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# **CURRENT TRAFFIC VOLUMES**



**I-95 Intermodal Mobility Project:  
Heading for the Twenty-First Century**





# CURRENT TRAFFIC VOLUMES

I-95 Intermodal Mobility Project

*Prepared for  
the*



**PENNSYLVANIA  
DEPARTMENT OF  
TRANSPORTATION**

*by the*



**DELAWARE  
VALLEY  
REGIONAL  
PLANNING  
COMMISSION**

*January 1991*



# DELAWARE VALLEY REGIONAL PLANNING COMMISSION

## Publication Abstract

<b>TITLE</b>	<b>Date Published:</b> January 1991
I-95 INTERMODAL MOBILITY PROJECT Volume 2	
CURRENT TRAFFIC VOLUMES	<b>Publication No.</b> 91002

### Geographic Area Covered:

Delaware Valley Region

### Key Words:

Traffic Count, Truck Travel, Peak Hour, Directional Percent, Corridor, Interchange

## ABSTRACT

*This report summarizes the results of a traffic counting program about motorists using I-95 within the state of Pennsylvania, conducted by DVRPC for PennDOT. The effort was designed to collect data to determine current traffic volumes in the I-95 corridor. Truck impact, peak hour percent and directional factors are also included in the report.*

*The report presents the I-95 corridor description, the data collection methodology, a summary of the findings, and an appendix where detailed counts are shown for seven, randomly selected, I-95 interchanges.*

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*This report, prepared by the Transportation Planning Division of the Delaware Valley Regional Planning Commission, was financed by the Pennsylvania Department of Transportation and the Federal Highway Administration. The authors, however, are solely responsible for its finding and conclusions, which may not represent the official views or policies of the funding agencies.*

*Created in 1965, the Delaware Valley Regional Planning Commission (DVRPC) is an interstate, intercounty and intercity agency which provides continuing, comprehensive and coordinated planning for the orderly growth and development of the Delaware Valley region. The region includes Bucks, Chester, Delaware, and Montgomery counties as well as the City of Philadelphia in Pennsylvania and Burlington, Camden, Gloucester, and Mercer counties in New Jersey. The Commission is an advisory agency which divides its planning and service functions among the Office of the Executive Director, the Office of Public Affairs, and four line Divisions: Transportation Planning, Regional Information Services Center, Strategic Planning, and Finance and Administration. DVRPC's mission for the 1990s is to emphasize technical assistance and services and to conduct high priority studies for member state and local governments, while determining and meeting the needs of the private sector.*



*The DVRPC logo is adapted from the official seal of the Commission and is designed as a stylized image of the Delaware Valley. The outer ring symbolizes the region as a whole while the diagonal bar signifies the Delaware River flowing through it. The two adjoining crescents represent the Commonwealth of Pennsylvania and the State of New Jersey. The logo combines these elements to depict the areas served by DVRPC.*



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## I. INTRODUCTION

Mobility has always been considered an essential element in fulfilling people's desire to travel, in transporting goods and in spurring economic growth of an area. The National System of Interstate Highways called for guidelines establishing high standards in surface mobility. One of the most important facilities under the Interstate System is represented by Interstate Route 95 (I-95) whose corridor extends from Maine to Florida. Following the eastern coastline of the country, I-95 spans over 1,800 miles and crosses numerous states. In Pennsylvania, this interstate facility serves portions of Delaware, Philadelphia and Bucks counties.

Originally the Interstate System was intended to provide a fast and convenient means for the movement of people and goods between states. In time, especially in metropolitan areas, the interstate facilities have been used by thousands of commuters for short daily trips. This additional burden has caused crowded conditions and long delays for the many motorists who depend on the Interstate System for long distance trips.

In order to minimize today's traffic problems and to meet tomorrow's growing needs, the Pennsylvania Department of Transportation (PennDOT) and the Federal Highway Administration (FHWA), in cooperation with other federal, county and private agencies, are undertaking a long range I-95 corridor modernization commitment.

To improve the existing conditions of the I-95 Corridor, PennDOT has requested the Delaware Valley Regional Planning Commission (DVRPC) to provide current traffic counts for the highway facilities in the corridor.

The purpose of this report is to assess the current highway demand, to provide a database for comparison with future travel projections and to establish a basis for traffic trends. Section II includes a description of the I-95 corridor while the methodology of the data collection effort is presented in Section III. A summary of the current daily traffic volumes, peak hour demand truck travel impact and directional distribution of traffic on I-95 is included in Section IV. Also included in this report is an Appendix where detailed counts by the hour of the day are provided for seven selected I-95 interchanges. □



## II. CORRIDOR DESCRIPTION

The I-95 corridor extends in Pennsylvania for approximately fifty-one miles, beginning at the Delaware State Line and proceeding north to the Delaware River, the boundary feature with New Jersey (see Map I).

A series of approximately thirty-two existing interchanges marks entrance or exit points for motorists who travel on I-95 in Pennsylvania. An additional three new interchanges and five partial connectors are either under construction or included in the PennDOT Transportation Improvement Program (TIP).

The existing interchanges, as of November 20, 1990, are served by approximately thirty-three ramps in Bucks County, fifty ramps in Philadelphia, and thirty-eight in Delaware County, for a total of one hundred and twenty-one directional links with I-95. This total includes approximately sixty-two on-ramps and fifty-nine off-ramps.

Traffic on I-95 is served by a cartway that varies from a minimum of two lanes by direction to a maximum of five lanes by direction. In general, the expressway service is provided with an average of two to four lanes by direction. The moving lanes of I-95 are twelve feet wide with shoulders available for most of the interstate length. The maximum speed limit is 55 mph.

Built in several stages since its inception in the late fifties, this facility displays construction standards that at times fall short of the latest criteria for interstate design. In the near future, I-95 will intersect with other interstate facilities through the new interchanges with the Mid-County Expressway (I-476) in Delaware County, the Vine Expressway (I-676) in Philadelphia and the Pennsylvania Turnpike (I-276) in Bucks County.

There are several parallel facilities in the northern corridor that extend from Center City Philadelphia to the Delaware River in Bucks County, including Roosevelt Boulevard; US 1; Harbison/Aramingo Avenues; Frankford Avenue and State Road (US 13). All of these routes intersect I-95 directly or have immediate access to it through crossing roads.

In the southern portion of the I-95 corridor, which runs from Center City Philadelphia to the Delaware State Line, the following parallel routes are studied: Delaware Avenue; Broad Street (PA 611); Industrial Highway (PA 291); Baltimore Pike; US 1; Chester Pike and MacDade Boulevard.

Some additional parallel routes of regional significance that follow the I-95 corridor on the other side of the Delaware River in New Jersey, are I-295, US 130, and the New Jersey Turnpike. Connection of these routes to Pennsylvania's I-95 is made possible through the river crossings of the Commodore Barry Bridge in the City of Chester; the Walt Whitman, Benjamin Franklin, Betsy Ross, and Tacony-Palmyra bridges in Philadelphia; and the Burlington-Bristol and Pennsylvania Turnpike bridges in Bucks County. □



### **III. DATA COLLECTION METHODOLOGY**

In order to provide an accurate estimate of the existing travel demand for the I-95 corridor, DVRPC has conducted a traffic counting program that included over two hundred locations on I-95, its ramps, crossing roads and parallel facilities. Concurrently a retrieval of available recent counts from the DVRPC regional database provided supplementary information for most highways and ramps in the I-95 corridor.

This section describes the methodology used by DVRPC in collecting the field data by mechanical means. Two types of counts were gathered for continuous 48-hour periods: 1) a total vehicle count, frequently referred to as Automatic Traffic Recorder (ATR) count; and 2) a classification count where vehicles with different numbers of axles were "stored" in specific classes. At the end of each hour the counts were tallied up in the respective categories and totaled. Both types of counts are fully automated and provide a high degree of accuracy.

#### **Automatic Traffic Recorder (ATR) Counts**

The ATR type of count was conducted through a roadside counting unit installed by an expert field person at a predetermined location and anchored to a fixed object (such as utility pole, tree, or guardrail). The counter is a complete paper tape recorder, which when coupled to a pneumatic road tube stretched across the street, counts the vehicles passing over it. A clock mechanism determines the pre-set time interval (usually one hour) and records the total count in printed form. The data is then recorded simultaneously in two ways: as a readable four character numeral, and as a four character binary coded symbol. Power for this operation is supplied by two rechargeable batteries. When the count was completed (usually for a forty-eight hour period) the field person removed the printed paper tape from the counter and delivered it to the office for analysis and processing. The last step involved the data entry for each hour of the total volume printed on the tape. The application of a software program automatically rearranged the data in a readable format and provided the input for the distribution of traffic on hourly intervals.

Finally, the application of pre-determined adjustment factors that take into account the day of the week and the seasonal variation of traffic patterns on the 24-hour count total, converted the raw 24-hour count into an Average Annual Daily Traffic (AADT) estimate. Printed copies of these counts are included in the Appendix.

#### **Classification Counts**

In addition to counting total vehicle traffic, classification counts were taken on selected ramps and I-95 mainline. These counts were needed to estimate the truck traffic by vehicle type within the I-95 corridor. The classification recording is made through a system that consists of two main units, a field recorder and a data collector. Both units are electronically operated and are regarded as state of the art in data collection. The field recorder uses a vehicle type program which provides a classification count of one lane of traffic using two road tubes

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spaced approximately 11 feet apart. The program classifies vehicles according to their standard axle-patterns and into categories that are shown in the Appendix. There are, however, certain limitations and restrictions in the collection of these counts. For instance, the pneumatic tubes must cross only one lane or a constant vehicle speed across the tube of at least 20 mph is required for accurate classifications. Also some vehicles may not be classified properly although they will definitely be counted. The data collector is a "user friendly" device which prompts the operator through each input requirement. The unit provides several keys for entering numerical data (date, time, station ID, file number, etc.) and also for testing the combined field operation of both recorder and collector. At the end of a counting period, a field technician "collects" the recorded counts from a number of stations before returning to the office for "dumping" and printing the counts. Power to operate the classification equipment is provided by rechargeable batteries. □

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#### **IV. CURRENT TRAFFIC VOLUMES**

This section presents a summary of the resulting traffic derived from the field counts. Supplemental records retrieved from a database of recent counts taken for other projects, are also included. Systematically, this portion of the report is concerned with a broad review of the traffic on I-95 and other regional facilities. Average daily traffic volumes are provided for major highways and roads that intersect I-95 throughout the corridor's length. A review of the current traffic demand for some of the closer and more important parallel routes follows in a detailed display. Peak hour volumes are then presented for seven major I-95 interchanges. The truck volumes on I-95 as well as on selected ramps are estimated. Finally, the traffic distribution on the interstate is examined on a daily basis.

##### **Traffic on I-95 and Parallel Regional Facilities**

Map II presents current traffic volumes for I-95 and major regional facilities that run parallel to it. Current counts shown on I-95, range from a low 44,000 vehicles per day (vpd) in the Bucks County sections to a high of 150,000 vpd on several segments between Academy Road and the Aramingo/Girard interchange in Philadelphia.

As I-95 enters Pennsylvania from the Delaware State line, over 74,000 motorists were counted during an average day. Traffic swells to more than 109,000 vehicles south of the Commodore Barry Bridge. Proceeding north, a two-way traffic of almost 111,000 vpd has been counted at the interchange with PA 420. From this point, travel fluctuates slightly until north of the Broad Street interchange where a volume of about 95,000 vehicles has been estimated. Counts remain constant in the 90,000 vpd range for I-95 until the heavy traffic from the Race-Callowhill ramps brings the I-95 volume to 139,000 vehicles at a location north of the two ramps. This magnitude of traffic persists up to the PA 63 (Woodhaven Road) interchange. Within this I-95 stretch of high congestion, traffic reaches record volumes of 150,000 vehicles at Allegheny, Bridge and Academy interchanges. North of PA 63, the current demand decreases to 83,000 motorists while other reductions on I-95 traffic occur at PA 132 (Street Road) and PA 413. A more stable volume of approximately 44,000 vehicles is then carried by the interstate through Bucks County. The influence of the New Jersey bound traffic is reflected on the I-95 link of the Scudders Falls Bridge that carries over 52,000 vehicles per day. A listing of fifteen I-95 segments with current traffic and the number of available lanes is included in Table I.

From the hourly counts taken on sections of I-95, it was also estimated that the peak hour volumes on the facility range between 7 and 10 percent of the total daily traffic. The lower percentage is representative of the most heavily traveled sections.

Major highway facilities that run parallel to the I-95 corridor are also shown in Map II. Of particular interest is the US 1 corridor which connects Delaware County to Bucks County, passing through Philadelphia. Volumes in this corridor range between 28,000 and 105,000 vehicles per day. In New Jersey, the map displays volumes on the US 130 corridor that fluctuate between 8,000 in Gloucester County and 59,000 in Camden County. Another

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**Table I: AVERAGE DAILY CURRENT TRAFFIC VOLUMES  
FOR SELECTED I-95 LINKS**

Link	Current Traffic Count (000's)	Number of Lanes*
<i>Northern Section</i>		
Scudder's Falls Bridge to Upper River Road	52.4	4
US 1 Business to PA 413	44.2	4
Street Road to Woodhaven Road	82.8	6
Academy Road to Cottman Avenue	148.6	6
Bridge Street to Betsy Ross Bridge	126.6	6
Allegheny Avenue to Girard Avenue	151.1	8
Girard Avenue to Vine Street	138.5	8
<i>Southern Section</i>		
Vine Street to Market Street	88.3	4
Walt Whitman Bridge to Broad Street	94.7	6
Broad Street to Enterprise Avenue	97.9	6
Philadelphia International Airport to PA 420	110.8	8
Stewart Avenue to I-476	106.9	8
I-476 to Chestnut Street	98.8	4
Commodore Barry Bridge to Highland Avenue	109.2	6
Chichester Avenue to Delaware State Line	74.3	6

\* Short segments of I-95 may have a different number of lanes from the ones shown as a result of interchange configurations or other design factors.

important New Jersey regional facility is I-295. This facility serves approximately 24,000 motorists at the Salem County line where it enters the DVRPC region. Travelling north, higher volumes become evident on the expressway. The highest I-295 volume has been recorded on the segment north of NJ 42 with a daily count of 101,000 vehicles. Finally, the New Jersey Turnpike, whose function is one of interstate importance, is another regional facility that parallels I-95. Current volumes show that traffic enters the DVRPC region at a level of 33,000 daily drivers in Gloucester County. By the time the turnpike leaves the region in Mercer County, volumes of traffic approach the 90,000 vehicles per day.

### **Traffic on Routes Intersecting I-95**

Map III presents traffic volumes for the I-95 corridor of Bucks County. Current counts for the I-95 links indicate that use of this road in the county ranges from 44,000 to 83,000 vehicles per day. Several key interchanges of I-95 with major intersecting routes exist at US 1 Expressway, US 1 Business (Lincoln Highway), I-95 Spur to PA 413, PA 132 (Street Road) and PA 63 (Woodhaven Road). The most important interchange is undoubtedly PA 63 with over 55,000 vehicles spilling into I-95 each day. This road is followed in importance by the US 1 Expressway that shows a daily traffic volume of 45,000 vehicles. Also significant to I-95 according to the volumes shown in Map III, are PA 132, the I-95 Spur and, although not connecting yet with the interstate, the Pennsylvania Turnpike. Recent traffic counts show volumes on these roads ranging between 27,000 and 35,000 vehicles per day.

Map IV depicts the northern area of Philadelphia served by I-95. This map covers the lengthiest section of the interstate with the highest daily volumes recorded in the study. The traffic shown in Map IV confirms this condition. Counts approaching 150,000 drivers a day are encountered on several links of the interstate that run between Academy Road and the Girard/Aramingo interchange. Such a high volume is caused by the many interchanges which are served by streets with a substantial number of vehicles per day. The most important roads intersecting I-95, as shown in Map IV, are Academy Road, the directional pair of Cottman and Princeton Avenues, the combined conglomeration of Bridge, Harbison and Aramingo Avenues, the Betsy Ross Bridge, and the directional pair of Callowhill and Race Streets of Center City. Daily volumes interacting with I-95, average 30,000 or more motorists at each of the above mentioned interchanges each weekday of the year. All streets involved in these interchanges show average daily volumes of traffic that exceed levels of 20,000 drivers per day. The combined effect of the Callowhill-Race pair of streets is expected to decrease substantially once the full Vine Expressway is in place and open to traffic.

Map V shows the area comprised by the I-95 corridor that crosses South and Southeast Philadelphia. Volumes of lesser traffic than the ones displayed in Map IV are shown for the I-95 links between Market Street and Broad Street in South Philadelphia. Current traffic demands on this interstate segment are estimated at 90,000 motorists per day. A count taken on the Girard Point Bridge shows a daily volume of 98,000 vehicles. The major impact on the I-95 traffic is later caused by the Philadelphia International Airport bound demand that increases the interstate use to 120,000 motorists at a location before the ramps serving the airport complex. The high volume is created by the direct connections of Broad Street, PA

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291 (Platt Bridge) and Island Avenue with I-95. The current volume on I-76, west of the Walt Whitman Bridge toll booth, is approximately 68,000 vehicles per day, the highest of all I-95 intersecting roads. It is followed by the current volume of about 53,000 drivers crossing the Schuylkill River on the Platt Bridge (PA 291). Broad Street, with an average count of over 36,000 motorists, is the third highest counted while Island Avenue with an average daily traffic of 27,000 vehicles completes the list of most important intersecting routes.

The last section of I-95 crosses Delaware County before entering the state of Delaware. The detailed network of roads and I-95 interchanges in Delaware County are shown in Map VI.

The map shows that a sustained volume of approximately 110,000 vehicles per day is using the segment of I-95 that extends from the International Airport to the I-476/MacDade Boulevard interchange. South of the PA 320 (Chestnut Street) ramps the daily demand thins to about 91,000 vehicles only to increase again to 110,000 drivers at the interchange with the Commodore Barry Bridge. Proceeding south, US 322 reduces the I-95 volume to lower levels that continue until a counted volume of over 74,000 daily vehicles is recorded at the state line. These variations in traffic in Delaware County are due to several important roads that fully or partially intersect with I-95. The most representative are PA 420, MacDade Boulevard ramps, PA 352, US 322, PA 452, and Chichester Avenue. Traffic volumes on intersecting roads near the I-95 corridor range between 18,000 vpd at PA 352 and Chichester Avenue and 35,000 vpd at PA 420 and US 322. Intermediate traffic demands are determined for PA 452 and the MacDade Boulevard ramps at 21,000 and 24,000 motorists per day, respectively. The latter is only a temporary demand that will certainly increase in the near future once the I-476 (Mid-County Expressway) is completed and open to traffic.

A more complete listing of major I-95 intersecting routes is shown in Table II along with the daily volumes, number of lanes and critical peak hour demand by the time of day. Derived K factors for the daily critical peak hour are also listed in the table. The K factors are determined by dividing a peak hour volume by the 24-hour total. They are expressed in percent of the total daily volume. The factors are very important in determining future peak hour impacts. Research has shown that peak hour factors remain stable in time unless major traffic generators are introduced in the immediate vicinity of a road. A common range for the K factors shown in the table varies between 8 and 11 percent for the morning and between 7 and 10 for the evening peak hour of the day, respectively.

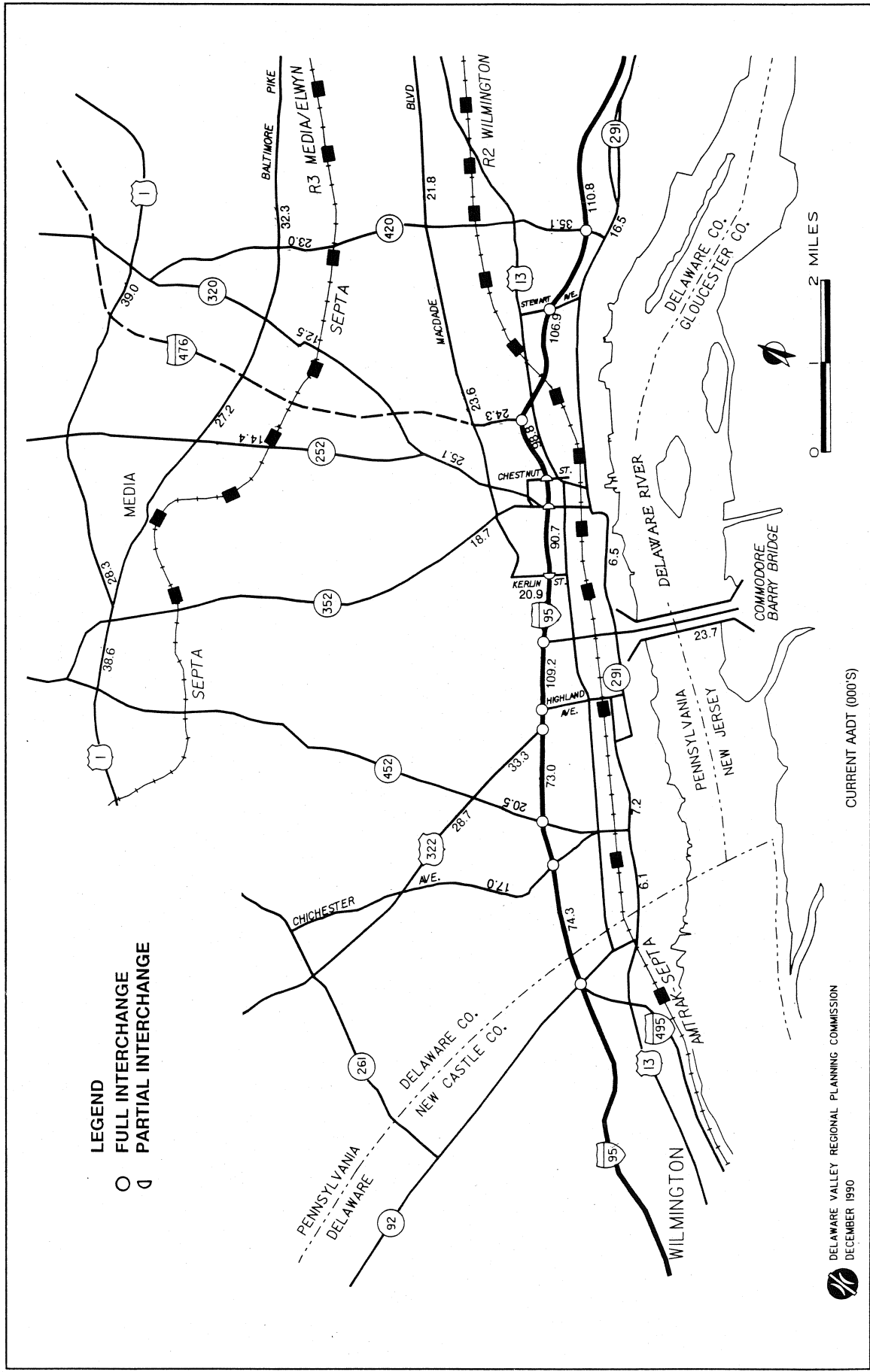
Values that exceed these ranges are indicated in the table for US 1 Expressway and the MacDade Boulevard connector to I-95. Their magnitude, ranging between 14 and 16 percent of the daily traffic, is an indicator of the heavy use of these roads by motorists travelling for work trip purposes.

