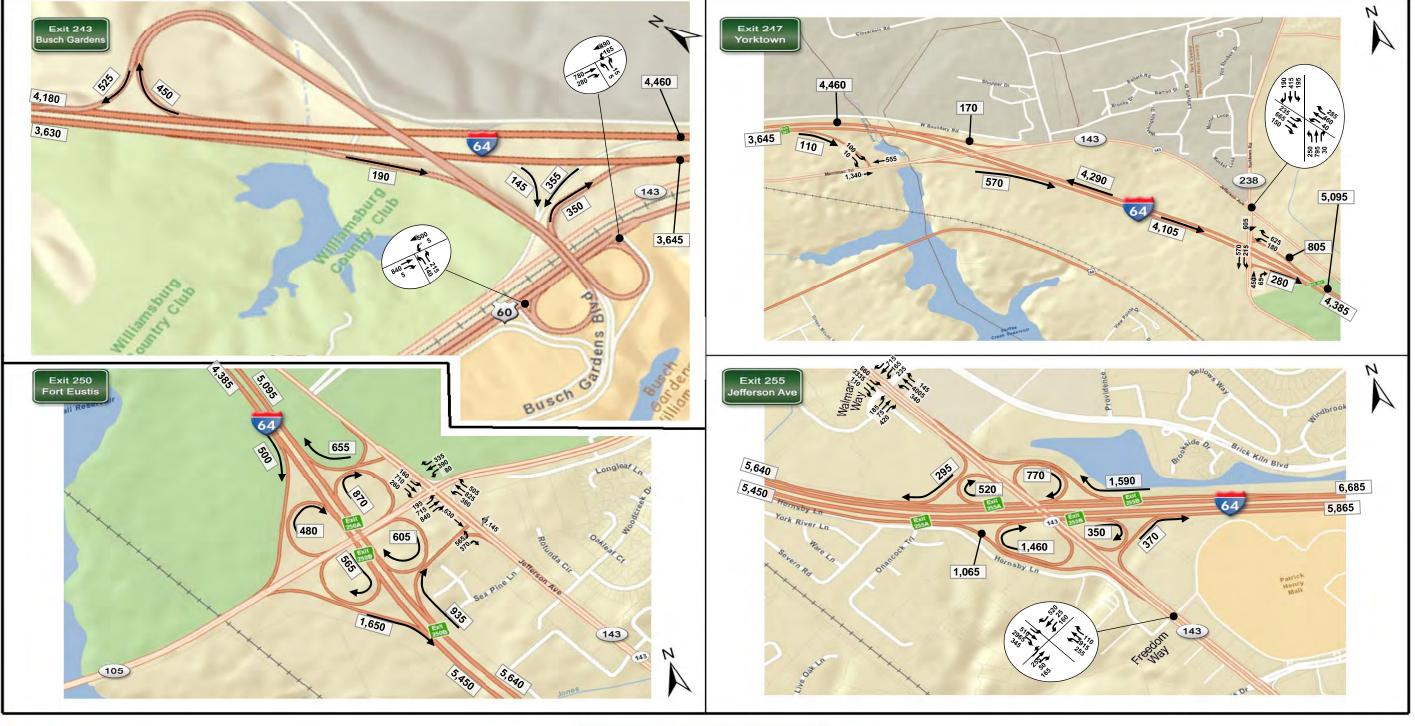






FIGURE 2: PM Peak Hour Volumes
2040 Alt 2 Balanced Volumes
Sheet 5 of 7

DRAFT Updated 6/22/12

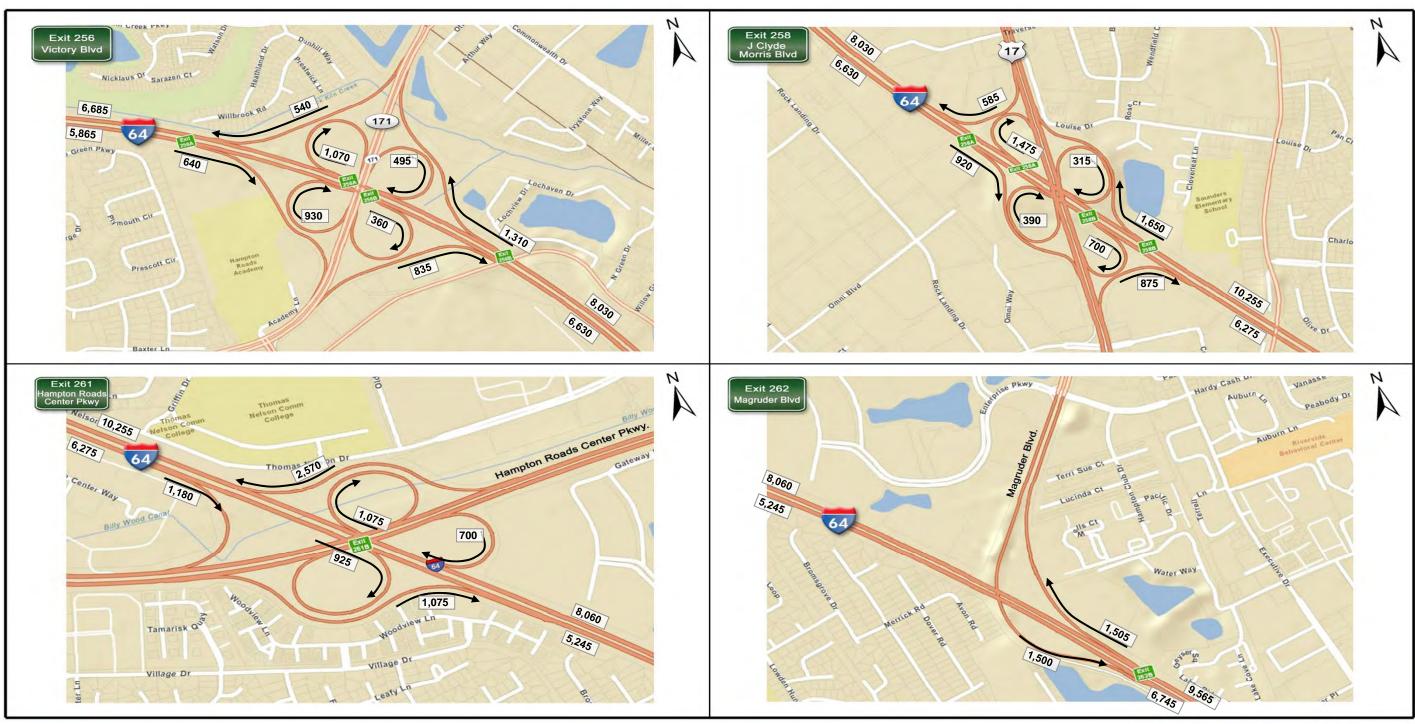






FIGURE 2: PM Peak Hour Volumes
2040 Alt 2 Balanced Volumes
Sheet 6 of 7

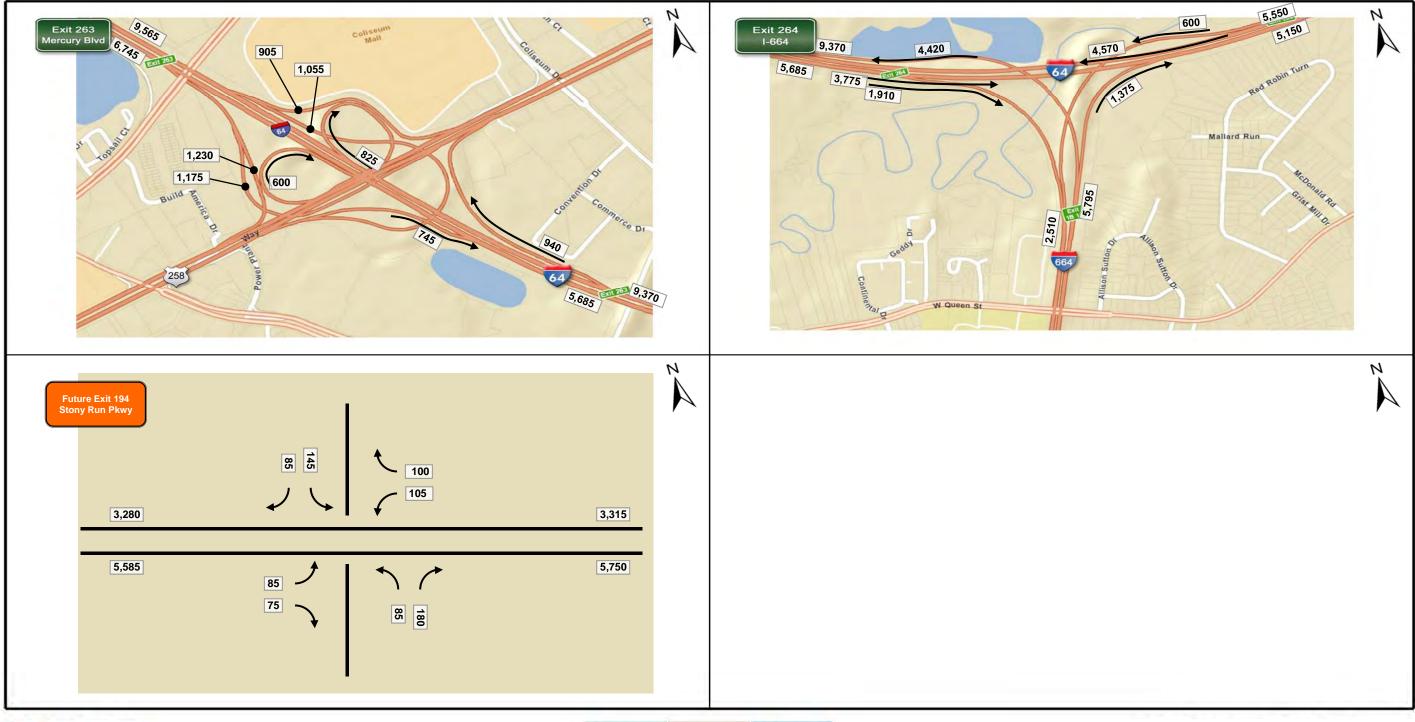
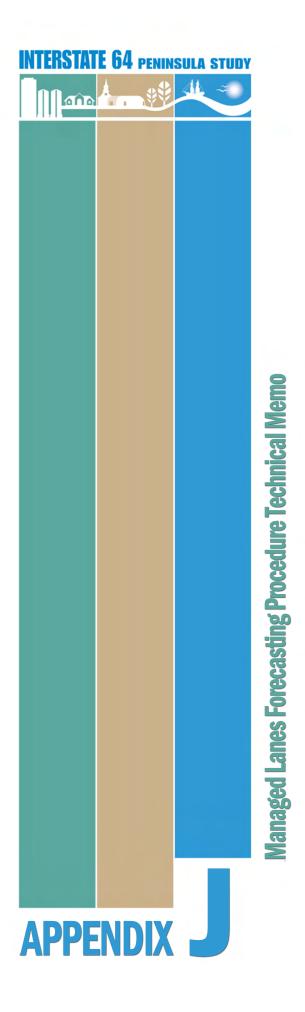






FIGURE 2: PM Peak Hour Volumes
2040 Alt 2 Balanced Volumes

Sheet 7 of 7





MEMORANDUM

TO:

FROM: Marcel Klik, RK&K

DATE: May 15, 2012

Updated August 9, 2012

SUBJECT: I-64 Peninsula Study – Additional Detail on Managed Lane Forecasting Procedure

The purpose of this memorandum is to describe in further detail the development of managed lane forecasts for the I-64 Peninsula Study. This procedure will be followed to develop forecasts for Alternative 3.

1. Define limits of Managed Lanes Implementation

Managed lanes are most effective when the level of service in adjacent General Purpose lanes is sufficiently low to provide an incentive for a driver to pay for and use the Managed lane.

An initial HCS analysis was performed on the Alternative 1 peak hour volumes to determine whether general purpose and managed lane traffic could be distributed between the two to maintain a sufficiently low (poor) level of service in the general purpose lanes and sufficiently high (good) level of service in the managed lanes. If a sufficiently poor level of service resulted in the GP lanes, there would be an incentive for use of managed lanes. However, the use of the managed lane would need to be assessed to ensure it does not become over saturated to the point that the benefit of using a managed lane (high level of service to provide free-flow conditions and significant travel time benefits) vanishes. This analysis did not account for current or projected volumes of HOV traffic.

Using HCM procedures, the percentage distribution between managed and general purpose lanes was adjusted manually until the following conditions were met:

- a. Managed Lane (ML) LOS no worse than B
- b. General Purpose (GP) LOS no better than D

This initial analysis indicated these levels of service could be achieved with the provision of two additional managed lanes between I-95 and Exit 214, one managed lane between Exit 214 and Exit 243, and two managed lanes between Exit 243 and I-664. It should be noted that this analysis was not based on any specific toll rate, but entirely on the potential for distributing traffic between the general purpose and managed lanes to achieve the desired levels of service. The actual distribution of traffic could be effected under a managed lanes scenario in a number

of ways, and would be dependent on toll rates, occupancy restrictions, and the configuration of the general purpose and managed lanes.

2. Determine potential for reversible lanes within study corridor

Reversible lanes may be appropriate when there is a distinct directionality in the projected traffic flow, e.g., predominant inbound traffic during the AM peak, and predominant outbound flow during the PM peak. If the difference in inbound and outbound volumes exceeds the capacity of one or more lanes, a reversible lane can reduce the necessary footprint. In the Richmond area, projected traffic volumes do exhibit this characteristic, and reversible lane operation could be feasible between I-95 and Exit 220.

In the Hampton Roads area, the preliminary analysis shows that widening the current HOV lanes to two Managed Lanes would be required.

3. Determine number of lanes for Managed section(s)

Using the approximation procedure in Step 1 will also determine the number of required lanes to maintain LOS B or better in the Managed lanes. The preliminary assessment shows that at least two Managed lanes would be required in the peak direction in both the Richmond area as well as the Hampton Roads area.

4. Code managed lanes into the Super Regional Tidewater Model (SRTW)

After consultation with VDOT TMPD, the managed lanes will be coded in the SRTW using the following assumptions:

| Value of Time (VOT) | 37 cents/minute in Richmond area, per VDOT discussions on 8/7/12 20 cents/minute in Hampton Roads, per original Super Regional Tidewater Model |
|------------------------|--|
| Managed Lane toll rate | 22.5 cents/mile, per review of toll rates of comparable facilities in Northeast United States |
| Managed Lane coding | Free-flow speeds increased 2-4 mph on manged lanes over main lanes to initially attract traffic in free flow condition |
| Lane Configuration | Two reversible managed lanes from western terminus to Exit 214 One managed lane in each direction between Exits 214 and 247 Two managed lanes in each direction east of Exit 247 to eastern project limit No additional General Purpose lanes |
| k-factors | Based on 2011 k-factors: 4.3 to 11.0 percent of daily one-way traffic during AM peak 6.1 to 9.8 percent of daily one-way traffic during PM peak |
| Interchange access | No special access/ramps to managed lanes at interchanges; all movements from managed and general purpose lanes occur at existing ramps |

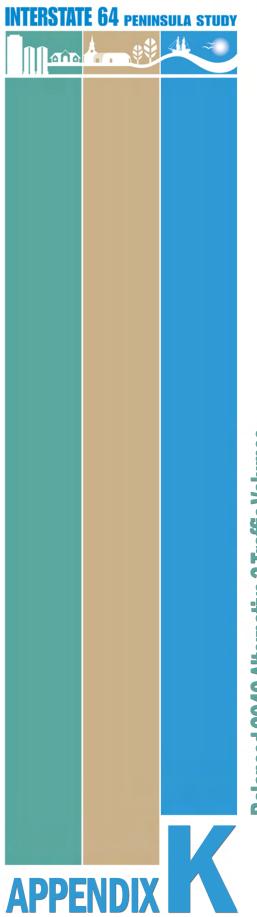
The SRTW will be run using the trip table from Alternative 1 (this is a conservative assumption).

5. Run SRTW and review model output

Model output from the SRTW model runs will be reviewed and analyzed to verify the assumptions made in step 1, and finalize the footprint for Alternative 3. This step will also provide guidance to determine whether additional General Purpose lanes would be needed on segments that are still shown to operate at LOS F in the preliminary assessment in Step 1.

The initial assessment in Steps 1-3 indicates that two reversible managed lanes could be required between Exits 190 and 214 to mitigate projected peak hour congestion. A single managed lane in each direction between Exits 220 and 247 could be sufficient to accommodate both weekday peak hour traffic as well as summer weekend traffic. East of Exit 247, two non-reversible Managed lanes would be required. A transition between the permanent and reversible Managed lanes between Exits 214 and 220 would be required.





Balanced 2040 Alternative 3 Traffic Volumes

Updated 8/14/2012

DRAFT

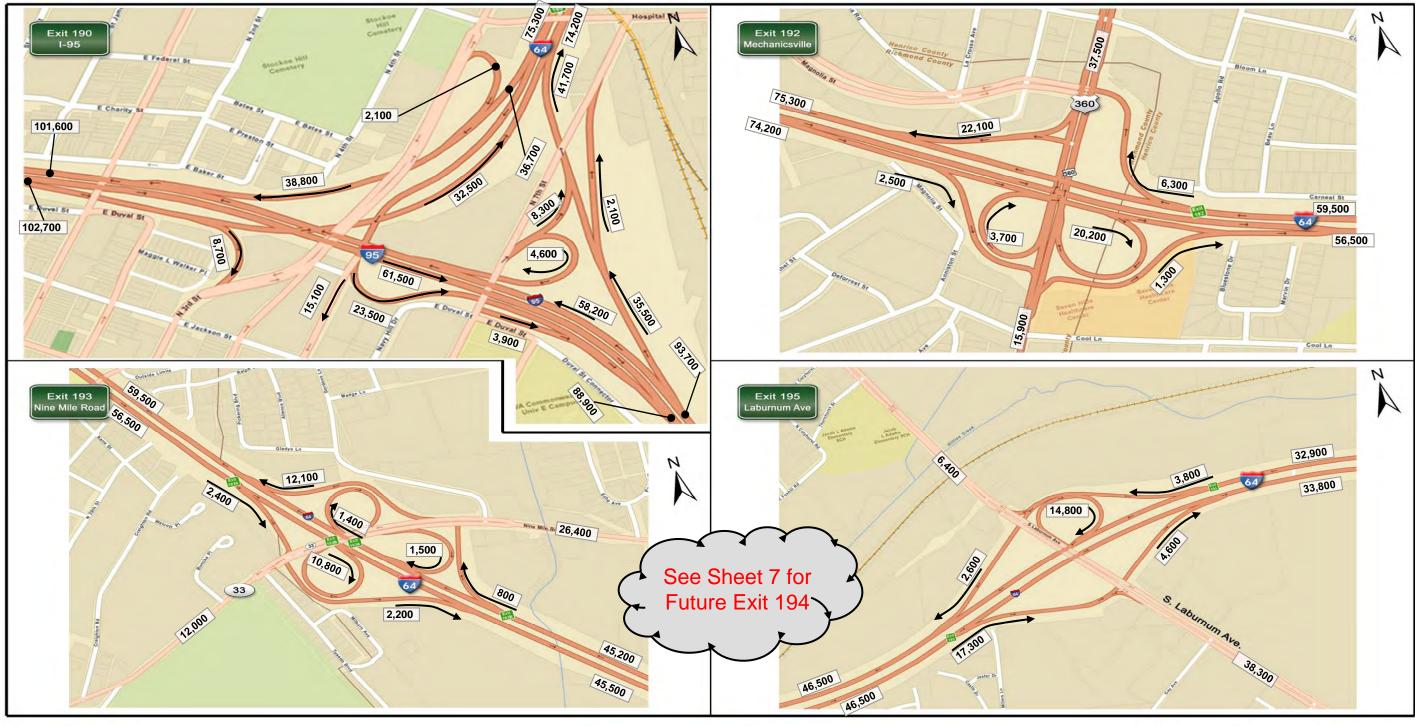






FIGURE 3:

ADT Volumes
Alt 3 2040 Balanced Volumes

Sheet 1 of 7

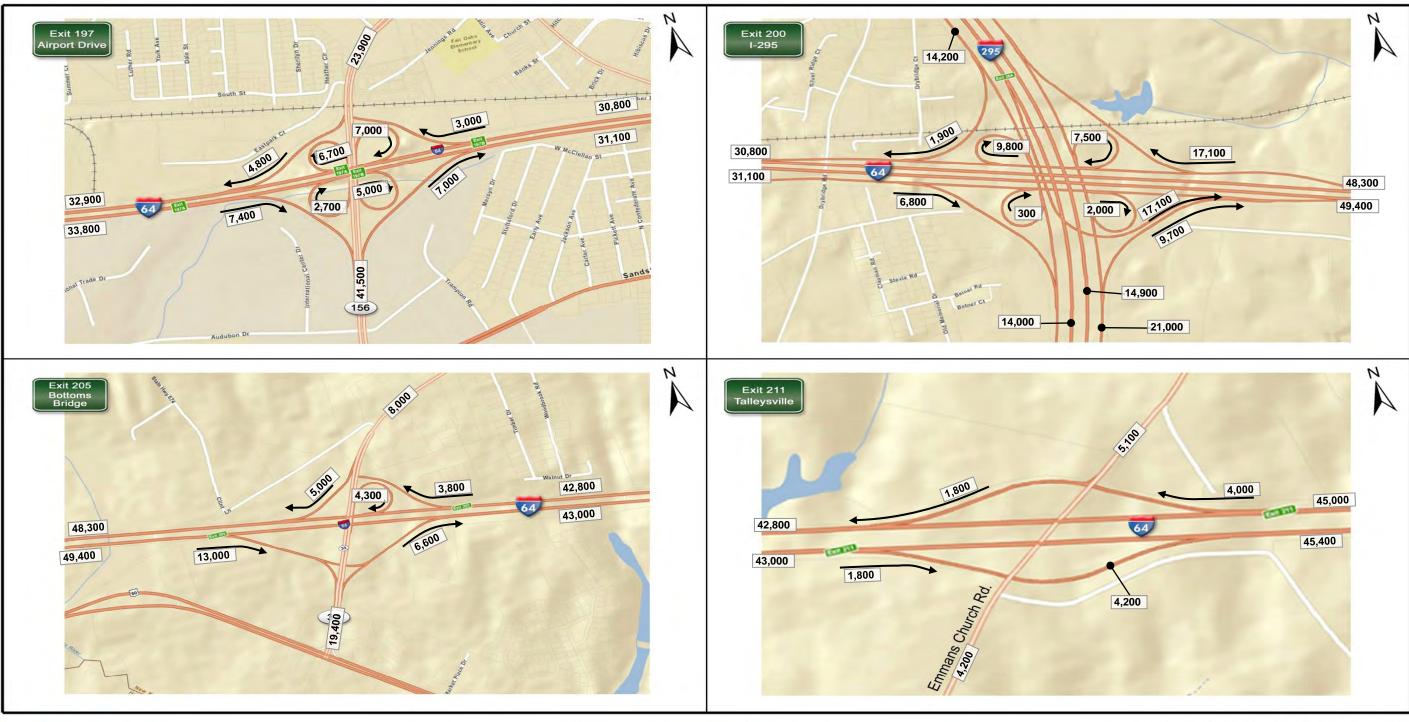






FIGURE 3:

ADT Volumes

Alt 3 2040 Balanced Volumes

Sheet 2 of 7

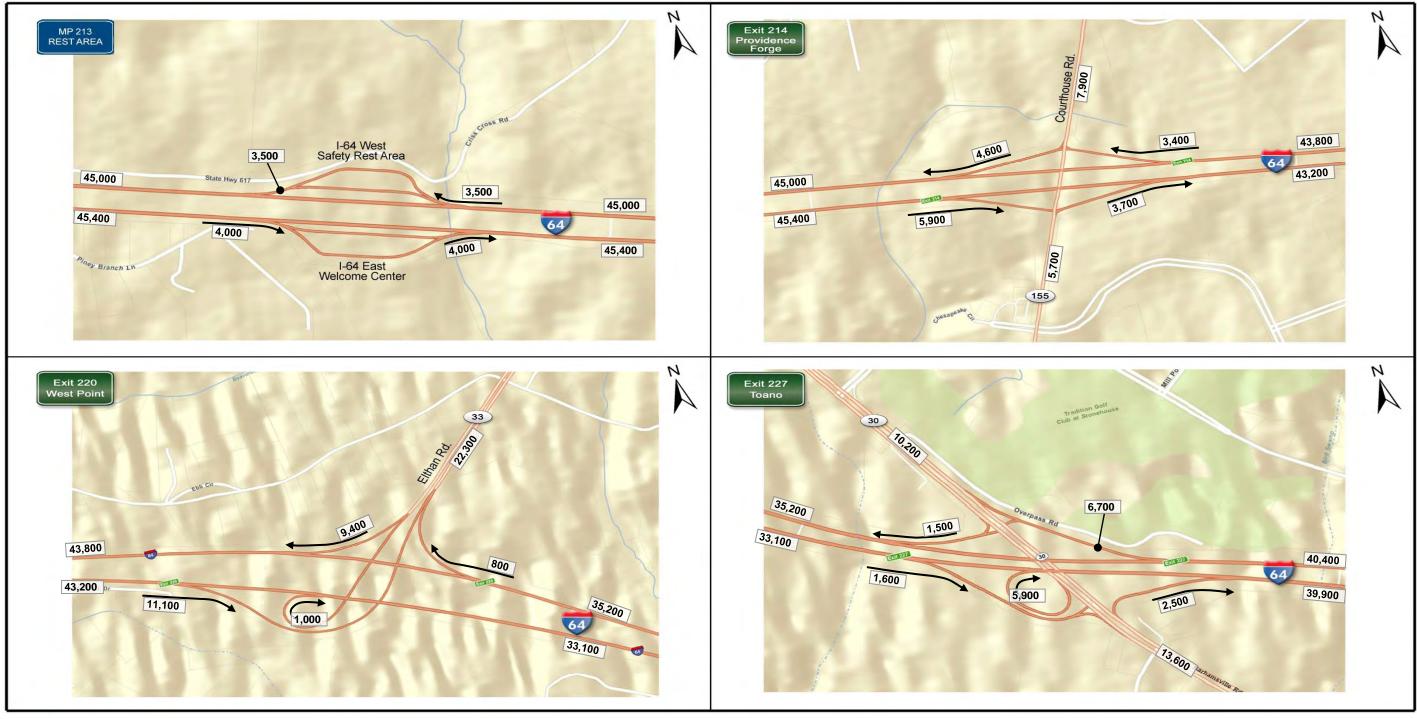






FIGURE 3:

ADT Volumes

Alt 3 2040 Balanced Volumes

Note: Sum of General Purpose and Managed Lane volumes shown Sheet 3 of 7

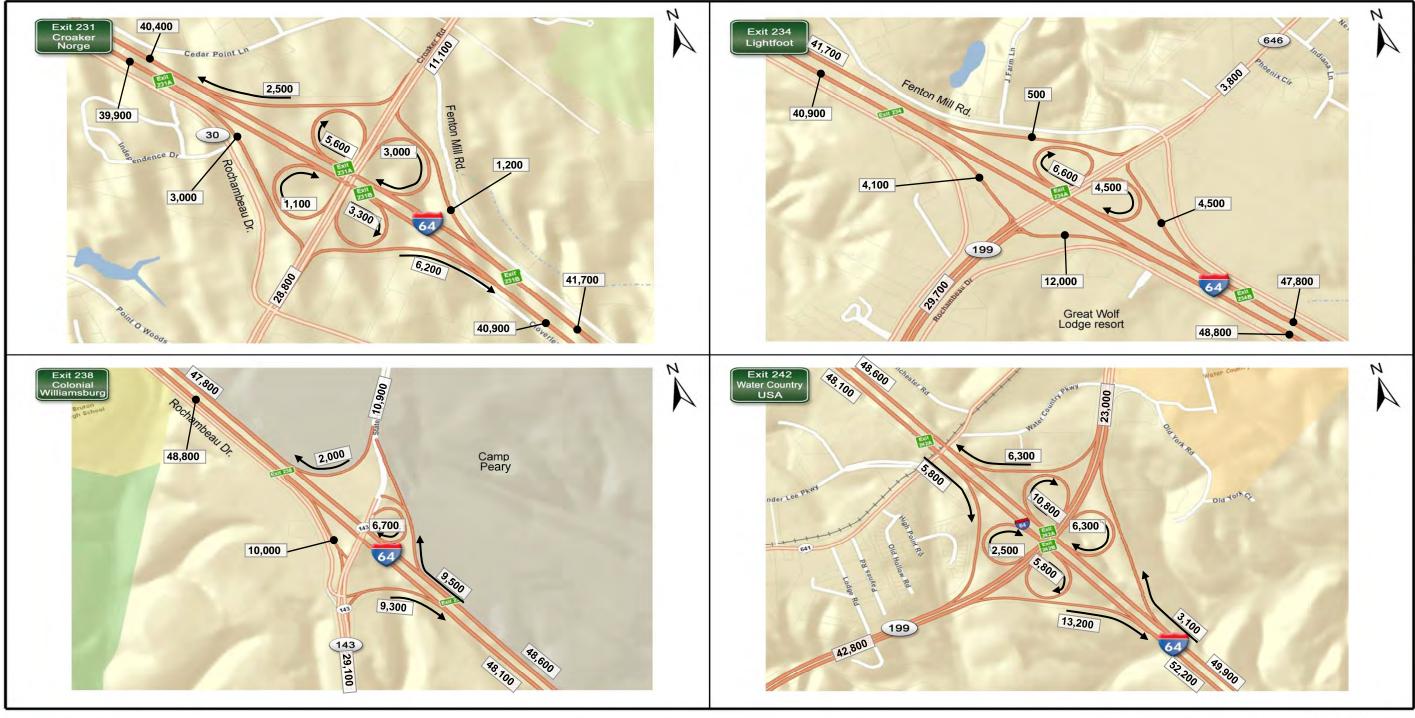






FIGURE 3:

ADT Volumes

Alt 3 2040 Balanced Volumes

Sheet 4 of 7

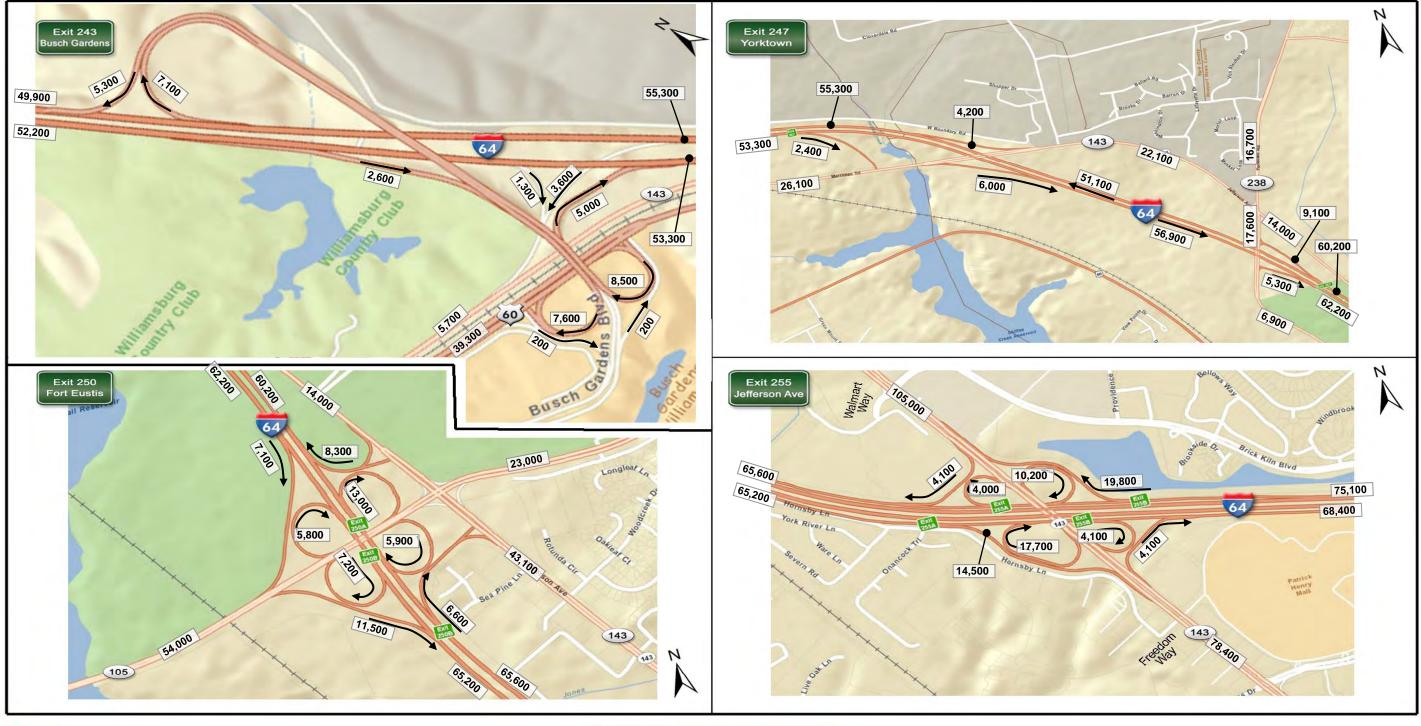






FIGURE 3:

ADT Volumes

Alt 3 2040 Balanced Volumes

Sheet 5 of 7

Note: Sum of General Purpose and Managed Lane volumes shown

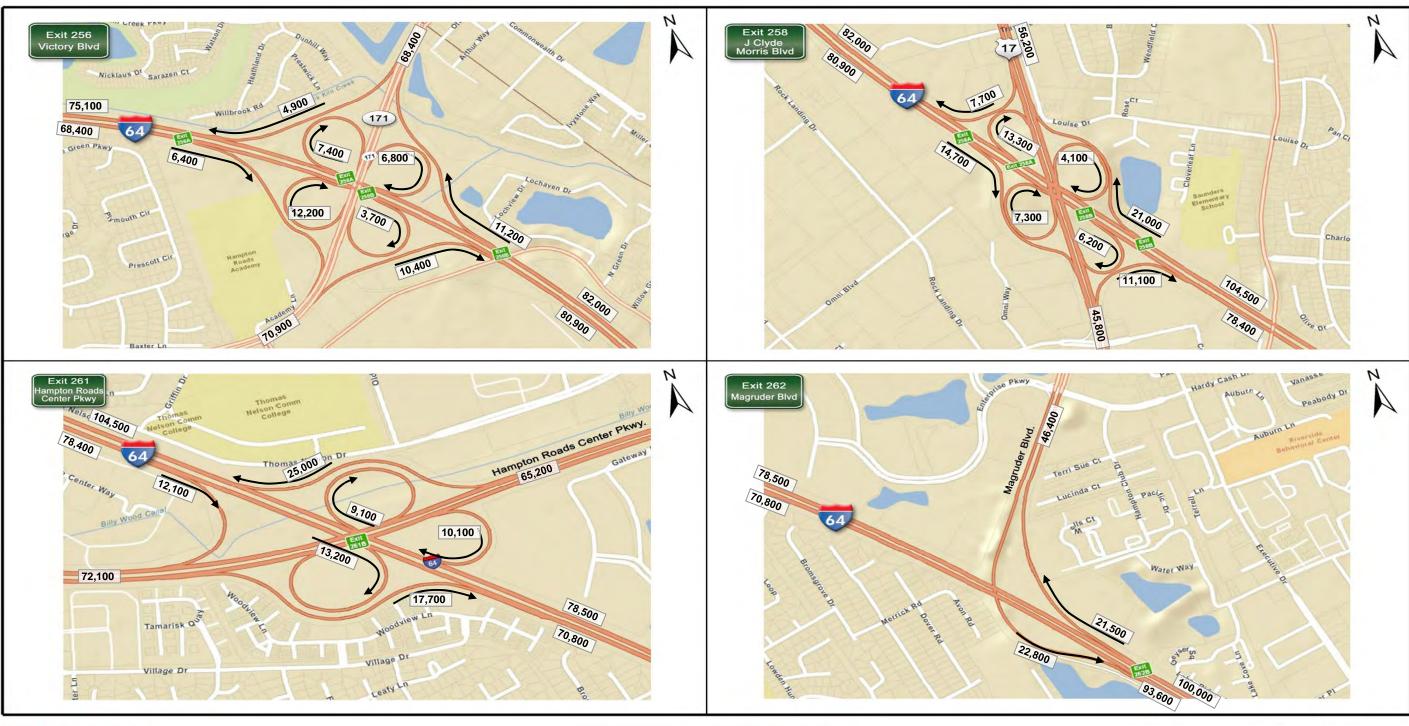






FIGURE 3:

ADT Volumes

Alt 3 2040 Balanced Volumes

sheet 6 of 7

Note: Sum of General Purpose and Managed Lane volumes shown

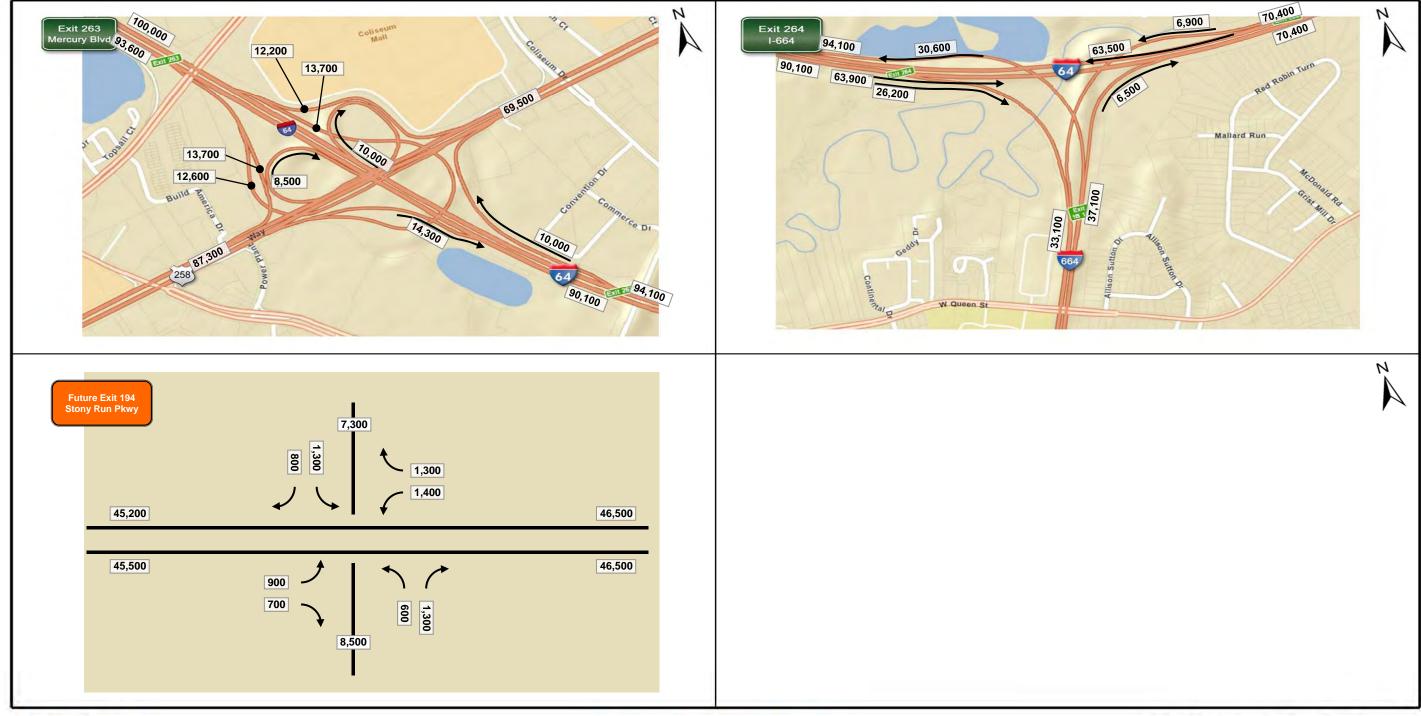


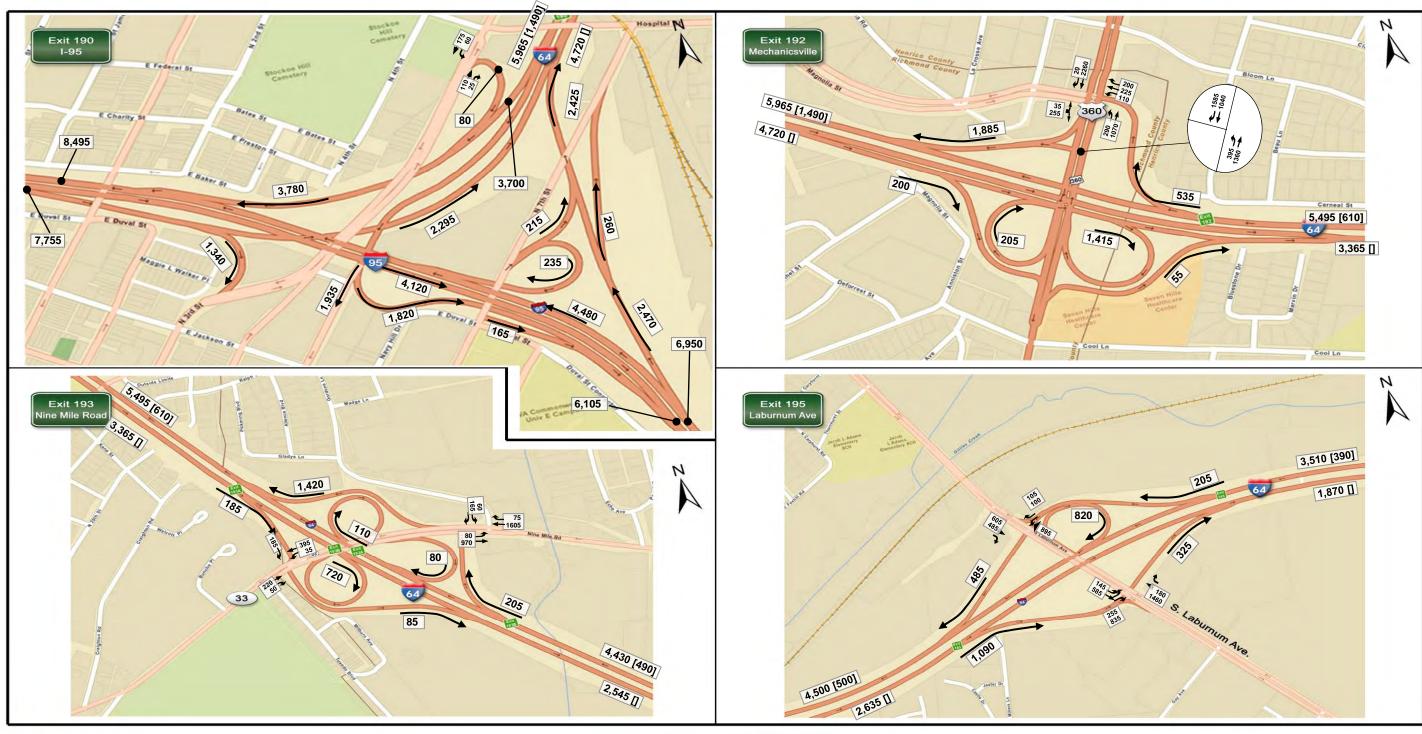




FIGURE 3: ADT Volumes

Alt 3 2040 Balanced Volumes

Note: Sum of General Purpose and Managed Lane volumes shown Sheet 7 of 7







Volumes in [brackets] indicate Managed Lane volumes

FIGURE 1: AM Peak Hour Volumes

2040 Alt 3 Balanced Volumes

Sheet 1 of 7

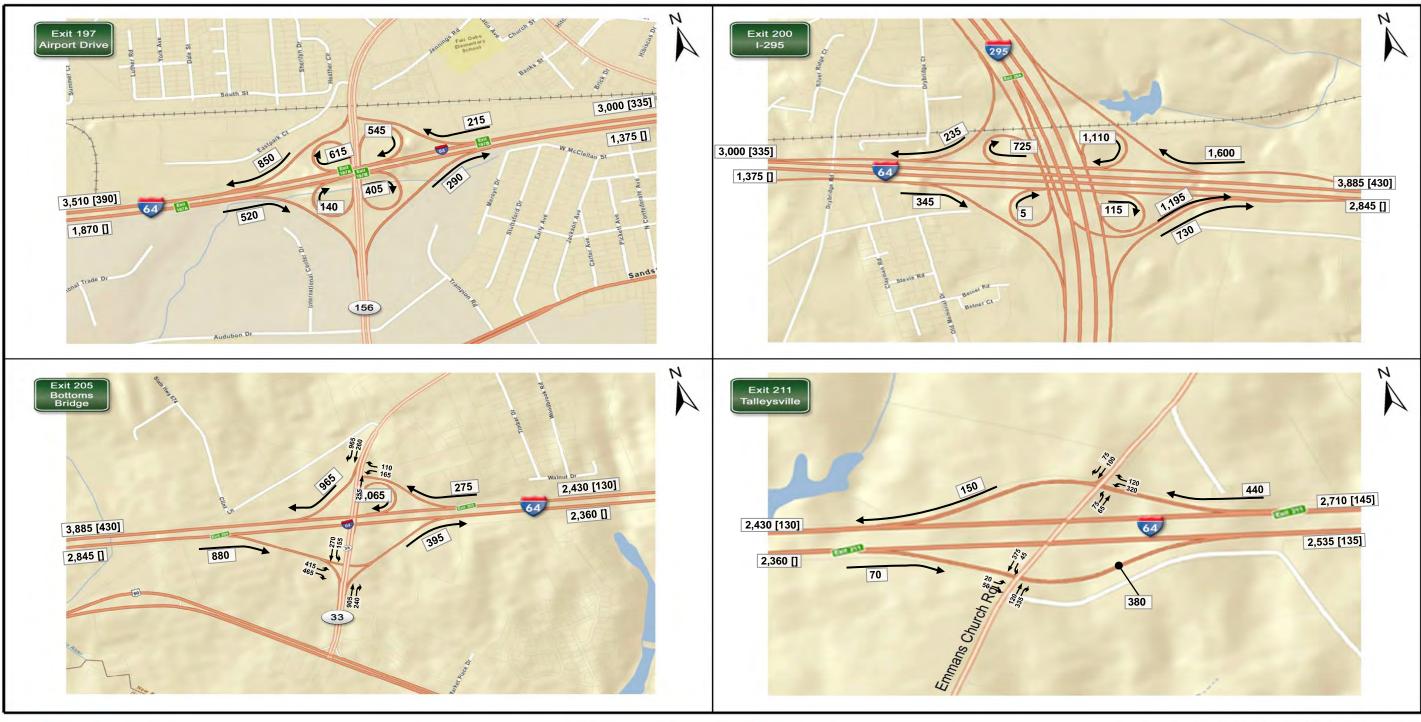






FIGURE 1:

AM Peak Hour Volumes 2040 Alt 3 Balanced Volumes Sheet 2 of 7

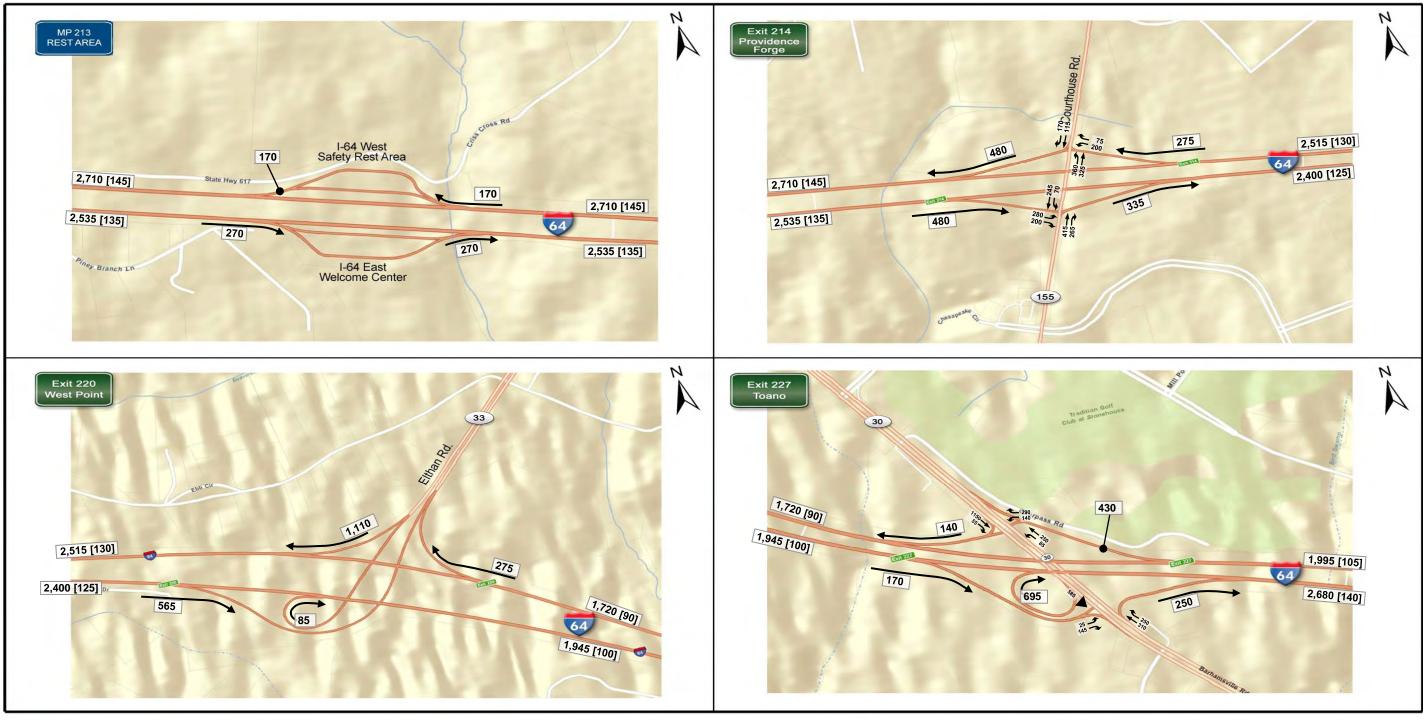






FIGURE 1: AM Peak Hour Volumes
2040 Alt 3 Balanced Volumes

Sheet 3 of 7

Volumes in [brackets] indicate Managed Lane volumes

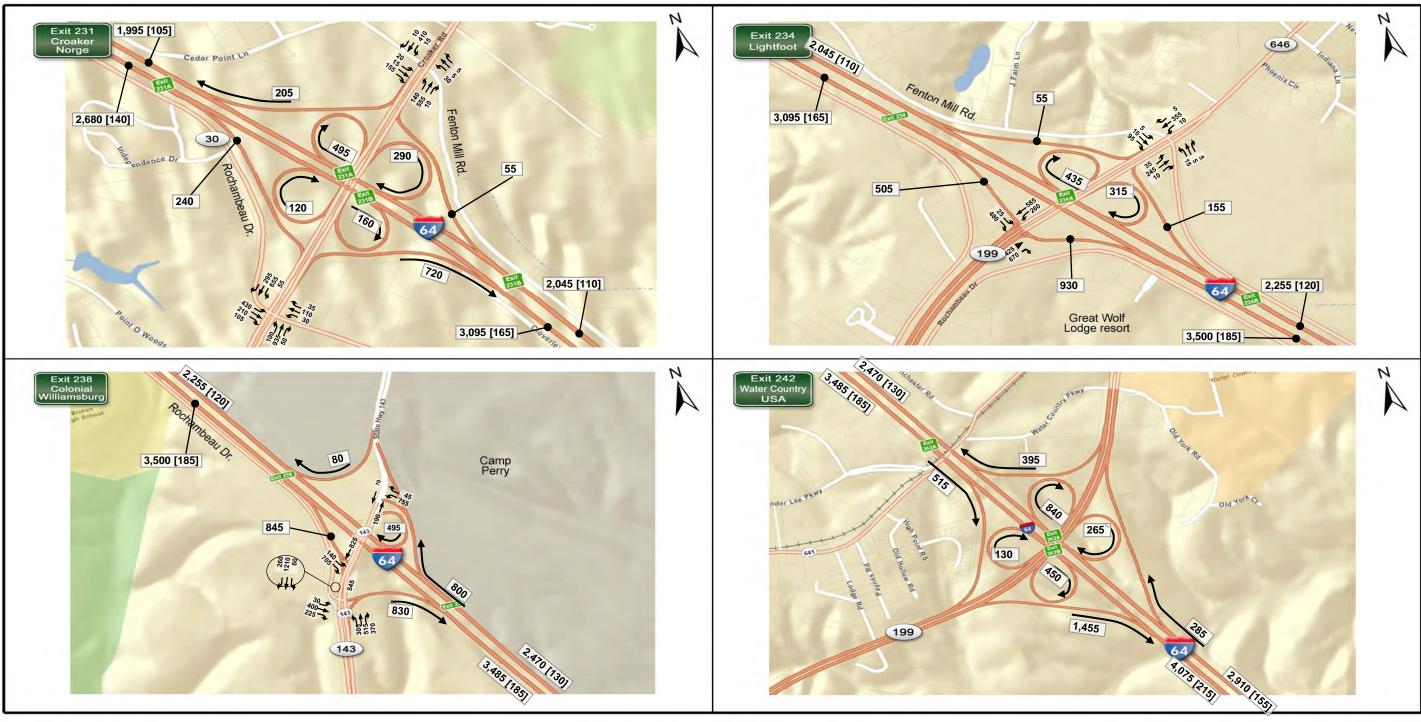






FIGURE 1:

AM Peak Hour Volumes 2040 Alt 3 Balanced Volumes Sheet 4 of 7

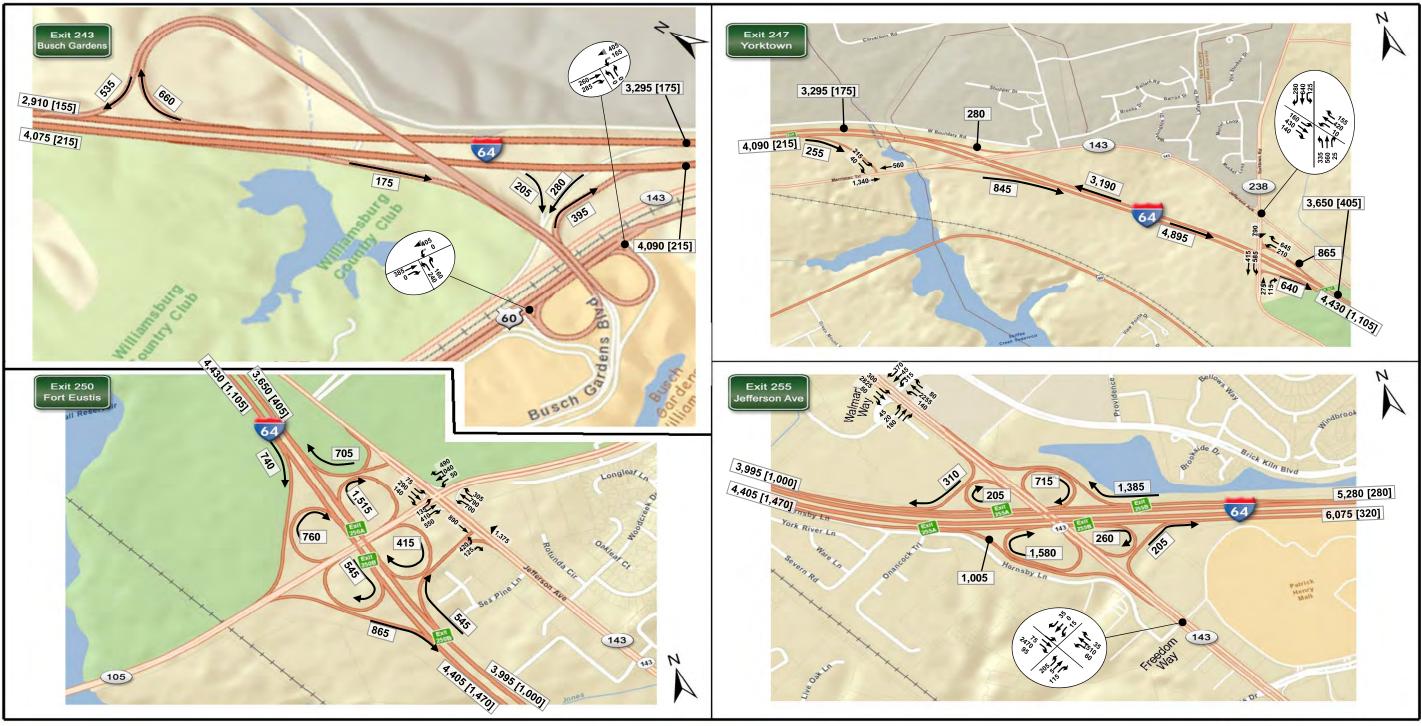






FIGURE 1: AM Peak Hour Volumes

2040 Alt 3 Balanced Volumes

Sheet 5 of 7

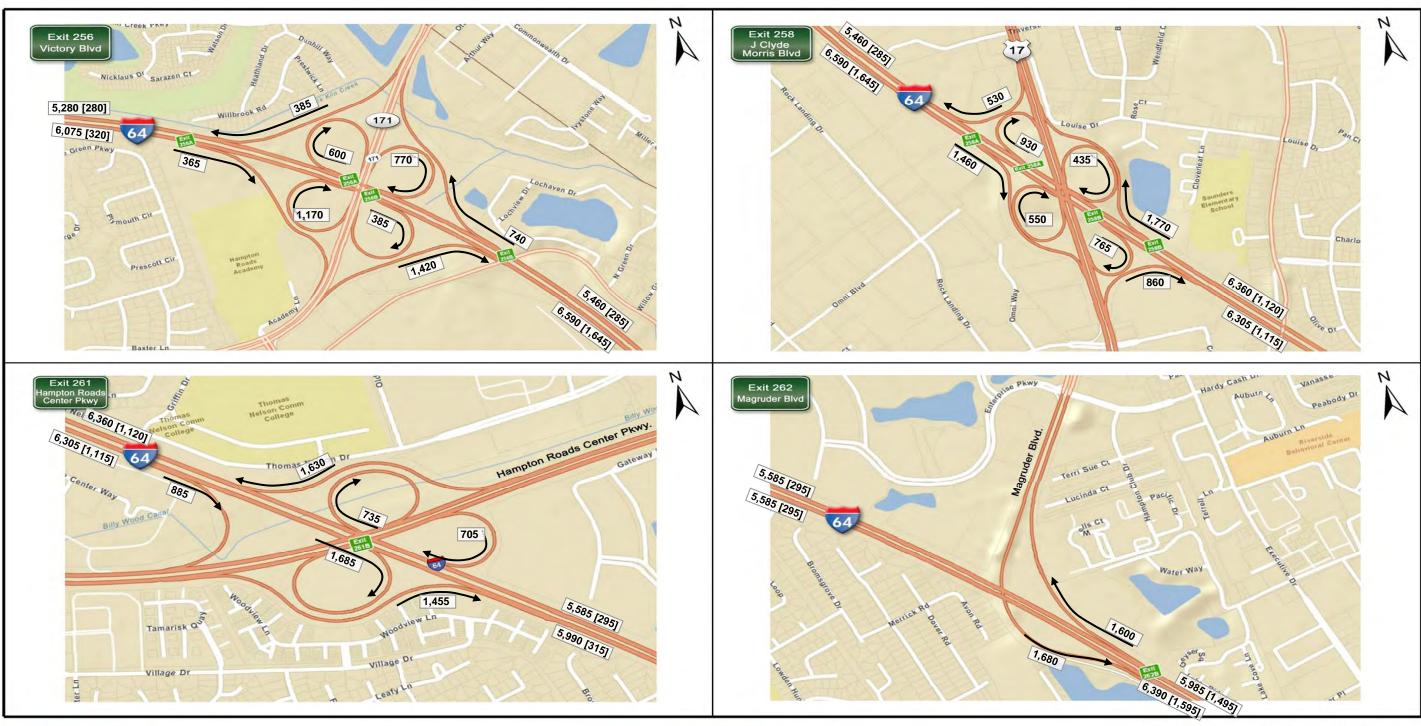






FIGURE 1:

AM Peak Hour Volumes 2040 Alt 3 Balanced Volumes Sheet 6 of 7

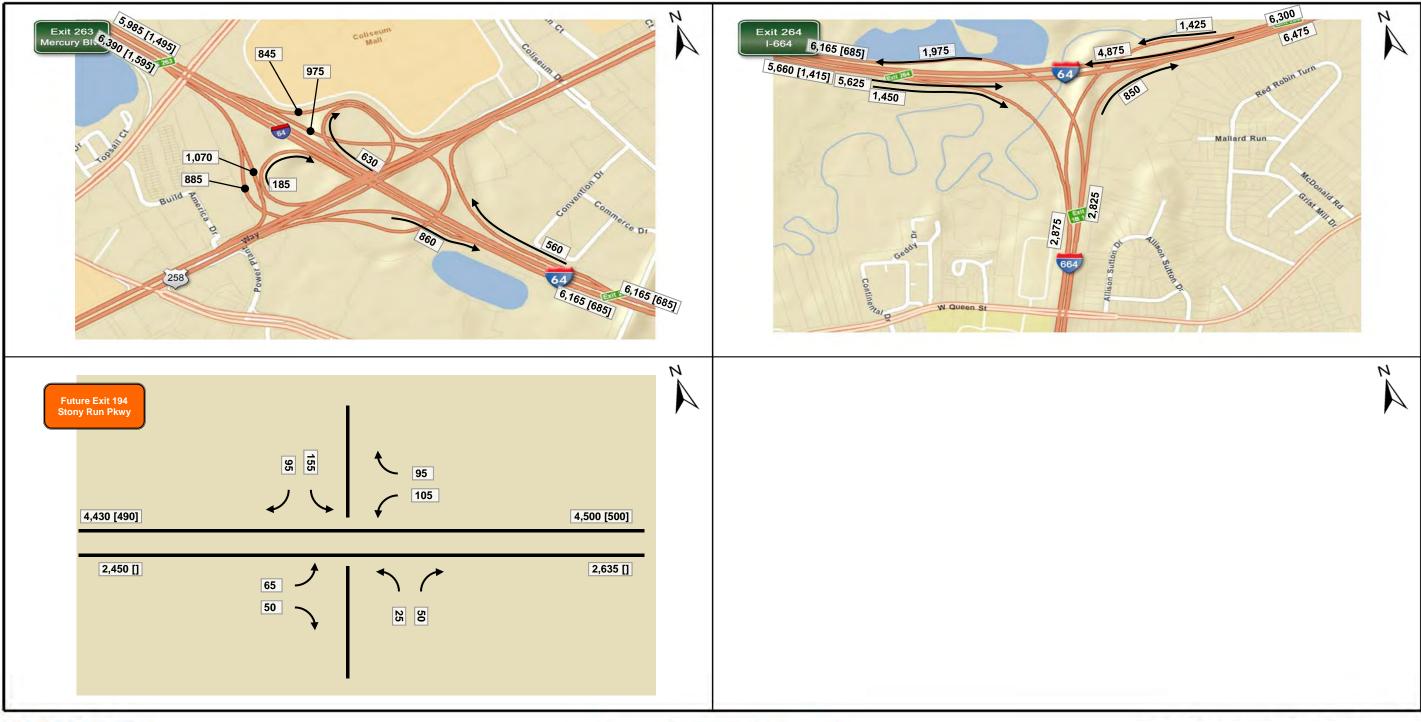






FIGURE 1:

AM Peak Hour Volumes
2040 Alt 3 Balanced Volumes
Sheet 7 of 7

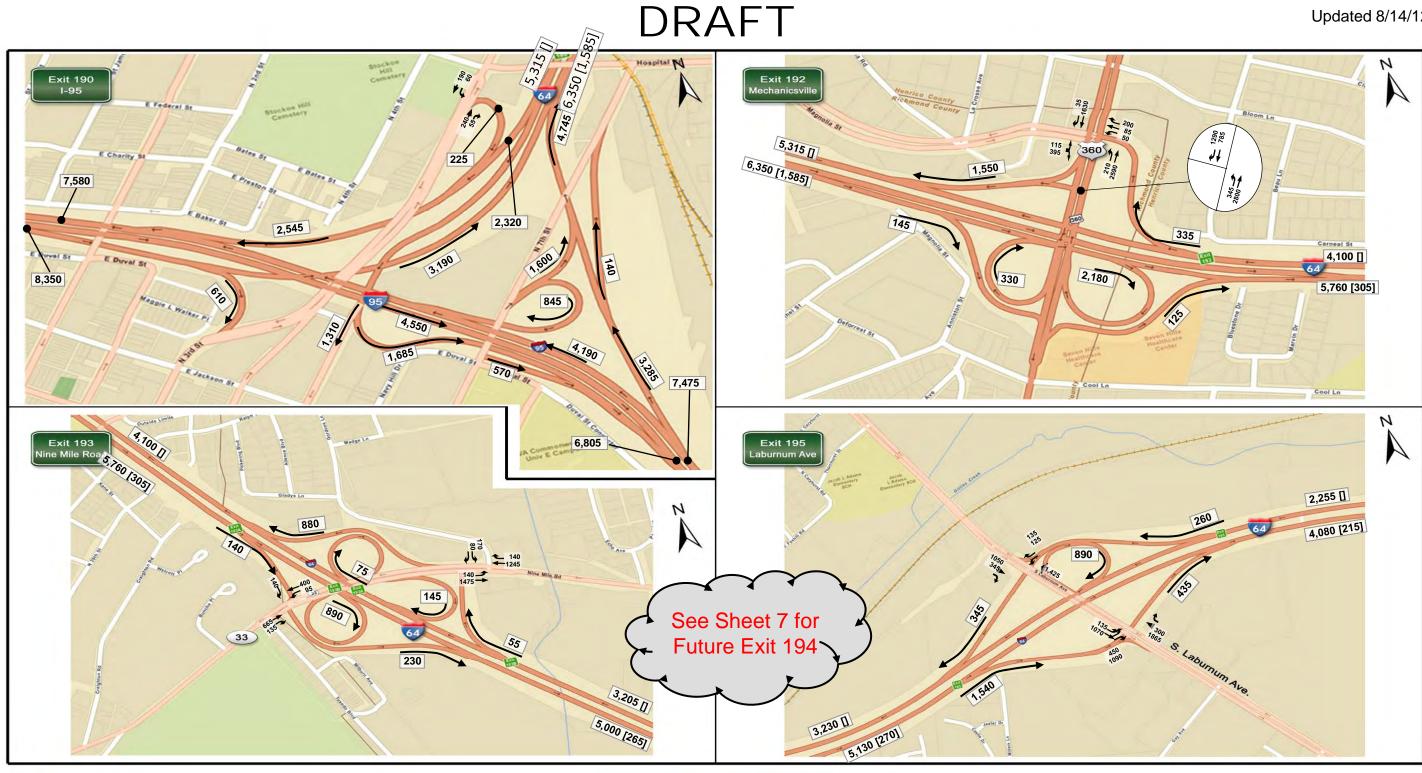






FIGURE 2:

PM Peak Hour Volumes 2040 Alt 3 Balanced Volumes Sheet 1 of 7

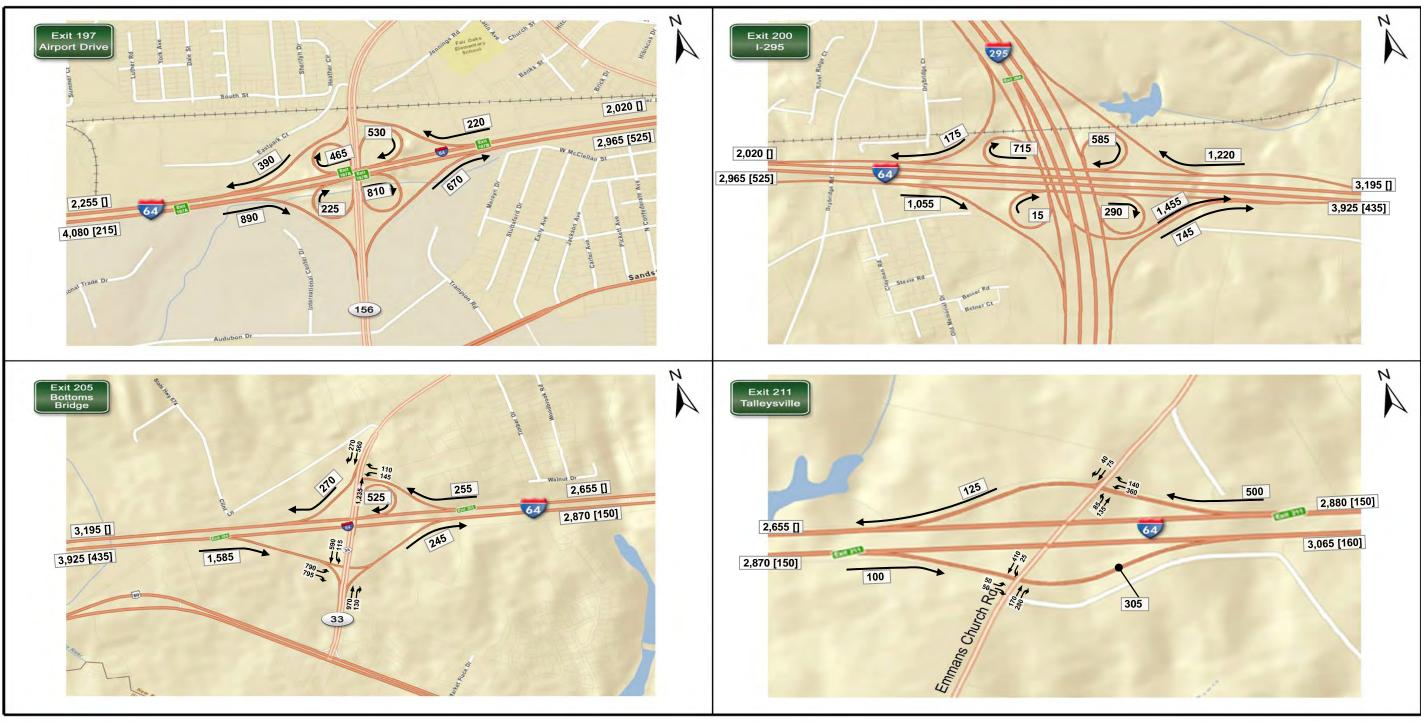






FIGURE 2:

PM Peak Hour Volumes 2040 Alt 3 Balanced Volumes Sheet 2 of 7

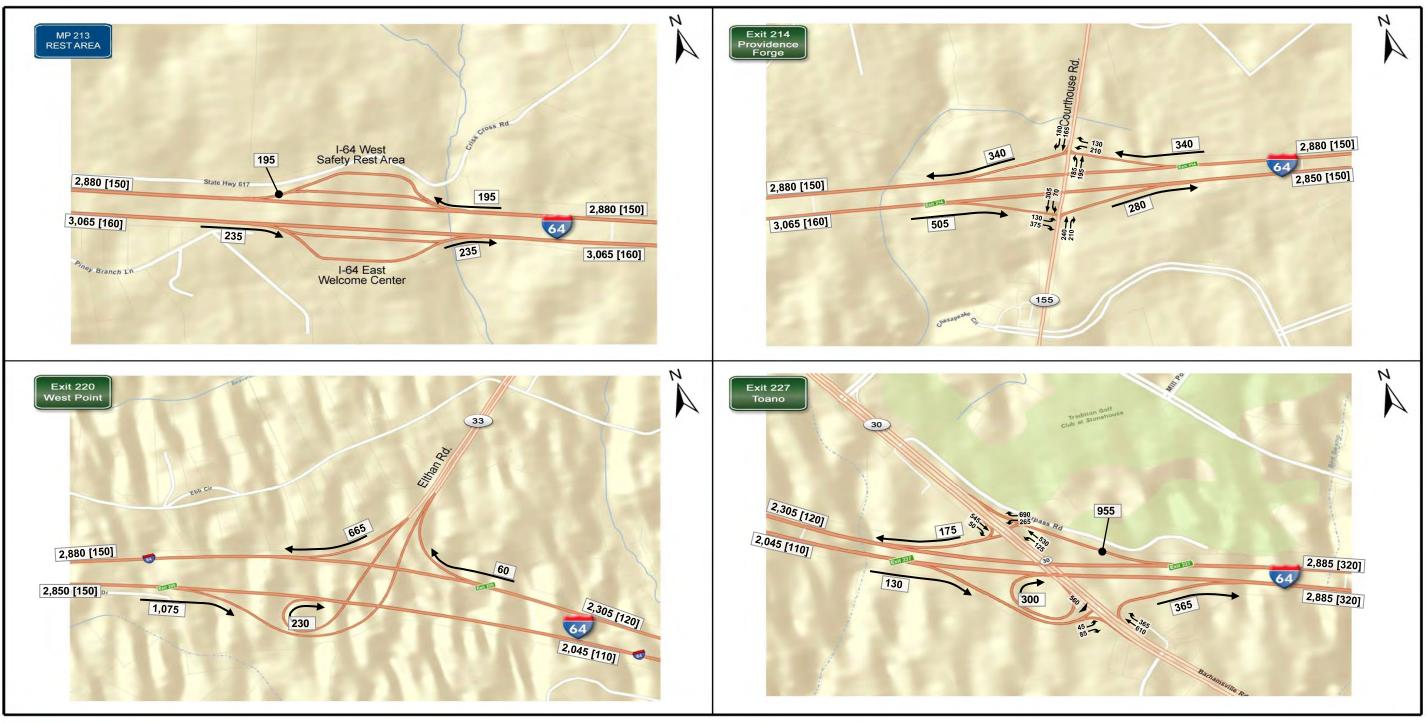






FIGURE 2:

PM Peak Hour Volumes 2040 Alt 3 Balanced Volumes Sheet 3 of 7

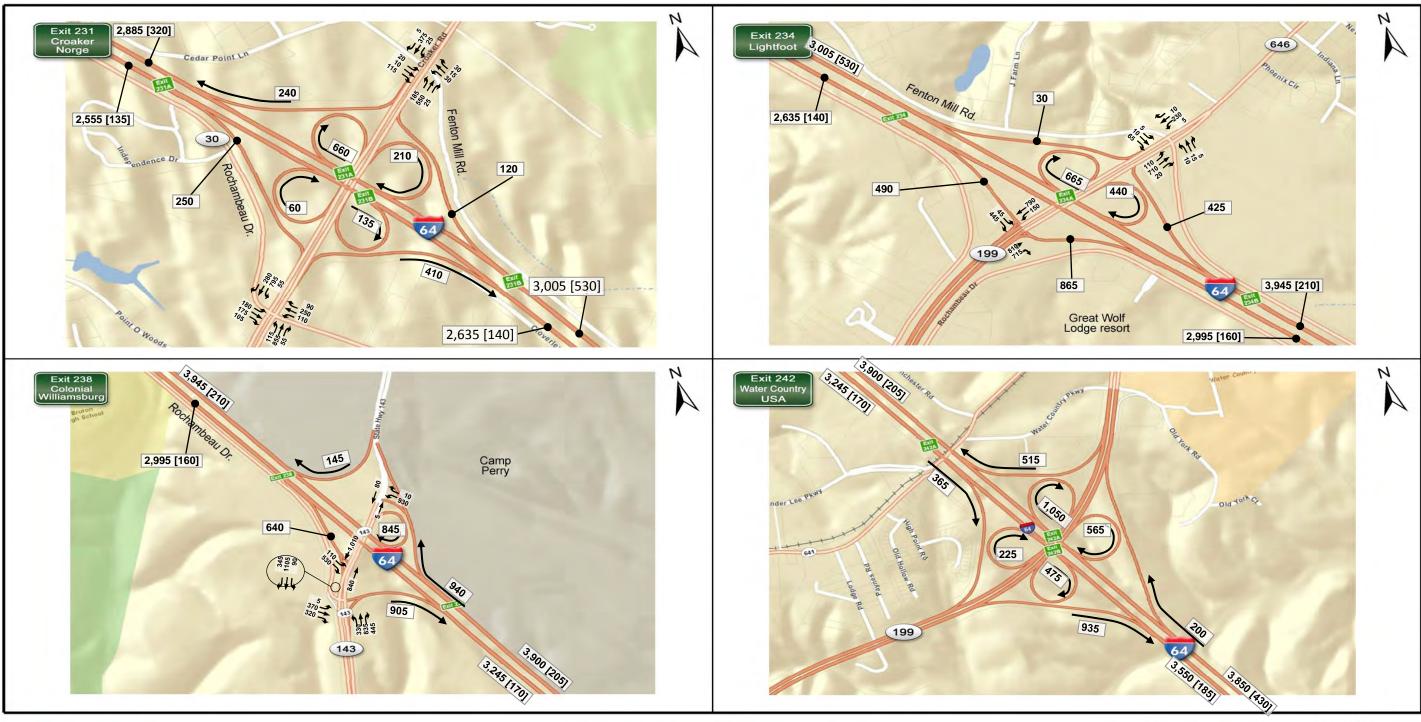






FIGURE 2:

PM Peak Hour Volumes 2040 Alt 3 Balanced Volumes Sheet 4 of 7

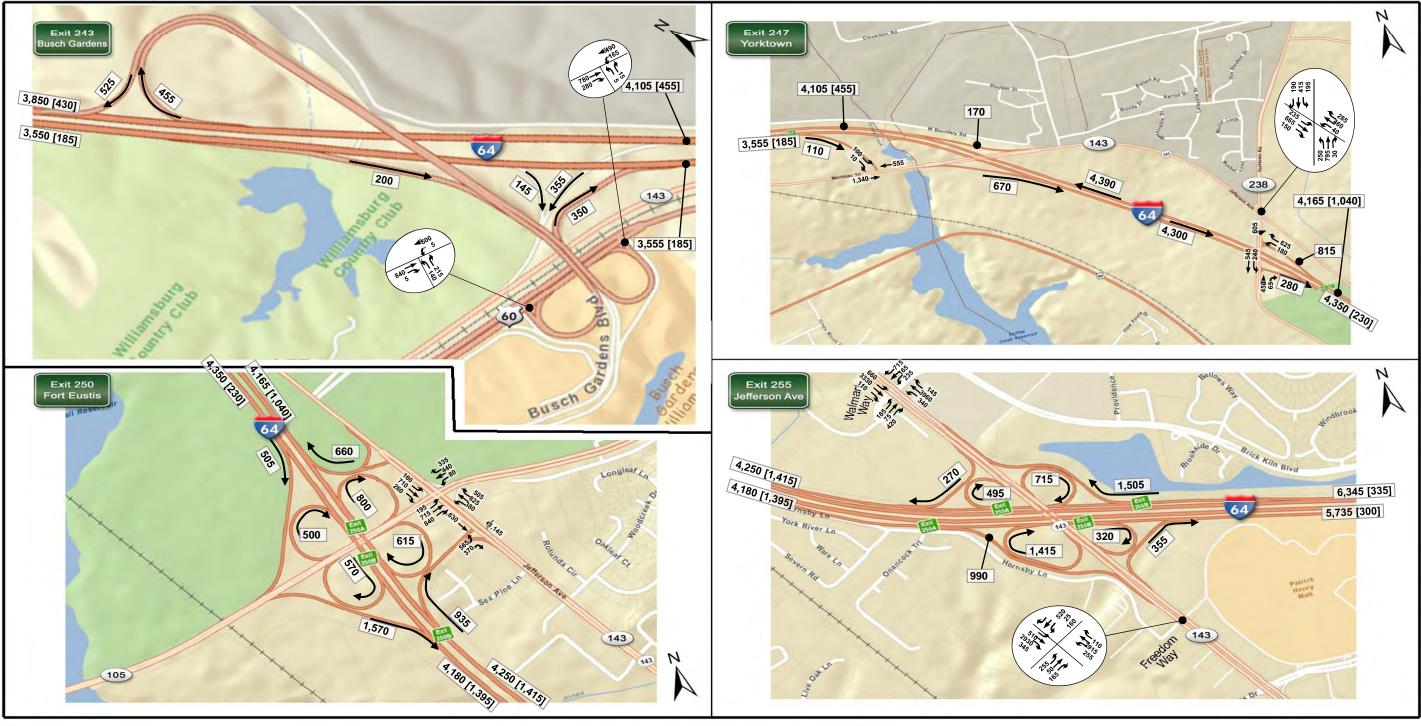






FIGURE 2:

PM Peak Hour Volumes 2040 Alt 3 Balanced Volumes Sheet 5 of 7

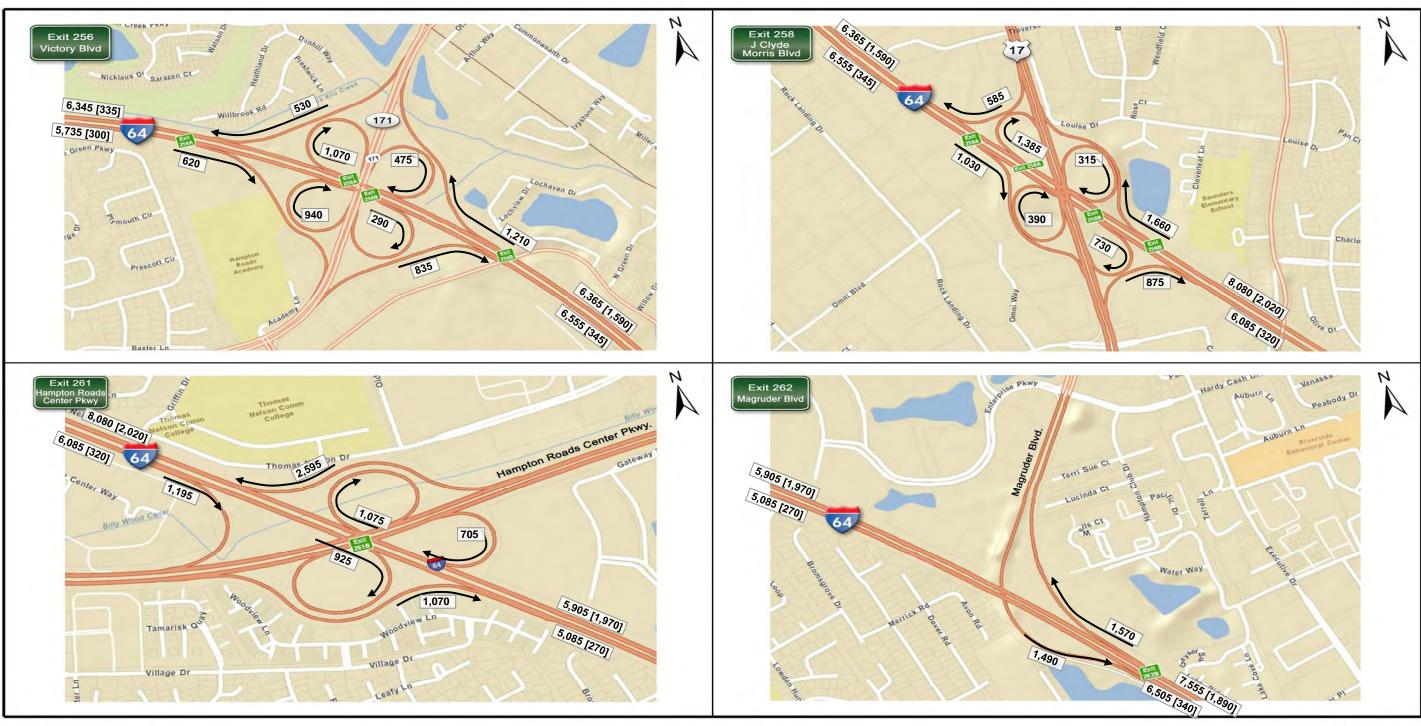






FIGURE 2:

PM Peak Hour Volumes 2040 Alt 3 Balanced Volumes Sheet 6 of 7

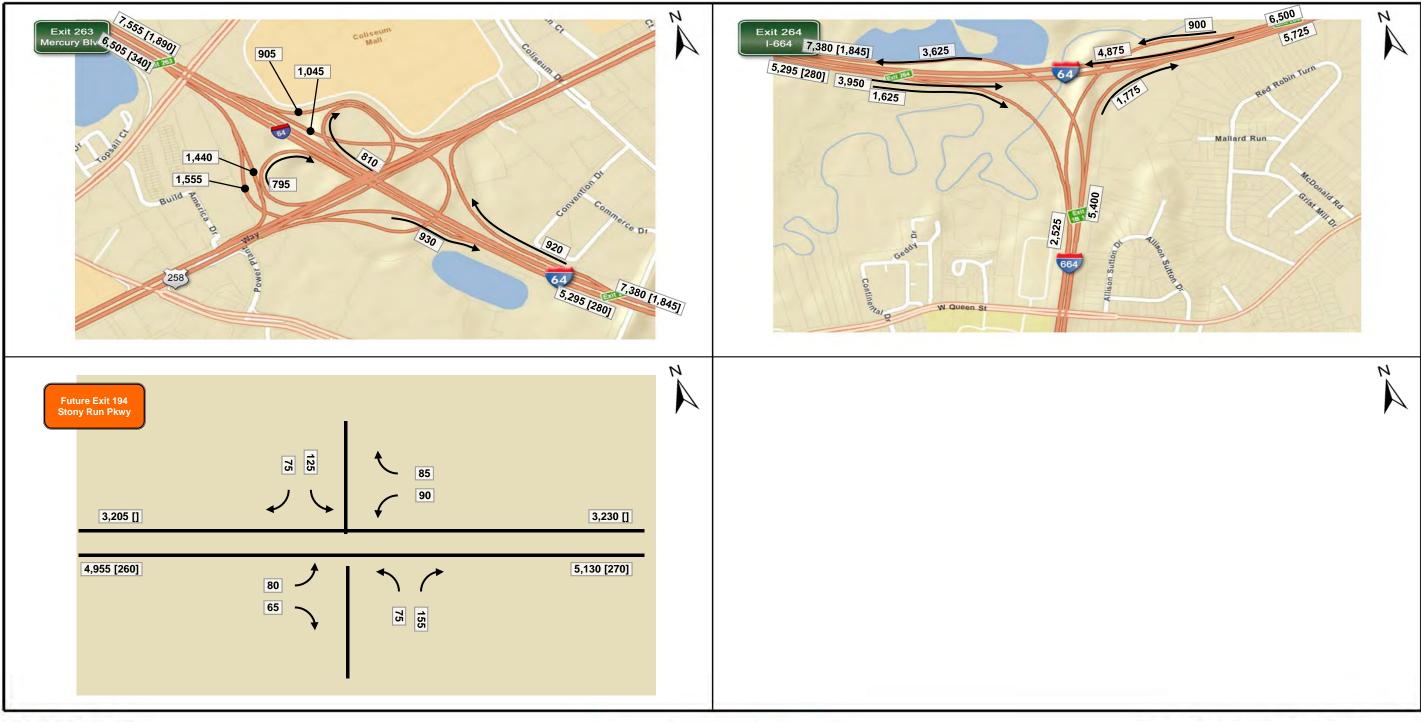
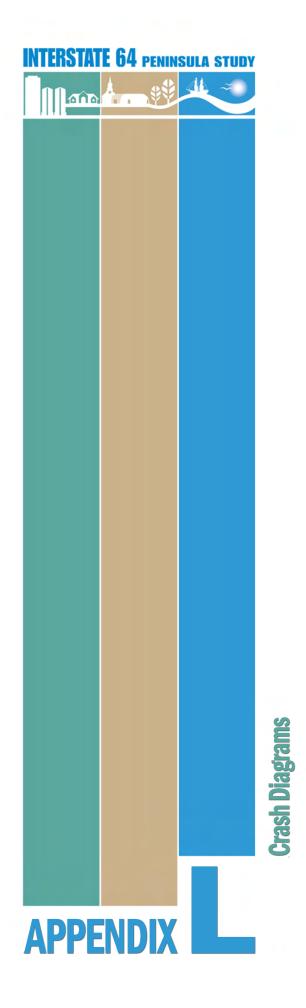


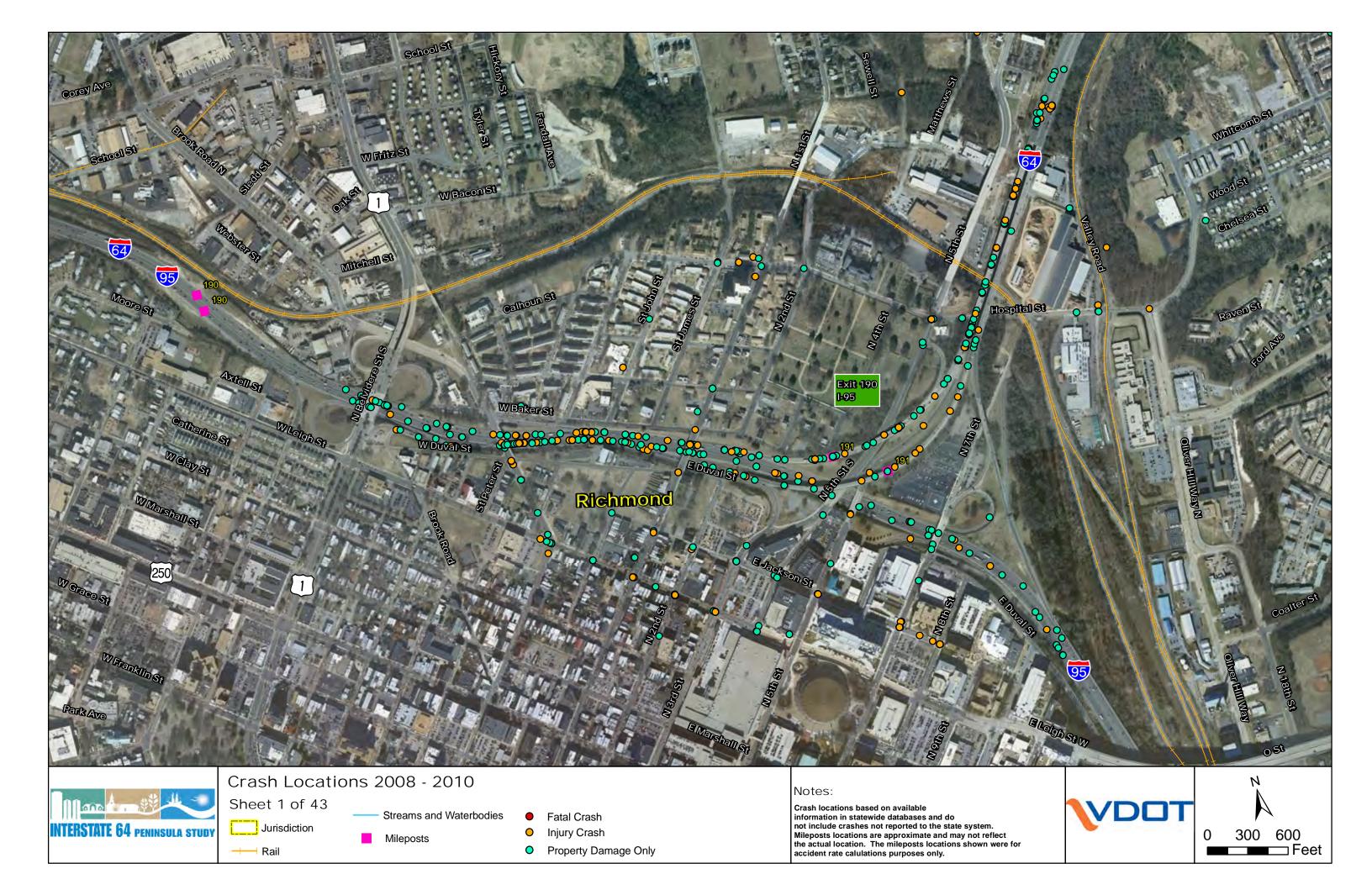




FIGURE 2:

PM Peak Hour Volumes 2040 Alt 3 Balanced Volumes Sheet 7 of 7



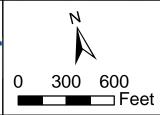


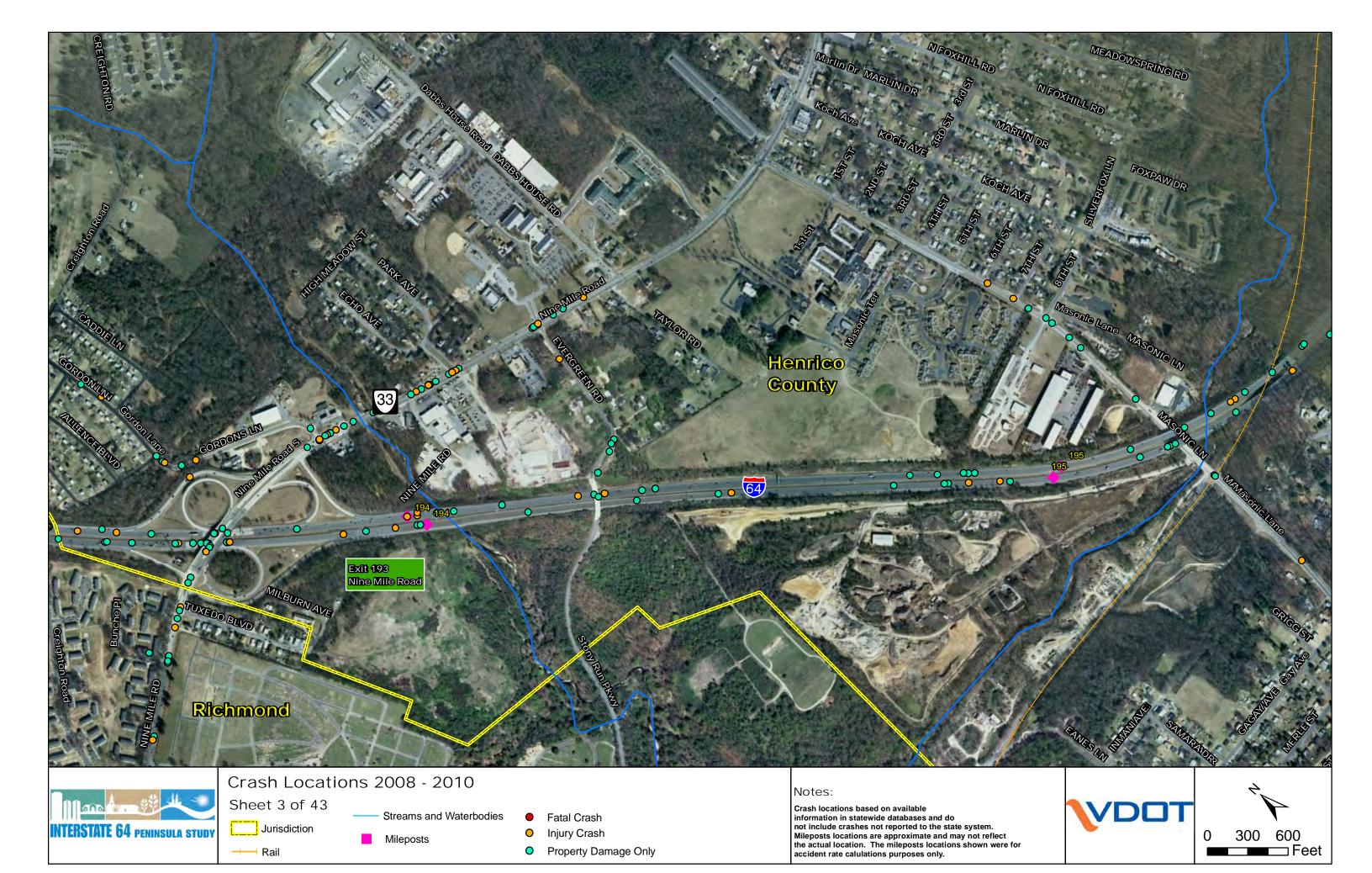


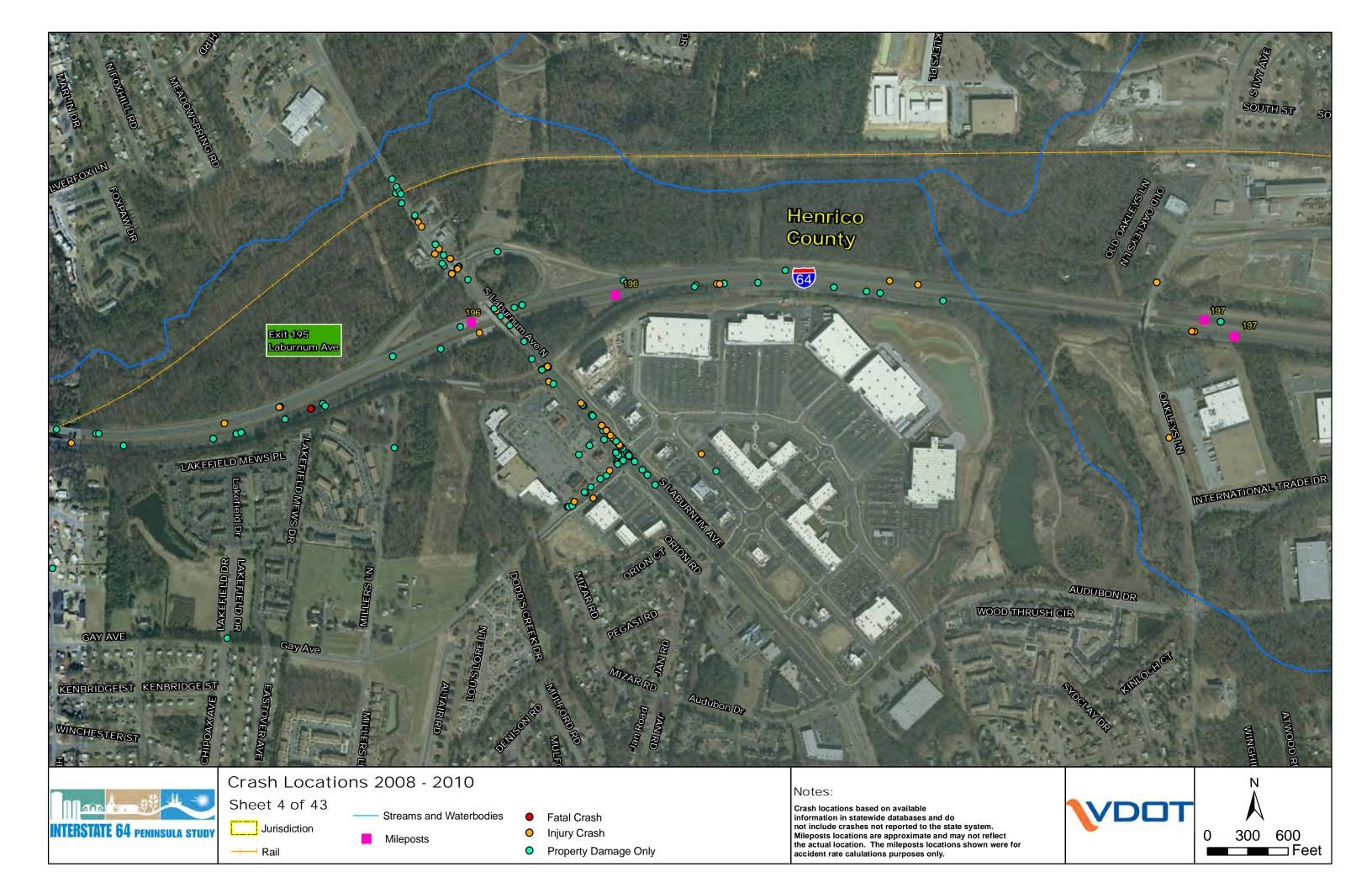


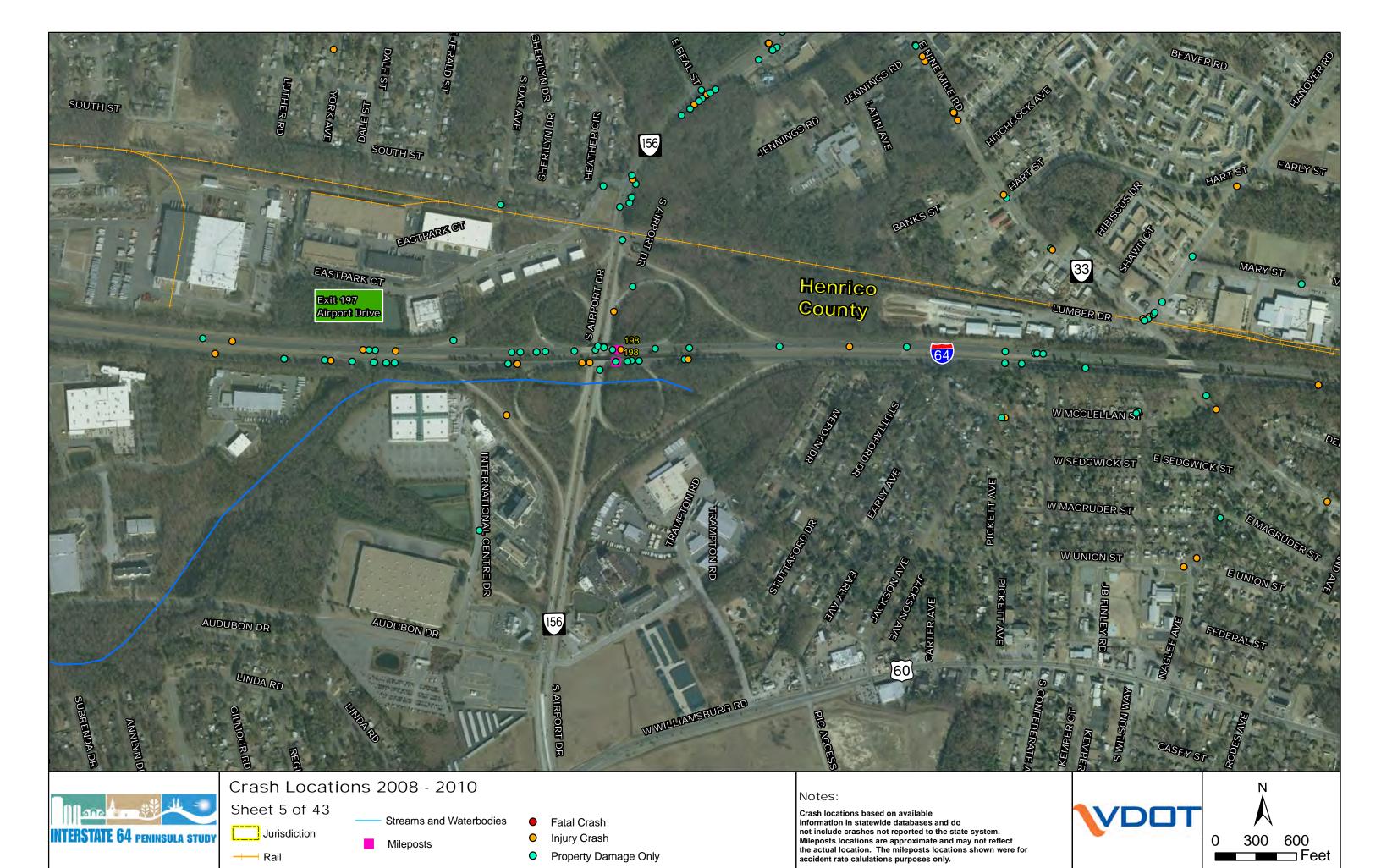
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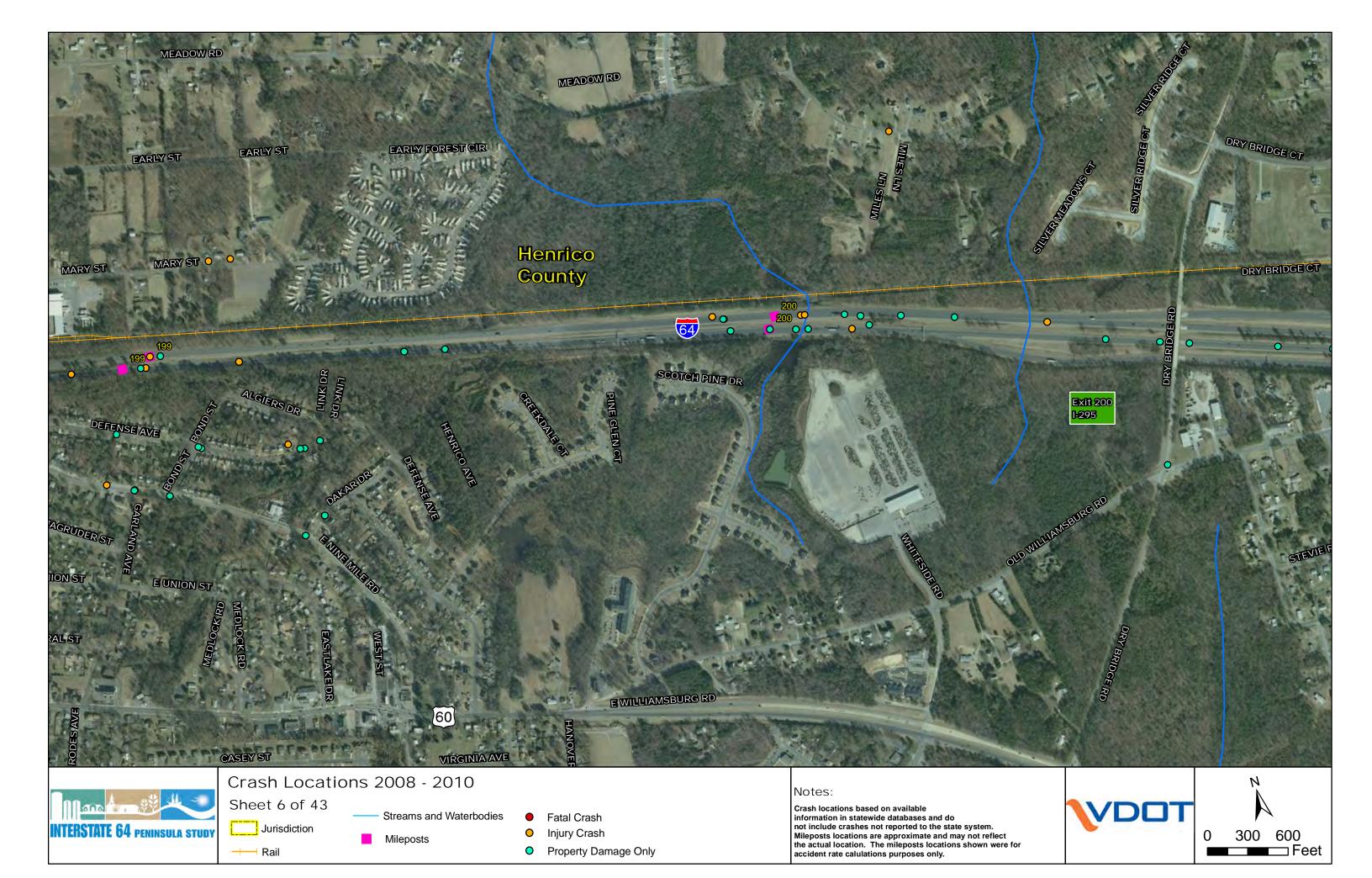
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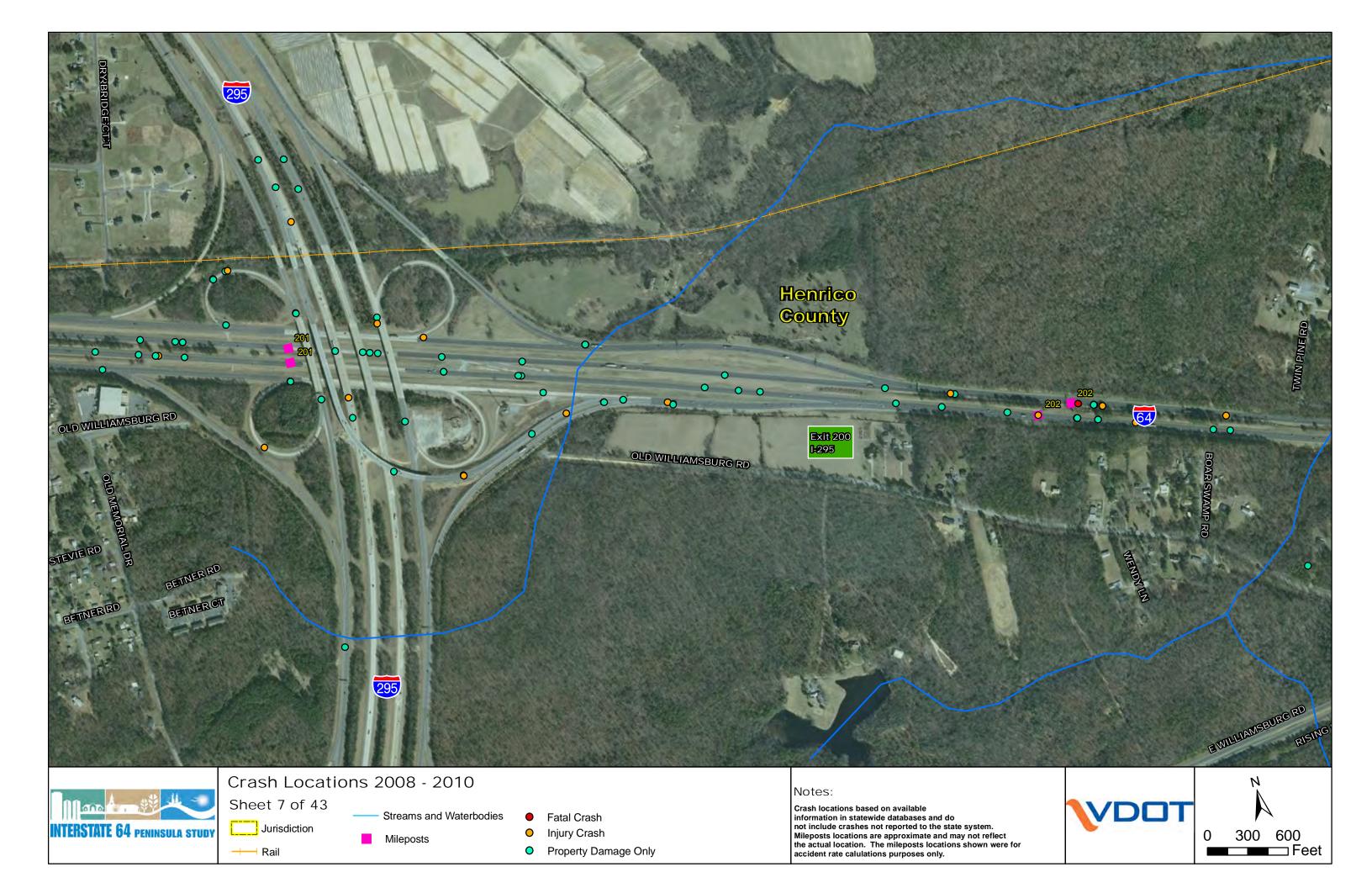