### **Traffic on Routes Paralleling I-95**

Current average daily traffic volumes for local facilities that follow the general north-south direction of the I-95 corridor are shown in Table III. The existing number of lanes that serve the volume indicated in the table is also posted.

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Map VI: I-95 SOUTHERN SECTION CURRENT AVERAGE DAILY TRAFFIC VOLUMES - DELAWARE CO.



**Table II: AVERAGE DAILY CURRENT TRAFFIC VOLUMES  
FOR SELECTED HIGHWAYS INTERSECTING I-95**

Facility	Current Traffic Count (000's)	Number of Lanes	Critical Peak Hour Volume (Time)	Peak Hour Factor K(%)
<i>Northern Section</i>				
PA 332	18.3	2	1677(AM)	9
US 1 Expressway NB	18.3	2	2532(AM)	16
US 1 Expressway SB	19.4	2	2266(PM)	14
US 1 Business NB	11.6	2	1129(PM)	9
US 1 Business SB	12.4	2	1083(PM)	8
Street Road (PA 132) WB	17.0	2	3231(AM)	9
Street Road (PA 132) EB	17.8	2	3025(PM)	10
Woodhaven Road (PA 63) EB	29.0	3	2419(PM)	7
Woodhaven Road (PA 63) WB	26.8	3	2470(PM)	8
Academy Road EB	16.2	2	1654(AM)	9
Academy Road WB	14.3	2	1654(PM)	10
Cottman Avenue WB	28.2	3	2777(PM)	9
Princeton Avenue EB	25.1	3	2300(AM)	9
Castor Avenue NB	4.8	1	444(PM)	8
Castor Avenue SB	9.9	1	895(PM)	8
Allegheny Avenue	14.2	4	1110(PM)	7
Girard Avenue NB	7.6	2	792(PM)	9
Girard Avenue SB	6.6	2	649(AM)	9
Callowhill Street	23.5	3	2743(AM)	11
<i>Southern Section</i>				
Race Street	24.9	2	2641(PM)	9
Market Street EB	6.8	2	700(PM)	8
Market Street WB	5.6	2	715(AM)	10
Broad Street NB	21.7	3	2324(PM)	9
Broad Street SB	14.7	3	1342(AM)	8
Island Avenue NB	13.2	3	1384(PM)	9
Island Avenue SB	13.8	3	1350(AM)	9
PA 420 NB	16.7	2	1775(PM)	9
PA 420 SB	18.4	2	2251(AM)	11
I-476/MacDade NB	11.8	2	1801(PM)	15
I-476/MacDade SB	12.5	2	1927(AM)	15
PA 352	18.7	4	1715(PM)	8
Kerlin Street	20.9	2	1667(PM)	8
US 322 EB	16.6	2	1774(AM)	9
US 322 WB	16.7	2	1583(PM)	8
PA 452	20.5	2	1852(PM)	8
Chichester Avenue	17.0	2	1778(PM)	9

Note: Projections are for locations at or near the interchange of these facilities with I-95.

**Table III: AVERAGE DAILY CURRENT TRAFFIC VOLUMES  
FOR SELECTED ROUTES PARALLEL TO I-95**

<b>Facility</b>	<b>Current Traffic Count (000's)</b>	<b>Number of Lanes</b>
<i>Northern Section</i>		
Frankford Ave. (US 13) - Linden Ave. to Woodhaven Rd.	17.5	2
US 13 Expressway - PA Turnpike to Levittown Parkway	42.1	4
Aramingo Avenue to Bridge Street	20.7	4
State Road - Woodhaven Road to PA 413	15.3	2
Delaware Avenue - Race Street to Callowhill Street	29.7	6
Broad Street - Callowhill Street to Girard Avenue	35.8	4
<i>Southern Section</i>		
Broad Street - South Street to Washington Avenue	28.7	4
Delaware Avenue - Oregon Avenue to Tasker Avenue	20.1	6
PA 291 - Kerlin Street to Edgemont Avenue	6.3	2
PA 291 - Platt Bridge	52.6	4
MacDade Boulevard - Chester Pike to Oak Lane	11.5	4
MacDade Boulevard - I-476 to Swarthmore Avenue	23.6	4
Chester Pike (US 13) - MacDade Boulevard to Oak Lane	14.8	4
Post Road (US 13) - Delaware State Line to Market Street	6.1	4
US 1 Media Bypass - I-476 to PA 320	27.2	4
Baltimore Pike - PA 420 to Springfield Road	32.3	4
<i>New Jersey Routes</i>		
I-295 - US 322 to Swedesboro	24.8	4
I-295 - NJ 42 to NJ 168	101.1	6
I-295 - NJ 33 to US 1	50.1	6
US 130 - US 322 to US 40	7.6	4
US 130 - US 206 to I-195	25.6	4
US 130 - Airport Circle to NJ 90	59.0	6
New Jersey Turnpike - US 40 to US 322	33.3	4
New Jersey Turnpike - Exit 5 to Pennsylvania Turnpike	57.4	6
New Jersey Turnpike - US 206 to NJ 33	87.6	6

This level of significant parallel facilities includes roads like US 13, Delaware Avenue and Broad Street with current volumes varying between 30,000 and 40,000 drivers a day. State Road, Frankford and Aramingo avenues, with traffic somewhat lower in magnitude, are also included in the listing because of their vicinity to the I-95 corridor and provide fairly easy access to the interstate.

In the southern sections of the I-95 corridor the most used parallel routes are PA 291, Broad Street and Delaware Avenue in Philadelphia, the US 1-Media Bypass, Baltimore Pike, and MacDade Boulevard in Delaware County. These roads exhibit current traffic volumes that exceed 20,000 motorists per day. A second level of parallel facilities includes Chester Pike (US 13), PA 291 and Post Road (US 13) in the southeast vicinity of the interstate corridor in Delaware County. Current counts indicate that these roads serve daily volumes of traffic that fall below the 15,000 vehicle mark.

Other regional routes that parallel I-95 on the other side of the Delaware River are listed as I-295, US 130 and New Jersey Turnpike. Their daily usage and significance were already discussed earlier in the presentation of regional facilities paralleling I-95.

### **Peak Hour Traffic for Selected Interchanges**

To present a sample of all the traffic information gathered by DVRPC, current 24-hour volumes for seven major interchanges are shown in the Appendix under Figures A-1 through A-7. Each figure is followed by a set of counts indicated in each schematic.

Selection of the seven interchanges was based on the following criteria: 1) termini points in Pennsylvania; 2) proposed interstate interchange; 3) proximity to a major traffic generator served by I-95; and 4) configuration of interchanges served by a directional pair of one-way streets. The following interchanges have been selected for a detailed graphical presentation:

#### Northern Section

- Figure I: Upper River Road, Bucks County
- Figure II: PA 413, Bucks County
- Figure III: Princeton - Cottman, Philadelphia
- Figure IV: Race - Callowhill - Vine Expressway (I-676), Philadelphia

#### Southern Section

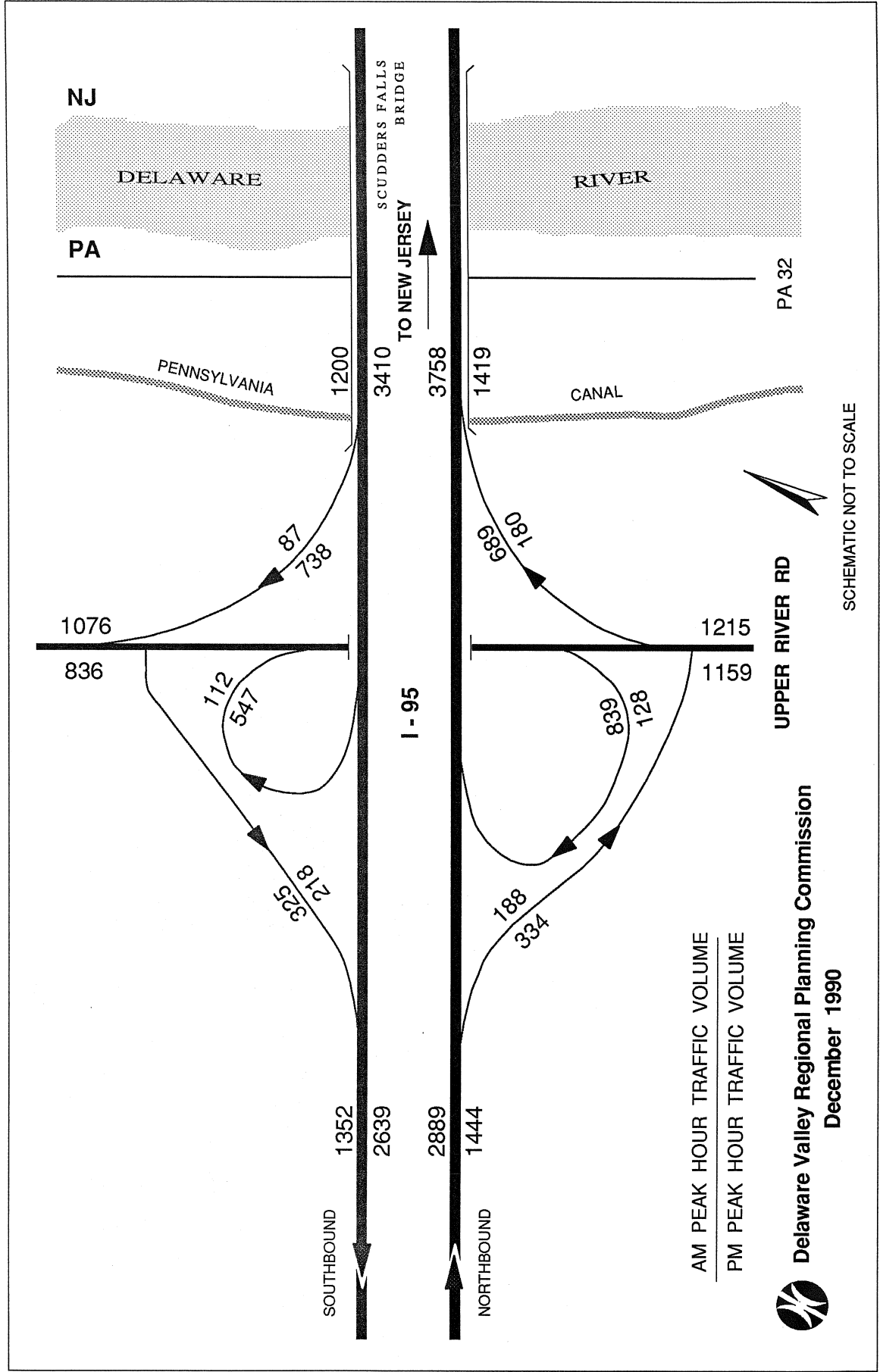
- Figure V: Airport Complex, Philadelphia
- Figure VI: Mid-County Expressway (I-476/MacDade), Delaware County
- Figure VII: Chichester Avenue, Delaware County

At each interchange along the I-95 corridor, counts were taken on every ramp by either a regular portable machine or by a classifier counter. This was necessary to assess each ramp's contribution to interstate travel.

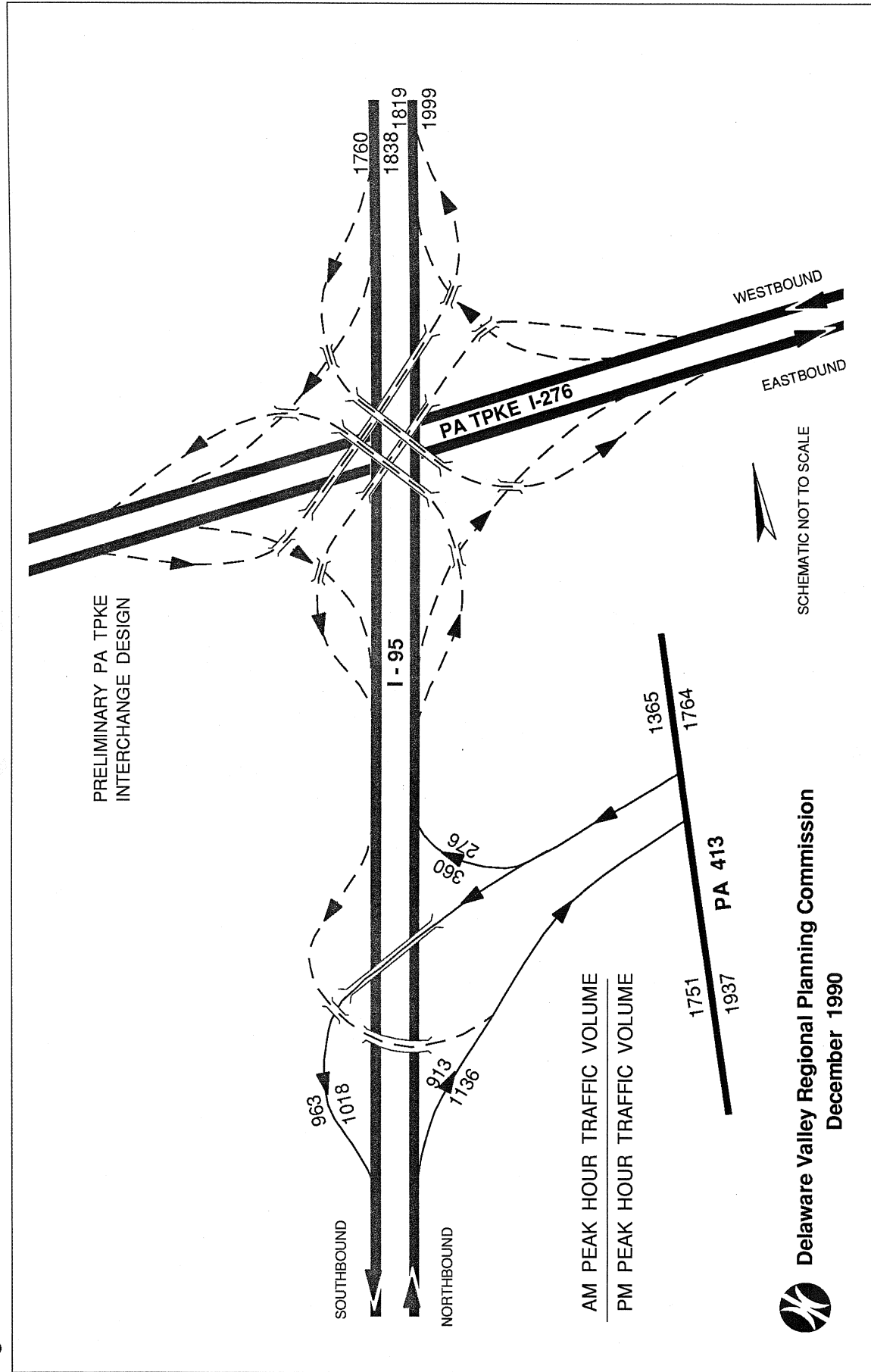
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### UPPER RIVER INTERCHANGE - BUCKS COUNTY

Figure 1: CURRENT AM / PM PEAK HOUR TRAFFIC VOLUMES



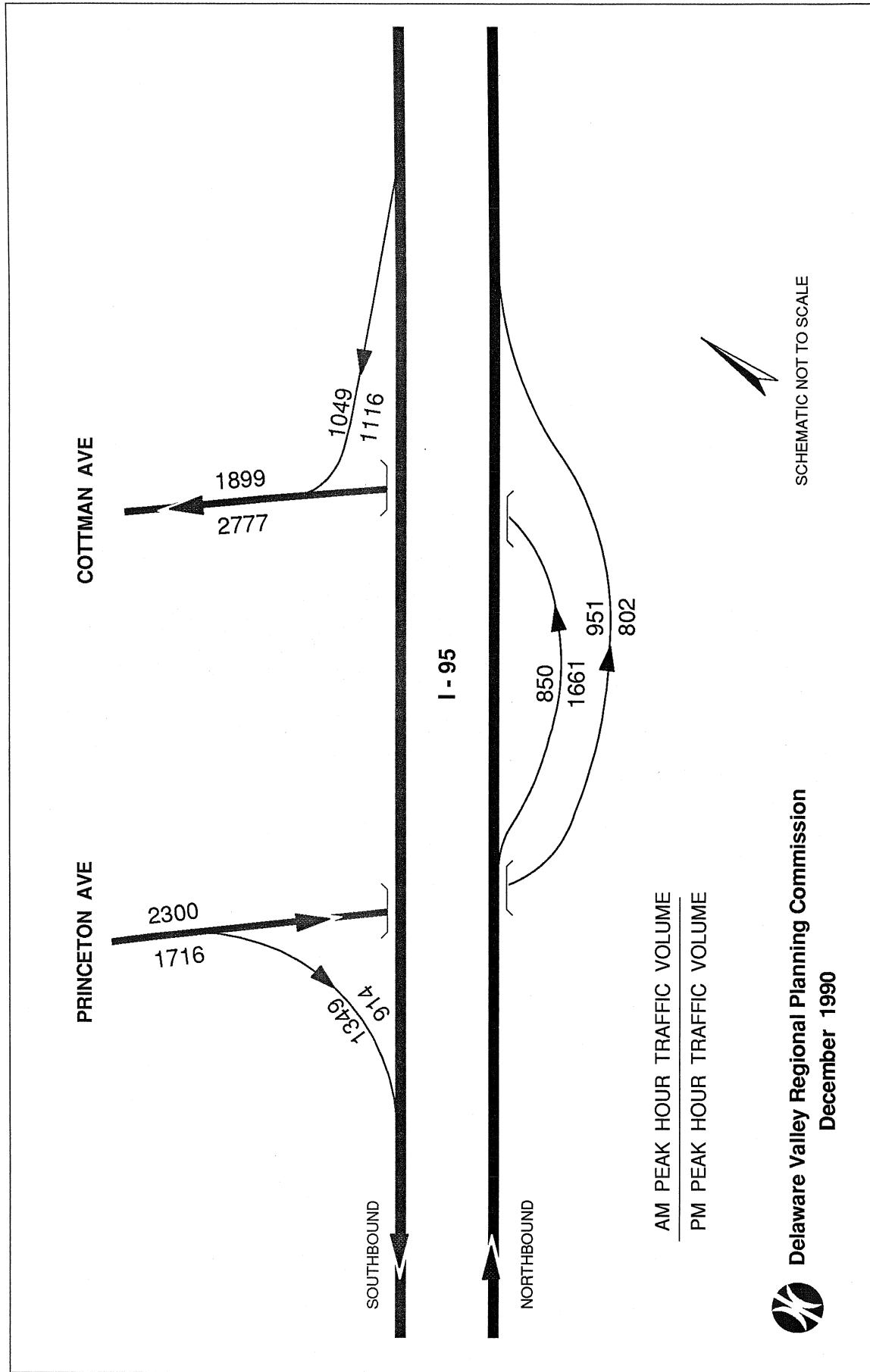
PA 413 INTERCHANGE - BUCKS COUNTY  
Figure II: CURRENT AM / PM PEAK HOUR TRAFFIC VOLUMES



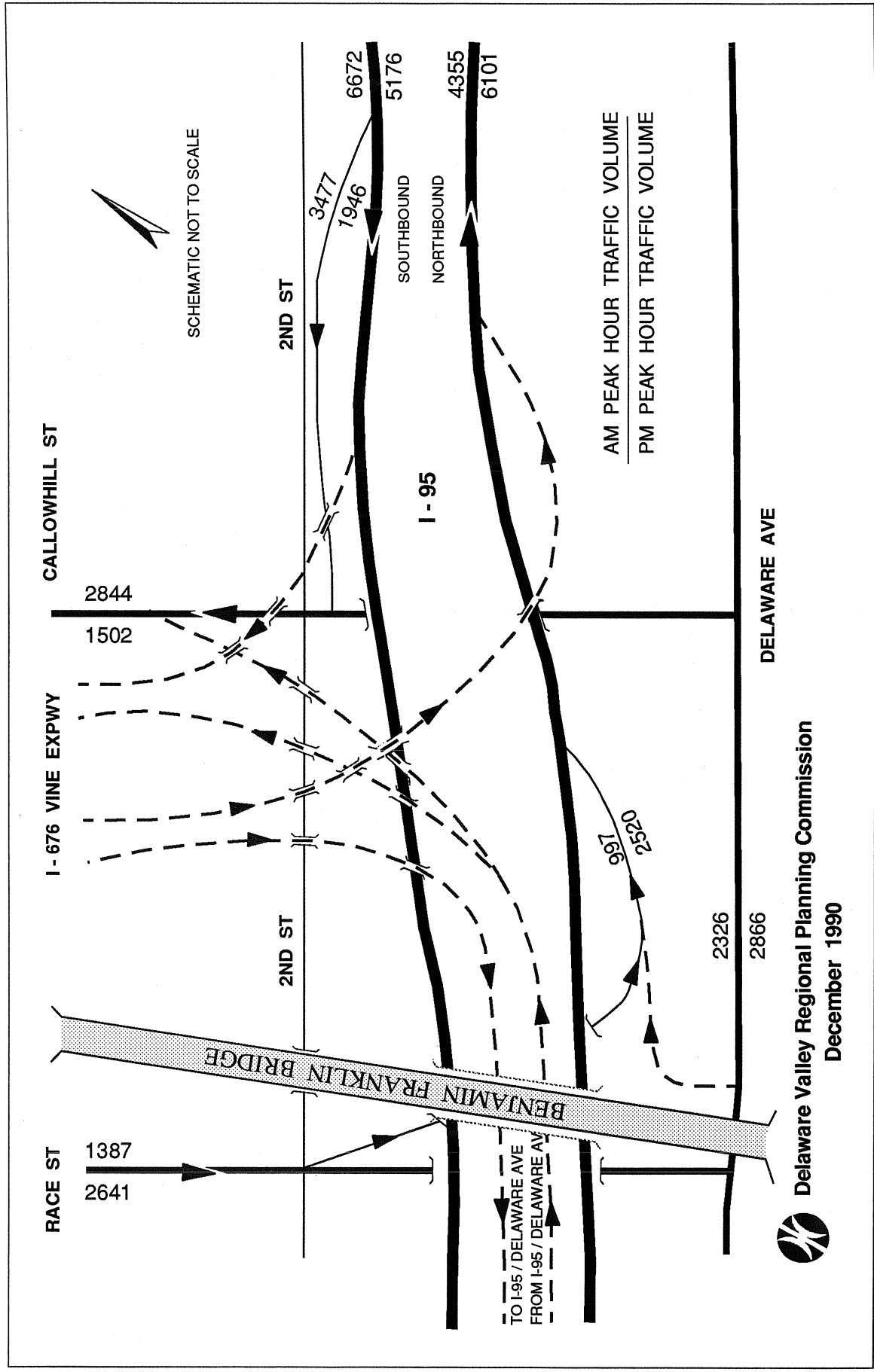
Delaware Valley Regional Planning Commission  
December 1990

### PRINCETON - COTTMAN INTERCHANGE - PHILADELPHIA

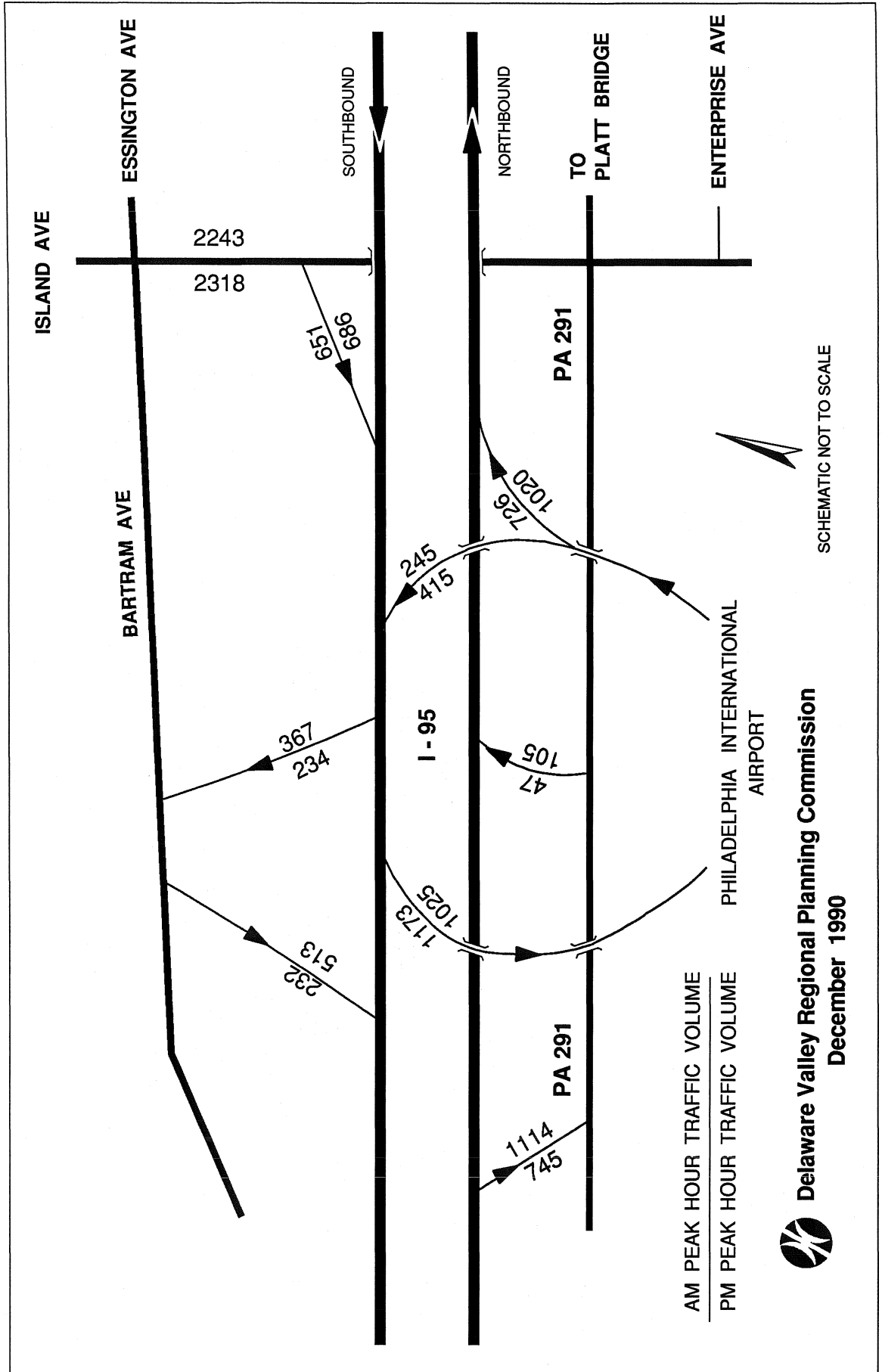
Figure III: CURRENT AM / PM PEAK HOUR TRAFFIC VOLUMES



RACE - CALLOWHILL INTERCHANGE - PHILADELPHIA  
Figure IV: CURRENT AM / PM PEAK HOUR TRAFFIC VOLUMES

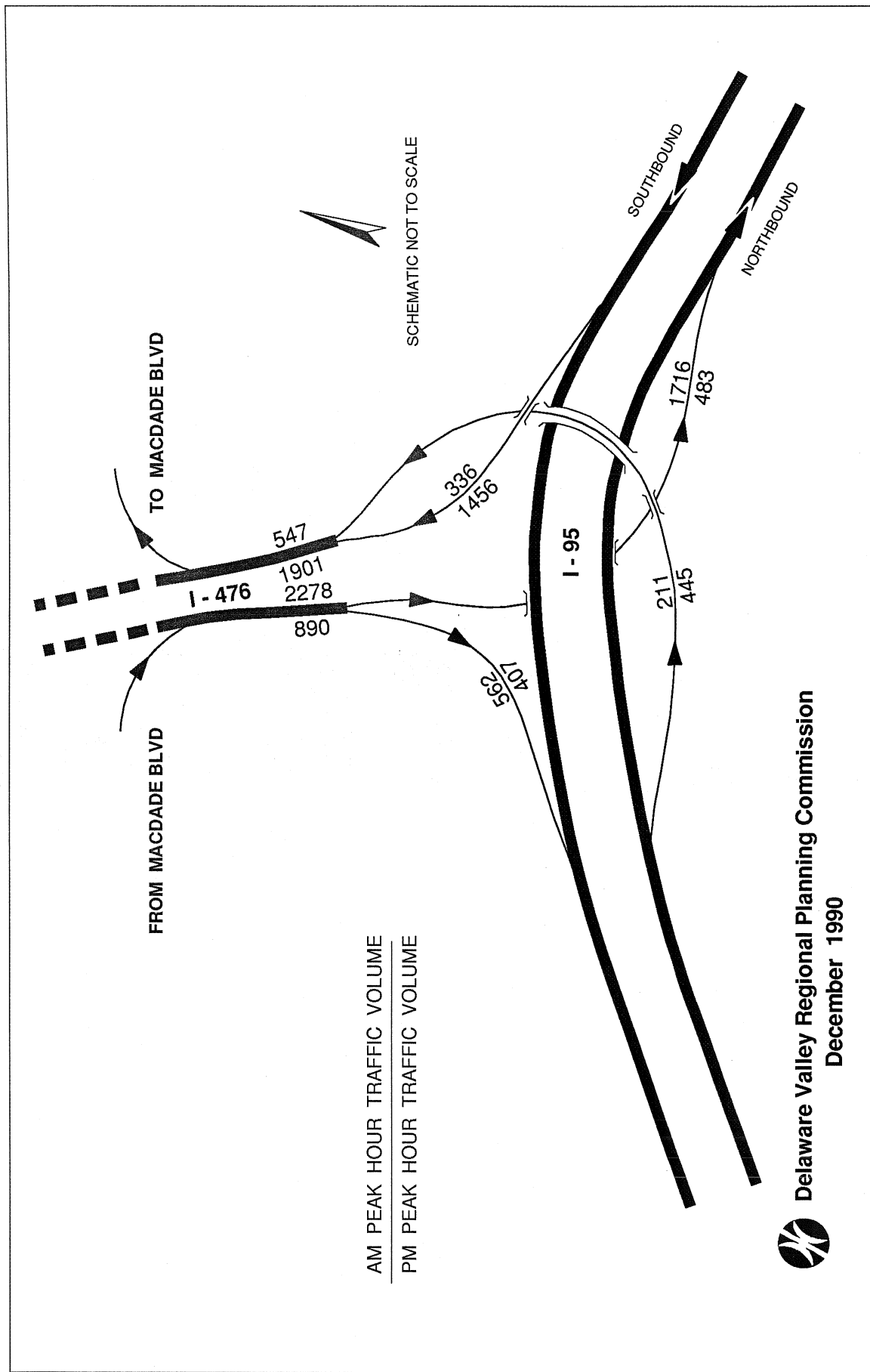


AIRPORT INTERCHANGE - PHILADELPHIA  
Figure V: CURRENT AM / PM PEAK HOUR TRAFFIC VOLUMES



### I - 476 / MACDADE INTERCHANGE - DELAWARE COUNTY

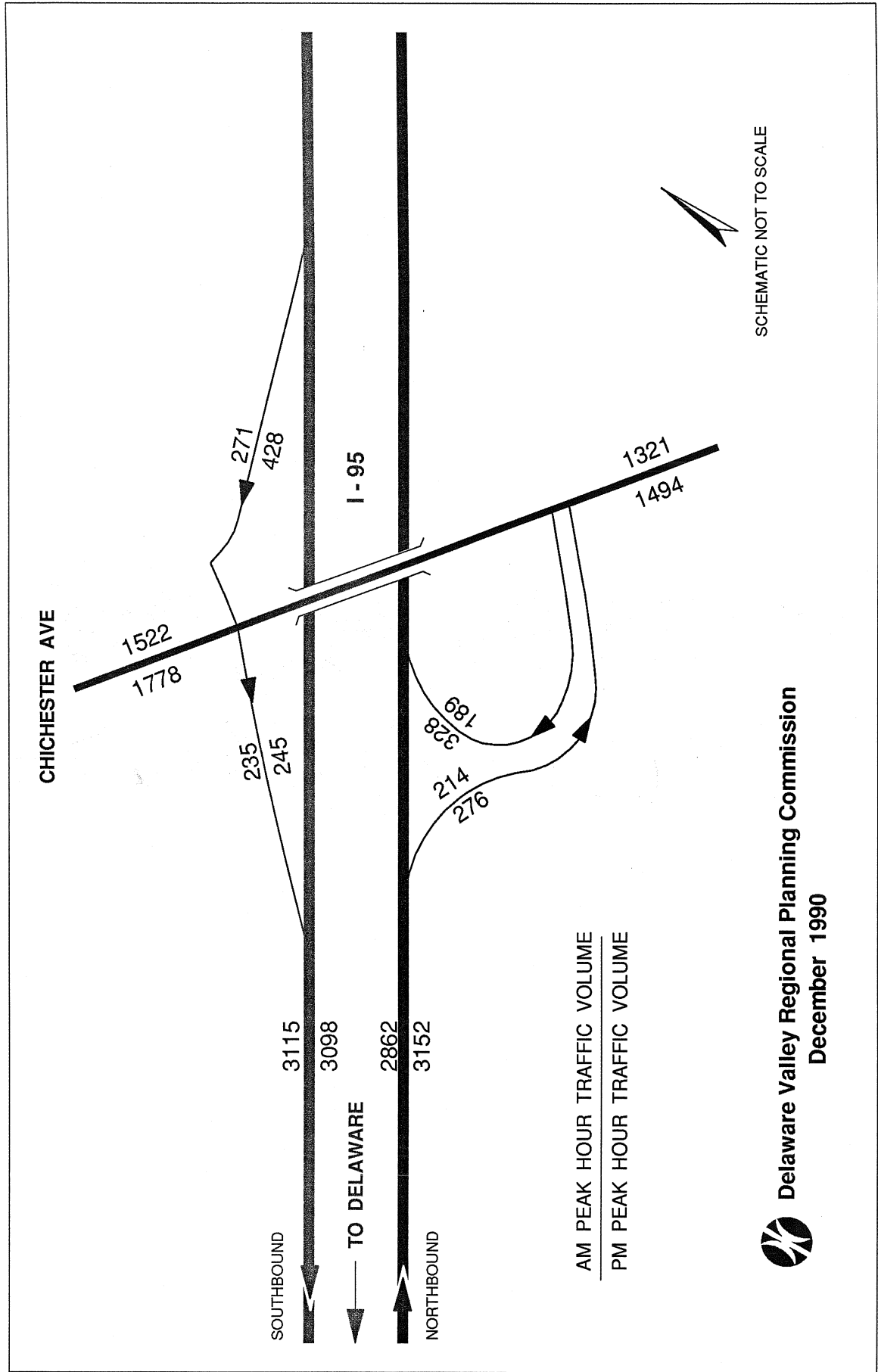
Figure VI: CURRENT AM / PM PEAK HOUR TRAFFIC VOLUMES



Delaware Valley Regional Planning Commission

December 1990

CHICHESTER INTERCHANGE - DELAWARE COUNTY  
Figure VII: CURRENT AM / PM PEAK HOUR TRAFFIC VOLUMES



SCHEMATIC NOT TO SCALE

A listing of all counts taken at the seven interchanges is also presented in Table IV. In the table each interchange is identified by location as well as by direction of the ramp. The current daily and peak hour traffic volumes are displayed and the critical peak hour factor by the time of the day is determined. In reviewing the first interchange shown in Table IV one becomes aware of the predominant peak hour demand that is imposed on I-95 northbound in the morning and on the southbound side in the evening. This characteristic became apparent by the extreme values of the K factors that have been determined for the northbound ramps in the morning and for the southbound ramps in the evening. It is evident that many people commute from Bucks County to New Jersey for work purposes.

Another exception to average K factors are the high values determined for the ramps at the I-476/MacDade Boulevard interchange. Many of the daily motorists counted use this interchange for work trips only. These high values are expected to increase considerably once I-476 is completed and open to traffic.

A review of Table IV shows that in the morning most of the ramps serving I-95 have a range of critical K factors that vary between 8 and 11 percent of the traffic. In the evening, the ramps display K values that range from 7 to 12 percent of their daily traffic.

### **Truck Traffic on I-95 and Ramps**

An important element in expressway pavement design and in the planning of future physical and operational improvements is the impact of truck travel on roads and connecting ramps. For the purpose of this I-95 corridor study, DVRPC has conducted a classification survey at fifteen locations: nine counts on I-95 and six counts on its ramps. Truck travel has been monitored on the interstate, at those Bucks County sections whose number of moving lanes is limited to four. The resulting effort revealed that the daily volume of trucks travelling on I-95 in Bucks County is equivalent to a range of 12 to 18 percent of the total daily traffic. During the peak hours this percent is reduced to values ranging between 7 and 15 percent of the total peak volume. The truck percentage of the daily traffic (TF) for the I-95 corridor in general is estimated to be in the 9 to 12 percent range. Concurrently, the truck traffic during peak hours (T) is estimated between 7 to 10 percent of the rush hour volume. The following listing provides a summary of the truck impacts on I-95 and its ramps:

<u>ROAD NAME</u>	<u>LOCATION</u>	<u>PEAK HOUR (T)</u>	<u>DAILY (TF)</u>
I-95	mainline segments	7-10%	9-12%
Academy Road	SB on ramp	3%	4%
Princeton Road	NB on ramp	10%	14%
Broad Street	SB on ramp	9%	10%
Broad Street	NB on ramp	8%	7%
Tasker Street	NB off ramp	7%	8%
Lombard Street	NB on ramp	9%	14%

**Table IV: AVERAGE DAILY CURRENT TRAFFIC VOLUMES  
FOR SELECTED I-95 RAMPS**

Interchange	Current Traffic Count (000's)	Ramp	Critical Peak Hour Volume (Time)	Peak Hour Factor K(%)
<i>Northern Section</i>				
Upper River Road	2.8	NB off	334(PM)	10
	3.6	NB on from south	839(AM)	24
	3.7	NB on from north	705(AM)	20
	3.1	SB on	325(AM)	9
	3.4	SB off to south	547(PM)	17
	3.3	SB off to north	738(PM)	23
PA 413	12.4	NB off	1136(PM)	8
	2.7	NB on	360(AM)	11
	11.7	SB on	1018(PM)	7
Princeton - Cottman	12.1	NB on	951(AM)	8
	14.8	NB off	1661(PM)	10
	13.0	SB on	1349(AM)	10
	13.4	SB off	1116(PM)	8
Race - Callowhill	19.8	NB on	2520(PM)	11
	30.4	SB off	3477(AM)	10
<i>Southern Section</i>				
Island Ave. Bartram Ave.	8.4	SB on	686(PM)	7
	4.1	SB on	513(PM)	11
PA 291	3.3	SB off	367(AM)	10
	0.8	NB on	105(PM)	12
	10.2	NB off	1114(AM)	9
Airport	4.3	SB on	415(PM)	9
	12.1	SB off	1173(AM)	8
	11.7	NB on	1020(PM)	9
I-476/MacDade	8.5	NB on	1716(AM)	17
	4.1	NB off	445(PM)	10
	4.0	SB on	562(AM)	13
	7.7	SB off	1456(PM)	17
Chichester	2.8	NB on	328(AM)	10
	2.6	NB off	276(PM)	9
	2.6	SB on	245(PM)	8
	3.2	SB off	428(PM)	11

**Directional Traffic Distribution on I-95**

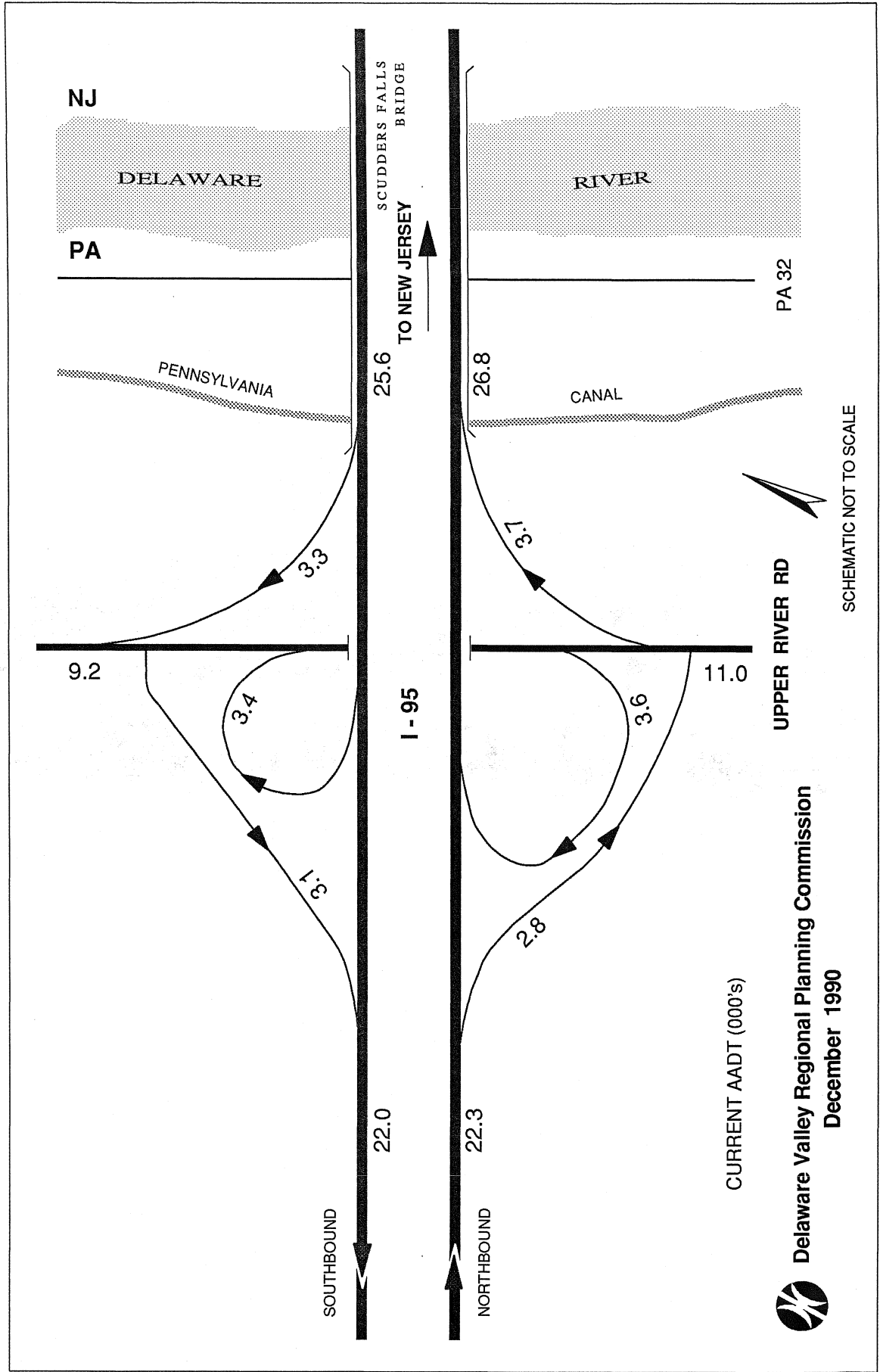
An additional traffic characteristic is the directional split on a facility during the 24-hour period. This design factor, also known as D, is derived by dividing one directional volume by a highway's total two-way traffic and is expressed in percent.