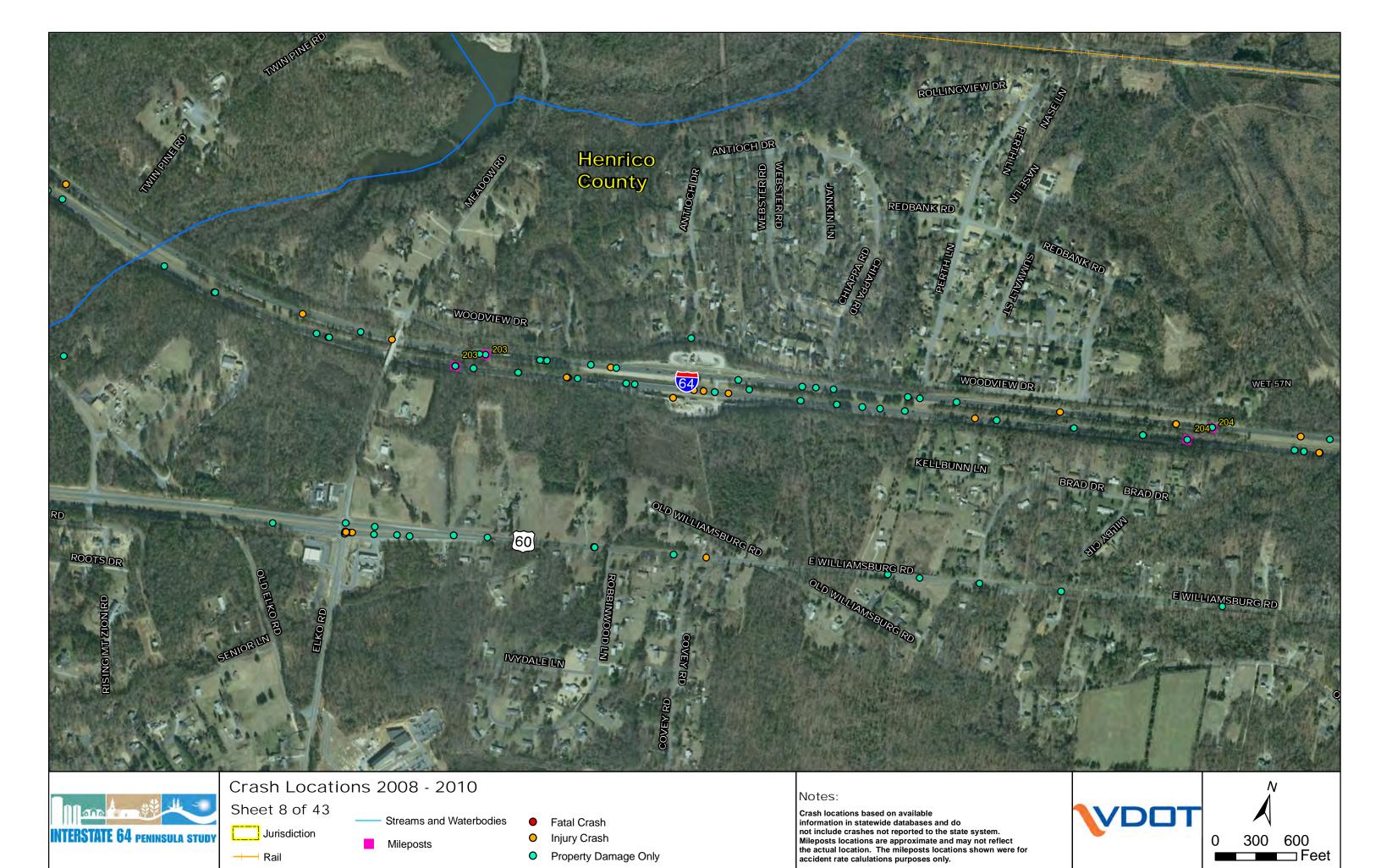


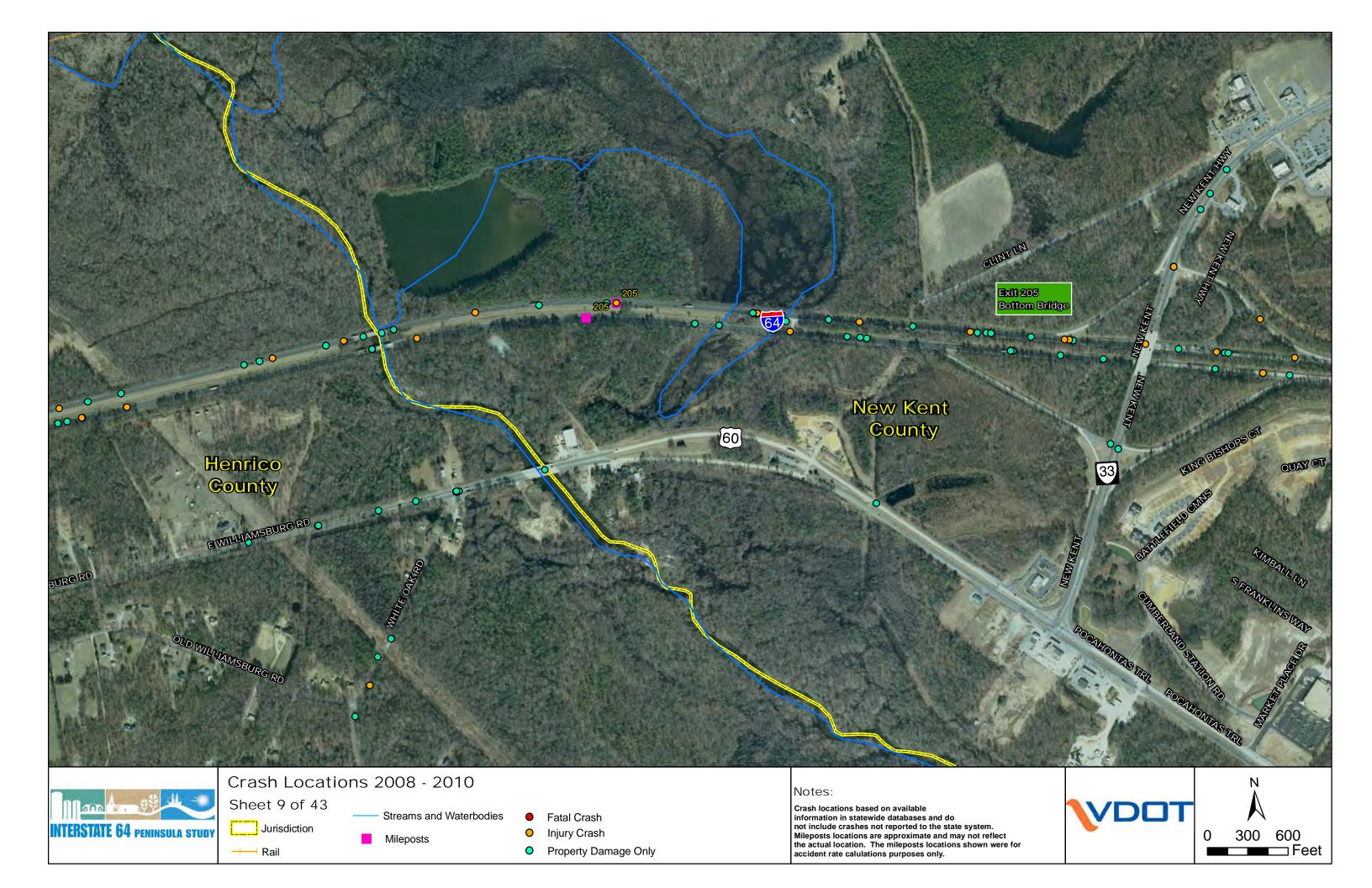


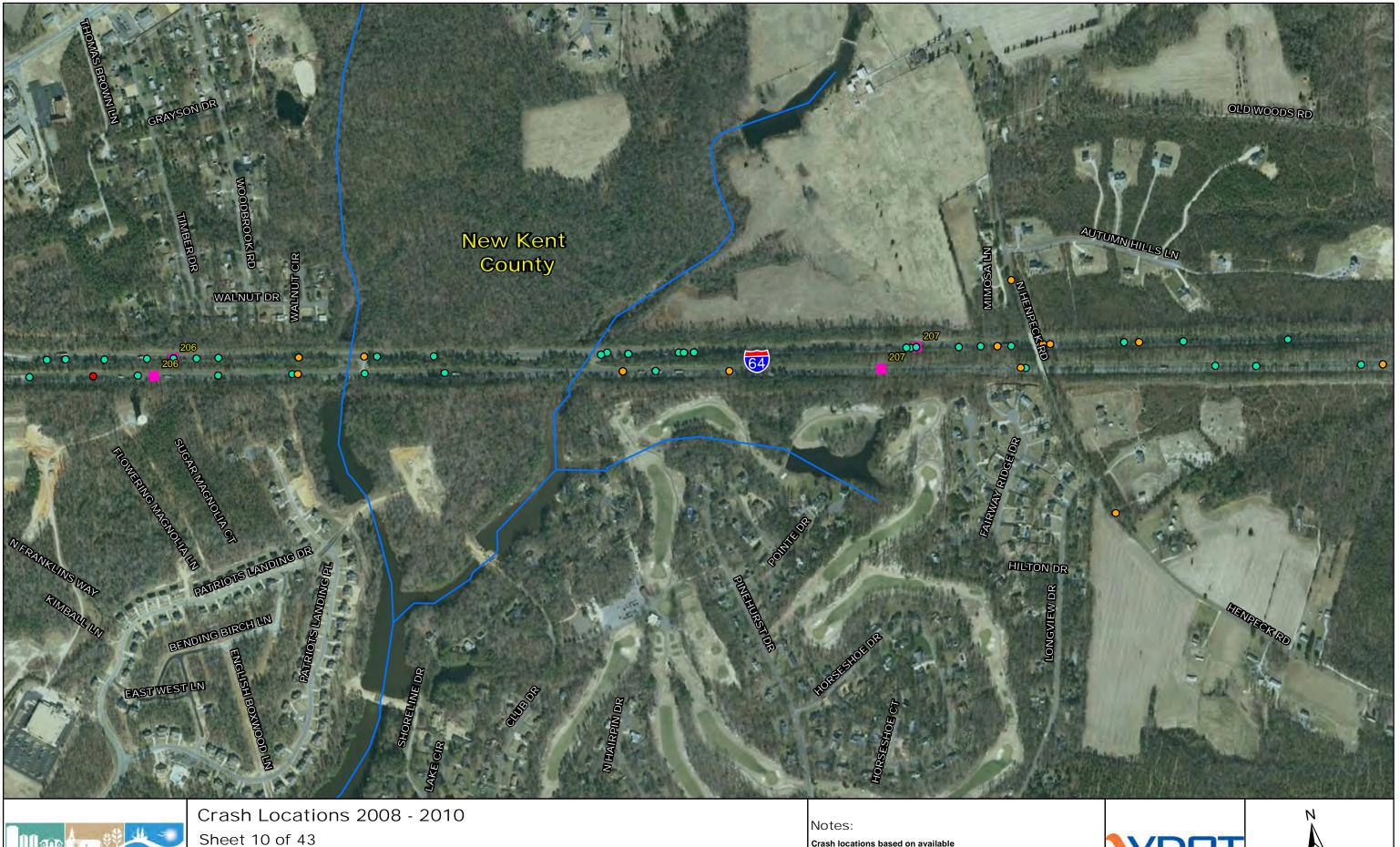














Streams and Waterbodies Jurisdiction

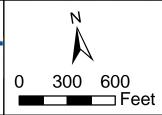
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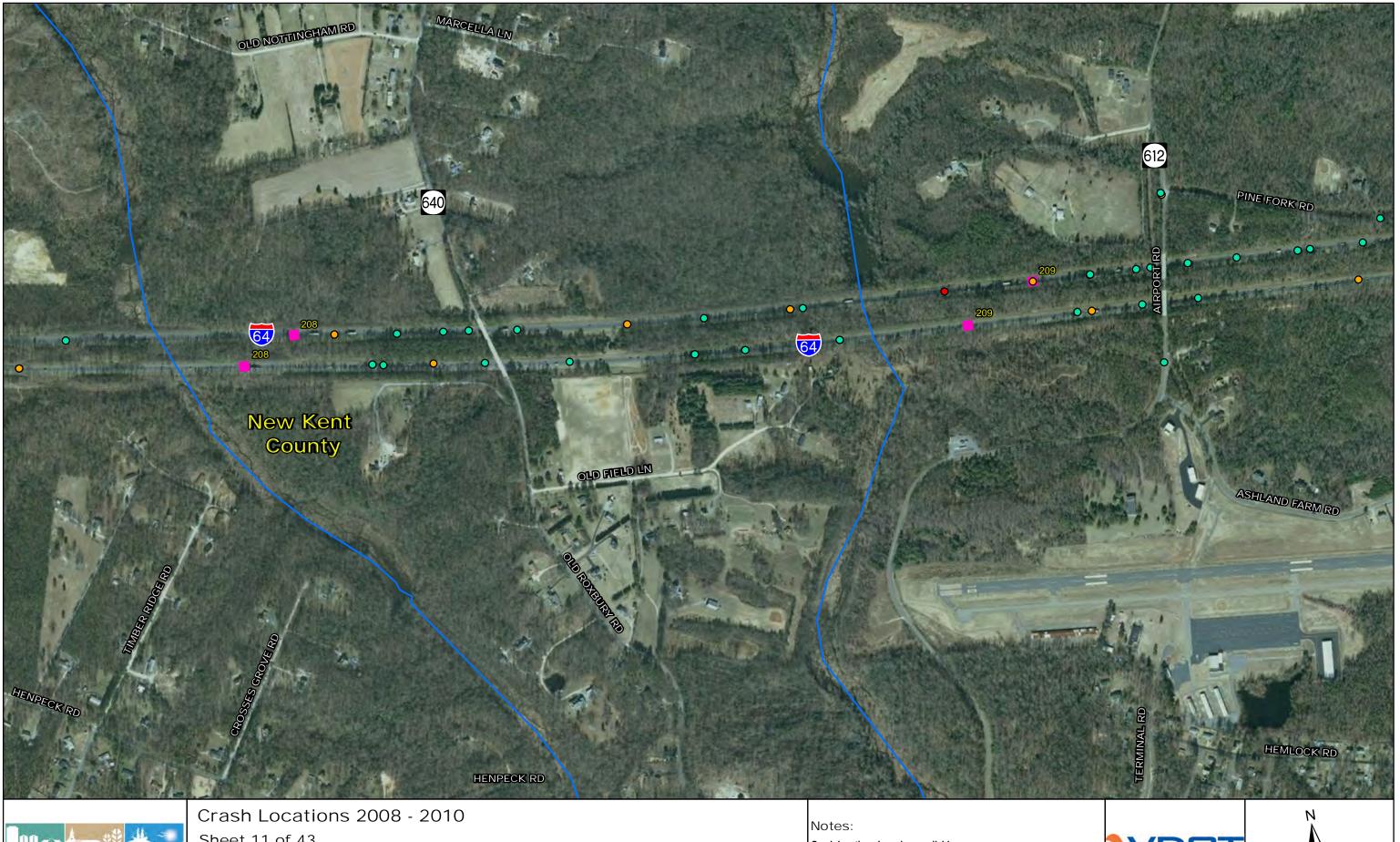
Mileposts

Fatal Crash

Injury Crash Property Damage Only









Sheet 11 of 43

----- Rail

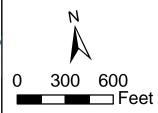
Streams and Waterbodies Jurisdiction

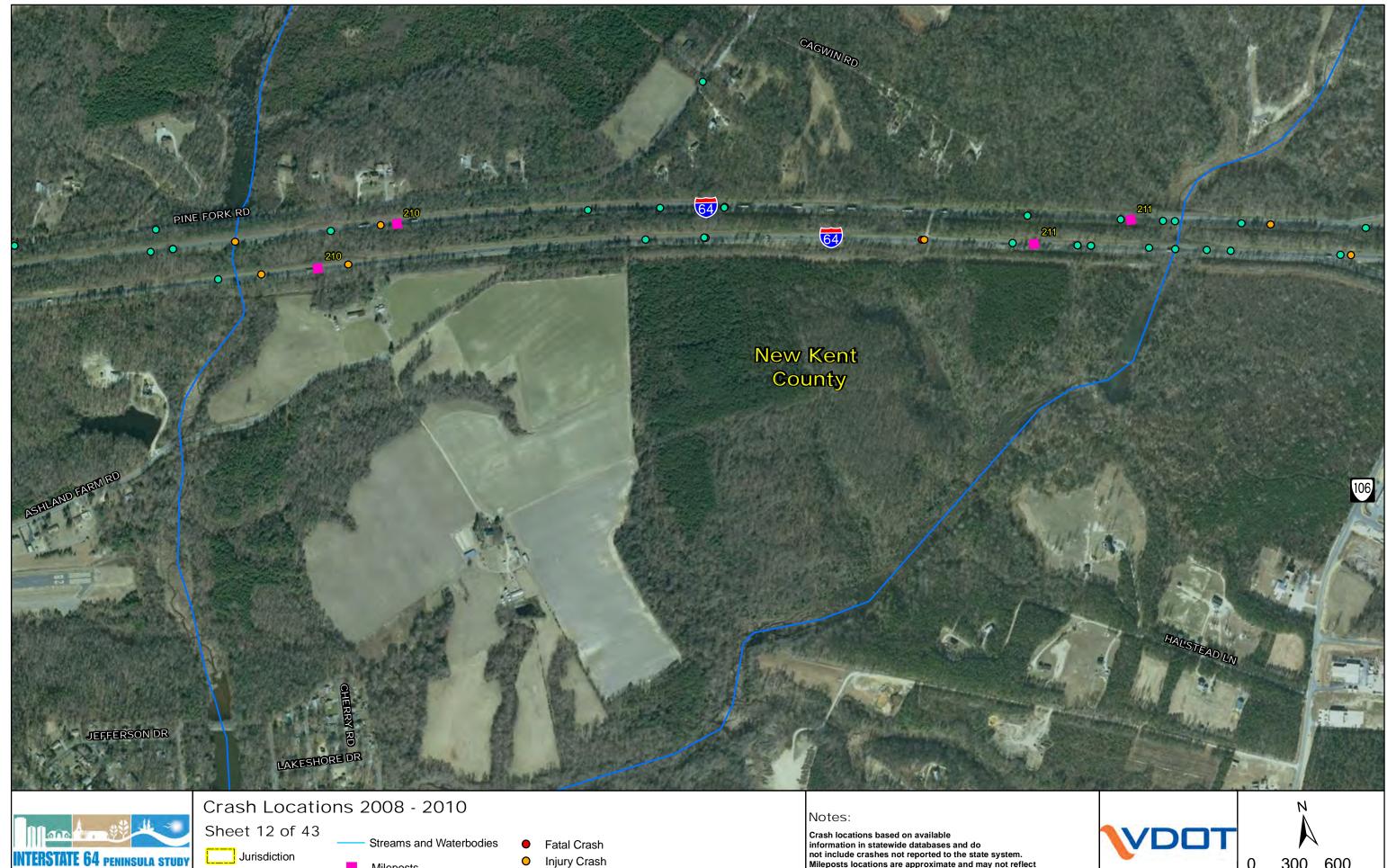
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Fatal Crash Injury Crash

Property Damage Only





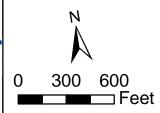


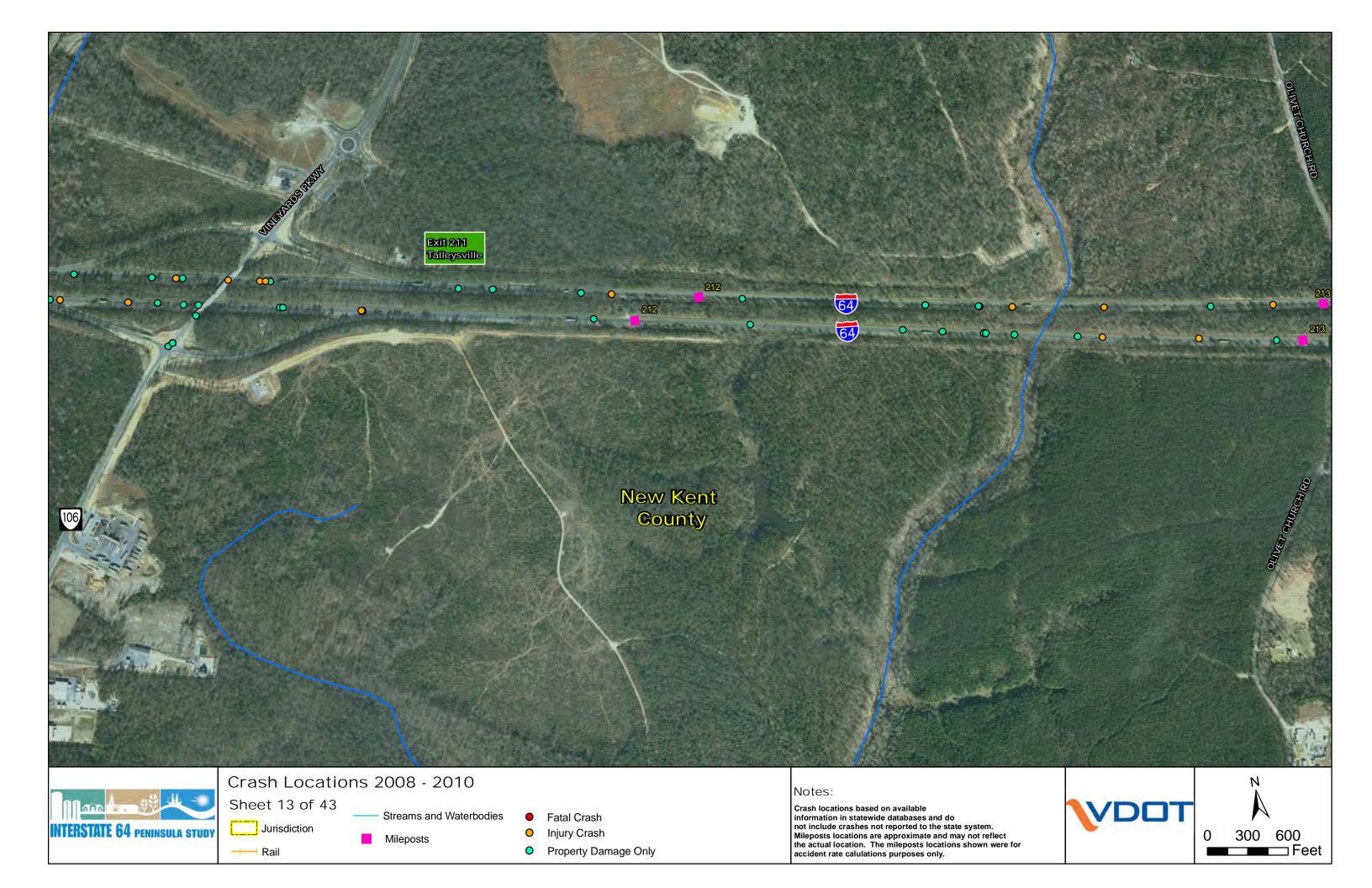
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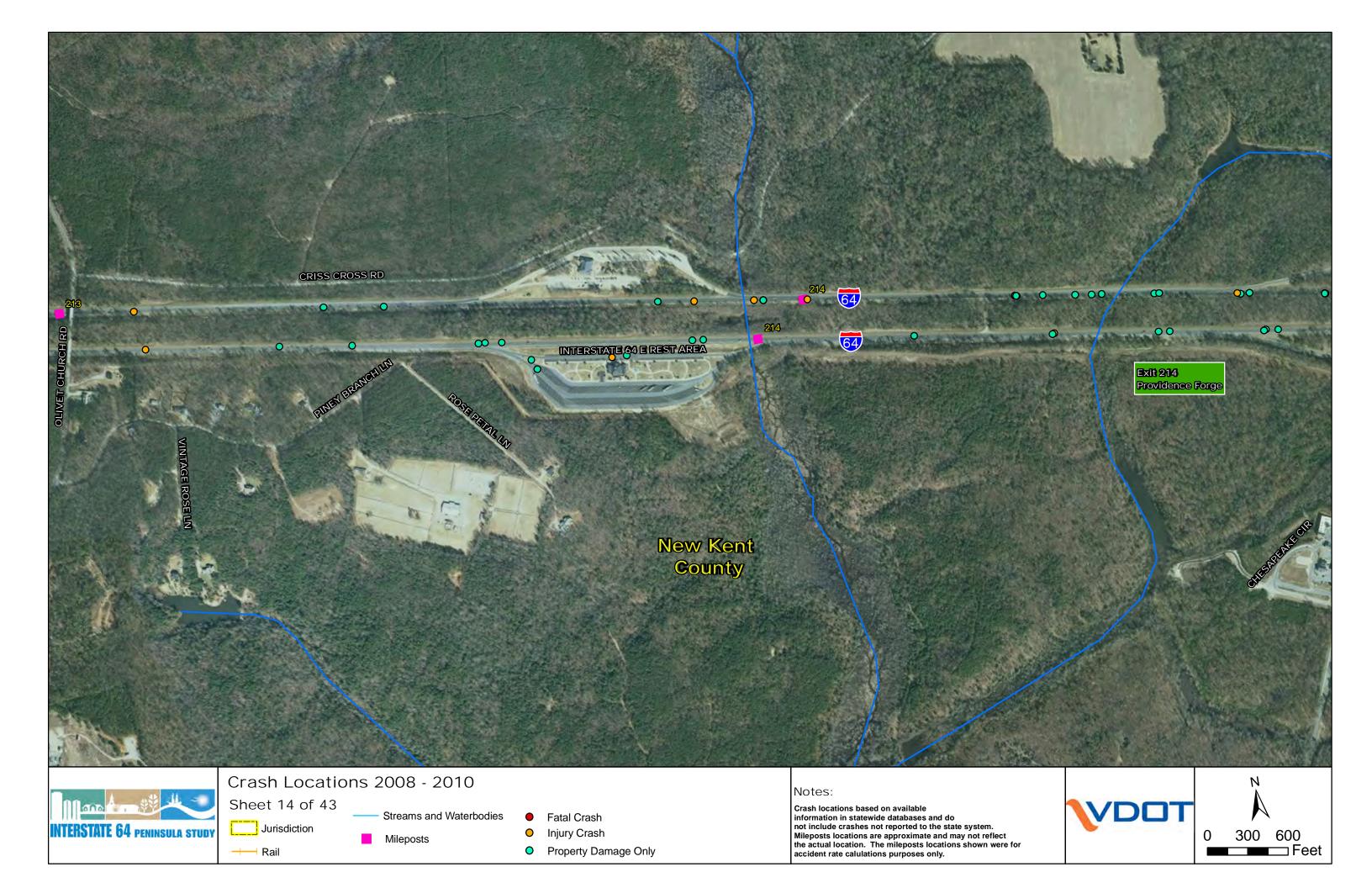
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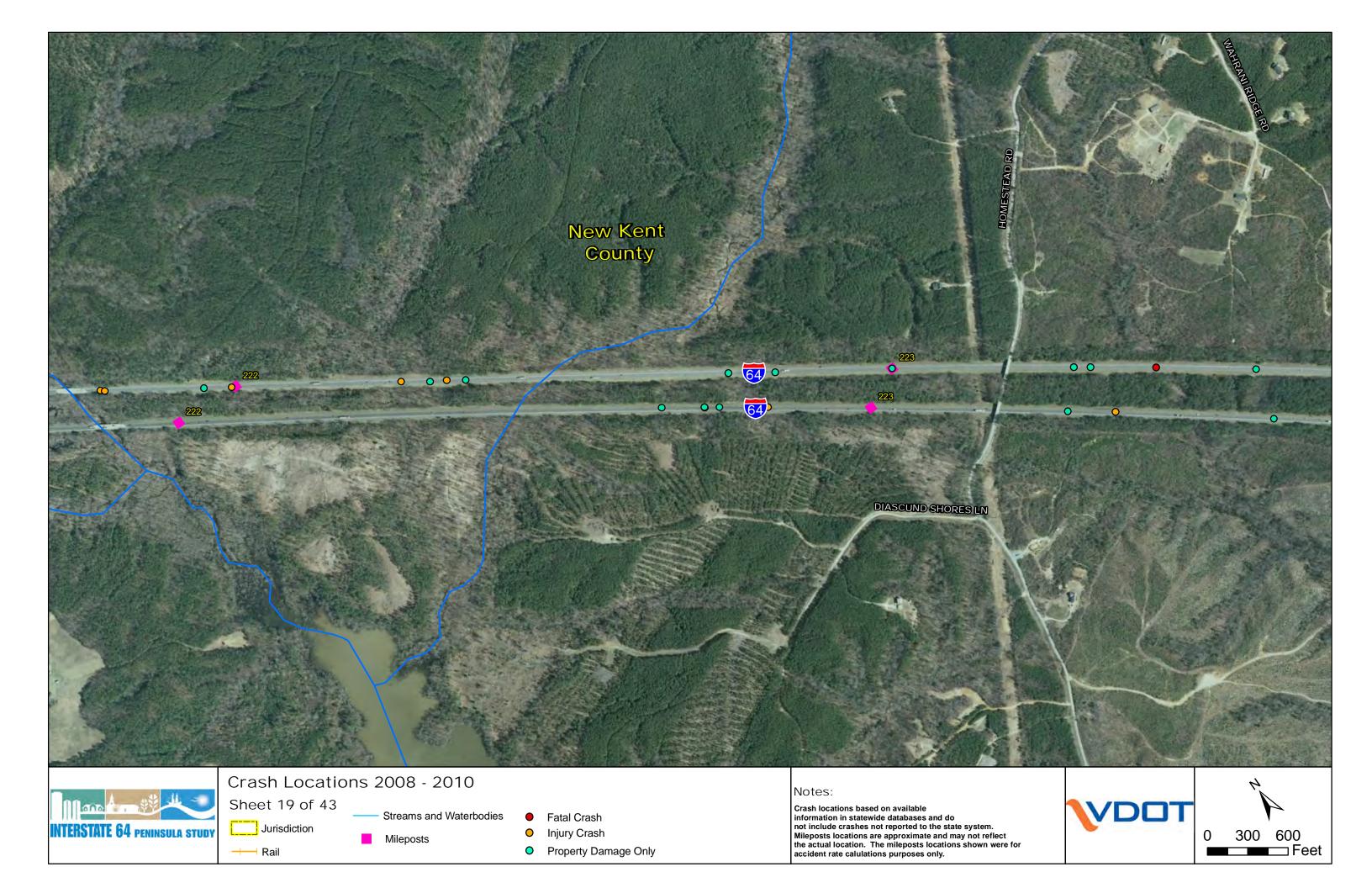
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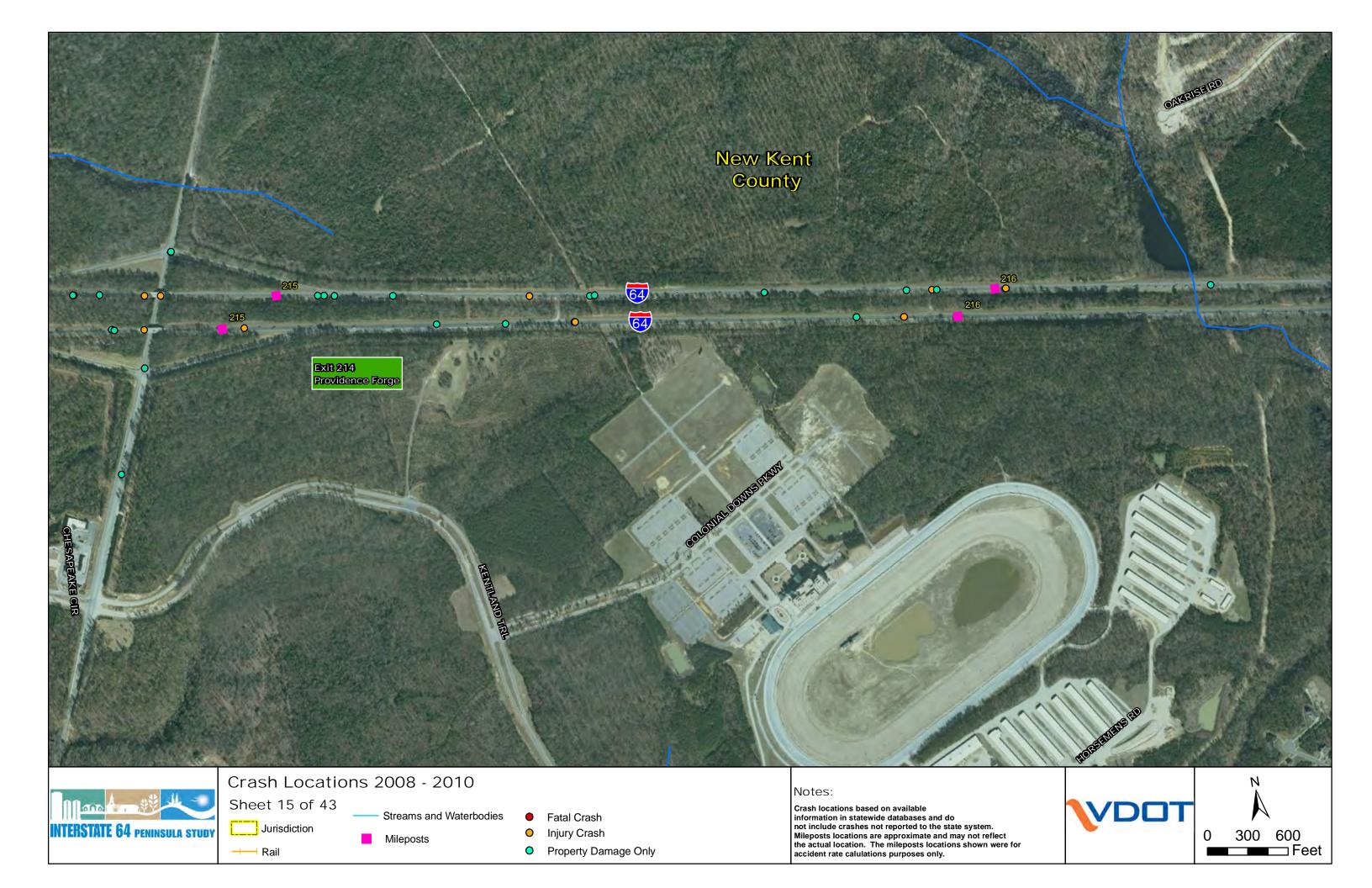
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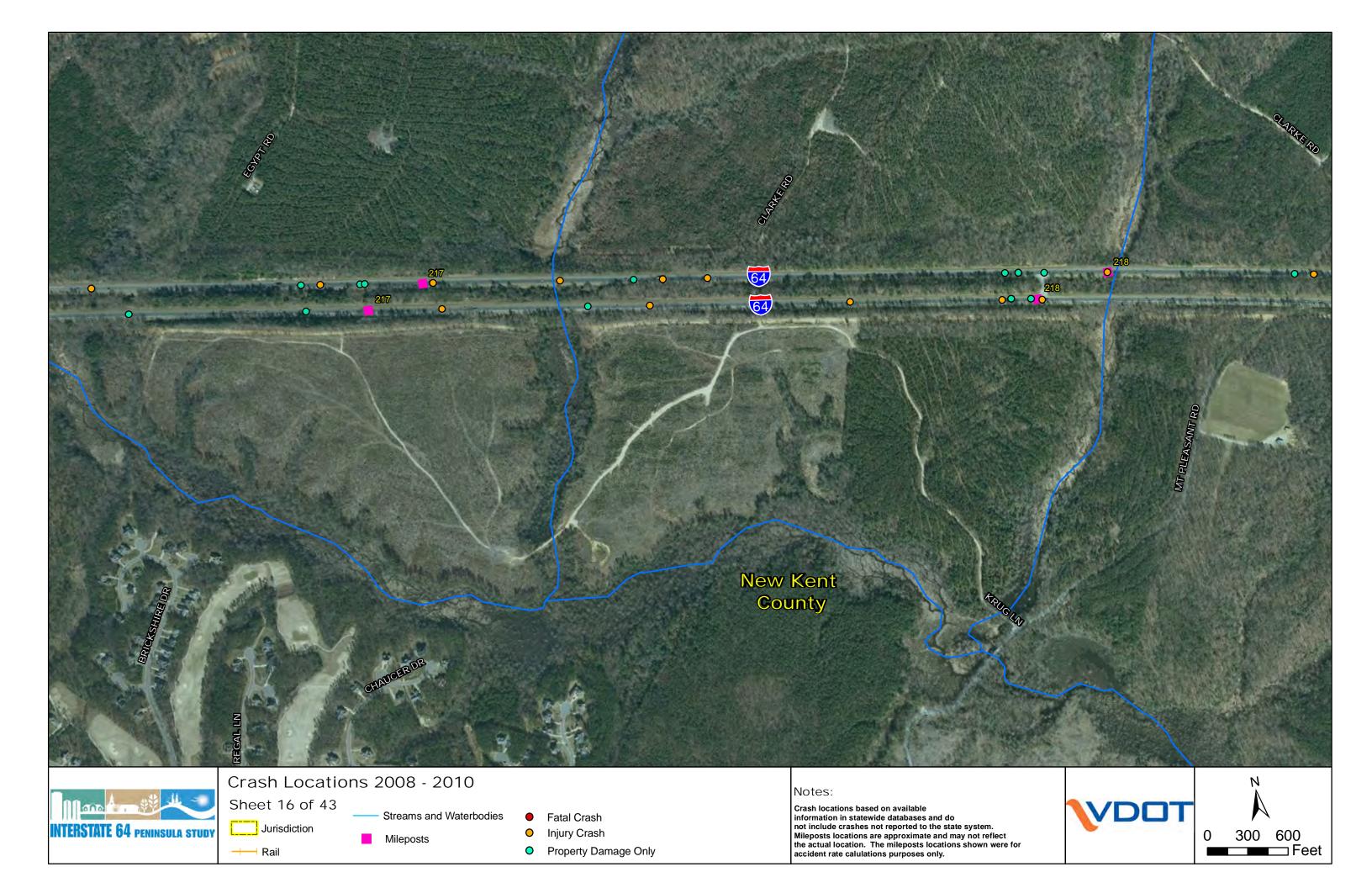