From the counts taken on sections of I-95, the directional distribution was estimated at 52 percent. This value is an indication of how balanced the directional traffic is on I-95 on a daily basis, in spite of the heavy directional travel on the interstate during peak hours. □

## **APPENDIX**



UPPER RIVER INTERCHANGE - BUCKS COUNTY  
Figure A-i: CURRENT AVERAGE DAILY TRAFFIC VOLUMES



CURRENT AADT (000's)

**24-HOUR VEHICLE CLASSIFICATION COUNT  
I-95 NB PASSING LANE AT SCUDDERS FALLS BRIDGE  
BUCKS COUNTY**

TrafiCOMP II by StreeterAmet  
Vehicle Type Program with Midnight and Grand Totals

File # 1

Station 3 Identification 95 Interval 60 Minute  
Start Date 25 Jun 90 End Date 27 Jun 90  
Start Time 9:36 End Time 9:00

26 Jun 90	Vehicle Type:											
	1	2	3	4	5	6	7	8	9	10	11	12
1:00	23	0	1	0	0	3	5	0	0	0	0	32
2:00	17	1	0	0	0	1	5	2	0	0	0	26
3:00	7	0	1	0	0	3	7	0	0	0	0	18
4:00	13	4	2	1	0	6	9	1	0	0	0	36
5:00	16	4	1	2	0	6	11	0	0	0	0	40
6:00	155	18	0	3	1	8	18	1	4	0	0	208
7:00	1230	57	2	5	4	11	23	0	2	0	0	1334
8:00	2002	41	2	2	0	14	14	0	0	0	0	2075
9:00	1747	49	3	2	1	21	13	0	0	0	0	1836
10:00	656	40	4	7	1	9	15	0	0	0	0	732
11:00	394	25	2	2	0	17	19	0	0	0	0	459
12:00	358	19	1	5	0	13	21	0	1	0	0	418
13:00	363	17	0	4	0	5	14	0	1	0	0	404
14:00	358	23	2	8	0	14	14	0	0	0	0	419
15:00	477	18	3	2	1	9	17	0	2	0	0	529
16:00	437	24	4	6	0	12	4	0	0	0	0	487
17:00	524	25	1	5	0	2	9	0	0	0	0	566
18:00	537	12	1	0	0	6	0	0	0	0	0	556
19:00	448	13	0	2	0	1	6	0	1	0	0	471
20:00	282	4	0	2	0	1	1	0	0	0	0	290
21:00	194	3	0	1	0	2	3	0	1	0	0	204
22:00	187	6	0	1	0	3	2	0	0	0	0	199
23:00	132	7	2	1	1	4	3	0	1	0	0	151
24:00	87	1	0	1	0	3	6	0	0	0	0	98
Total	10644	411	32	62	9	174	239	4	13	0	0	11588

**LEGEND**

**LANE IDENTIFICATION**

Northbound = NB Eastbound = EB  
Southbound = SB Westbound = WB  
Directional Driving/Passing  
Northbound Driving Lane = NBDL  
Eastbound Passing Lane = EBPL  
"Etc."

**COLUMN**

1 Auto pick-ups & vans  
2 2-axle light truck & buses  
3 3-axle straight units  
4 3-axle semi-trailers  
5 4-axle straight units  
6 4-axle semi-trailers  
7 5-axle semi-trailers  
8 5-axle twin-trailers  
9 5-axle semi-trailers  
10 6-axle twin trailers  
11 7-axles or more  
12 Total

**24-HOUR VEHICLE CLASSIFICATION COUNT  
I-95 NB DRIVING LANE AT SCUDDERS FALLS BRIDGE  
BUCKS COUNTY**

TrafficOMP II by StreeterAmet  
Vehicle Type Program with Midnight and Grand Totals

File # 5

Station 5 Identification 95 Interval 60 Minute  
Start Date 27 Jun 90 End Date 29 Jun 90  
Start Time 9:32 End Time 7:32

28 Jun 90	Vehicle Type:											
	1	2	3	4	5	6	7	8	9	10	11	0
1:00	134	16	1	6	0	4	11	1	0	0	0	173
2:00	72	14	1	11	1	11	14	1	0	0	0	125
3:00	51	8	1	4	0	9	7	0	0	0	0	80
4:00	43	11	1	4	0	17	12	0	0	0	0	88
5:00	74	22	1	8	0	19	12	0	0	0	0	136
6:00	309	75	2	16	0	17	15	0	0	0	0	434
7:00	823	133	4	17	0	22	14	0	0	0	0	1013
8:00	1546	91	5	11	3	15	11	0	1	0	0	1683
9:00	1277	91	2	12	0	18	10	0	2	0	0	1412
10:00	692	95	6	18	3	7	20	0	0	0	0	841
11:00	582	78	4	7	1	23	36	0	1	0	0	732
12:00	565	92	2	12	3	24	25	0	0	0	0	723
13:00	607	72	5	8	1	20	31	0	1	0	0	745
14:00	585	97	5	7	3	12	22	0	1	0	0	732
15:00	625	105	4	6	2	15	22	0	0	0	0	779
16:00	632	81	2	4	0	19	17	0	0	0	1	756
17:00	711	69	2	1	1	9	14	0	0	0	0	807
18:00	711	42	2	10	0	10	10	0	0	0	0	785
19:00	875	49	0	9	0	8	7	0	0	0	0	948
20:00	616	40	1	6	0	5	1	0	0	0	0	669
21:00	491	33	2	3	0	5	10	0	0	0	0	544
22:00	466	26	3	4	1	8	4	0	0	0	0	512
23:00	364	37	1	3	0	8	10	0	0	0	0	423
24:00	254	12	0	2	0	15	10	1	0	0	0	294
Total	13105	1389	57	189	19	320	345	3	6	0	1	15434

**LEGEND**

**LANE IDENTIFICATION**

Northbound = NB Eastbound = EB  
Southbound = SB Westbound = WB  
Directional Driving/Passing  
Northbound Driving Lane = NBDL  
Eastbound Passing Lane = EBPL  
"Etc."

**COLUMN**

1 Auto pick-ups & vans  
2 2-axle light truck & buses  
3 3-axle straight units  
4 3-axle semi-trailers  
5 4-axle straight units  
6 4-axle semi-trailers  
7 5-axle semi-trailers  
8 5-axle twin-trailers  
9 5-axle semi-trailers  
10 6-axle twin trailers  
11 7-axles or more  
12 Total

**24-HOUR VEHICLE CLASSIFICATION COUNT  
I-95 SB PASSING LANE AT SCUDDERS FALLS BRIDGE  
BUCKS COUNTY**

TrafiCOMP II by StreeterAmet  
Vehicle Type Program with Midnight and Grand Totals

File # 2

Station 1 Identification 95 Interval 60 Minute  
Start Date 25 Jun 90 End Date 27 Jun 90  
Start Time 8:57 End Time 9:04

26 Jun 90	Vehicle Type:											
	1	2	3	4	5	6	7	8	9	10	11	0
1:00	31	6	0	0	0	2	2	0	0	0	0	41
2:00	14	2	0	1	0	3	7	0	0	0	0	27
3:00	5	0	0	1	0	2	3	0	0	0	0	11
4:00	5	3	0	2	0	1	4	0	0	0	0	15
5:00	6	1	0	0	0	3	9	0	0	0	0	19
6:00	44	4	1	1	1	7	5	0	0	0	0	63
7:00	167	14	1	6	0	3	4	0	0	0	0	195
8:00	402	16	0	4	0	8	3	0	0	0	0	433
9:00	420	17	2	4	0	11	11	0	0	0	0	465
10:00	358	32	3	8	0	14	13	0	0	0	0	428
11:00	395	44	1	6	0	11	24	0	0	0	0	481
12:00	430	26	2	8	0	9	29	0	1	0	0	505
13:00	464	37	1	11	0	16	21	0	0	0	1	551
14:00	454	28	3	4	1	23	25	0	1	0	0	539
15:00	551	52	4	10	0	14	27	0	0	0	0	658
16:00	891	61	3	11	0	8	9	0	0	0	0	983
17:00	1626	60	1	7	0	8	13	0	0	0	0	1715
18:00	1713	39	0	4	0	6	10	0	0	0	0	1772
19:00	986	26	1	3	0	7	6	0	0	0	0	1029
20:00	558	15	0	3	0	8	5	0	0	0	0	589
21:00	339	3	0	2	0	3	5	0	0	0	0	352
22:00	291	4	0	1	0	4	2	0	0	0	0	302
23:00	151	7	1	1	0	1	2	0	0	0	0	163
24:00	125	5	0	2	0	2	3	0	0	0	0	137
<b>Total</b>	<b>10426</b>	<b>502</b>	<b>24</b>	<b>100</b>	<b>2</b>	<b>174</b>	<b>242</b>	<b>0</b>	<b>2</b>	<b>0</b>	<b>1</b>	<b>11473</b>

**LEGEND**

**LANE IDENTIFICATION**

Northbound = NB Eastbound = EB  
 Southbound = SB Westbound = WB  
 Directional Driving/Passing  
 Northbound Driving Lane = NBDL  
 Eastbound Passing Lane = EBPL  
 "Etc."

**COLUMN**

1 Auto pick-ups & vans  
 2 2-axle light truck & buses  
 3 3-axle straight units  
 4 3-axle semi-trailers  
 5 4-axle straight units  
 6 4-axle semi-trailers  
 7 5-axle semi-trailers  
 8 5-axle twin-trailers  
 9 5-axle semi-trailers  
 10 6-axle twin trailers  
 11 7-axles or more  
 12 Total

**24-HOUR VEHICLE CLASSIFICATION COUNT  
I-95 SB DRIVING LANE AT SCUDDERS FALLS BRIDGE  
BUCKS COUNTY**

TrafiCOMP II by StreeterAmet  
Vehicle Type Program with Midnight and Grand Totals

File # 3

Station 2 Identification 95 Interval 60 Minute  
Start Date 25 Jun 90 End Date 27 Jun 90  
Start Time 9:24 End Time 9:08

26 Jun 90	Vehicle Type:											
	1	2	3	4	5	6	7	8	9	10	11	0
1:00	82	24	0	4	0	4	1	0	0	0	0	115
2:00	48	15	1	3	0	5	5	0	0	0	0	77
3:00	37	7	2	4	0	2	1	0	0	0	0	53
4:00	24	14	0	7	0	4	4	0	0	0	0	53
5:00	26	27	0	13	0	5	2	1	0	0	0	74
6:00	78	51	4	18	0	6	3	0	0	0	0	160
7:00	165	79	2	9	0	8	3	0	0	0	0	266
8:00	301	141	5	8	0	8	1	0	0	0	0	464
9:00	430	57	6	15	1	22	21	0	0	0	0	552
10:00	499	73	7	3	1	19	20	0	0	0	0	622
11:00	509	60	1	6	0	23	23	0	3	0	0	625
12:00	584	57	3	11	0	10	29	0	1	0	0	695
13:00	597	54	2	9	0	20	27	0	1	0	0	710
14:00	595	66	4	8	1	16	30	0	1	0	0	721
15:00	626	66	6	8	0	17	25	0	0	0	0	748
16:00	872	144	3	12	0	13	8	0	2	0	0	1054
17:00	1228	186	2	10	0	14	11	0	0	0	0	1451
18:00	1381	230	2	7	0	8	10	0	0	0	0	1638
19:00	873	204	1	10	0	4	3	0	0	0	0	1095
20:00	634	122	2	5	0	6	3	0	0	0	0	772
21:00	481	109	2	6	0	4	1	0	0	0	0	603
22:00	396	120	3	6	0	7	2	0	0	0	0	534
23:00	242	85	2	6	0	4	2	0	0	0	0	341
24:00	200	59	0	6	0	5	1	0	0	0	0	271
Total	10908	2050	60	194	3	234	236	1	8	0	0	13694

**LEGEND**

**LANE IDENTIFICATION**

Northbound = NB Eastbound = EB  
Southbound = SB Westbound = WB  
Directional Driving/Passing  
Northbound Driving Lane = NBDL  
Eastbound Passing Lane = EBPL  
"Etc."

**COLUMN**

1 Auto pick-ups & vans  
2 2-axle light truck & buses  
3 3-axle straight units  
4 3-axle semi-trailers  
5 4-axle straight units  
6 4-axle semi-trailers  
7 5-axle semi-trailers  
8 5-axle twin-trailers  
9 5-axle semi-trailers  
10 6-axle twin trailers  
11 7-axles or more  
12 Total

DELAWARE VALLEY REGIONAL PLANNING COMMISSION  
HIGHWAY NETWORK COVERAGE TRAFFIC COUNT

CO. BUCKS TR 95 NB

MUN. LOWER MAKEFIELD BET. RIVER RD AND TR 332

MAP 04510000000000

INDEX

TRAFFIC PATTERN: PA. 1

S.R. 0095/0490

DIRECTION FLOW:BOTH

DIRECTION COUNTED:NORTH

HOUR ENDING	MON. 6/25F	TUES. 6/26F	WED. 6/27F	THURS.	FRI.	SAT.	SUN.
1AM		282	329				
2AM		243	209				
3AM		159	211				
4AM		164	232				
5AM		282	241				
6AM		599	602				
7AM		1665	1681				
8AM		2889	2863				
9AM		2455	2431				
10AM	1386	1426					
11AM	1277	1289					
12PM	1303	1228					
1PM	1203	1187					
2PM	1155	1181					
3PM	1208	1289					
4PM	1281	1296					
5PM	1485	1444					
6PM	1459	1393					
7PM	1285	1374					
8PM	888	893					
9PM	817	887					
10PM	930	852					
11PM	622	691					
12AM	426	487					
TOTALS	16725	25655	8799				

F = FAIR

S = SNOW

R = RAIN

H = HOLIDAY

E = ESTIMATED

I = INNER LANE

O = OUTER LANE

1990 AADT 22319  
AADT EXPANSION FACTOR 0.87

1990 AAWT 23346  
AAWT EXPANSION FACTOR 0.91

AM PEAK % 11.26 HOUR ENDING 8AM  
PM PEAK % 5.63 HOUR ENDING 5PM

DELAWARE VALLEY REGIONAL PLANNING COMMISSION  
HIGHWAY NETWORK COVERAGE TRAFFIC COUNT

CO. BUCKS TR 95 SB

MUN. LOWER MAKEFIELD BET. RIVER RD AND TR 332

MAP 0451000000000  
INDEX  
TRAFFIC PATTERN: PA. 1  
S.R. 0095/0491

DIRECTION FLOW:BOTH

DIRECTION COUNTED:SOUTH

HOUR ENDING	MON. 6/25F	TUES. 6/26F	WED. 6/27F	THURS.	FRI.	SAT.	SUN.
1AM		288	279				
2AM		178	171				
3AM		144	167				
4AM		148	123				
5AM		193	241				
6AM		385	381				
7AM		776	745				
8AM		1352	1280				
9AM		1303	1294				
10AM		1179	1181				
11AM	1212	1221					
12PM	1263	1248					
1PM	1326	1218					
2PM	1323	1202					
3PM	1363	1339					
4PM	1896	1935					
5PM	2525	2587					
6PM	2663	2639					
7PM	1863	1893					
8PM	1274	1294					
9PM	854	828					
10PM	812	831					
11PM	573	596					
12AM	513	542					
TOTALS	19460	25319	5862				

F = FAIR

S = SNOW

R = RAIN

H = HOLIDAY

E = ESTIMATED

I = INNER LANE

O = OUTER LANE

1990 AADT 22027  
AADT EXPANSION FACTOR 0.87

1990 AAWT 23040  
AAWT EXPANSION FACTOR 0.91

AM PEAK % 5.34 HOUR ENDING 8AM  
PM PEAK % 10.42 HOUR ENDING 6PM

DELAWARE VALLEY REGIONAL PLANNING COMMISSION  
HIGHWAY NETWORK COVERAGE TRAFFIC COUNT

CO. BUCKS TR 95 NB OFF RAMP

MUN. LOWER MAKEFIELD BET. TR 95 NB AND RIVER ROAD

MAP 09500000000000

INDEX

TRAFFIC PATTERN: PA. 1  
S.R.

DIRECTION FLOW:NORTH

DIRECTION COUNTED:NORTH

HOUR ENDING	MON. 6/25F	TUES. 6/26F	WED. 6/27F	THURS.	FRI.	SAT.	SUN.
1AM		21	65				
2AM		16	19				
3AM		8	7				
4AM		9	12				
5AM		8	11				
6AM		31	13				
7AM		65	91				
8AM		103	108				
9AM		151	156				
10AM	146	160					
11AM	165	166					
12PM	162	188					
1PM	179	187					
2PM	179	172					
3PM	191	183					
4PM	210	200					
5PM	256	275					
6PM	299	334					
7PM	295	265					
8PM	184	193					
9PM	164	169					
10PM	160	164					
11PM	106	107					
12AM	76	68					
TOTALS	2772	3243	482				

F = FAIR

S = SNOW

R = RAIN

H = HOLIDAY

E = ESTIMATED

I = INNER LANE

O = OUTER LANE

1990 AADT 2821

AADT EXPANSION FACTOR 0.87

1990 AAHT 2951

AAHT EXPANSION FACTOR 0.91

AM PEAK % 5.80 HOUR ENDING 12PM

PM PEAK % 10.30 HOUR ENDING 6PM

DELAWARE VALLEY REGIONAL PLANNING COMMISSION  
HIGHWAY NETWORK COVERAGE TRAFFIC COUNT

CO. BUCKS TR 95 NB ON RAMP

MUN. LOWER MAKEFIELD BET. RIVER RD SB AND TR 95 NB

MAP 0451000000000  
INDEX  
TRAFFIC PATTERN: PA. 2  
S.R. LOCAL

DIRECTION FLOW:NORTH

DIRECTION COUNTED:NORTH

HOUR ENDING	MON. 2/20F	TUES. 2/21F	WED. 2/22F	THURS.	FRI.	SAT.	SUN.
1AM		7	6				
2AM		3	2				
3AM		3	3				
4AM			2				
5AM		10	9				
6AM		69	64				
7AM		339	342				
8AM		839	913				
9AM		812					
10AM		247					
11AM		100					
12PM		83					
1PM		99					
2PM	81	114					
3PM	93	123					
4PM	102	121					
5PM	82	128					
6PM	86	108					
7PM	77	84					
8PM	70	73					
9PM	25	28					
10PM	33	25					
11PM	31	35					
12AM	10	11					
TOTALS	690	3461	1341				

F = FAIR 1989 AADT 3564  
 S = SNOW AADT EXPANSION FACTOR 1.03  
 R = RAIN  
 H = HOLIDAY 1989 AAWT 3703  
 E = ESTIMATED AAWT EXPANSION FACTOR 1.07  
 I = INNER LANE  
 O = OUTER LANE AM PEAK % 24.24 HOUR ENDING 8AM  
 PM PEAK % 3.70 HOUR ENDING 5PM

DELAWARE VALLEY REGIONAL PLANNING COMMISSION  
HIGHWAY NETWORK COVERAGE TRAFFIC COUNT

CO. BUCKS

TR 95 NB ON RAMP

MUN. LOWER MAKEFIELD

BET. RIVER RD NB

AND TR 95 NB

MAP 04510000000000

INDEX

TRAFFIC PATTERN: PA. 2

S.R. LOCAL

DIRECTION FLOW:NORTH

DIRECTION COUNTED:NORTH

HOUR ENDING	MON. 2/20F	TUES. 2/21F	WED. 2/22F	THURS.	FRI.	SAT.	SUN.
1AM		10	10				
2AM		2	1				
3AM		8	4				
4AM			2				
5AM		12	14				
6AM		57	58				
7AM		262	247				
8AM		705	789				
9AM		689					
10AM		207					
11AM		148					
12PM		121					
1PM		134					
2PM	160	180					
3PM	128	161					
4PM	124	163					
5PM	131	162					
6PM	111	141					
7PM	115	123					
8PM	94	100					
9PM	66	65					
10PM	47	48					
11PM	33	52					
12AM	14	14					
TOTALS	1023	3564	1125				

F = FAIR

S = SNOW

R = RAIN

H = HOLIDAY

E = ESTIMATED

I = INNER LANE

O = OUTER LANE

1989 AADT 3670

AADT EXPANSION FACTOR 1.03

1989 AAWT 3813

AAWT EXPANSION FACTOR 1.07

AM PEAK % 19.78 HOUR ENDING 8AM

PM PEAK % 5.05 HOUR ENDING 2PM

DELAWARE VALLEY REGIONAL PLANNING COMMISSION  
HIGHWAY NETWORK COVERAGE TRAFFIC COUNT

CO. BUCKS TR 95 SB OFF RAMP

MUN. LOWER MAKEFIELD BET. TR 95 SB AND RIVER RD NB

MAP 0451000000000  
INDEX  
TRAFFIC PATTERN: PA. 2  
S.R. LOCAL

DIRECTION FLOW: SOUTH DIRECTION COUNTED: SOUTH

HOUR ENDING	MON. 2/20F	TUES. 2/21F	WED. 2/22F	THURS.	FRI.	SAT.	SUN.
1AM		20	22				
2AM		6	9				
3AM		5	8				
4AM		2	1				
5AM		1	4				
6AM		5	17				
7AM		44	30				
8AM		60	71				
9AM		58	69				
10AM		64	59				
11AM		77	68				
12PM		87					
1PM		92					
2PM		90					
3PM	116	121					
4PM	214	224					
5PM	510	535					
6PM	658	738					
7PM	350	394					
8PM	188	201					
9PM	114	124					
10PM	95	117					
11PM	59	70					
12AM	41	43					
TOTALS	2345	3178	358				

F = FAIR  
S = SNOW  
R = RAIN  
H = HOLIDAY  
E = ESTIMATED  
I = INNER LANE  
O = OUTER LANE

1989 AADT 3273  
AADT EXPANSION FACTOR 1.03

1989 AAWT 3400  
AAWT EXPANSION FACTOR 1.07

AM PEAK % 2.74 HOUR ENDING 12PM  
PM PEAK % 23.22 HOUR ENDING 6PM

DELAWARE VALLEY REGIONAL PLANNING COMMISSION  
HIGHWAY NETWORK COVERAGE TRAFFIC COUNT

CO. BUCKS TR 95 SB OFF RAMP

MUN. LOWER MAKEFIELD BET. TR 95 SB AND RIVER RD SB

MAP 0451000000000  
INDEX  
TRAFFIC PATTERN: PA. 2  
S.R. LOCAL

DIRECTION FLOW: SOUTH

DIRECTION COUNTED: SOUTH

HOUR ENDING	MGN. 2/20F	TUES. 2/21F	WED. 2/22F	THURS.	FRI.	SAT.	SUN.
1AM		33	22				
2AM		9	10				
3AM		5	4				
4AM		4	2				
5AM		3	2				
6AM		3	3				
7AM		29	27				
8AM		88	75				
9AM		112	110				
10AM		83	94				
11AM		87	92				
12PM		108					
1PM		128					
2PM		148					
3PM	141	161					
4PM	276	310					
5PM	467	534					
6PM	527	547					
7PM	286	319					
8PM	188	198					
9PM	109	119					
10PM	110	155					
11PM	98	81					
12AM	50	46					
TOTALS	2252	3310	441				

F = FAIR  
S = SNOW  
R = RAIN  
H = HOLIDAY  
E = ESTIMATED  
I = INNER LANE  
O = OUTER LANE

1989 AADT 3409  
AADT EXPANSION FACTOR 1.03

1989 AAWT 3541  
AAWT EXPANSION FACTOR 1.07

AM PEAK % 3.38 HOUR ENDING 9AM  
PM PEAK % 16.53 HOUR ENDING 6PM

DELAWARE VALLEY REGIONAL PLANNING COMMISSION  
HIGHWAY NETWORK COVERAGE TRAFFIC COUNT

CO. BUCKS TR 95 SB ON RAMP  
MUN. LOWER MAKEFIELD BET. RIVER RD AND TR 95 SB MAP 04500000000000  
DIRECTION FLOW: SOUTH DIRECTION COUNTED: SOUTH INDEX  
TRAFFIC PATTERN: PA. 1  
S.R.

HOUR ENDING	MON. 6/25F	TUES. 6/26F	WED. 6/27F	THURS.	FRI.	SAT.	SUN.
1AM		38	28				
2AM		23	14				
3AM		12	10				
4AM		8	6				
5AM		19	19				
6AM		47	34				
7AM		168	172				
8AM		325	285				
9AM		287	289				
10AM		193	234				
11AM		220	222				
12PM	192	186					
1PM	186	206					
2PM	214	164					
3PM	193	207					
4PM	210	217					
5PM	245	218					
6PM	251	212					
7PM	228	217					
8PM	162	138					
9PM	141	124					
10PM	96	113					
11PM	68	97					
12AM	42	67					
TOTALS	2228	3506	1313				

F = FAIR 1990 AADT 3050  
S = SNOW AADT EXPANSION FACTOR 0.87  
R = RAIN  
H = HOLIDAY 1990 AAAT 3190  
E = ESTIMATED AAAT EXPANSION FACTOR 0.91  
I = INNER LANE  
O = OUTER LANE  
AM PEAK % 9.27 HOUR ENDING 8AM  
PM PEAK % 6.22 HOUR ENDING 5PM

DELAWARE VALLEY REGIONAL PLANNING COMMISSION  
HIGHWAY NETWORK COVERAGE TRAFFIC COUNT

CO. BUCKS

UPPER RIVER RD

MUN. L MAKEFIELD

BET. TR 95 RAMPS

AND HIGHLAND DR

MAP 0450000000000

INDEX

TRAFFIC PATTERN: PA. 1

S.R. 2071/0140

DIRECTION FLOW: BOTH

DIRECTION COUNTED: BOTH

HOUR ENDING	MON. 10/29F	TUES. 10/30F	WED. 10/31F	THURS.	FRI.	SAT.	SUN.
1AM		79	50				
2AM		28	29				
3AM		23	19				
4AM		15	19				
5AM		38	24				
6AM		118	121				
7AM		547	500				
8AM		1215	1109				
9AM		1108	1083				
10AM		644	576				
11AM	561	573	480				
12PM	627	579	510				
1PM	674	613					
2PM	674	585					
3PM	660	636					
4PM	903	802					
5PM	1142	1099					
6PM	1188	1159					
7PM	968	709					
8PM	544	521					
9PM	355	329					
10PM	384	280					
11PM	177	204					
12AM	154	129					
TOTALS	9011	12033	4520				

F = FAIR

S = SNOW

R = RAIN

H = HOLIDAY

E = ESTIMATED

I = INNER LANE

O = OUTER LANE

1990 AADT 10950

AADT EXPANSION FACTOR 0.91

1990 AAWT 11792

AAWT EXPANSION FACTOR 0.98

AM PEAK % 10.10 HOUR ENDING 8AM

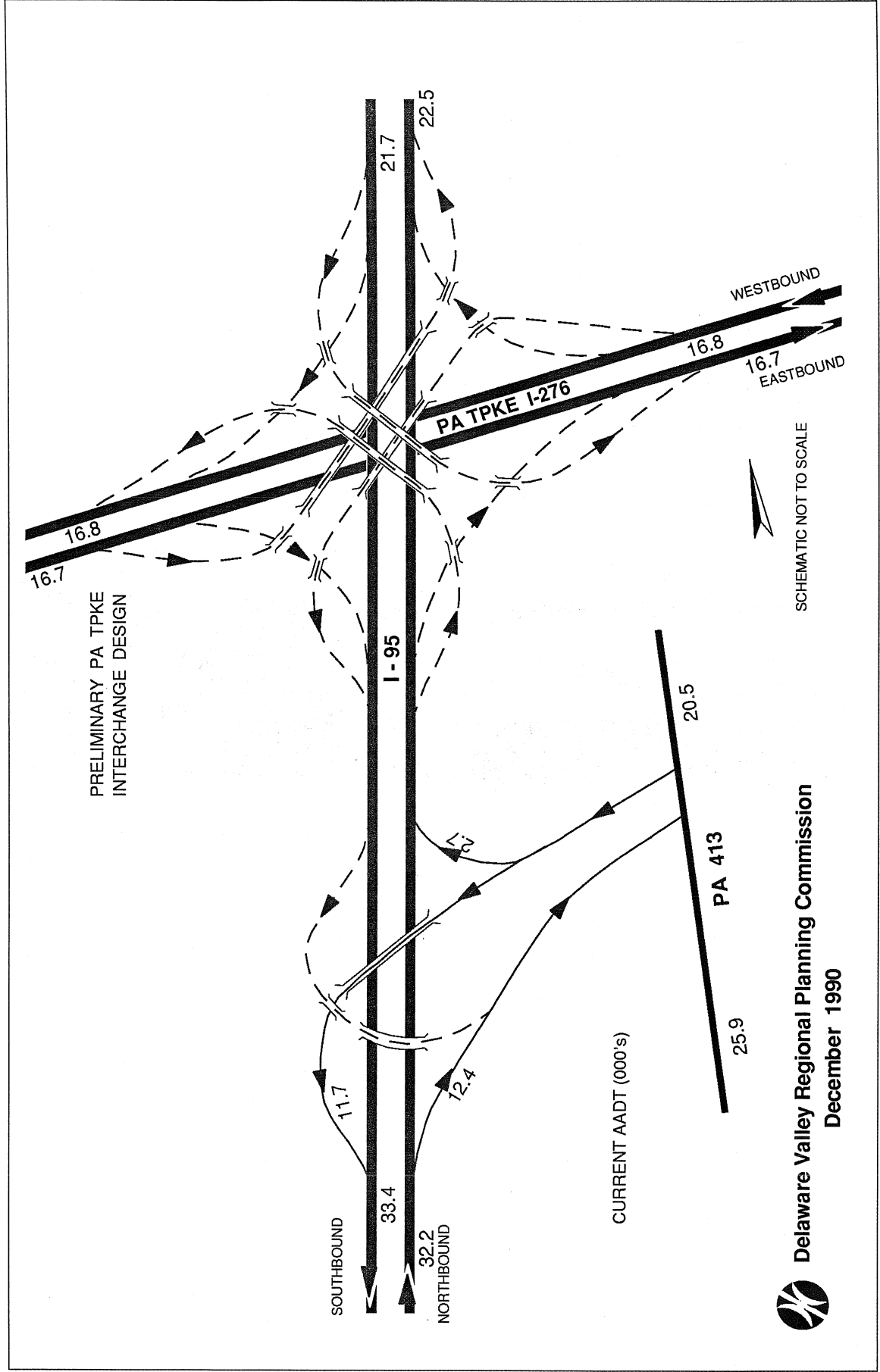
PM PEAK % 9.63 HOUR ENDING 6PM





PA 413 INTERCHANGE - BUCKS COUNTY

Figure A-II: CURRENT AVERAGE DAILY TRAFFIC VOLUMES



Delaware Valley Regional Planning Commission  
December 1990

DELAWARE VALLEY REGIONAL PLANNING COMMISSION  
HIGHWAY NETWORK COVERAGE TRAFFIC COUNT

CO. BUCKS

TR 95 NB

MUN. MIDDLETOWN

BET. TR 413 SPUR

AND TR 1 BUS

MAP 06100113079092  
INDEX

TRAFFIC PATTERN: PA. 1  
S.R. 0095/0420

DIRECTION FLOW:BOTH

DIRECTION COUNTED:NORTH

HOUR ENDING	MON.	TUES. 6/26F	WED. 6/27F	THURS. 6/28F	FRI.	SAT.	SUN.
1AM			249	226			
2AM			152	171			
3AM			116	127			
4AM			121	108			
5AM			154	172			
6AM			447	465			
7AM			1261	1237			
8AM			1819				
9AM		1640	1656				
10AM		1232	1269				
11AM		1261	1225				
12PM		1183	1205				
1PM		1176	1191				
2PM		1212	1176				
3PM		1232	1254				
4PM		1516	1541				
5PM		1801	1748				
6PM		2006	1999				
7PM		1612	1574				
8PM		1084	1105				
9PM		916	891				
10PM		801	824				
11PM		714	694				
12AM		537	521				
TOTALS		19923	24192	2506			

F = FAIR  
S = SNOW  
R = RAIN  
H = HOLIDAY  
E = ESTIMATED  
I = INNER LANE  
O = OUTER LANE

1990 AADT 22498  
AADT EXPANSION FACTOR 0.93

1990 AAWT 23466  
AAWT EXPANSION FACTOR 0.97

AM PEAK % 7.52 HOUR ENDING 8AM  
PM PEAK % 8.26 HOUR ENDING 6PM

DELAWARE VALLEY REGIONAL PLANNING COMMISSION  
HIGHWAY NETWORK COVERAGE TRAFFIC COUNT

CO. BUCKS TR 95 SB  
MUN. MIDDLETOWN BET. TR 1 BUS AND TR 413 SPUR MAP 06100113079092  
INDEX  
DIRECTION FLOW:BOTH DIRECTION COUNTED:SOUTH TRAFFIC PATTERN: PA. 1  
S.R. 0095/0421

HOUR ENDING	MON.	TUES. 6/26F	WED. 6/27F	THURS. 6/28F	FRI.	SAT.	SUN.
1AM			216	194			
2AM			184	196			
3AM			127	130			
4AM			143	122			
5AM			184	206			
6AM			485	501			
7AM			1268	1252			
8AM			1760				
9AM	1547	1582					
10AM	1249	1233					
11AM	1186	1206					
12PM	1202	1177					
1PM	1181	1160					
2PM	1132	1125					
3PM	1193	1229					
4PM	1456	1443					
5PM	1666	1643					
6PM	1795	1838					
7PM	1534	1518					
8PM	1086	1148					
9PM	896	878					
10PM	684	708					
11PM	601	635					
12AM	476	442					
TOTALS	18884	23332	2601				

F = FAIR 1990 AADT 21698  
S = SNOW AADT EXPANSION FACTOR 0.93  
R = RAIN  
H = HOLIDAY 1990 AAWT 22632  
E = ESTIMATED AAWT EXPANSION FACTOR 0.97  
I = INNER LANE  
O = OUTER LANE AM PEAK % 7.54 HOUR ENDING 8AM  
PM PEAK % 7.88 HOUR ENDING 6PM

**24-HOUR VEHICLE CLASSIFICATION COUNT  
I-95 NB PASSING LANE NORTH OF I-95 SPUR  
BUCKS COUNTY**

TrafiCOMP II by StreeterAmet  
Vehicle Type Program with Midnight and Grand Totals

File # 2

Station 1 Identification 96 Interval 60 Minute  
Start Date 25 Jun 90 End Date 27 Jun 90  
Start Time 6:00 End Time 5:30

26 Jun 90	Vehicle Type:											
	1	2	3	4	5	6	7	8	9	10	11	12
1:00	57	8	0	2	0	0	1	0	0	0	0	68
2:00	22	10	0	0	0	0	0	0	0	0	0	32
3:00	13	8	0	0	0	1	2	0	0	0	0	24
4:00	13	8	0	0	0	0	0	0	0	0	0	21
5:00	14	8	1	2	0	2	2	0	0	0	0	29
6:00	80	27	1	3	0	0	1	0	0	0	0	112
7:00	374	107	1	2	0	2	0	0	0	0	0	486
8:00	719	113	1	6	0	2	0	0	1	0	0	842
9:00	585	85	1	7	0	9	2	0	0	0	0	689
10:00	369	82	3	13	0	12	3	0	0	0	0	482
11:00	330	86	2	12	0	6	2	0	0	0	0	438
12:00	304	67	0	10	0	11	2	0	0	0	0	394
13:00	312	63	3	5	0	8	2	0	0	0	0	393
14:00	304	63	1	8	1	4	2	0	0	0	0	383
15:00	393	71	3	5	0	5	3	0	0	0	0	480
16:00	508	103	1	2	0	1	2	0	0	0	0	617
17:00	625	85	1	2	0	1	1	0	0	0	0	715
18:00	792	85	2	5	0	2	0	0	0	0	0	886
19:00	583	57	0	2	0	0	2	0	0	0	0	644
20:00	289	37	0	2	0	0	0	0	0	0	0	328
21:00	208	26	1	0	0	0	1	0	0	0	0	236
22:00	257	21	0	1	0	0	0	0	0	0	0	279
23:00	203	17	2	3	0	1	0	0	0	0	0	226
24:00	127	22	0	0	0	1	0	0	0	0	0	150
Total	7481	1259	24	92	1	68	28	0	1	0	0	8954

**LEGEND**

**LANE IDENTIFICATION**

Northbound = NB Eastbound = EB  
Southbound = SB Westbound = WB  
Directional Driving/Passing  
Northbound Driving Lane = NBDL  
Eastbound Passing Lane = EBPL  
"Etc."

**COLUMN**

1 Auto pick-ups & vans  
2 2-axle light truck & buses  
3 3-axle straight units  
4 3-axle semi-trailers  
5 4-axle straight units  
6 4-axle semi-trailers  
7 5-axle semi-trailers  
8 5-axle twin-trailers  
9 5-axle semi-trailers  
10 6-axle twin trailers  
11 7-axles or more  
12 Total

### 24-HOUR VEHICLE CLASSIFICATION COUNT I-95 NB DRIVING LANE NORTH OF I-95 SPUR BUCKS COUNTY

TrafficOMP II by StreeterAmet  
Vehicle Type Program with Midnight and Grand Totals

File # 1

Station 1 Identification 95 Interval 60 Minute  
Start Date 25 Jun 90 End Date 27 Jun 90  
Start Time 6:00 End Time 5:24

26 Jun 90	Vehicle Type:											0
	1	2	3	4	5	6	7	8	9	10	11	0
1:00	142	7	0	1	0	11	19	1	0	0	0	181
2:00	83	8	0	1	0	10	17	1	0	0	0	120
3:00	47	15	0	0	0	8	22	0	0	0	0	92
4:00	47	8	2	1	0	10	32	0	0	0	0	100
5:00	56	20	1	3	0	13	32	0	0	0	0	125
6:00	187	41	17	4	1	29	55	0	1	0	0	335
7:00	590	76	12	8	2	21	65	0	1	0	0	775
8:00	783	87	12	2	0	19	74	0	0	0	0	977
9:00	741	113	16	4	0	28	64	0	1	0	0	967
10:00	557	89	20	9	7	36	68	0	1	0	0	787
11:00	571	94	16	4	3	29	68	0	2	0	0	787
12:00	493	89	19	6	4	19	78	0	3	0	0	711
13:00	571	72	16	6	9	18	66	0	0	0	0	758
14:00	601	76	15	3	12	24	62	0	0	0	0	793
15:00	584	73	10	3	11	21	72	0	0	0	0	774
16:00	747	88	9	2	2	22	54	0	0	0	0	924
17:00	923	61	4	3	0	10	32	0	0	0	0	1033
18:00	1023	38	6	3	0	13	30	0	0	0	0	1113
19:00	850	44	2	2	0	10	22	0	0	0	0	930
20:00	605	35	0	2	0	13	22	0	0	0	0	677
21:00	512	14	2	1	0	6	19	0	1	0	0	555
22:00	508	16	0	1	0	6	14	0	0	0	0	545
23:00	416	16	0	2	0	10	24	0	0	0	0	468
24:00	318	20	3	0	0	7	22	0	1	0	0	371
<b>Total</b>	<b>11955</b>	<b>1200</b>	<b>182</b>	<b>71</b>	<b>51</b>	<b>393</b>	<b>1033</b>	<b>2</b>	<b>11</b>	<b>0</b>	<b>0</b>	<b>14898</b>

#### LEGEND

**LANE IDENTIFICATION**

Northbound = NB Eastbound = EB  
 Southbound = SB Westbound = WB  
 Directional Driving/Passing  
 Northbound Driving Lane = NBDL  
 Eastbound Passing Lane = EBPL  
 "Etc."

**COLUMN**

1 Auto pick-ups & vans  
 2 2-axle light truck & buses  
 3 3-axle straight units  
 4 3-axle semi-trailers  
 5 4-axle straight units  
 6 4-axle semi-trailers  
 7 5-axle semi-trailers  
 8 5-axle twin-trailers  
 9 5-axle semi-trailers  
 10 6-axle twin trailers  
 11 7-axes or more  
 12 Total

**24-HOUR VEHICLE CLASSIFICATION COUNT  
I-95 SB DRIVING LANE NORTH OF I-95 SPUR  
BUCKS COUNTY**

TrafiCOMP II by StreeterAmet  
Vehicle Type Program with Midnight and Grand Totals

File # 4

Station 2 Identification 98 Interval 60 Minute  
Start Date 25 Jun 90 End Date 27 Jun 90  
Start Time 6:44 End Time 5:46

26 Jun 90	Vehicle Type:											
	1	2	3	4	5	6	7	8	9	10	11	0
1:00	95	3	0	0	0	3	17	0	0	0	0	118
2:00	73	7	0	0	0	2	26	0	0	0	0	108
3:00	49	3	2	0	0	2	13	0	0	0	0	69
4:00	49	8	2	0	0	6	19	0	2	0	0	86
5:00	70	11	1	0	0	7	32	0	4	0	0	125
6:00	240	22	2	0	1	10	55	0	2	0	0	332
7:00	624	33	10	6	2	13	54	0	7	0	0	749
8:00	742	34	7	3	4	15	57	0	7	0	1	870
9:00	703	42	5	2	6	15	71	0	5	0	0	849
10:00	561	41	11	3	6	11	85	0	4	0	0	722
11:00	513	72	16	3	4	15	79	0	5	0	1	708
12:00	505	71	16	2	2	6	89	0	2	0	0	693
13:00	516	59	12	3	3	10	93	0	3	0	0	699
14:00	498	77	16	5	3	9	78	0	4	0	0	690
15:00	553	73	18	3	2	13	65	0	0	0	0	727
16:00	592	88	16	4	3	11	67	0	5	0	0	786
17:00	763	63	21	1	0	7	39	0	1	0	0	895
18:00	825	41	4	4	0	10	49	0	2	0	0	935
19:00	756	33	3	0	0	11	22	0	1	0	0	826
20:00	622	29	3	2	0	7	30	0	1	0	0	694
21:00	470	19	1	0	0	5	33	0	1	0	0	529
22:00	399	18	2	1	0	3	21	0	0	0	1	445
23:00	317	10	3	2	0	1	25	0	0	0	0	358
24:00	227	4	0	0	0	3	27	0	0	0	0	261
Total	10762	861	171	44	36	195	1146	0	56	0	3	13274

**LEGEND**

**LANE IDENTIFICATION**

Northbound = NB Eastbound = EB  
Southbound = SB Westbound = WB  
Directional Driving/Passing  
Northbound Driving Lane = NBDL  
Eastbound Passing Lane = EBPL  
"Etc."

**COLUMN**

- |                              |                         |
|------------------------------|-------------------------|
| 1 Auto pick-ups & vans       | 7 5-axle semi-trailers  |
| 2 2-axle light truck & buses | 8 5-axle twin-trailers  |
| 3 3-axle straight units      | 9 5-axle semi-trailers  |
| 4 3-axle semi-trailers       | 10 6-axle twin trailers |
| 5 4-axle straight units      | 11 7-axles or more      |
| 6 4-axle semi-trailers       | 12 Total                |

DELAWARE VALLEY REGIONAL PLANNING COMMISSION  
HIGHWAY NETWORK COVERAGE TRAFFIC COUNT

CO. BUCKS

TR 95 SPUR NB ON RAMP

MUN. BRISTOL

BET. TR 95 SB ON RAMP AND TR 95 NB

MAP 07800000000000

INDEX

TRAFFIC PATTERN: PA. 1

S.R.

DIRECTION FLOW=NORTH

DIRECTION COUNTED=NORTH

HOOR ENDING	MON.	TUES.	WED. 8/ 8F	THURS. 8/ 9F	FRI. 8/10F	SAT.	SUN.
1AM				13	15		
2AM				11	8		
3AM				10	3		
4AM				7	6		
5AM				17	19		
6AM				68	65		
7AM				263	246		
8AM				360	332		
9AM				289	262		
10AM				177			
11AM				143			
12PM			152	136			
1PM			166	145			
2PM			159	153			
3PM			168	192			
4PM			196	205			
5PM			230	250			
6PM			327	276			
7PM			175	144			
8PM			116	99			
9PM			82	78			
10PM			95	69			
11PM			88	72			
12AM			29	25			
TOTALS			1981	3202	956		

F = FAIR

S = SNOW

R = RAIN

H = HOLIDAY

E = ESTIMATED

I = INNER LANE

O = OUTER LANE

1990 AADT 2721  
AADT EXPANSION FACTOR 0.85

1990 AAWT 2913  
AAWT EXPANSION FACTOR 0.91

AM PEAK % 11.24 HOUR ENDING 8AM  
PM PEAK % 8.62 HOUR ENDING 6PM

DELAWARE VALLEY REGIONAL PLANNING COMMISSION  
HIGHWAY NETWORK COVERAGE TRAFFIC COUNT

CO. BUCKS

TR 95 SPUR SB ON RAMP

MUN. BRISTOL

BET. TR 95 NB ON RAMP AND TR 95 SB

MAP 07800000000000

INDEX

TRAFFIC PATTERN: PA. 1  
S.R.