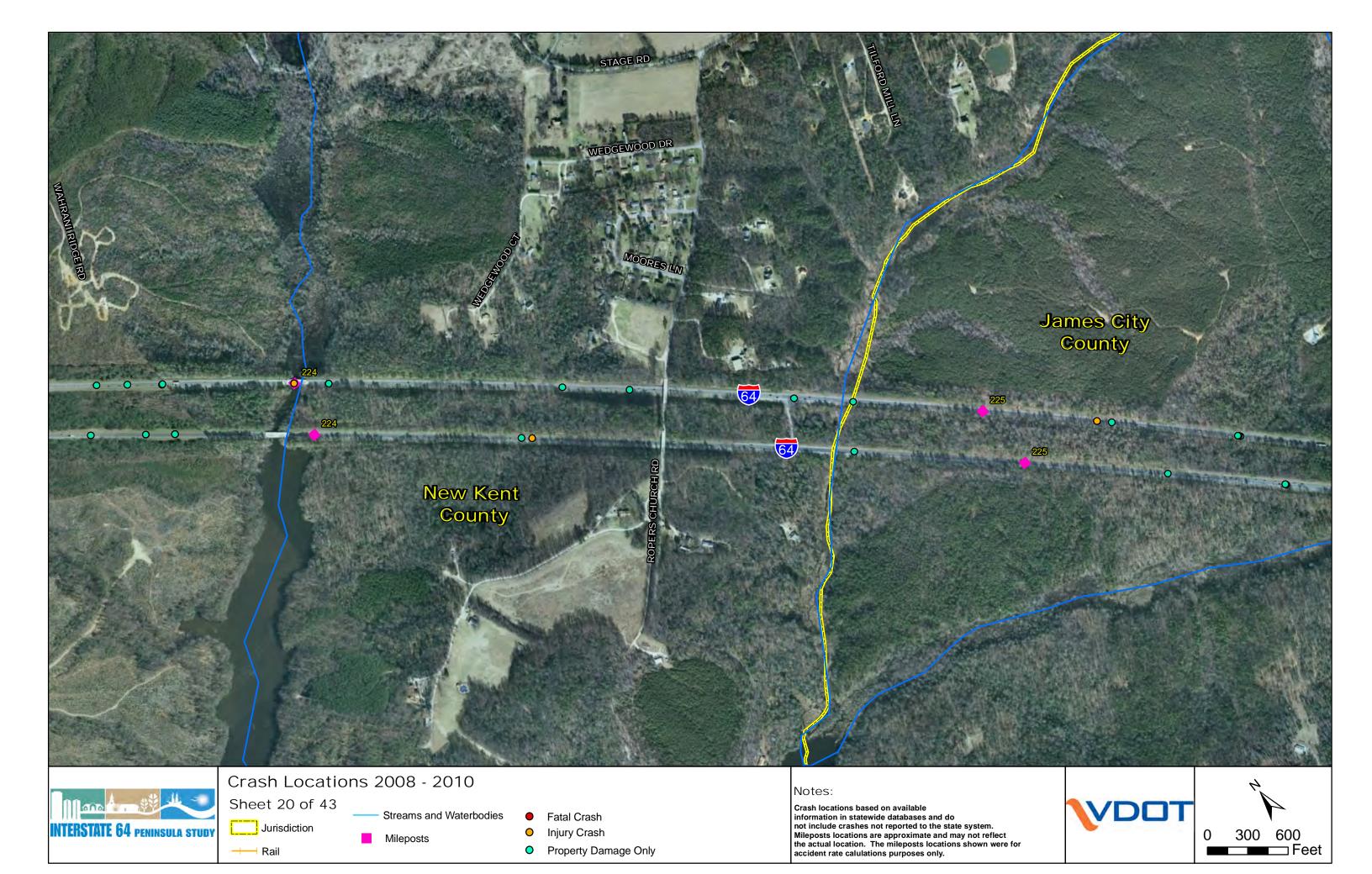


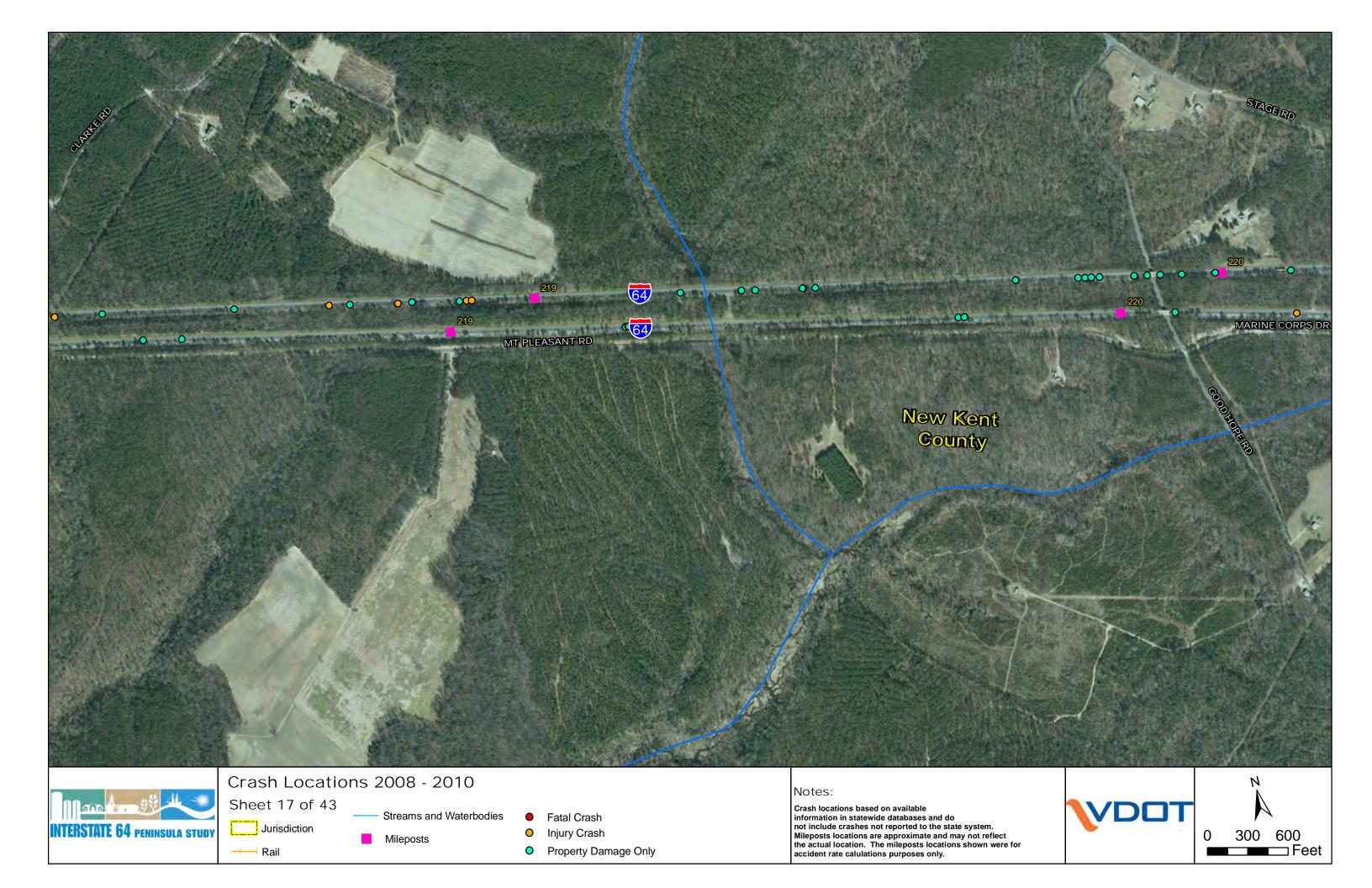


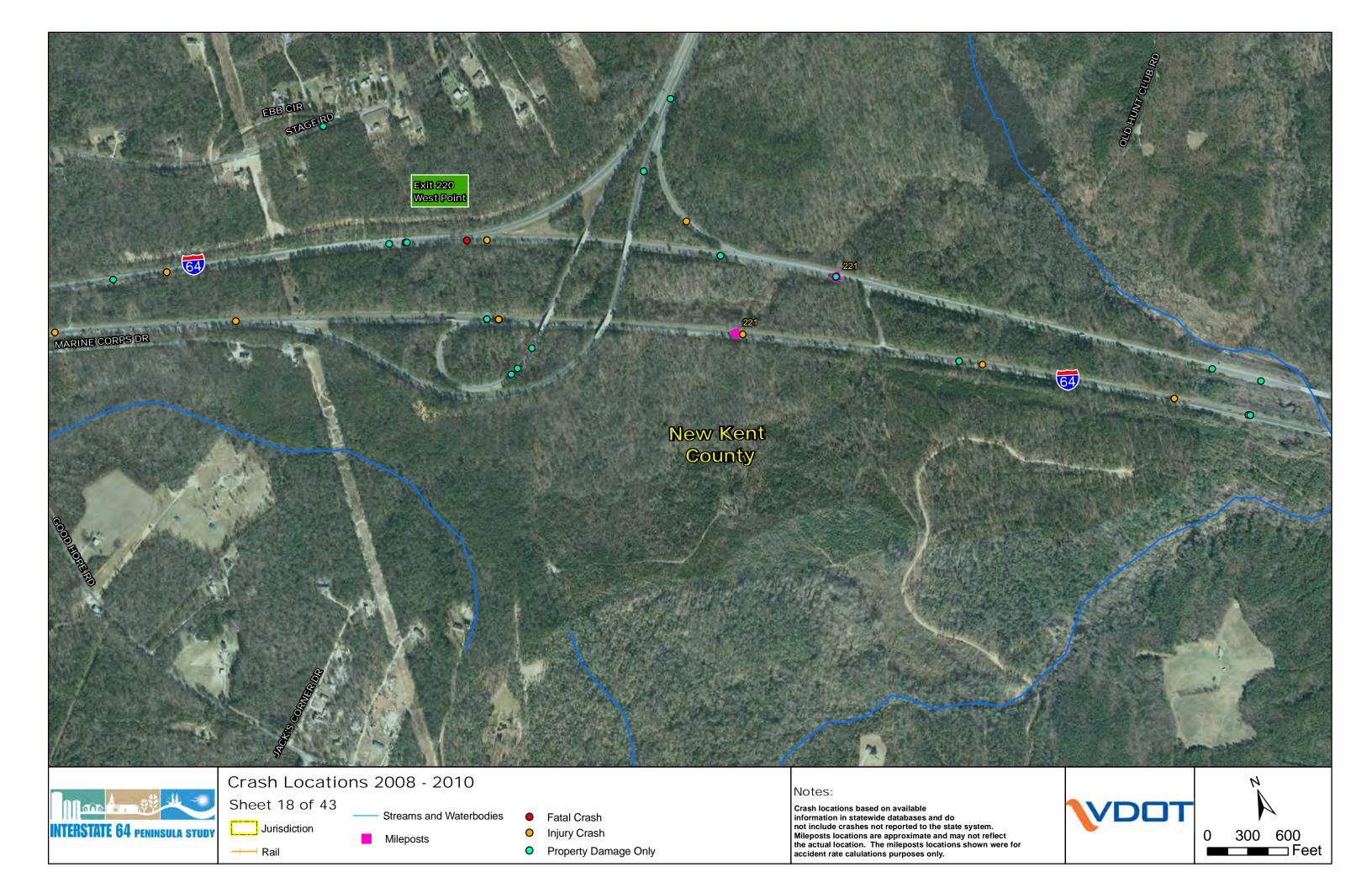


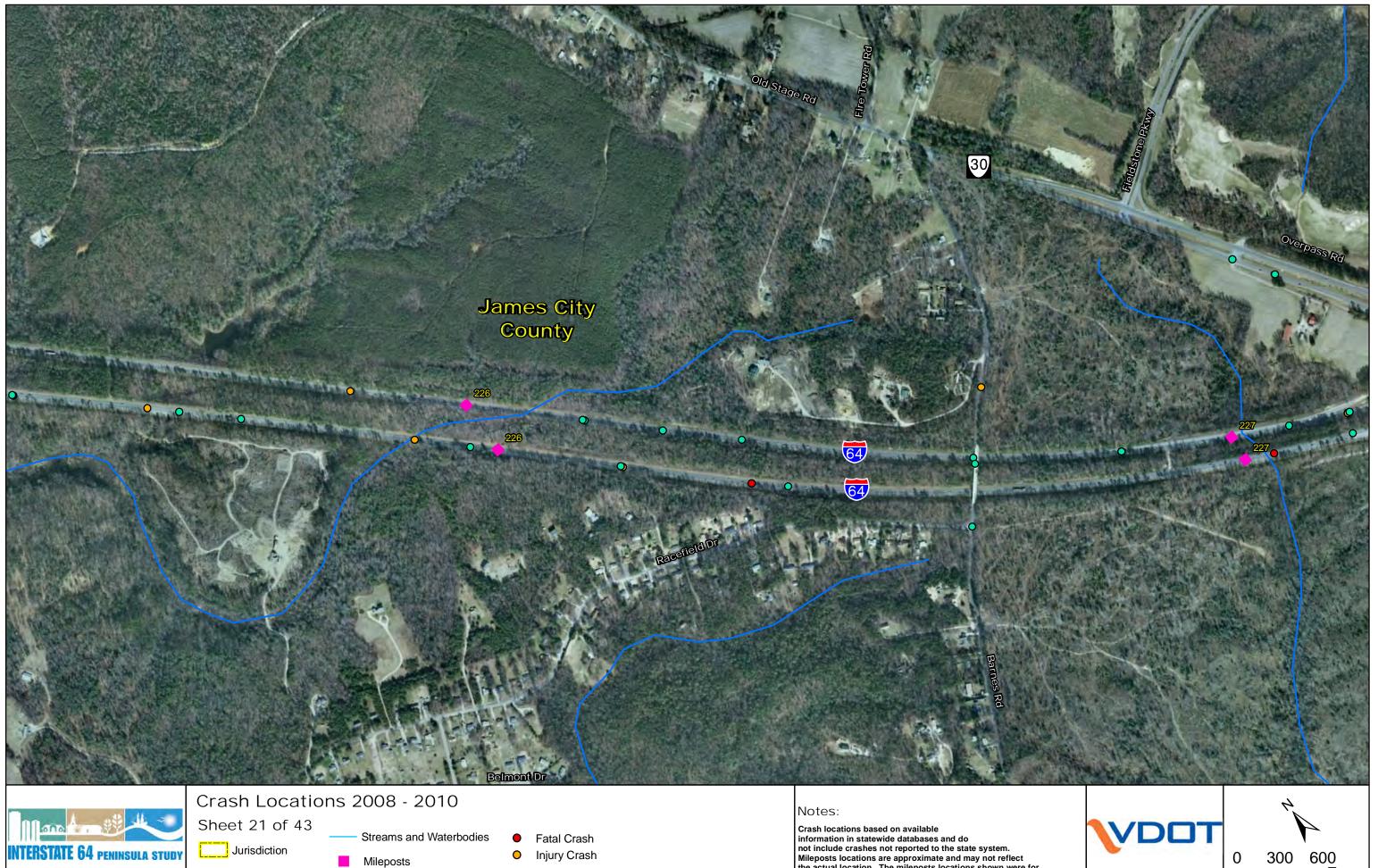








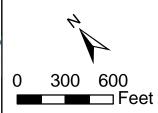






----- Rail

Property Damage Only







Streams and Waterbodies Jurisdiction

----- Rail

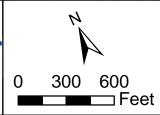
Mileposts

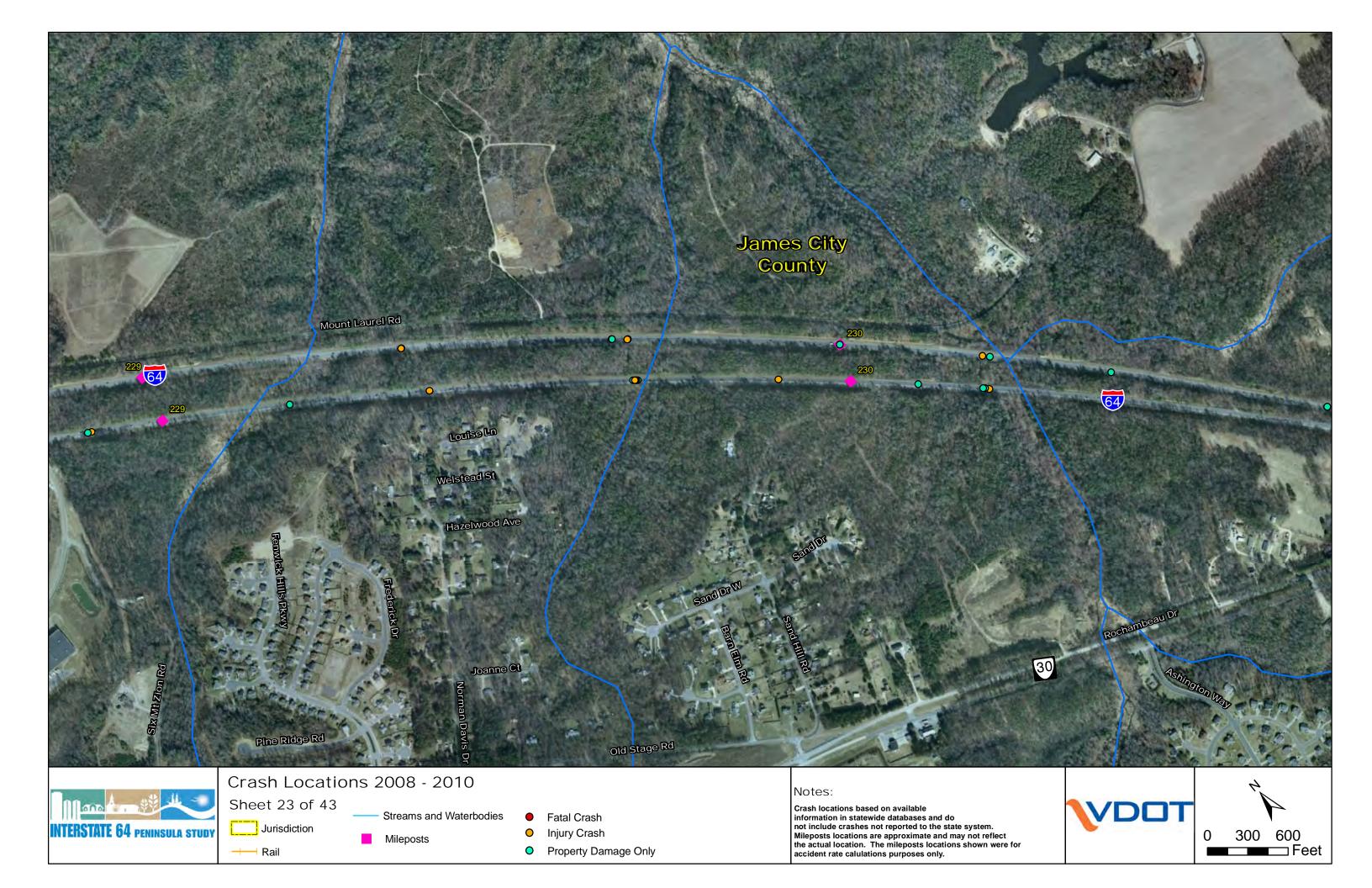
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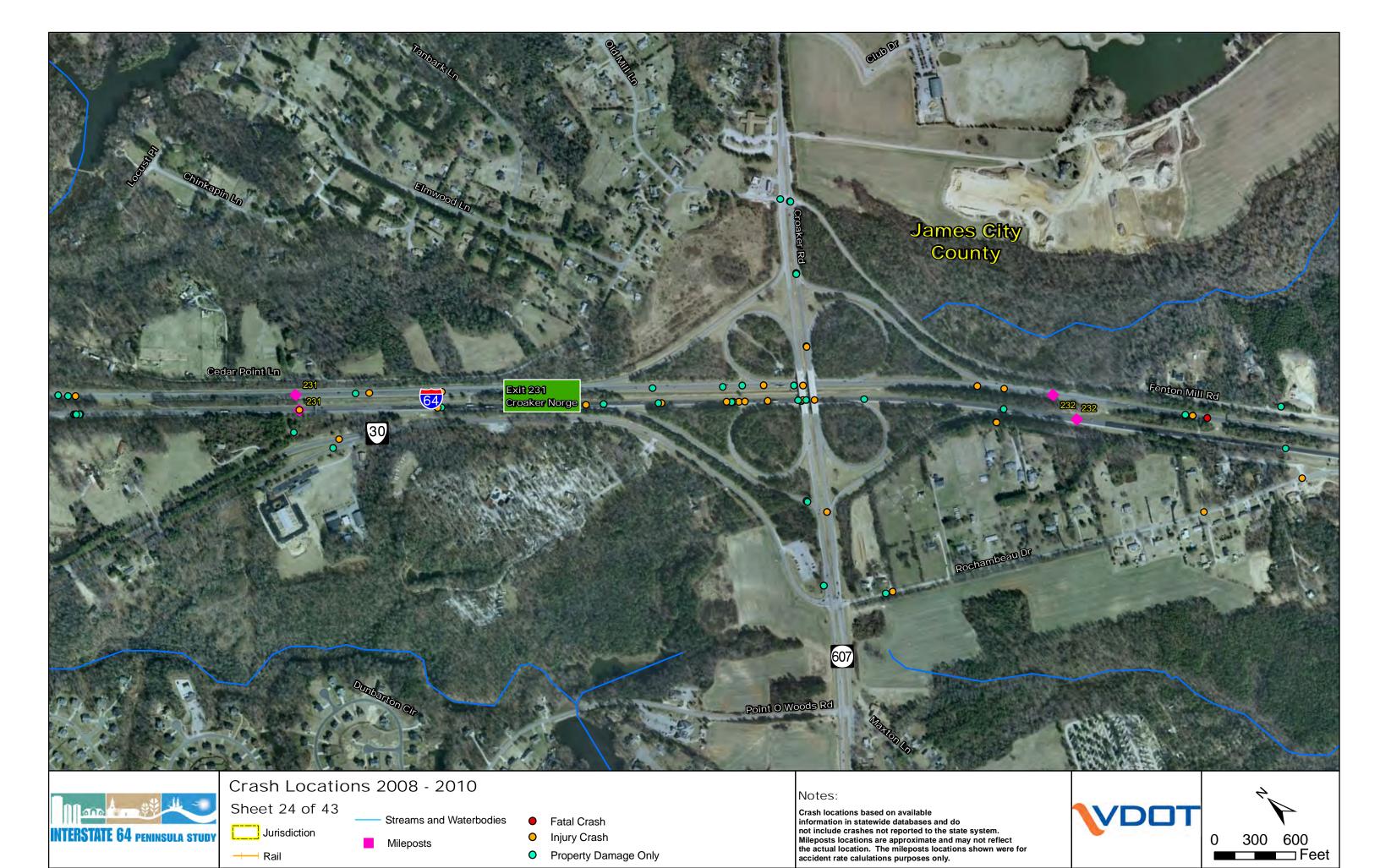
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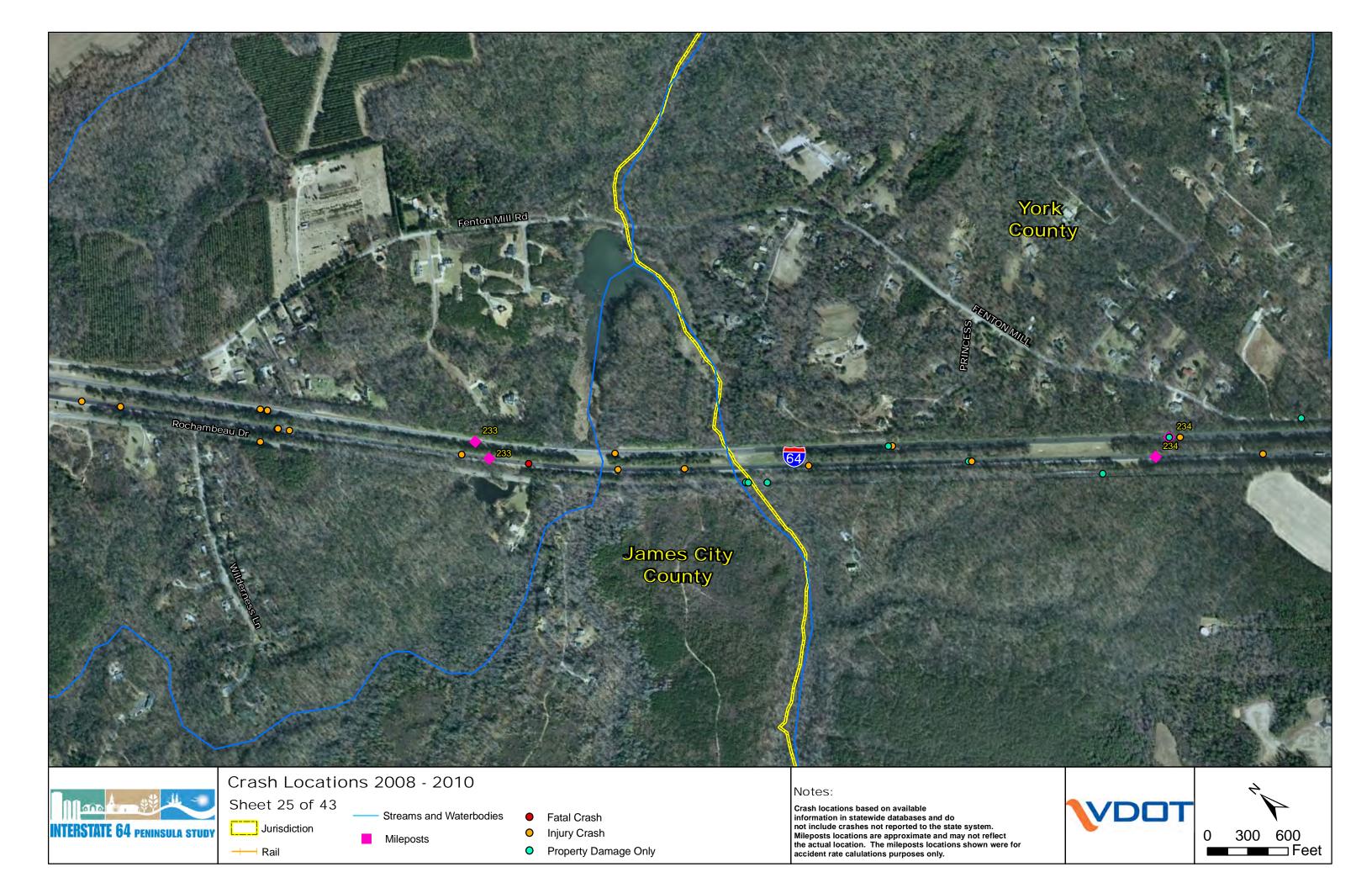
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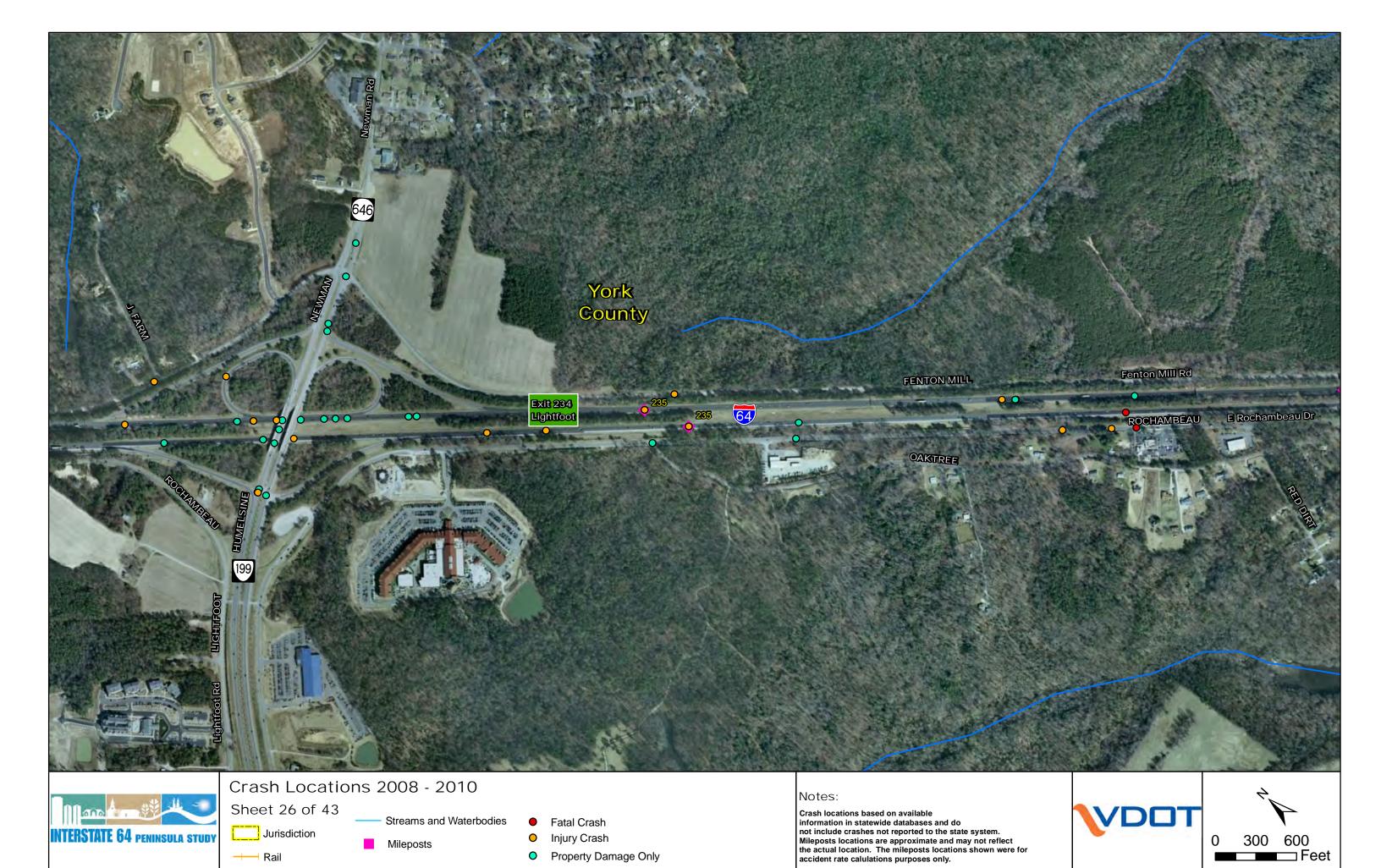