DIRECTION FLOW: SOUTH

DIRECTION COUNTED: SOUTH

HOUR ENDING	MON.	TUES.	WED. 8/ 8F	THURS. 8/ 9F	FRI. 8/10F	SAT.	SUN.
1AM				202	173		
2AM				114	101		
3AM				102	96		
4AM				92	74		
5AM				130	157		
6AM				346	323		
7AM				963	880		
8AM				686	626		
9AM				749	683		
10AM				703			
11AM				743			
12PM			667	654			
1PM			622	747			
2PM			701	746			
3PM			826	810			
4PM			935	950			
5PM			993	1012			
6PM			967	1016			
7PM			779	729			
8PM			631	617			
9PM			507	469			
10PM			439	424			
11PM			409	375			
12AM			233	198			
TOTALS			8709	13779	3313		

F = FAIR

S = SNOW

R = RAIN

H = HOLIDAY

E = ESTIMATED

I = INNER LANE

O = OUTER LANE

1990 AADT 11712

AADT EXPANSION FACTOR 0.85

1990 AAAT 12538

AAAT EXPANSION FACTOR 0.91

AM PEAK % 6.99 HOUR ENDING 7AM

PM PEAK % 7.39 HOUR ENDING 6PM

DELAWARE VALLEY REGIONAL PLANNING COMMISSION  
HIGHWAY NETWORK COVERAGE TRAFFIC COUNT

CO. BUCKS TR 95 SPUR EB  
MUN. BRISTOL BET. TR 413 AND TR 95 NB MAP 07810043030035  
DIRECTION FLCw: BOTH DIRECTION COUNTED: EAST INDEX  
TRAFFIC PATTERN: PA. 1  
S.R.

HOUR ENDING	MON. 3/21F	TUES. 3/22F	WED. 3/23F	THURS.	FRI.	SAT.	SUN.
1AM		188	203				
2AM		116	98				
3AM		96	104				
4AM		72	107				
5AM		100	99				
6AM		257	258				
7AM		661	664				
8AM		897	905				
9AM		913	942				
10AM		661	636				
11AM	670	626	651				
12PM	626	661					
1PM	676	642					
2PM	718	720					
3PM	782	816					
4PM	967	952					
5PM	1152	1136					
6PM	1027	976					
7PM	732	765					
8PM	560	549					
9PM	362	486					
10PM	365	404					
11PM	312	364					
12AM	275	372					
TOTALS	9224	13430	4667				

F = FAIR 1988 AADT 12355  
S = SNOW AADT EXPANSION FACTOR 0.92  
R = RAIN  
H = HOLIDAY 1988 AAWT 13027  
E = ESTIMATED AAWT EXPANSION FACTOR 0.97  
I = INNER LANE  
O = OUTER LANE  
AM PEAK % 6.80 HOUR ENDING 9AM  
PM PEAK % 8.46 HOUR ENDING 5PM

WEATHER DATE HOUR	MCD: BRISTOL BOROUGH FROM: I 95 SPUR DIRECTION FLOW: BOTH		COUNT: BOTH		ROAD: TR 413 TO: TR 13		LR: 0413/0050 FRI
	MON	TUE F 8/30/88	WED F 8/31/88	THU F 9/ 1/88			
1 AM			413		422		
2 AM			262		250		
3 AM			170		187		
4 AM			189		159		
5 AM			225		221		
6 AM			523		463		
7 AM			1318		1226		
8 AM		1807	1751				
9 AM		1639	1732				
10 AM		1570	1533				
11 AM		1567	1623				
12 PM		1713	1698				
1 PM		1685	1760				
2 PM		1637	1736				
3 PM		1727	1857				
4 PM		1867	1863				
5 PM		1848	1937				
6 PM		1885	1924				
7 PM		1645	1642				
8 PM		1376	1344				
9 PM		1127	1180				
10 PM		919	972				
11 PM		788	775				
12 AM		585	657				

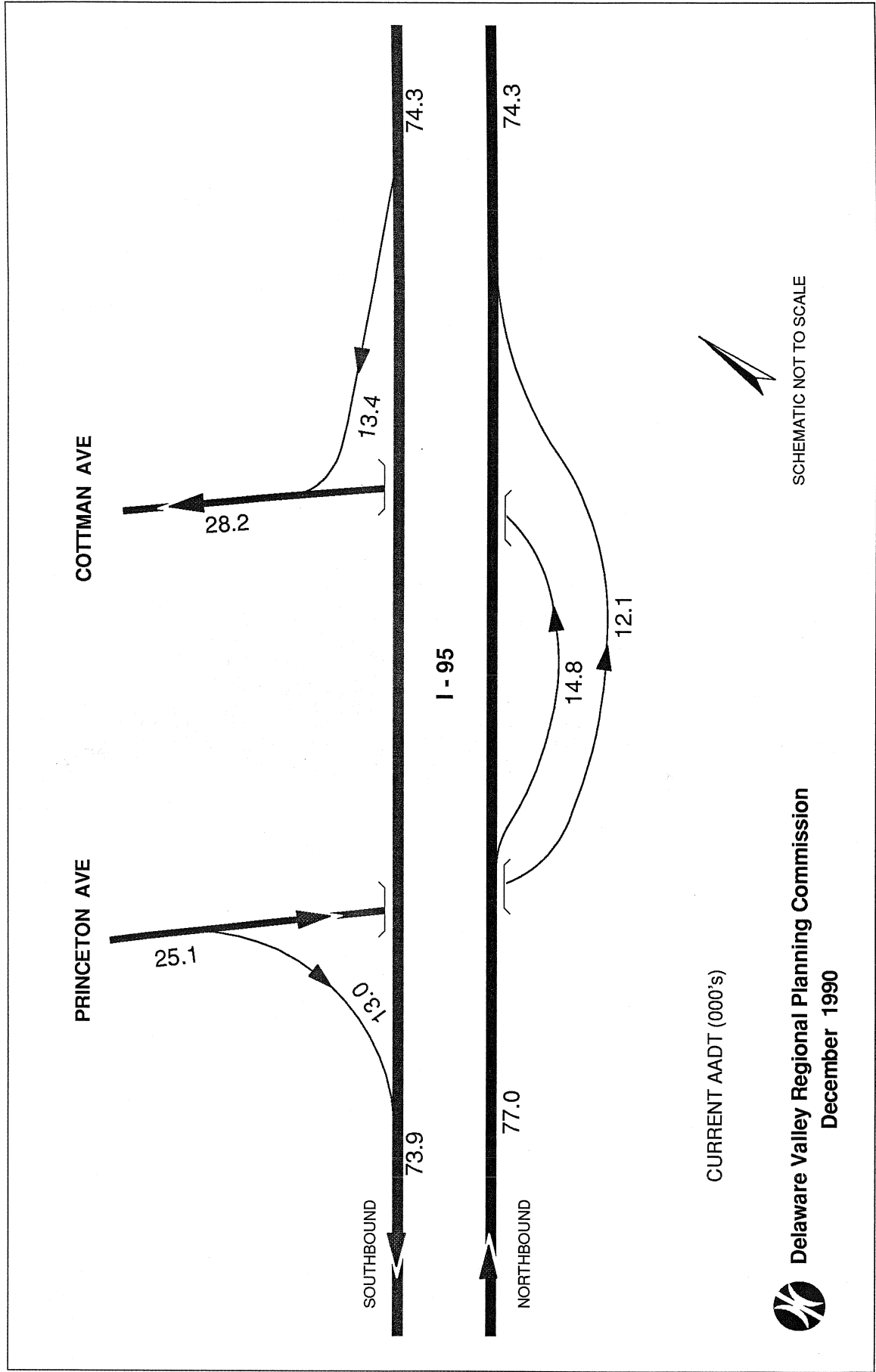
PEAK HRS ENDING: 8AM ( 6.02 %) AND 5PM ( 6.66 %)  
 YEAR 88 AADT 25,884 FACTOR 0.89 AAWT 27,629 FACTOR 0.95 GROUP 1

WEATHER DATE HOUR	MCD: BRISTOL BOROUGH FROM: FORD RD DIRECTION FLOW: BOTH		COUNT: BOTH		ROAD: TR 413 TO: NEW FALLS RD LR: 0413/0130	
	MON F 8/30/88	TUE F 8/30/88	WED F 8/31/88	THU F 9/ 1/88	FRI F 9/ 2/88	
1 AM			304		348	325
2 AM			164		186	205
3 AM			159		91	152
4 AM			103		82	79
5 AM			117		124	115
6 AM			286		322	259
7 AM			793		822	789
8 AM			1286		1279	
9 AM		1045	1125		1161	
10 AM		1025	1012		1065	
11 AM		1141	1145		1160	
12 PM		1328	1337		1365	
1 PM		1596	1500		1598	
2 PM		1463	1408		1510	
3 PM		1384	1376		1420	
4 PM		1470	1441		1534	
5 PM		1680	1638		1800	
6 PM		1720	1760		1764	
7 PM		1414	1504		1533	
8 PM		1414	1344		1389	
9 PM		1162	1126		1245	
10 PM		895	912		948	
11 PM		632	660		717	
12 AM		611	541		566	

PEAK HRS ENDING: 12PM ( 5.80 %) AND 6PM ( 7.64 %)  
 YEAR 88 AADT 20,506 FACTOR 0.89 AAWT 21,888 FACTOR 0.95 GROUP 1



### PRINCETON - COTTMAN INTERCHANGE - PHILADELPHIA Figure A-III: CURRENT AVERAGE DAILY TRAFFIC VOLUMES



Delaware Valley Regional Planning Commission  
December 1990

**24-HOUR VEHICLE CLASSIFICATION COUNT  
I-95 NB ON-RAMP AT PRINCETON AVENUE  
CITY OF PHILADELPHIA**

TrafiCOMP II by StreeterAmet  
Vehicle Type Program with Midnight and Grand Totals

File # 5

Station 1 Identification 65 Interval 60 Minute  
Start Date 27 Jun 90 End Date 29 Jun 90  
Start Time 10:31 End Time 7:48

28 Jun 90	Vehicle Type:											
	1	2	3	4	5	6	7	8	9	10	11	0
1:00	152	11	1	0	0	3	5	0	0	0	0	172
2:00	82	6	0	0	0	0	0	0	0	0	0	88
3:00	47	3	0	0	1	2	7	0	0	0	0	60
4:00	50	4	0	0	0	2	10	0	5	0	0	71
5:00	75	7	2	0	0	1	11	0	1	0	0	97
6:00	207	33	1	0	3	1	11	0	3	0	0	259
7:00	644	68	2	0	2	5	20	0	5	0	0	746
8:00	821	81	13	1	3	9	21	0	2	0	0	951
9:00	660	61	12	0	1	8	22	0	1	0	0	765
10:00	475	78	4	4	3	8	24	0	2	0	2	600
11:00	505	80	5	4	2	4	18	0	5	0	2	625
12:00	475	64	8	4	6	2	27	0	3	0	1	590
13:00	506	69	8	1	4	3	14	0	2	0	1	608
14:00	480	63	7	2	2	3	18	0	2	0	0	577
15:00	538	88	13	1	3	8	24	0	2	0	1	678
16:00	595	84	3	1	3	5	21	0	2	0	1	715
17:00	627	58	3	3	1	6	6	0	1	0	0	705
18:00	682	50	0	1	0	6	11	0	1	0	0	751
19:00	743	51	1	3	0	1	3	0	0	0	0	802
20:00	568	37	1	0	2	2	3	0	0	0	0	613
21:00	455	35	1	0	0	0	4	0	0	0	0	495
22:00	478	20	0	0	0	1	3	0	0	0	0	502
23:00	354	16	0	1	1	0	2	0	0	0	0	374
24:00	239	7	0	0	1	1	1	0	0	0	0	249
Total	10458	1074	85	26	38	81	286	0	37	0	8	12093

**LEGEND**

**LANE IDENTIFICATION**

Northbound = NB Eastbound = EB  
Southbound = SB Westbound = WB  
Directional Driving/Passing  
Northbound Driving Lane = NBDL  
Eastbound Passing Lane = EBPL  
"Etc."

**COLUMN**

1 Auto pick-ups & vans  
2 2-axle light truck & buses  
3 3-axle straight units  
4 3-axle semi-trailers  
5 4-axle straight units  
6 4-axle semi-trailers  
7 5-axle semi-trailers  
8 5-axle twin-trailers  
9 5-axle semi-trailers  
10 6-axle twin trailers  
11 7-axles or more  
12 Total

DELAWARE VALLEY REGIONAL PLANNING COMMISSION  
HIGHWAY NETWORK COVERAGE TRAFFIC COUNT

CD. PHILADELPHIA TR 95 NB OFF RAMP

MUN. PHILA BET. TR 95 NB AND COTTMAN AVE EB

MAP 07710000000000  
INDEX

TRAFFIC PATTERN: PA. 1  
S.R.

DIRECTION FLOW:NORTH

DIRECTION COUNTED:NORTH

HOUR ENDING	MON.	TUES.	WED. 6/27F	THURS. 6/28F	FRI. 6/29F	SAT.	SUN.
1AM				274	281		
2AM				121	141		
3AM				118	106		
4AM				75	61		
5AM				74	89		
6AM				163	146		
7AM				647	562		
8AM				850	825		
9AM				782	775		
10AM				696	690		
11AM				713	705		
12PM				775	769		
1PM			814	767			
2PM			766	769			
3PM			891	933			
4PM			1193	1239			
5PM			1324	1661			
6PM			1398	1497			
7PM			988	1006			
8PM			775	778			
9PM			572	623			
10PM			549	602			
11PM			493	508			
12AM			398	405			
TOTALS			10161	16076	5150		

F = FAIR

S = SNOW

R = RAIN

H = HOLIDAY

E = ESTIMATED

I = INNER LANE

O = OUTER LANE

1990 AADT 14789

AADT EXPANSION FACTOR 0.92

1990 AAWT 13825

AAWT EXPANSION FACTOR 0.86

AM PEAK % 5.29 HOUR ENDING 8AM

PM PEAK % 10.33 HOUR ENDING 5PM

DELAWARE VALLEY REGIONAL PLANNING COMMISSION  
HIGHWAY NETWORK COVERAGE TRAFFIC COUNT

CO. PHILADELPHIA TR 95 SB ON RAMP  
MUN. PHILA BET. PRINCETON AVE AND TR 95 SB MAP 07710000000000  
DIRECTION FLOW: SOUTH DIRECTION COUNTED: SOUTH INDEX  
TRAFFIC PATTERN: PA. 1 S.R.

HOUR ENDING	MON.	TUES.	WED. 6/27F	THURS. 6/28F	FRI. 6/29F	SAT.	SUN.
1AM				142	144		
2AM				81	104		
3AM				53	71		
4AM				59	61		
5AM				80	105		
6AM				347	342		
7AM				1172	1149		
8AM				1349	1236		
9AM				974	1038		
10AM				743	936		
11AM				681	747		
12PM				680	736		
1PM			655	694			
2PM			636	685			
3PM			771	799			
4PM			911	914			
5PM			897	902			
6PM			785	813			
7PM			618	685			
8PM			577	615			
9PM			467	509			
10PM			464	469			
11PM			356	403			
12AM			355	290			
TOTALS			7492	14144	6609		

F = FAIR 1990 AADT 13012  
S = SNOW AADT EXPANSION FACTOR 0.92  
R = RAIN  
H = HOLIDAY 1990 AAWT 12163  
E = ESTIMATED AAWT EXPANSION FACTOR 0.86  
I = INNER LANE  
O = OUTER LANE  
AM PEAK % 9.54 HOUR ENDING 8AM  
PM PEAK % 6.46 HOUR ENDING 4PM

DELAWARE VALLEY REGIONAL PLANNING COMMISSION  
HIGHWAY NETWORK COVERAGE TRAFFIC COUNT

CO. PHILADELPHIA TR 95 SB OFF RAMP

MUN. PHILA BET. TR 95 SB AND COTTMAN AVE

MAP 07710000000000  
INDEX  
TRAFFIC PATTERN: PA. 1  
S.R.

DIRECTION FLOW: SOUTH

DIRECTION COUNTED: SOUTH

HOOR ENDING	MON.	TUES.	WED. 6/27F	THURS. 6/28F	FRI. 6/29F	SAT.	SUN.
1AM				167	152		
2AM				106	96		
3AM				82	73		
4AM				58	51		
5AM				57	48		
6AM				317	300		
7AM				628	644		
8AM				1049	981		
9AM				953	892		
10AM				756	768		
11AM				610	617		
12PM				626	582		
1PM			724	743			
2PM			818	806			
3PM			822	789			
4PM			989	991			
5PM			984	1048			
6PM			1120	1116			
7PM			838	859			
8PM			708	717			
9PM			609	625			
10PM			614	639			
11PM			469	473			
12AM			306	310			
TOTALS			9001	14525	5204		

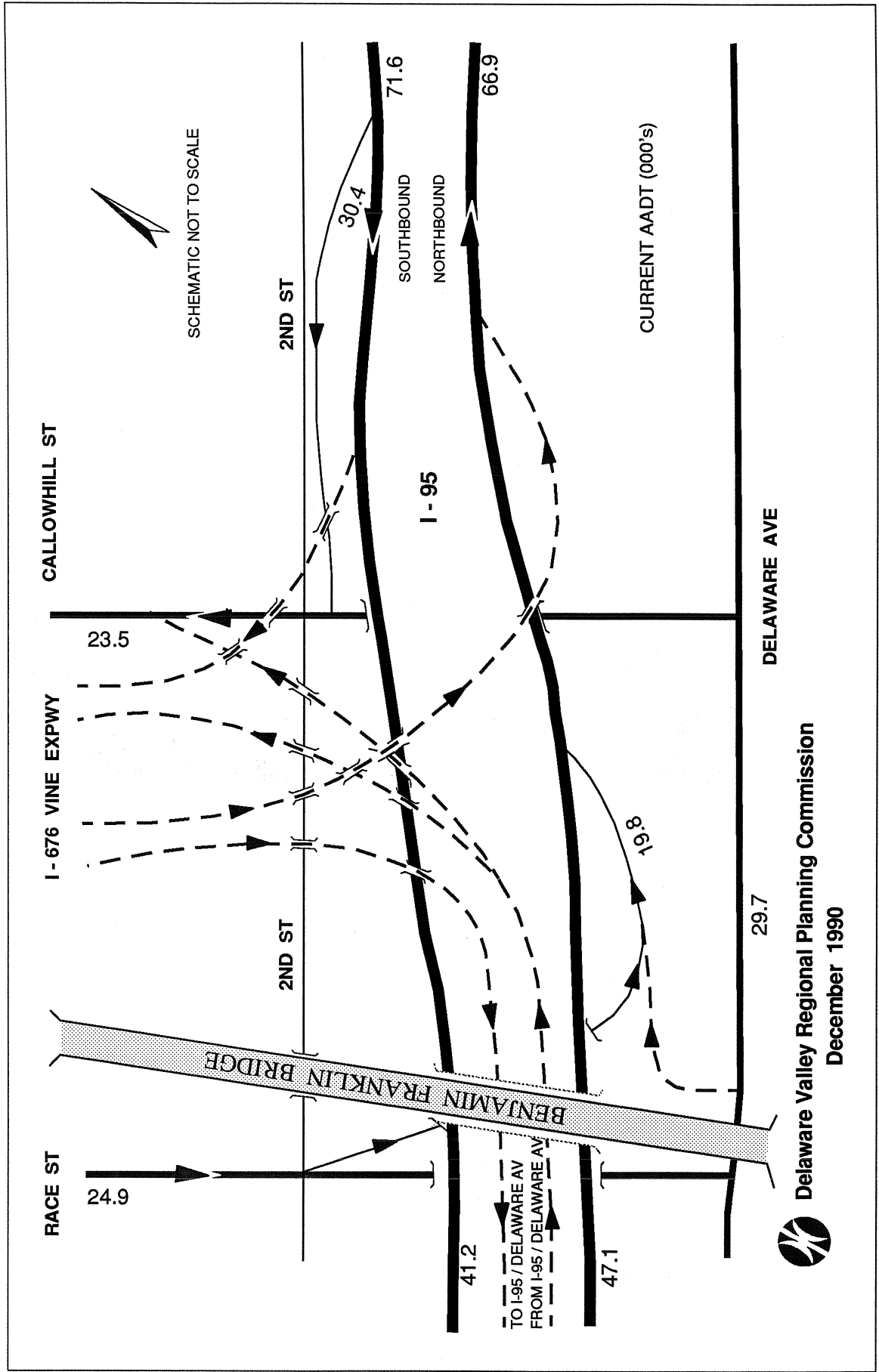
F = FAIR  
S = SNOW  
R = RAIN  
H = HOLIDAY  
E = ESTIMATED  
I = INNER LANE  
O = OUTER LANE

1990 AADT 13363  
AADT EXPANSION FACTOR 0.92  
1990 AAWT 12491  
AAWT EXPANSION FACTOR 0.86  
AM PEAK % 7.22 HOUR ENDING 8AM  
PM PEAK % 7.68 HOUR ENDING 6PM



### RACE - CALLOWHILL INTERCHANGE - PHILADELPHIA

Figure A-IV: CURRENT AVERAGE DAILY TRAFFIC VOLUMES



Delaware Valley Regional Planning Commission  
December 1990

DELAWARE VALLEY REGIONAL PLANNING COMMISSION  
HIGHWAY NETWORK COVERAGE TRAFFIC COUNT

CO. PHILADELPHIA

IR 95 NB

MUN. PHILA

BET. RACE NB CN

AND ARAMINGO OFF

MAP 09300000000000

INDEX

TRAFFIC PATTERN: PA. 1

S.R. 0095/0220

DIRECTION FLOW: BOTH

DIRECTION COUNTED: NORTH

HOUR ENDING	MON. 12/18F	TUES. 12/19F	WED. 12/20F	THURS.	FRI.	SAT.	SUN.
1AM		1216	1391				
2AM		798	820				
3AM		564	618				
4AM		485	503				
5AM		626					
6AM		1203					
7AM	2149	3121					
8AM	4434	4355					
9AM	4111	4216					
10AM	3291	3444					
11AM	3417	3430					
12PM	3558	3665					
1PM	3563	3728					
2PM	3851	3863					
3PM	4447	4551					
4PM	5756	5904					
5PM	5947	6101					
6PM	5634	5563					
7PM	4110	4107					
8PM	3102	3335					
9PM	2582	2587					
10PM	2114	2499					
11PM	2346	2973					
12AM	2631	2639					
TOTALS	67083	74973	3332				

F = FAIR

S = SNOW

R = RAIN

H = HOLIDAY

E = ESTIMATED

I = INNER LANE

O = OUTER LANE

1989 AADT 66725

AADT EXPANSION FACTOR 0.89

1989 AAHT 71224

AAHT EXPANSION FACTOR 0.95

AM PEAK % 5.81 HOUR ENDING 8AM

PM PEAK % 8.14 HOUR ENDING 5PM

DELAWARE VALLEY REGIONAL PLANNING COMMISSION  
HIGHWAY NETWORK COVERAGE TRAFFIC COUNT

CO. PHILADELPHIA TR 95 SB  
MUN. PHILA BET. ARAMINGO SB ON AND CALLOWHILL SB OFF MAP 0930000000000  
INDEX  
DIRECTION FLOW: BOTH DIRECTION COUNTED: SOUTH TRAFFIC PATTERN: PA. 1  
S.R. 0095/0221

HOOR ENDING	MGN. 12/18F	TUES. 12/19F	WED. 12/20F	THURS.	FRI.	SAT.	SUN.
1AM		739	751				
2AM		693	599				
3AM		455	476				
4AM		474	436				
5AM		639					
6AM		1868					
7AM	2696	5820					
8AM	6029	6672					
9AM	5504	5544					
10AM	5069	4942					
11AM	4125	4397					
12PM	4043	4089					
1PM	3659	3565					
2PM	3983	4056					
3PM	4467	4527					
4PM	4654	4543					
5PM	4946	5176					
6PM	4849	5026					
7PM	4032	4563					
8PM	3793	3522					
9PM	2242	2060					
10PM	1742	1544					
11PM	1660	1873					
12AM	1335	1502					
TOTALS	68868	79929	2262				

F = FAIR 1989 AACT 71136  
S = SNOW AACT EXPANSION FACTOR 0.89  
R = RAIN  
H = HOLIDAY 1989 AACT 75932  
E = ESTIMATED AACT EXPANSION FACTOR 0.95  
I = INNER LANE  
C = OUTER LANE AM PEAK % 8.35 HOUR ENDING 8AM  
PM PEAK % 6.48 HOUR ENDING 5PM

DELAWARE VALLEY REGIONAL PLANNING COMMISSION  
HIGHWAY NETWORK COVERAGE TRAFFIC COUNT

CO. PHILADELPHIA TR 95 NB ON RAMP

MUN. PHILA BET. RACE ST AND TR 95 NB

MAP 09300000000000

INDEX

TRAFFIC PATTERN: PA. 1

S.R.

DIRECTION FLOW:NORTH

DIRECTION COUNTED:NORTH

HOUR ENDING	MON.	TUES.	WED. 7/11F	THURS. 7/12F	FRI. 7/13F	SAT.	SUN.
1AM				520	454		
2AM				263	239		
3AM				233	238		
4AM				137	165		
5AM				140	164		
6AM				236	202		
7AM				650	590		
8AM				997	980		
9AM				833	800		
10AM			760	726			
11AM			838	834			
12PM			955	974			
1PM			1084	1032			
2PM			1034	1092			
3PM			1381	1420			
4PM			1884	1898			
5PM			2409	2351			
6PM			2427	2520			
7PM			1614	1665			
8PM			1129	1155			
9PM			1051	974			
10PM			930	847			
11PM			821	770			
12AM			723	748			
TOTALS			19040	23015	3832		

F = FAIR

S = SNOW

R = RAIN

H = HOLIDAY

E = ESTIMATED

I = INNER LANE

O = OUTER LANE

1990 AADT 19792

AADT EXPANSION FACTOR 0.86

1990 AAWT 21173

AAWT EXPANSION FACTOR 0.92

AM PEAK % 4.33 HOUR ENDING 8AM

PM PEAK % 10.95 HOUR ENDING 6PM

DELAWARE VALLEY REGIONAL PLANNING COMMISSION  
HIGHWAY NETWORK COVERAGE TRAFFIC COUNT

CO. PHILADELPHIA TR 95 SB OFF RAMP

MUN. PHILA BET. TR 95 SB AND CALLOWHILL ST

MAP 09300000000000  
INDEX  
TRAFFIC PATTERN: PA. 1  
S.R.

DIRECTION FLOW: SOUTH

DIRECTION COUNTED: SOUTH

HOUR ENDING	MON.	TUES.	WED. 7/11F	THURS. 7/12F	FRI. 7/13F	SAT.	SUN.
1AM				303	325		
2AM				206	188		
3AM				156	159		
4AM				147	143		
5AM				233	218		
6AM				747	712		
7AM				2634	2658		
8AM				3411	3434		
9AM				3477	3485		
10AM				2749			
11AM				2077			
12PM			1759	1675			
1PM			1574	1719			
2PM			1665	1766			
3PM			1828	1926			
4PM			1802	1812			
5PM			1858	1910			
6PM			1955	1946			
7PM			1718	1783			
8PM			1351	1352			
9PM			954	962			
10PM			1004	887			
11PM			917	836			
12AM			666	645			
TOTALS			19051	35359	11322		

F = FAIR 1990 AADT 30408  
 S = SNOW AADT EXPANSION FACTOR 0.86  
 R = RAIN  
 H = HOLIDAY 1990 AAWT 32530  
 E = ESTIMATED AAWT EXPANSION FACTOR 0.92  
 I = INNER LANE  
 O = OUTER LANE  
 AM PEAK % 9.83 HOUR ENDING 9AM  
 PM PEAK % 5.50 HOUR ENDING 6PM

		COUNT: NORTH			LR: 2001/0100
		WED	THU	FRI	
		F	F	F	
		9/27/89	9/28/89	9/29/89	
WEATHER					
DATE					
HOUR					
1 AM			111	160	
2 AM			88	115	
3 AM			48	76	
4 AM			48	53	
5 AM			57	42	
6 AM			114	142	
7 AM			401	422	
8 AM			767	726	
9 AM			817	854	
10 AM			725	750	
11 AM			719	717	
12 PM			719	753	
1 PM			804	867	
2 PM			885		
3 PM			918		
4 PM		817	1188		
5 PM		1526	1636		
6 PM		1613	1744		
7 PM		773	879		
8 PM		421	423		
9 PM		307	353		
10 PM		289	326		
11 PM		273	428		
12 AM		203	203		

PEAK HRS ENDING: 9AM ( 5.67 %) AND 6PM (12.11 %)  
 YEAR 89 AADT 12,528 FACTOR 0.87 AAWT 13,392 FACTOR 0.93 GROUP 1

WEATHER DATE HOUR	COUNTY: PHILADELPHIA				
	MON F 9/25/89	TUE F 9/26/89	WED F 9/27/89	THU	FRI
1 AM		134	199		
2 AM		64	124		
3 AM		68	77		
4 AM		73	69		
5 AM		109	97		
6 AM		256	249		
7 AM		723	829		
8 AM		1291	1376		
9 AM		1626	1688		
10 AM	1129	1407	1249		
11 AM	1063	1018			
12 PM	1032	1034			
1 PM	1051	1077			
2 PM	1167	1100			
3 PM	1175	1150			
4 PM	1312	1291			
5 PM	1567	1621			
6 PM	1472	1579			
7 PM	943	1030			
8 PM	657	763			
9 PM	499	592			
10 PM	407	492			
11 PM	449	462			
12 AM	292	339			

PEAK HRS ENDING: 9AM ( 8.43 %) AND 5PM ( 8.40 %)  
 YEAR 89 AADT 17,176 FACTOR 0.89 AAWT 18,141 FACTOR 0.94 GROUP 1

		COUNT: EAST			LR: LOCAL
		WED	THU	FRI	
		F	F	F	
		9/27/89	9/28/89	9/29/89	
WEATHER					
DATE					
HOUR					
1 AM			522	571	
2 AM			343	351	
3 AM			292	293	
4 AM			199	190	
5 AM			169	172	
6 AM			274	256	
7 AM			804	801	
8 AM			1215	1183	
9 AM			1291	1277	
10 AM		1086	1144	1084	
11 AM		1125	1233	1360	
12 PM		1247	1387	1415	
1 PM		1313	1357		
2 PM		1537	1463		
3 PM		1878	1728		
4 PM		2165	2231		
5 PM		2593	2597		
6 PM		2732	2641		
7 PM		2042	1978		
8 PM		1503	1459		
9 PM		1382	1314		
10 PM		1217	1185		
11 PM		1083	1044		
12 AM		809	805		

PEAK HRS ENDING: 12PM ( 4.84 %) AND 6PM ( 9.21 %)  
 YEAR 89 AADT 24,947 FACTOR 0.87 AAWT 26,667 FACTOR 0.93 GROUP 1

DELAWARE VALLEY REGIONAL PLANNING COMMISSION  
HIGHWAY NETWORK COVERAGE TRAFFIC COUNT

CO. PHILADELPHIA  
MUN. PHILA

CALLOWHILL ST  
BET. 2ND ST AND 3RD ST

MAP 09300000000000  
INDEX  
TRAFFIC PATTERN: PA. 1  
S.R.

DIRECTION FLOW:WEST

DIRECTION COUNTED:WEST

HOUR ENDING	MON. 11/12F	TUES. 11/13F	WED. 11/14F	THURS. 11/15F	FRI.	SAT.	SUN.
1AM		183	152	162			
2AM		104	111	111			
3AM		124	95	105			
4AM		96	100	116			
5AM		170	153	165			
6AM		467	456	461			
7AM		1824	1899	1619			
8AM		2647	2741	2513			
9AM		2743	2844	2780			
10AM		1832	1767	2142			
11AM	1272	1328	1437	1335			
12PM	1097	1236	1257				
1PM	1125	1158	1188				
2PM	1127	1235	1250				
3PM	1350	1398	1401				
4PM	1249	1396	1452				
5PM	1291	1400	1446				
6PM	1403	1452	1502				
7PM	1149	1158	1201				
8PM	788	838	835				
9PM	477	521	552				
10PM	397	476	476				
11PM	473	509	609				
12AM	343	396	411				
TOTALS	13541	24691	25335	11509			

F = FAIR  
S = SNOW  
R = RAIN  
H = HOLIDAY  
E = ESTIMATED  
I = INNER LANE  
O = OUTER LANE

1990 AADT 23456  
AADT EXPANSION FACTOR 0.95

1990 AAWT 24937  
AAWT EXPANSION FACTOR 1.01

AM PEAK % 11.11 HOUR ENDING 9AM  
PM PEAK % 5.88 HOUR ENDING 6PM





DELAWARE VALLEY REGIONAL PLANNING COMMISSION  
HIGHWAY NETWORK COVERAGE TRAFFIC COUNT

CO. DELAWARE TR 95 NB OFF RAMP

MUN. TINICUM BET. TR 95 NB AND TR 291

MAP 09200000000000

INDEX

TRAFFIC PATTERN: PA. I

S.R. LOCAL

DIRECTION FLOW:NORTH

DIRECTION COUNTED:NDRTH

HOOR ENDING	MON. 9/10F	TUES. 9/11F	WED. 9/12F	THURS.	FRI.	SAT.	SUN.
1AM		107	88				
2AM		64	55				
3AM		42	52				
4AM		39	46				
5AM		165	159				
6AM		447	450				
7AM		920	894				
8AM		1114	1042				
9AM	934	1073					
10AM	839	791					
11AM	420	402					
12PM	551	556					
1PM	590	586					
2PM	561	612					
3PM	682	727					
4PM	656	675					
5PM	665	745					
6PM	643	635					
7PM	478	500					
8PM	425	421					
9PM	319	348					
10PM	307	323					
11PM	323	306					
12AM	171	173					
TOTALS	8564	11771	2786				

F = FAIR

S = SNOW

R = RAIN

H = HOLIDAY

E = ESTIMATED

I = INNER LANE

O = OUTER LANE

1990 AADT 10240

AADT EXPANSION FACTOR 0.87

1990 AAAT 11064

AAAT EXPANSION FACTOR 0.94

AM PEAK % 9.46 HOUR ENDING 8AM

PM PEAK % 6.33 HOUR ENDING 5PM

DELAWARE VALLEY REGIONAL PLANNING COMMISSION  
HIGHWAY NETWORK COVERAGE TRAFFIC COUNT

CO. PHILADELPHIA TR 95 NB ON RAMP

MUN. PHILA BET. TR 291 SB AND TR 95

MAP 09300000000000  
INDEX  
TRAFFIC PATTERN: PA. 1  
S.R.

DIRECTION FLOW:NORTH

DIRECTION COUNTED:NORTH

HR	MON. 7/16F	TUES. 7/17F	WED. 7/18F	THURS.	FRI.	SAT.	SUN.
1AM		16	11				
2AM		2	8				
3AM		1	4				
4AM		4	3				
5AM		3	5				
6AM		12	8				
7AM		25					
8AM		30					
9AM		42					
10AM	43	42					
11AM	44	45					
12PM	30	47					
1PM	44	31					
2PM	48	58					
3PM	50	59					
4PM	79	95					
5PM	70	92					
6PM	82	105					
7PM	52	61					
8PM	39	34					
9PM	28	18					
10PM	28	18					
11PM	28	25					
12AM	19	30					
TOTALS	684	895	39				

F = FAIR  
S = SNOW  
R = RAIN  
H = HOLIDAY  
E = ESTIMATED  
I = INNER LANE  
O = OUTER LANE

1990 AADT 778  
AADT EXPANSION FACTOR 0.87

1990 AAAT 841  
AAAT EXPANSION FACTOR 0.94

AM PEAK  $\Sigma$  5.25 HOUR ENDING 12PM  
PM PEAK  $\Sigma$  11.73 HOUR ENDING 6PM

DELAWARE VALLEY REGIONAL PLANNING COMMISSION  
HIGHWAY NETWORK COVERAGE TRAFFIC COUNT

CO. PHILADELPHIA

TR 95 NB ON RAMP

MUN. PHILA

BET. ARRIVING FLT LOOP AND TR 95 NB

MAP 09300000000000

INDEX

TRAFFIC PATTERN: PA. 1

S.R.

DIRECTION FLOW:NORTH

DIRECTION COUNTED:NORTH

HOUR ENDING	MON. 7/16F	TUES. 7/17F	WED. 7/18F	THURS.	FRI.	SAT.	SUN.
1AM		138	147				
2AM		33	70				
3AM		13	18				
4AM		6	14				
5AM		2	4				
6AM		11	8				
7AM		63					
8AM		133					
9AM		281					
10AM		324					
11AM	449	465					
12PM	315	332					
1PM	309	368					
2PM	350	345					
3PM	471	424					
4PM	535	559					
5PM	440	416					
6PM	596	616					
7PM	694	709					
8PM	662	676					
9PM	609	638					
10PM	515	506					
11PM	466	486					
12AM	251	311					
TOTALS	6662	7857	261				

F = FAIR  
S = SNOW  
R = RAIN  
H = HOLIDAY  
E = ESTIMATED  
I = INNER LANE  
O = OUTER LANE

1990 AADT 6835  
AADT EXPANSION FACTOR 0.87

1990 AAWT 7385  
AAWT EXPANSION FACTOR 0.94

AM PEAK % 5.92 HOUR ENDING 11AM  
PM PEAK % 9.02 HOUR ENDING 7PM

DELAWARE VALLEY REGIONAL PLANNING COMMISSION  
HIGHWAY NETWORK COVERAGE TRAFFIC COUNT

CO. PHILADELPHIA TR 95 NB ON RAMP

MUN. PHILA BET. DEPARTING FLT LOD AND TR 95 NB

MAP 09300000000000  
INDEX  
TRAFFIC PATTERN: PA. 1  
S.R.

DIRECTION FLOW:NORTH

DIRECTION COUNTED:NORTH

HOUR ENDING	MON. 7/16F	TUES. 7/17F	WED. 7/18F	THURS.	FRI.	SAT.	SUN.
1AM		65	70				
2AM		34	37				
3AM		14	23				
4AM		9	10				
5AM		17	11				
6AM		103	97				
7AM		359					
8AM		451					
9AM		335					
10AM		282					
11AM	220	261					
12PM	281	258					
1PM	324	311					
2PM	307	321					
3PM	342	387					
4PM	434	461					
5PM	348	391					
6PM	307	356					
7PM	276	279					
8PM	223	252					
9PM	199	211					
10PM	180	176					
11PM	174	180					
12AM	130	159					
TOTALS	3745	5672	248				

F = FAIR  
S = SNOW  
R = RAIN  
H = HOLIDAY  
E = ESTIMATED  
I = INNER LANE  
O = OUTER LANE

1990 AADT 4934  
AADT EXPANSION FACTOR 0.87

1990 AAWT 5331  
AAWT EXPANSION FACTOR 0.94

AM PEAK % 7.95 HOUR ENDING 8AM  
PM PEAK % 8.13 HOUR ENDING 4PM

DELAWARE VALLEY REGIONAL PLANNING COMMISSION  
HIGHWAY NETWORK COVERAGE TRAFFIC COUNT

CO. PHILADELPHIA

TR 95 SB ON RAMP

MUN. PHILA

BET. ARRIVING FLT LOOP AND TR 95 SB

MAP 0930000000000

INDEX

TRAFFIC PATTERN: PA. 1

S.R.

DIRECTION FLOW: SOUTH

DIRECTION COUNTED: SOUTH

HOUR ENDING	MON. 7/16F	TUES. 7/17F	WED. 7/18F	THURS.	FRI.	SAT.	SUN.
1AM		52	48				
2AM		7	11				
3AM		2	1				
4AM			1				
5AM		1					
6AM		2	2				
7AM		38					
8AM		48					
9AM		119					
10AM		119					
11AM	143	180					
12PM	98	139					
1PM	143	159					
2PM	125	147					
3PM	158	175					
4PM	193	225					
5PM	199	176					
6PM	200	281					
7PM	198	292					
8PM	234	251					
9PM	196	224					
10PM	187	196					
11PM	150	173					
12AM	87	113					
TOTALS	2311	3119	63				

F = FAIR  
S = SNOW  
R = RAIN  
H = HOLIDAY  
E = ESTIMATED  
I = INNER LANE  
O = OUTER LANE

1990 AADT 2713  
AADT EXPANSION FACTOR 0.87

1990 AAAT 2931  
AAAT EXPANSION FACTOR 0.94

AM PEAK % 5.77 HOUR ENDING 11AM  
PM PEAK % 9.36 HOUR ENDING 7PM

DELAWARE VALLEY REGIONAL PLANNING COMMISSION  
HIGHWAY NETWORK COVERAGE TRAFFIC COUNT

CO. PHILADELPHIA TR 95 SB ON RAMP

MUN. PHILA BET. ISLAND AVE AND TR 95 SB

MAP 09300000000000  
INDEX  
TRAFFIC PATTERN: PA. 1  
S.R.

DIRECTION FLOW: SOUTH

DIRECTION COUNTED: SOUTH

HOUR ENDING	MON.	TUES. 7/10F	WED. 7/11F	THURS. 7/12F	FRI.	SAT.	SUN.
1AM			147	136			
2AM			97	74			
3AM			44	86			
4AM			142	144			
5AM			107	104			
6AM			208	198			
7AM			539	505			
8AM			651	592			
9AM			521	488			
10AM			458	437			
11AM			438	410			
12PM		493	436				
1PM		503	483				
2PM		508	471				
3PM		553	525				
4PM		655	661				
5PM		673	686				
6PM		703	667				
7PM		525	502				
8PM		388	373				
9PM		340	356				
10PM		307	308				
11PM		271	293				
12AM		227	211				
TOTALS		6146	9324	3174			

F = FAIR 1990 AADT 8391  
 S = SNOW AADT EXPANSION FACTOR 0.90  
 R = RAIN  
 H = HOLIDAY 1990 AAWT 8857  
 E = ESTIMATED AAWT EXPANSION FACTOR 0.95  
 I = INNER LANE  
 O = OUTER LANE  
 AM PEAK % 6.98 HOUR ENDING 8AM  
 PM PEAK % 7.36 HOUR ENDING 5PM

DELAWARE VALLEY REGIONAL PLANNING COMMISSION  
HIGHWAY NETWORK COVERAGE TRAFFIC COUNT

CO. PHILADELPHIA TR 95 SB ON RAMP

MUN. PHILA BET. DEPARTING FLT LOO AND TR 95 SB

MAP 09300000000000  
INDEX  
TRAFFIC PATTERN: PA. 1  
S.R.

DIRECTION FLOW: SOUTH

DIRECTION COUNTED: SOUTH

HOOR ENDING	MON. 7/16F	TUES. 7/17F	WED. 7/18F	THURS.	FRI.	SAT.	SUN.
1AM		11	15				
2AM		6	5				
3AM		4	1				
4AM		1	4				
5AM		4	6				
6AM		50	37				
7AM		113					
8AM		135					
9AM		126					
10AM	94	72					
11AM	78	61					
12PM	111	88					
1PM	129	95					
2PM	89	103					
3PM	133	122					
4PM	142	148					
5PM	115	130					
6PM	90	134					
7PM	99	90					
8PM	63	78					
9PM	66	50					
10PM	58	60					
11PM	58	61					
12AM	50	45					
TOTALS	1375	1787	68				

F = FAIR  
S = SNOW  
R = RAIN  
H = HOLIDAY  
E = ESTIMATED  
I = INNER LANE  
O = OUTER LANE

1990 AADT 1554  
AADT EXPANSION FACTOR 0.87

1990 AAAT 1679  
AAAT EXPANSION FACTOR 0.94

AM PEAK % 7.55 HOUR ENDING 8AM  
PM PEAK % 8.28 HOUR ENDING 4PM

DELAWARE VALLEY REGIONAL PLANNING COMMISSION  
HIGHWAY NETWORK COVERAGE TRAFFIC COUNT

CO. PHILADELPHIA TR 95 SB ON RAMP

MUN. PHILA BET. BARTRAM AVE AND TR 95 SB

MAP 0930000000000  
INDEX  
TRAFFIC PATTERN: PA. 1  
S.R.