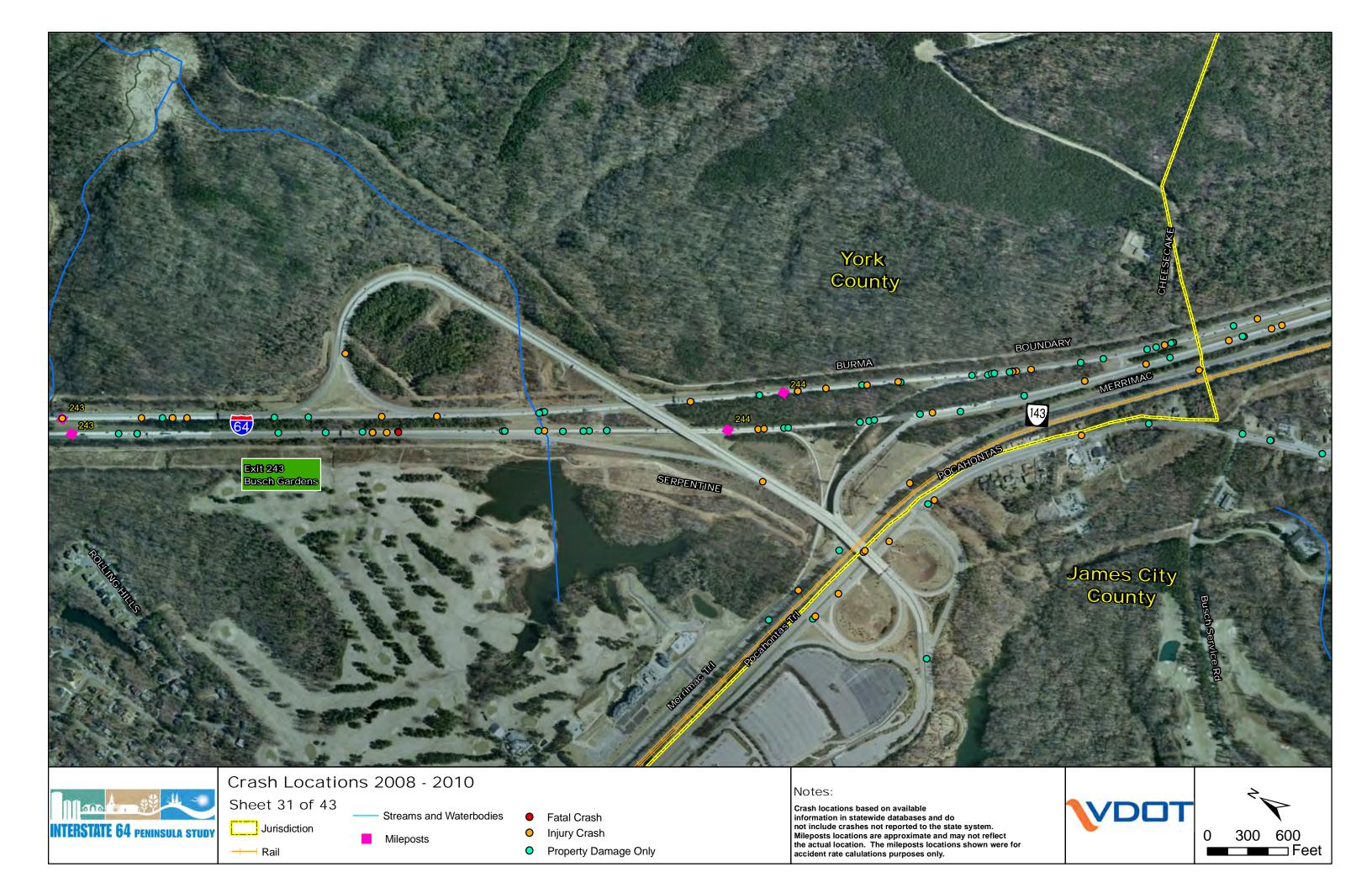


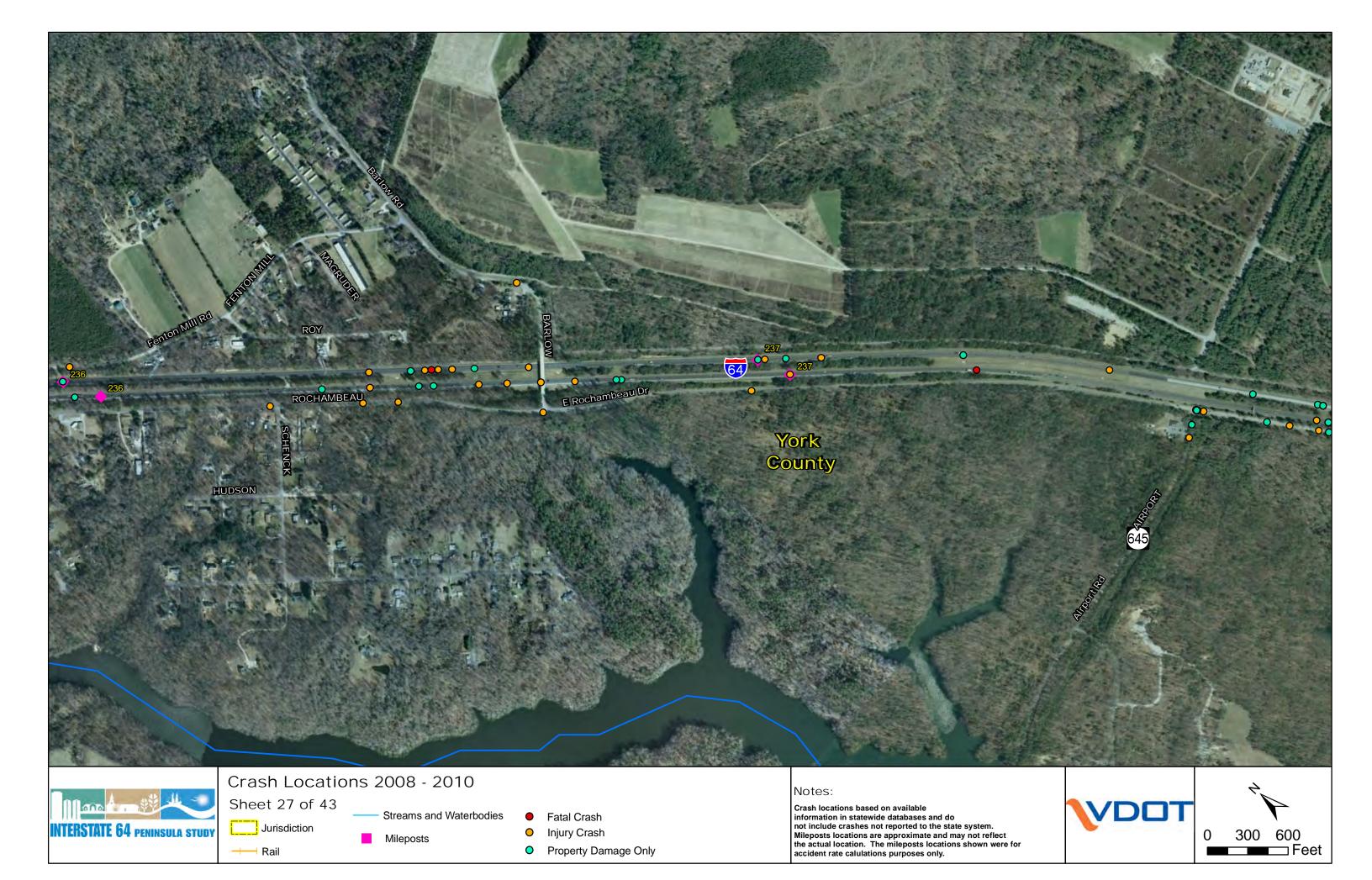


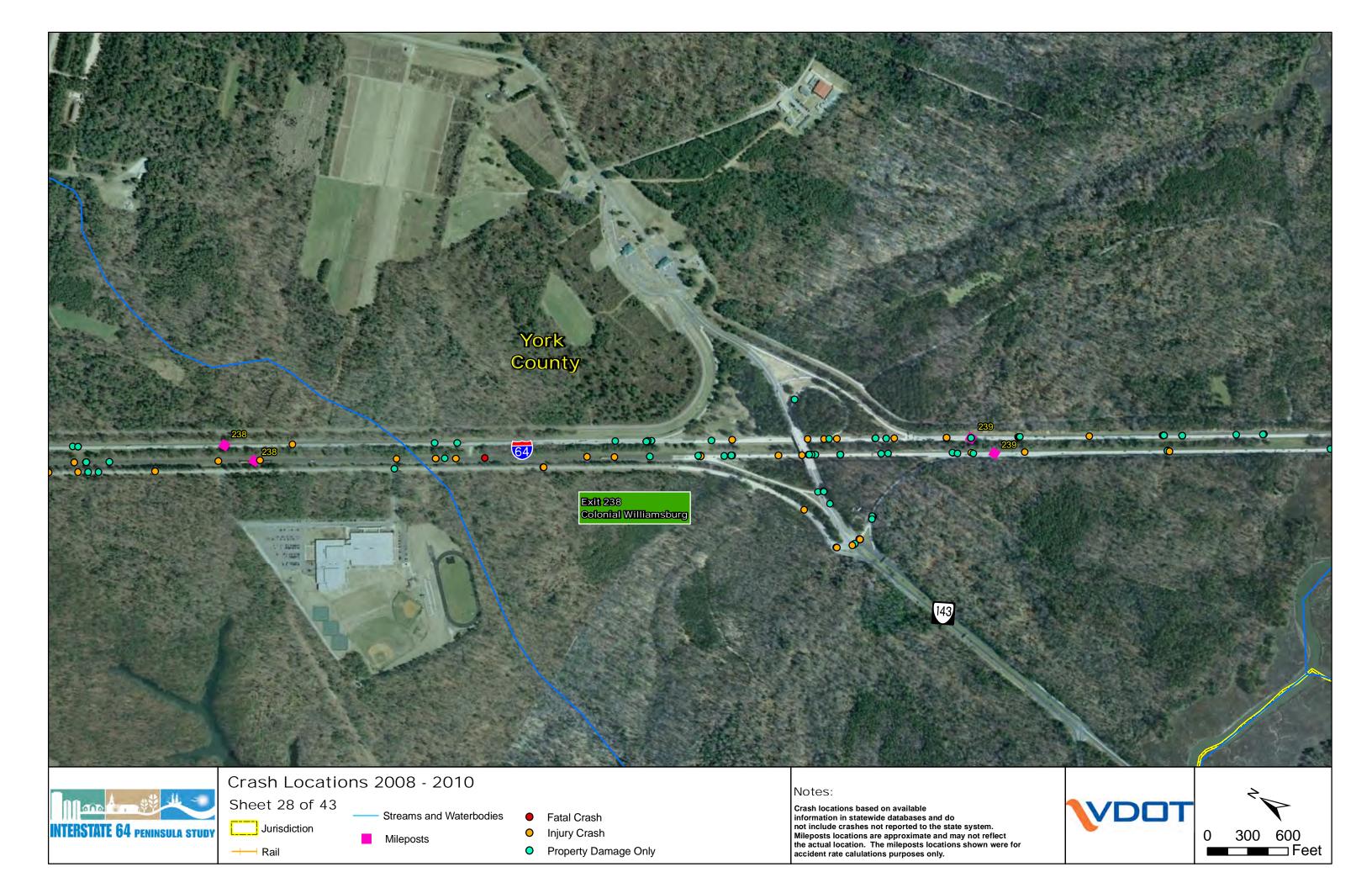


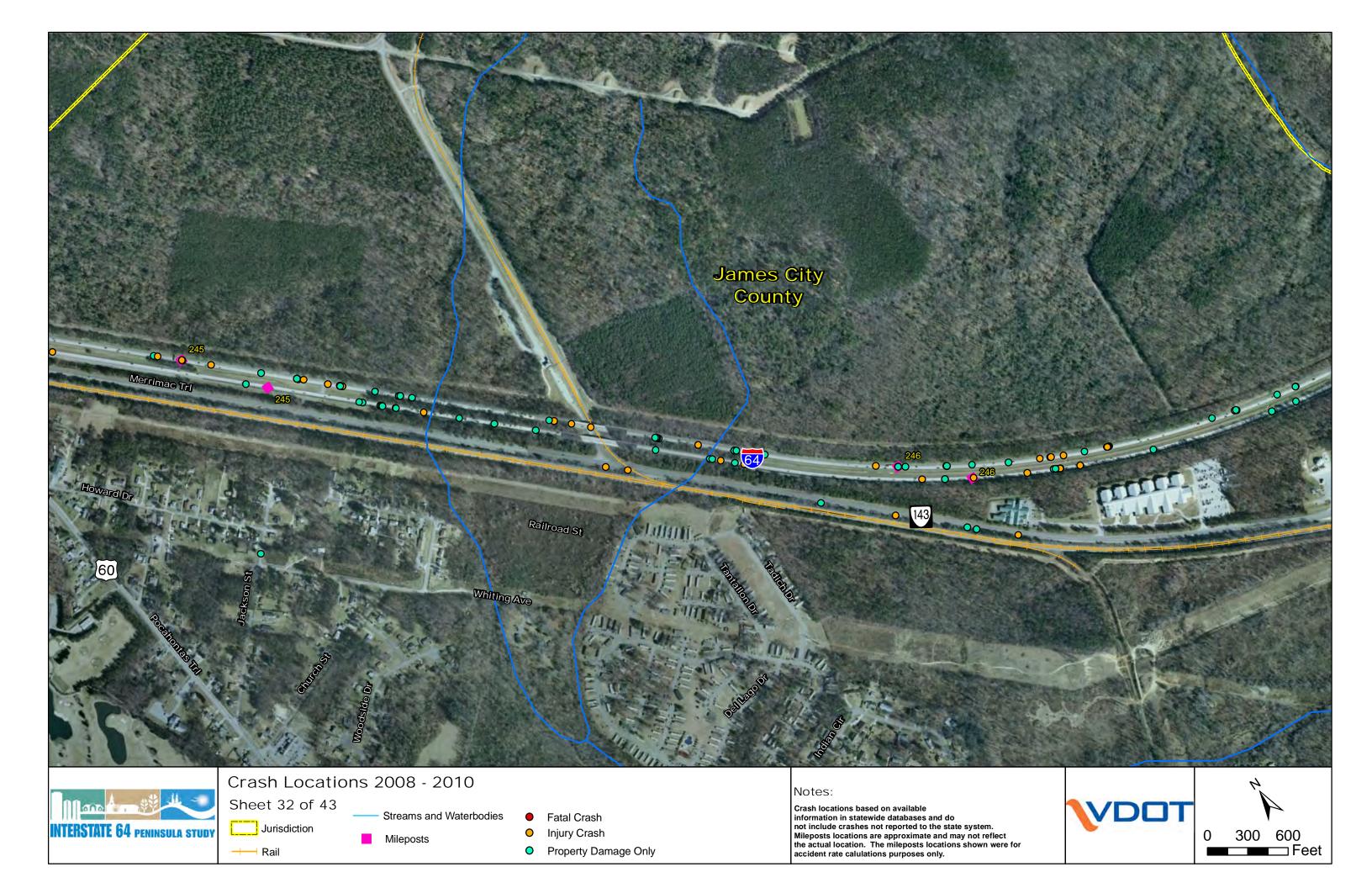


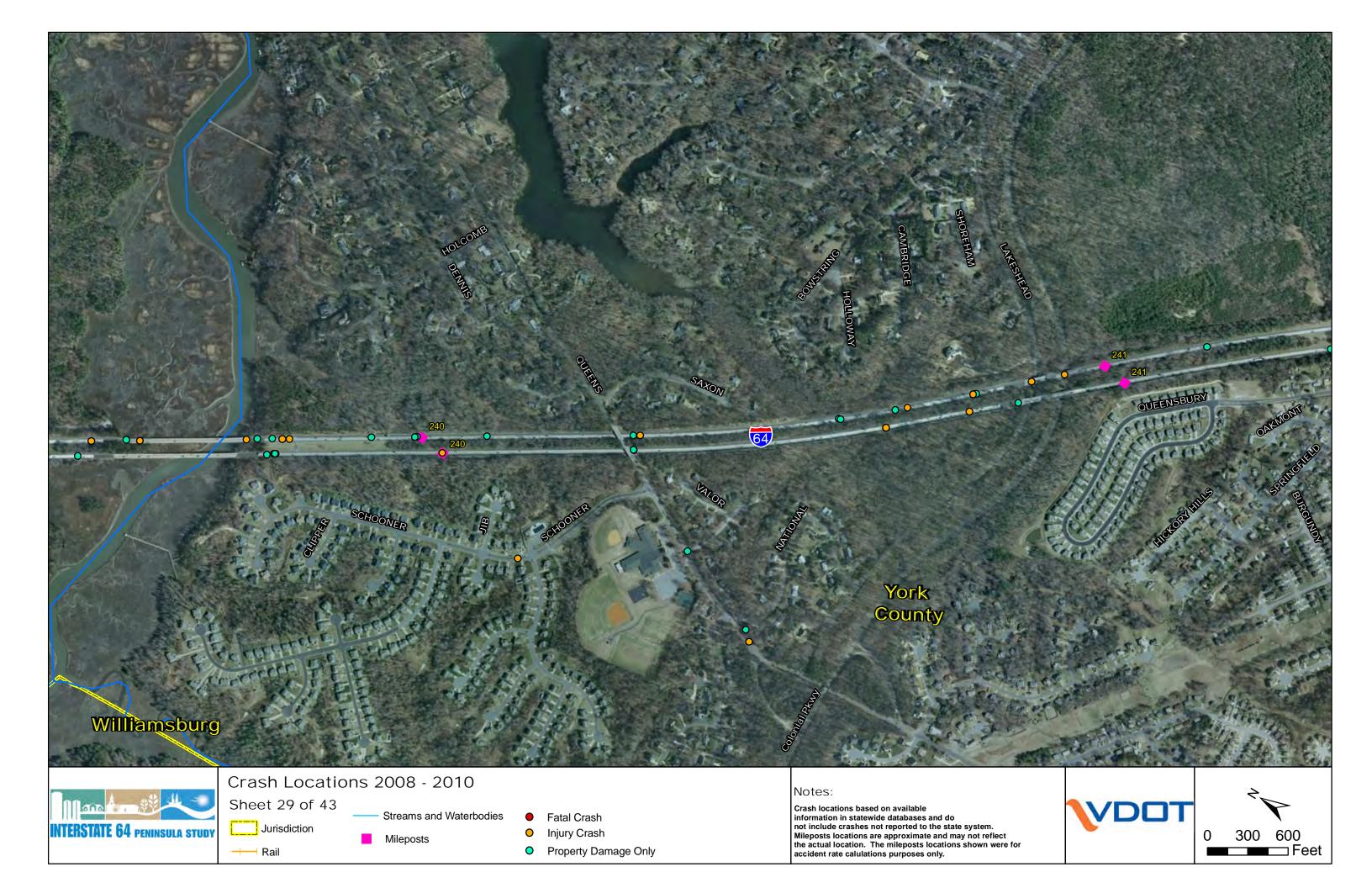


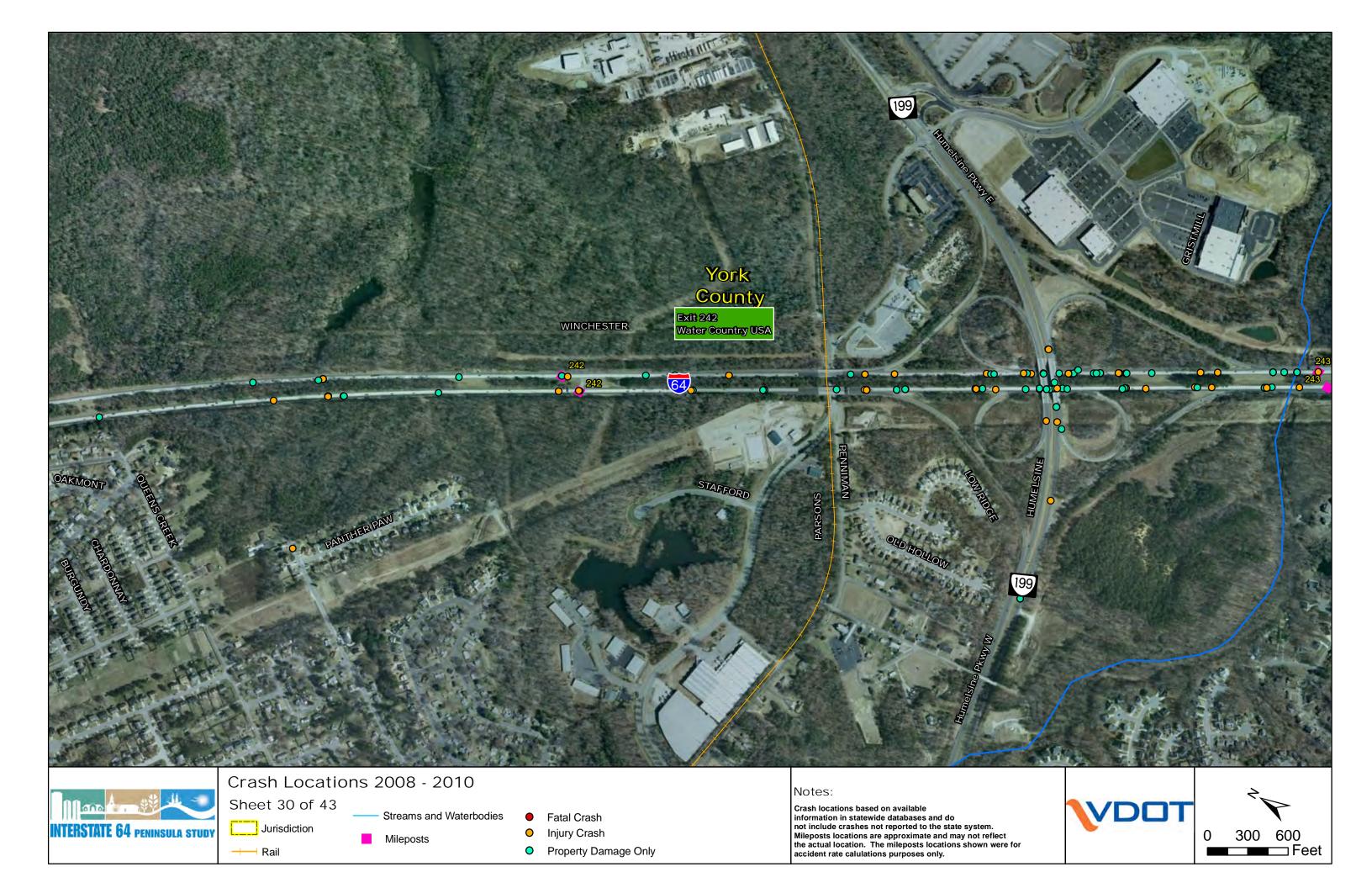


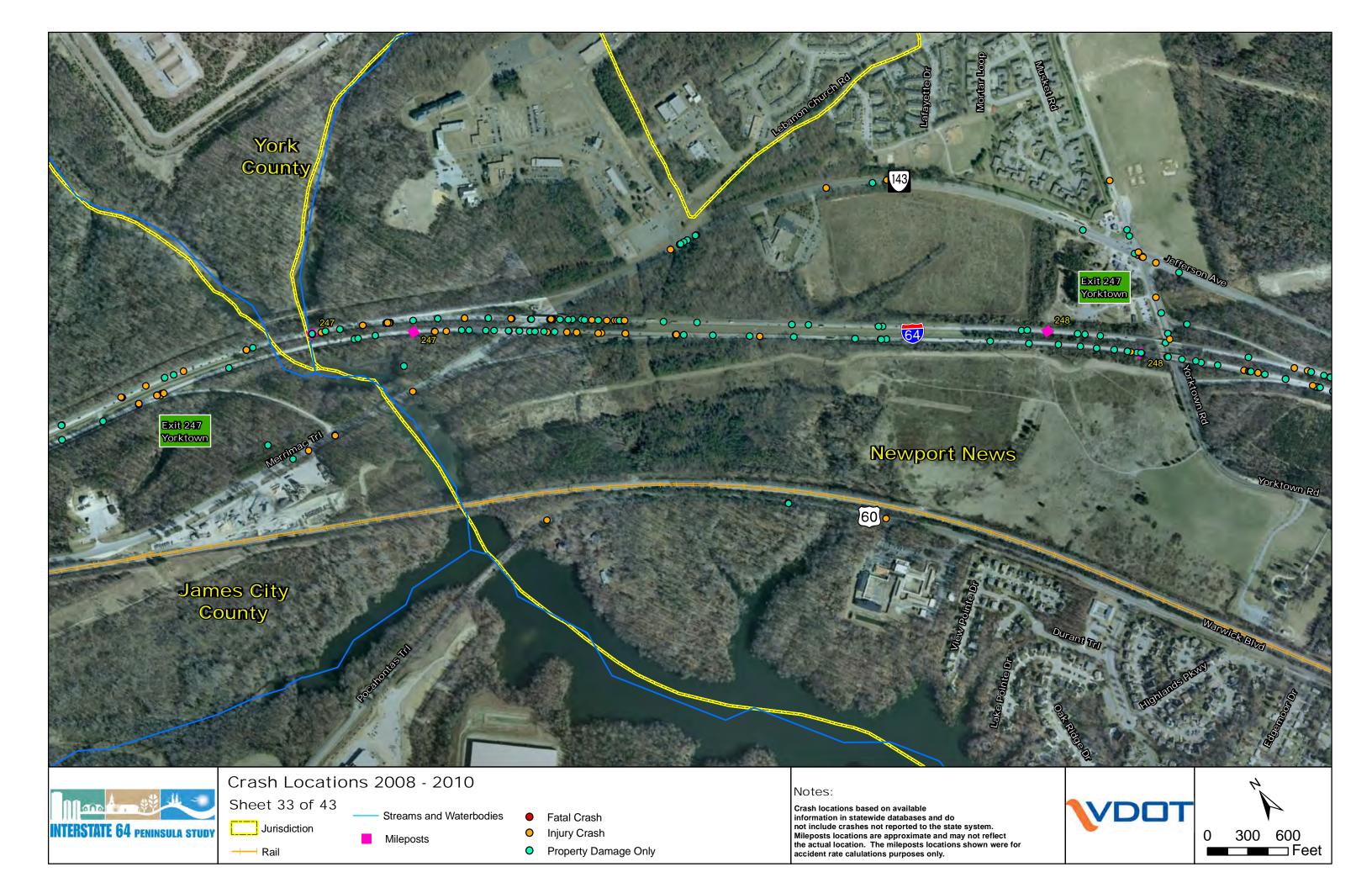


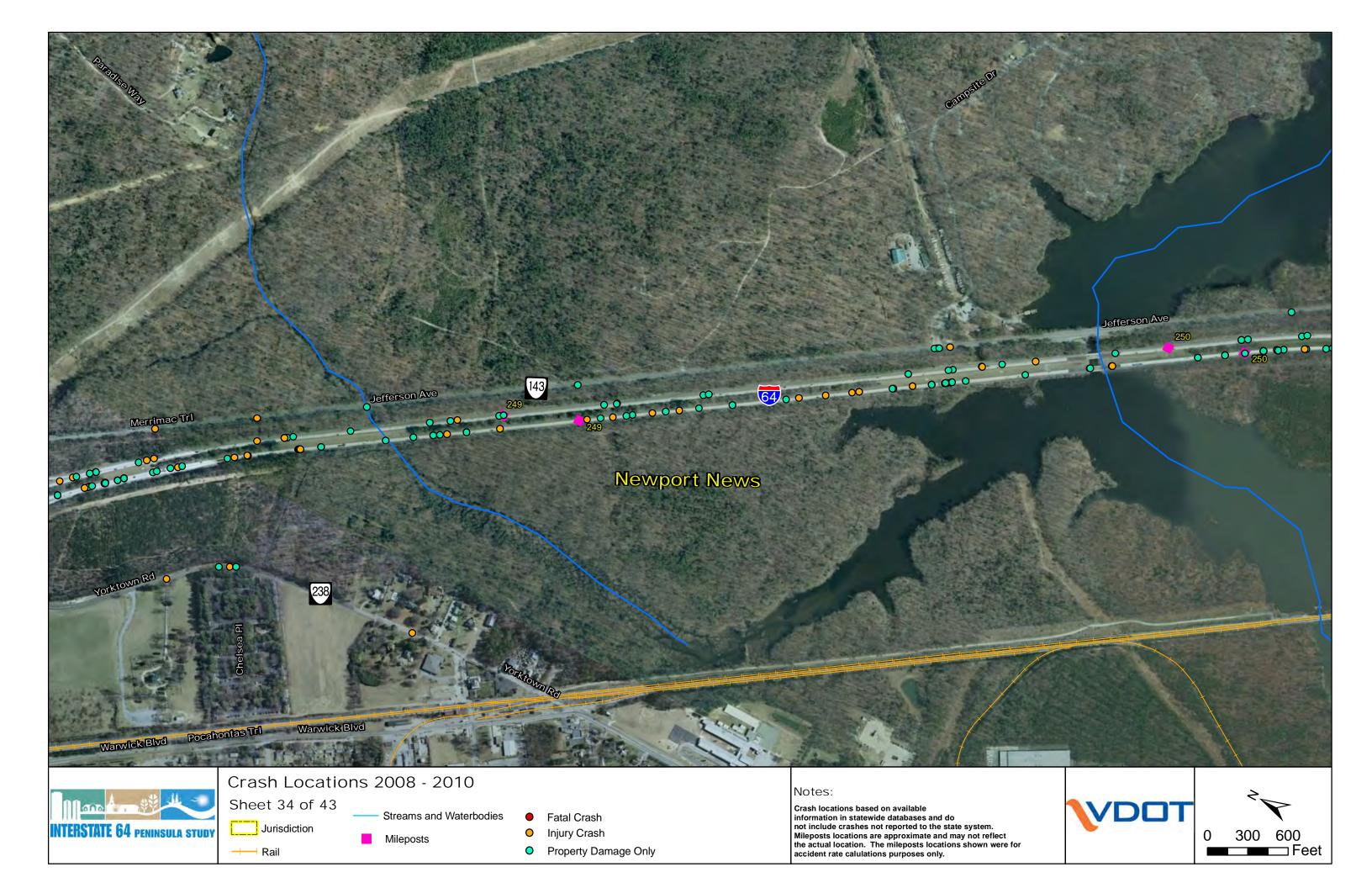


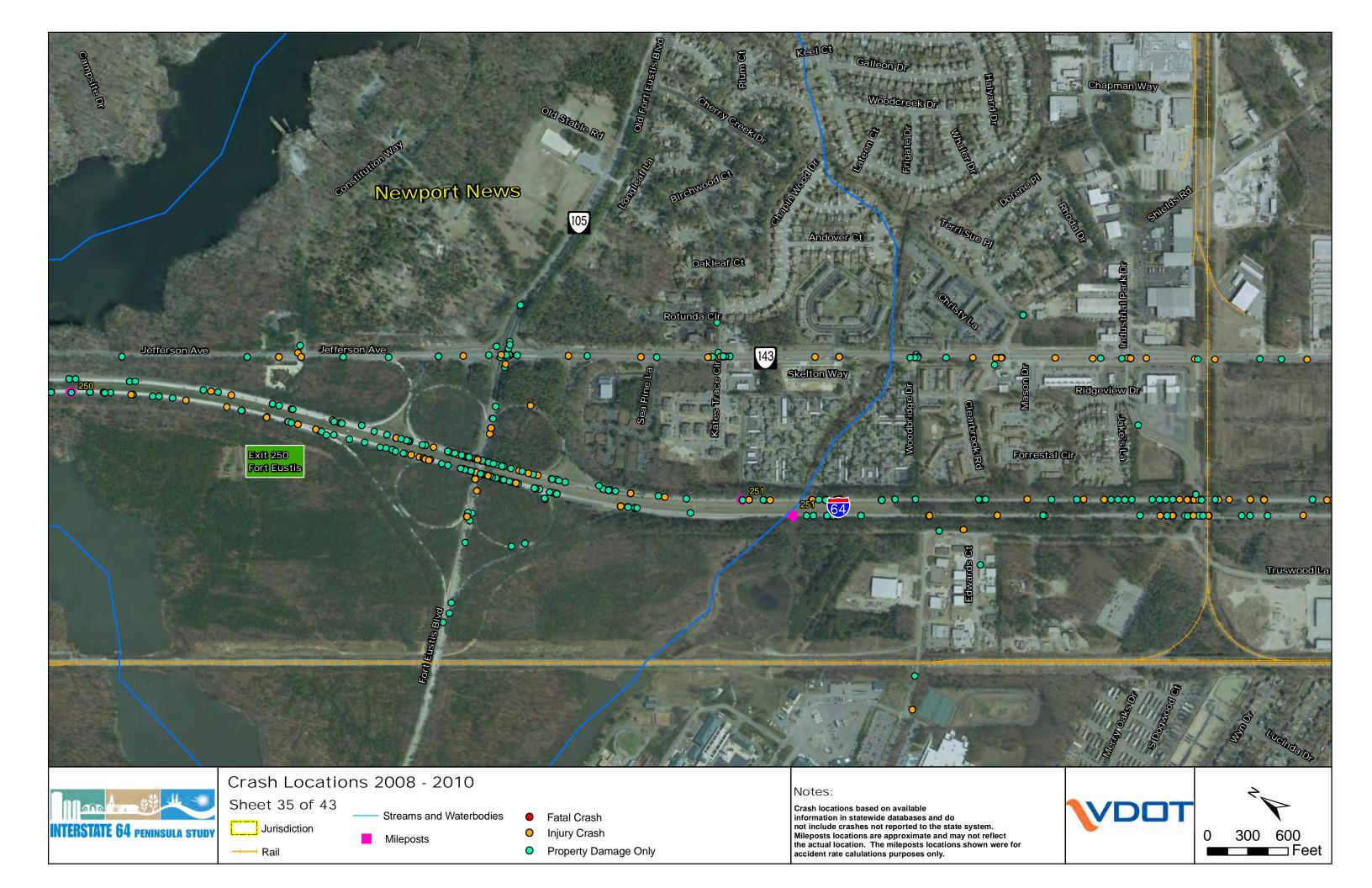


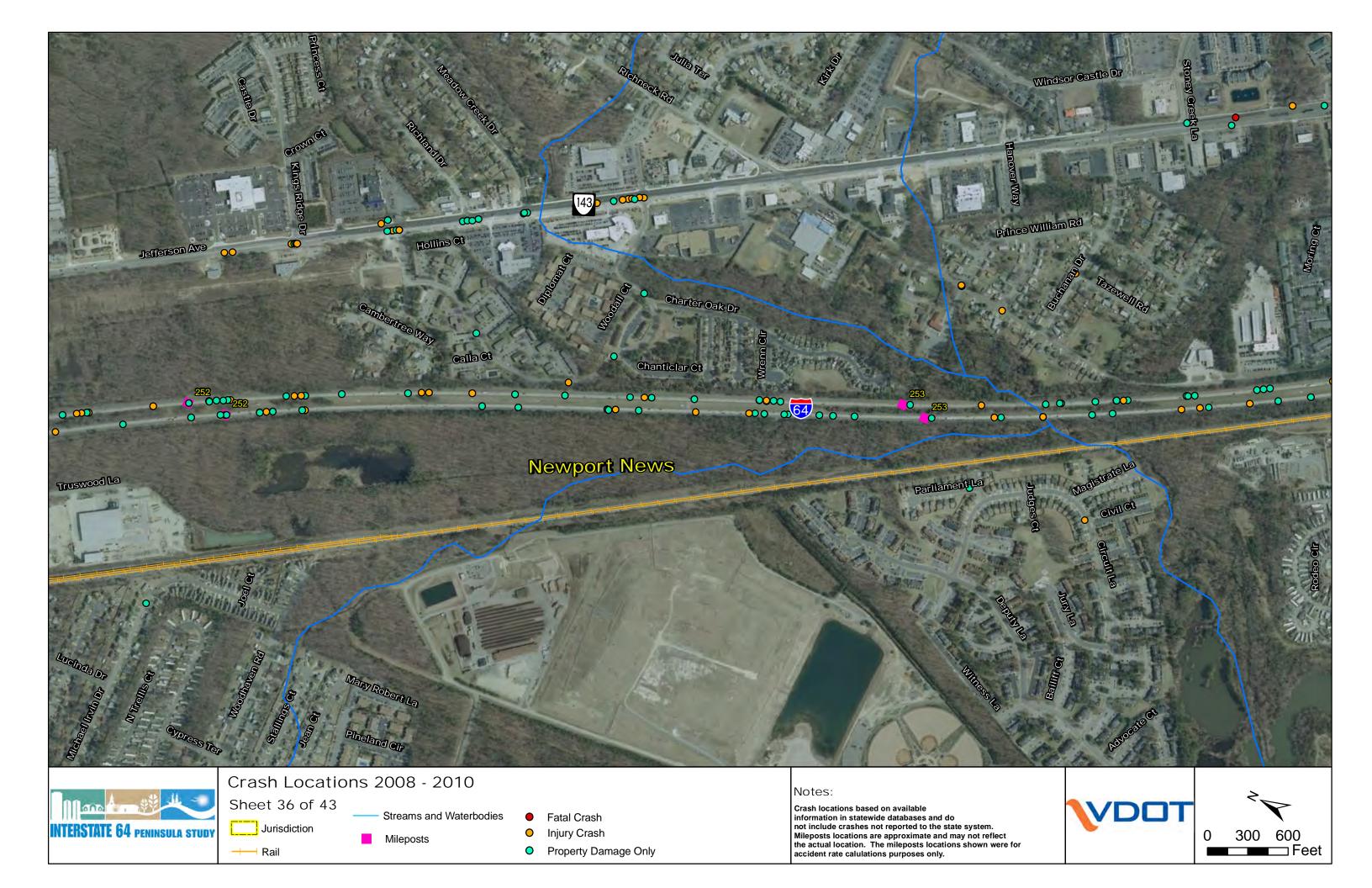




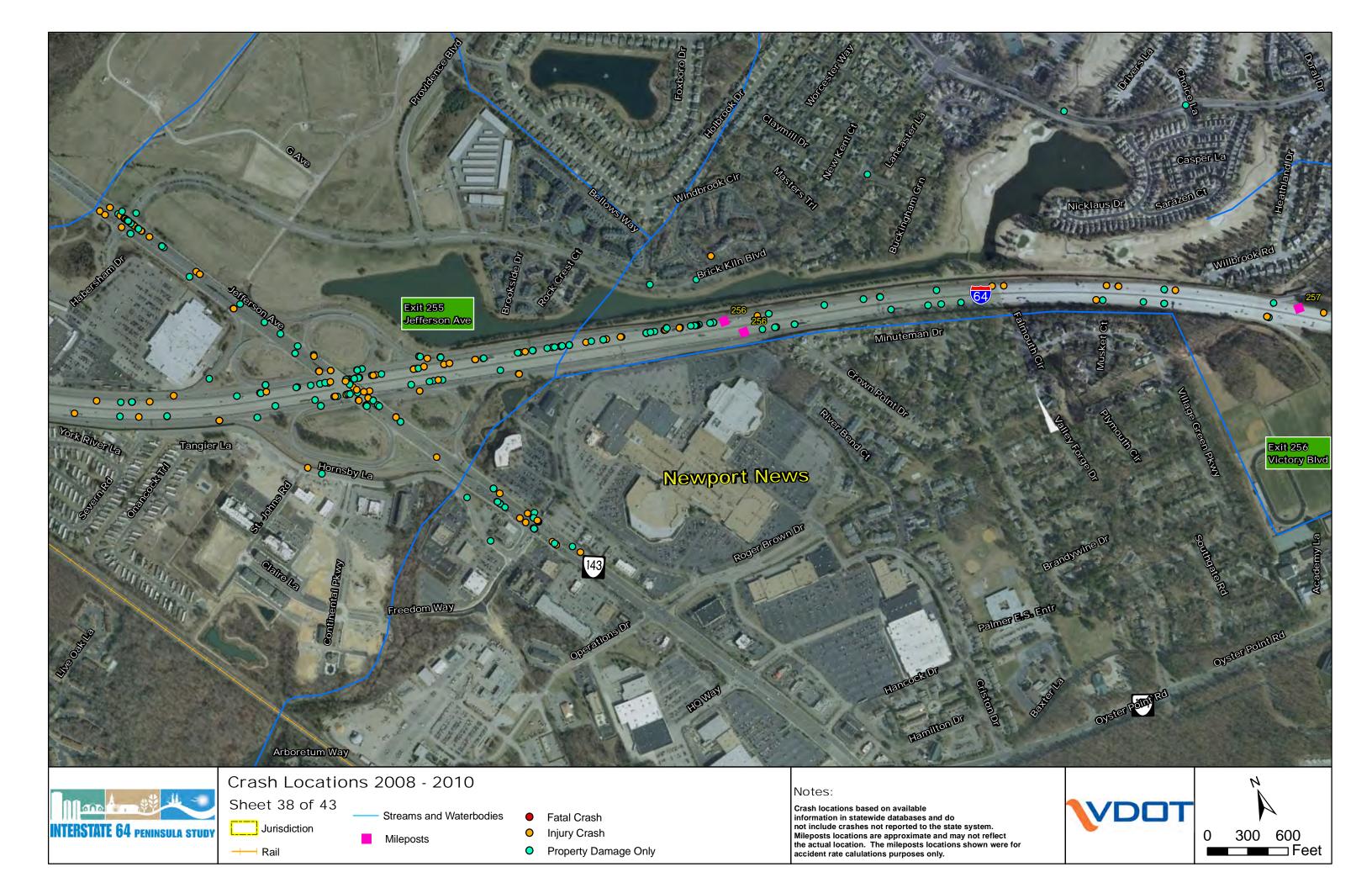


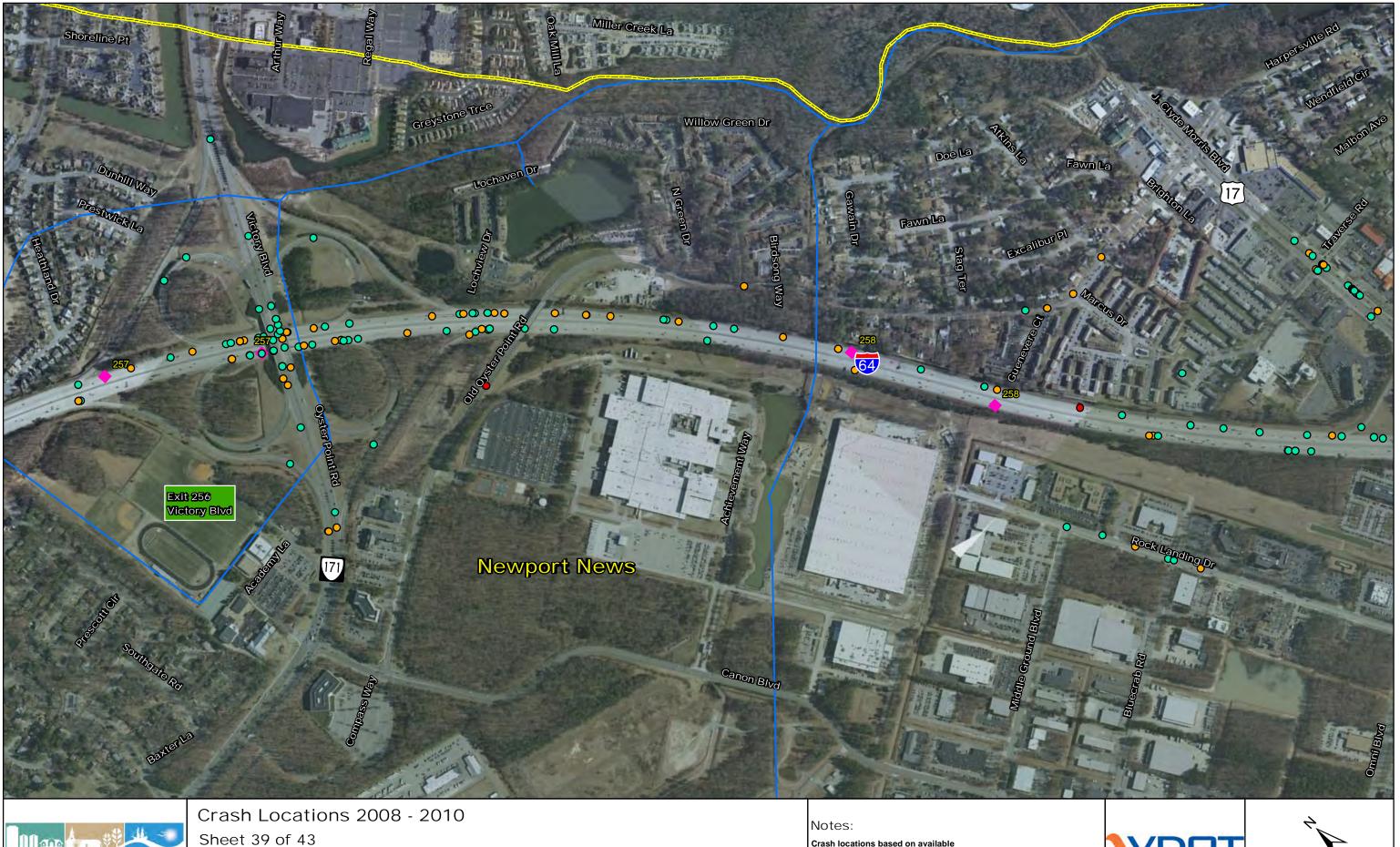














Sheet 39 of 43

Jurisdiction

----- Rail

Streams and Waterbodies

Mileposts

Fatal CrashInjury Crash

Property Damage Only

Crash locations based on available information in statewide databases and do not include crashes not reported to the state system. Mileposts locations are approximate and may not reflect the actual location. The mileposts locations shown were for accident rate calulations purposes only.