DIRECTION FLOW: SOUTH

DIRECTION COUNTED: SOUTH

HOUR ENDING	MON. 7/16F	TUES. 7/17F	WED. 7/18F	THURS.	FRI.	SAT.	SUN.
1AM		98	88				
2AM		33	43				
3AM		42	46				
4AM		26	37				
5AM		32	25				
6AM		69					
7AM		180					
8AM		232					
9AM	226	209					
10AM	165	176					
11AM	172	198					
12PM	227	220					
1PM	294	202					
2PM	243	217					
3PM	253	244					
4PM	396	390					
5PM	562	500					
6PM	519	513					
7PM	321	304					
8PM	211	186					
9PM	148	178					
10PM	198	170					
11PM	142	167					
12AM	141	167					
TOTALS	4218	4753	239				

F = FAIR

S = SNOW

R = RAIN

H = HOLIDAY

E = ESTIMATED

I = INNER LANE

U = OUTER LANE

1990 AADT 4135

AADT EXPANSION FACTOR 0.87

1990 AAWT 4467

AAWT EXPANSION FACTOR 0.94

AM PEAK % 4.88 HOUR ENDING 8AM

PM PEAK % 10.79 HOUR ENDING 6PM

DELAWARE VALLEY REGIONAL PLANNING COMMISSION  
HIGHWAY NETWORK COVERAGE TRAFFIC COUNT

CO. PHILADELPHIA TR 95 SB OFF RAMP

MUN. PHILA BET. TR 95 SB OFF RAMP AND DEPARTING AND ARR MAP 09300000000000  
INDEX

DIRECTION FLOW:SOUTH

DIRECTION COUNTED:SOUTH

TRAFFIC PATTERN: PA. 1  
S.R. LOCAL

HOUR ENDING	MON. 9/10F	TUES. 9/11F	WED. 9/12F	THURS.	FRI.	SAT.	SUN.
1AM		108	109				
2AM		85	61				
3AM		74	52				
4AM		40	30				
5AM		92	98				
6AM		471	451				
7AM	1403	1173	1124				
8AM	1138	1037					
9AM	802	715					
10AM	783	691					
11AM	563	533					
12PM	776	712					
1PM	903	789					
2PM	808	838					
3PM	1007	1025					
4PM	835	867					
5PM	929	947					
6PM	817	782					
7PM	759	671					
8PM	700	667					
9PM	474	532					
10PM	445	481					
11PM	320	300					
12AM	221	231					
TOTALS	13683	13861	1925				

F = FAIR  
S = SNOW  
R = RAIN  
H = HOLIDAY  
E = ESTIMATED  
I = INNER LANE  
O = OUTER LANE

1990 AADT 12059  
AADT EXPANSION FACTOR 0.87

1990 AAWT 13029  
AAWT EXPANSION FACTOR 0.94

AM PEAK % 8.46 HOUR ENDING 7AM  
PM PEAK % 7.39 HOUR ENDING 3PM

DELAWARE VALLEY REGIONAL PLANNING COMMISSION  
HIGHWAY NETWORK COVERAGE TRAFFIC COUNT

CO. PHILADELPHIA TR 95 SB OFF RAMP

MUN. PHILA BET. TR 95 SB OFF RAMP AND BARTRAM AVE

MAP 09300000000000  
INDEX  
TRAFFIC PATTERN: PA. 1  
S.R.

DIRECTION FLOW: SOUTH

DIRECTION COUNTED: SOUTH

HOOR ENDING	MON. 7/16F	TUES. 7/17F	WED. 7/18F	THURS.	FRI.	SAT.	SUN.
1AM		33	29				
2AM		27	28				
3AM		33	30				
4AM		34	35				
5AM		59	60				
6AM		162					
7AM		342					
8AM		366					
9AM	410	367					
10AM	246	232					
11AM	154	179					
12PM	170	153					
1PM	169	213					
2PM	215	221					
3PM	219	234					
4PM	190	202					
5PM	180	213					
6PM	157	193					
7PM	103	107					
8PM	74	85					
9PM	102	98					
10PM	94	89					
11PM	102	103					
12AM	45	72					
TOTALS	2630	3817	182				

F = FAIR  
S = SNOW  
R = RAIN  
H = HOLIDAY  
E = ESTIMATED  
I = INNER LANE  
O = OUTER LANE

1990 AADT 3320  
AADT EXPANSION FACTOR 0.87  
1990 AAWT 3587  
AAWT EXPANSION FACTOR 0.94  
AM PEAK % 9.61 HOUR ENDING 9AM  
PM PEAK % 6.13 HOUR ENDING 3PM

DELAWARE VALLEY REGIONAL PLANNING COMMISSION  
HIGHWAY NETWORK COVERAGE TRAFFIC COUNT

CO. PHILADELPHIA ISLAND AVE NB  
MUN. PHILA BET. TR 95 RAMP AND ESSINGTON AVE MAP 0930000000000  
DIRECTION FLOW: BOTH DIRECTION COUNTED: NORTH INDEX  
TRAFFIC PATTERN: PA. 1  
S.R. 3013/0010

HOUR ENDING	MON.	TUES.	WED. 10/31F	THURS. 11/ 1F	FRI. 11/ 2F	SAT.	SUN.
1AM				272	320		
2AM				124	146		
3AM				239	234		
4AM				118	172		
5AM				99	116		
6AM				209	183		
7AM				545	546		
8AM				893	805		
9AM				821	841		
10AM				631			
11AM				603			
12PM			682	725			
1PM			685	711			
2PM			673	720			
3PM			833	781			
4PM			1269	1223			
5PM			1480	1384			
6PM			1105	1183			
7PM			684	753			
8PM			506	622			
9PM			463	491			
10PM			440	486			
11PM			420	658			
12AM			302	386			

TOTALS 9542 14677 3363

F = FAIR 1990 AADT 13209  
S = SNOW AADT EXPANSION FACTOR 0.90  
R = RAIN  
H = HOLIDAY 1990 AAWT 13943  
E = ESTIMATED AAWT EXPANSION FACTOR 0.95  
I = INNER LANE  
O = OUTER LANE

AM PEAK % 6.08 HOUR ENDING 8AM  
PM PEAK % 9.43 HOUR ENDING 5PM

DELAWARE VALLEY REGIONAL PLANNING COMMISSION  
HIGHWAY NETWORK COVERAGE TRAFFIC COUNT

CO. PHILADELPHIA ISLAND AVE SB  
MUN. PHILA BET. ESSINGTON AVE AND TR 95 RAMP MAP 09300000000000  
DIRECTION FLOW: BOTH DIRECTION COUNTED: SOUTH INDEX  
TRAFFIC PATTERN: PA. 1  
S.R. 3013/0011

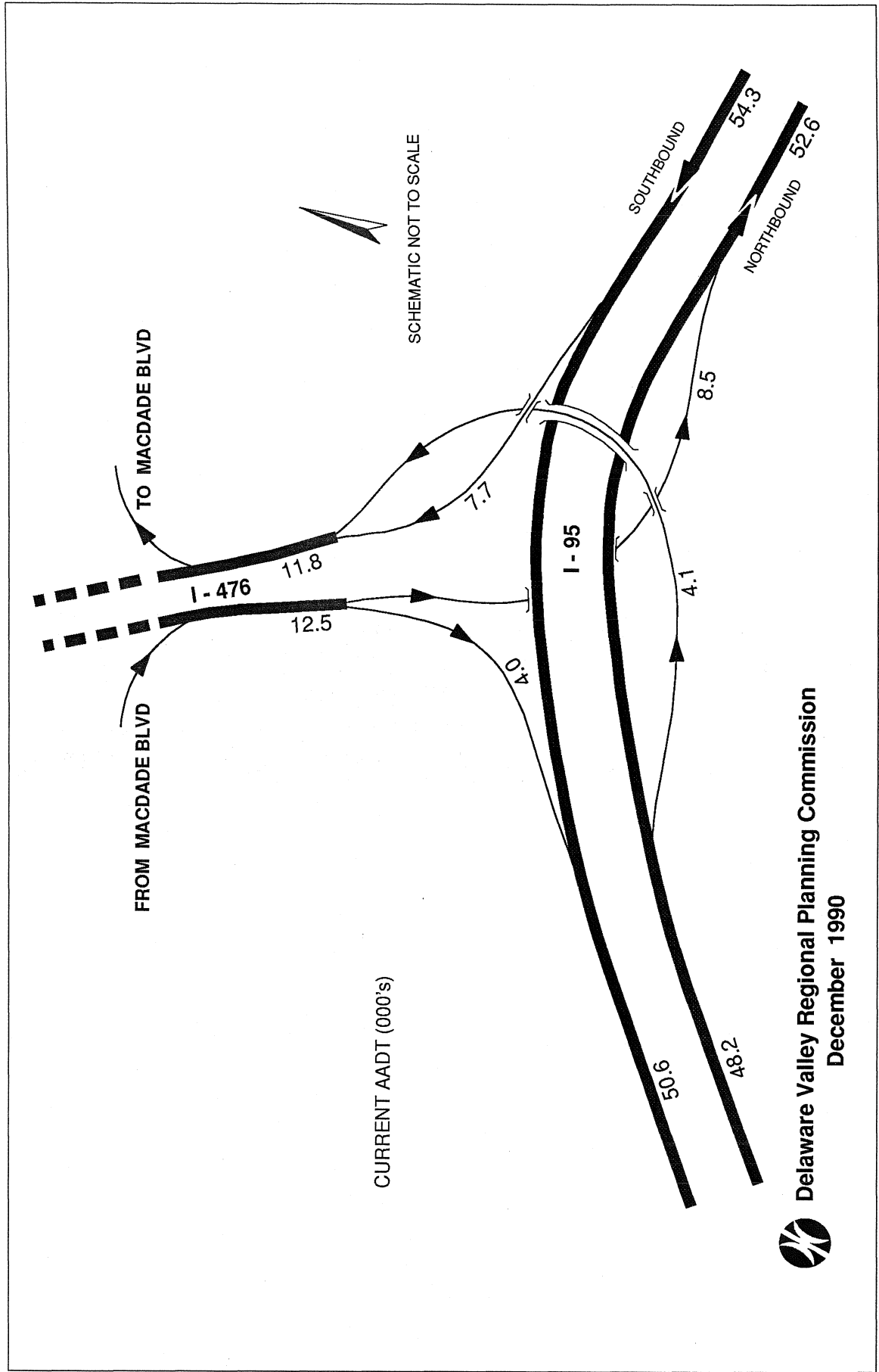
HOUR ENDING	MON.	TUES.	WED. 10/31F	THURS. 11/ 1F	FRI. 11/ 2F	SAT.	SUN.
1AM				150	151		
2AM				88	92		
3AM				69	87		
4AM				95	91		
5AM				182	185		
6AM				512	427		
7AM				1270	1205		
8AM				1350	1283		
9AM				956	976		
10AM				715			
11AM				739			
12PM			702	752			
1PM			829	848			
2PM			784	780			
3PM			863	832			
4PM			844	902			
5PM			880	934			
6PM			872	899			
7PM			612	799			
8PM			493	636			
9PM			409	457			
10PM			475	478			
11PM			515	558			
12AM			296	341			
TOTALS			8574	15342	4497		

F = FAIR 1990 AADT 13807  
S = SNOW AADT EXPANSION FACTOR 0.90  
R = RAIN  
H = HOLIDAY 1990 AAWT 14574  
E = ESTIMATED AAWT EXPANSION FACTOR 0.95  
I = INNER LANE  
O = OUTER LANE  
AM PEAK % 8.80 HOUR ENDING 8AM  
PM PEAK % 6.09 HOUR ENDING 5PM



I - 476 / MACDADE INTERCHANGE - DELAWARE COUNTY

Figure A-VI: CURRENT AVERAGE DAILY TRAFFIC VOLUMES



Delaware Valley Regional Planning Commission  
December 1990

DELAWARE VALLEY REGIONAL PLANNING COMMISSION  
HIGHWAY NETWORK COVERAGE TRAFFIC COUNT

CO. DELAWARE

TR 95 NB OFF RAMP

MUN. RIDLEY

BET. TR 95 NB

AND TR 476

MAP 10900000000000

INDEX

TRAFFIC PATTERN: PA. 1

S.R.

DIRECTION FLOW:NORTH

DIRECTION COUNTED:NORTH

HOUR ENDING	MON.	TUES. 8/ 1F	WED. 8/ 2F	THURS. 8/ 3F	FRI.	SAT.	SUN.
1AM			89	86			
2AM			43	42			
3AM			36	27			
4AM			44	20			
5AM			18	19			
6AM			57	62			
7AM			141	173			
8AM			211	183			
9AM			191				
10AM			172				
11AM			192				
12PM		214	183				
1PM		243	236				
2PM		239	224				
3PM		272	234				
4PM		357	351				
5PM		444	420				
6PM		447	445				
7PM		344	340				
8PM		280	241				
9PM		246	260				
10PM		249	254				
11PM		155	166				
12AM		130	137				
TOTALS		3620	4685	612			

F = FAIR  
S = SNOW  
R = RAIN  
H = HOLIDAY  
E = ESTIMATED  
I = INNER LANE  
O = OUTER LANE

1990 AADT 4075  
AADT EXPANSION FACTOR 0.87

1990 AAHT 4169  
AAHT EXPANSION FACTOR 0.89

AM PEAK % 4.50 HOUR ENDING 8AM  
PM PEAK % 9.50 HOUR ENDING 6PM

DELAWARE VALLEY REGIONAL PLANNING COMMISSION  
HIGHWAY NETWORK COVERAGE TRAFFIC COUNT

CO. DELAWARE I 95 NB ON RAMP

MUN. RIDLEY BET. WEAVING SECTION AND NORTH I 95

MAP 01090000000000  
INDEX  
TRAFFIC PATTERN: PA. 1  
S.R.

DIRECTION FLOW: BOTH

DIRECTION COUNTED: NORTH

HOURLY ENDING	MON.	TUES.	WED. 9/12F	THURS. 9/13F	FRI. 9/14F	SAT.	SUN.
1AM				45	50		
2AM				29	32		
3AM				29	30		
4AM				23	25		
5AM				41	35		
6AM				215	160		
7AM				1054	985		
8AM				1716	1610		
9AM				1254	1250		
10AM				860	860		
11AM			559	636			
12PM			385	370			
1PM			362	377			
2PM			336	351			
3PM			359	384			
4PM			300	329			
5PM			346	371			
6PM			463	483			
7PM			455	482			
8PM			360	335			
9PM			295	277			
10PM			220	215			
11PM			195	179			
12AM			115	110			
TOTALS			4750	10165	5037		

F = FAIR 1990 AADT 8538  
S = SNOW AADT EXPANSION FACTOR 0.84  
R = RAIN

H = HOLIDAY 1990 AAAT 9046  
E = ESTIMATED AAAT EXPANSION FACTOR 0.89  
I = INNER LANE

O = OUTER LANE  
AM PEAK % 16.88 HOUR ENDING 8AM  
PM PEAK % 4.75 HOUR ENDING 6PM

DELAWARE VALLEY REGIONAL PLANNING COMMISSION  
HIGHWAY NETWORK COVERAGE TRAFFIC COUNT

CO. DELAWARE

I 95 SB OFF RAMP AT TR 476

MUN. RIDLEY

BET. TR 95

AND TR 476

MAP 10910000000000

INDEX

TRAFFIC PATTERN: PA. 1

S.R.

DIRECTION FLOW: SOUTH

DIRECTION COUNTED: SOUTH

HOUR ENDING	MON. 10/15F	TUES. 10/16F	WED. 10/17F	THURS.	FRI.	SAT.	SUN.
1AM		336	85				
2AM		296	45				
3AM		52	41				
4AM		35	25				
5AM		27	16				
6AM		37	29				
7AM		148	140				
8AM		231	212				
9AM		283	238				
10AM		208	207				
11AM	202	214	187				
12PM	253	239					
1PM	275	261					
2PM	247	264					
3PM	301	293					
4PM	660	690					
5PM	1125	1178					
6PM	1444	1456					
7PM	753	746					
8PM	346	402					
9PM	251	298					
10PM	224	293					
11PM	164	275					
12AM	177	151					
TOTALS	6422	8413	1225				

F = FAIR  
S = SNOW  
R = RAIN  
H = HOLIDAY  
E = ESTIMATED  
I = INNER LANE  
O = OUTER LANE

1990 AADT 7655  
AADT EXPANSION FACTOR 0.91

1990 AAWT 8160  
AAWT EXPANSION FACTOR 0.97

AM PEAK % 3.99 HOUR ENDING 1AM  
PM PEAK % 17.31 HOUR ENDING 6PM

DELAWARE VALLEY REGIONAL PLANNING COMMISSION  
HIGHWAY NETWORK COVERAGE TRAFFIC COUNT

CO. DELAWARE

I 95 SB ON RAMP

MUN. RIDLEY

BET. WEAVING SECTION AND I 95

MAP 1G91C0000C0000

INDEX

TRAFFIC PATTERN: PA. 1  
S.R.

DIRECTION FLOW: SOUTH

DIRECTION COUNTED: SOUTH

HOUR ENDING	MGN.	TUES.	WED. 1/25F	THURS. 1/26F	FRI. 1/27F	SAT.	SUN.
1AM				35	45		
2AM				13	30		
3AM				18	14		
4AM				8	15		
5AM				20	12		
6AM				51	58		
7AM				292	252		
8AM				562	571		
9AM				345	335		
10AM				199			
11AM				146			
12PM			179	170			
1PM			204	185			
2PM			161	174			
3PM			234	205			
4PM			305	316			
5PM			383	407			
6PM			345	351			
7PM			273	232			
8PM			192	216			
9PM			157	138			
10PM			139	161			
11PM			122	113			
12AM			83	72			

TOTALS 2777 4429 1332

F = FAIR 1989 AADT 4030  
S = SNOW AADT EXPANSION FACTOR 0.91

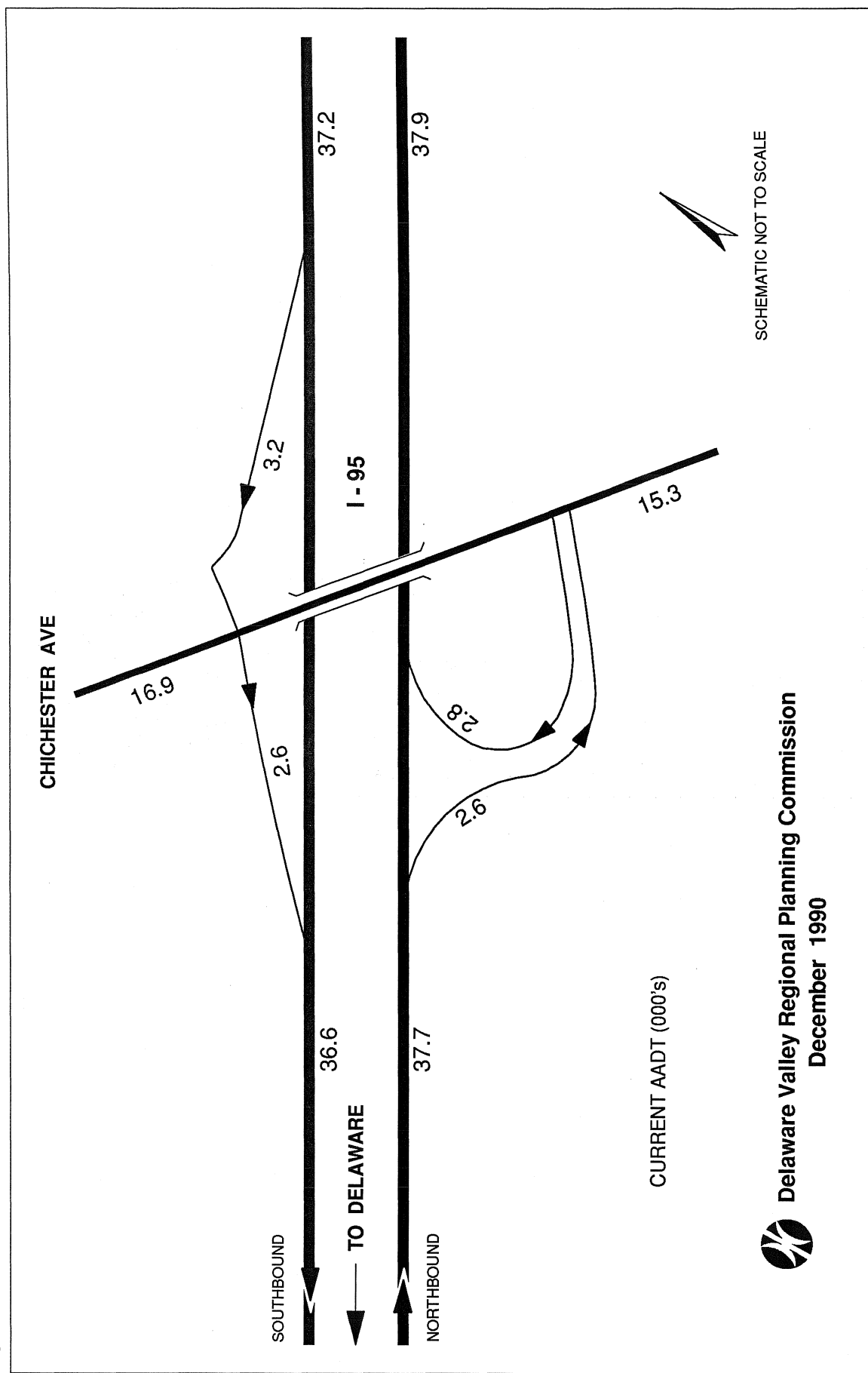
R = RAIN  
H = HOLIDAY 1989 AAAT 4650  
E = ESTIMATED AAAT EXPANSION FACTOR 1.05

I = INNER LANE  
U = OUTER LANE

AM PEAK % 12.69 HOUR ENDING 8AM  
PM PEAK % 5.15 HOUR ENDING 5PM



CHICHESTER INTERCHANGE - DELAWARE COUNTY  
Figure A-VII: CURRENT AVERAGE DAILY TRAFFIC VOLUMES



DELAWARE VALLEY REGIONAL PLANNING COMMISSION  
HIGHWAY NETWORK COVERAGE TRAFFIC COUNT

CO. DELAWARE TR 95 NB  
MUN. L CHICHESTER BET. DEL STATE LINE AND CHICHESTER RAMPS MAP 10800077040070  
INDEX  
DIRECTION FLOW:NORTH DIRECTION COUNTED:NORTH TRAFFIC PATTERN: PA. 1  
S.R.

HOUR ENDING	MON. 7/16F	TUES. 7/17F	WED. 7/18F	THURS.	FRI.	SAT.	SUN.
1AM		550	553				
2AM		421	3403				
3AM		364	340				
4AM		332	357				
5AM		558	458				
6AM		1158	1115				
7AM		2695	2755				
8AM		2862	2957				
9AM		2441	2419				
10AM		2017	1977				
11AM	2038	2185					
12PM	2299	2108					
1PM	2311	2270					
2PM	2298	2302					
3PM	2564	2454					
4PM	2734	2772					
5PM	2854	2770					
6PM	3102	3152					
7PM	2403	2450					
8PM	1929	1909					
9PM	1823	1841					
10PM	1452	1561					
11PM	1139	1175					
12AM	849	962					
TOTALS	29795	43309	16334				

F = FAIR  
S = SNOW  
R = RAIN  
H = HOLIDAY  
E = ESTIMATED  
I = INNER LANE  
O = OUTER LANE

1990 AADT 37678  
AADT EXPANSION FACTOR 0.87

1990 AAWT 40710  
AAWT EXPANSION FACTOR 0.94

AM PEAK % 6.61 HOUR ENDING 8AM  
PM PEAK % 7.28 HOUR ENDING 6PM

DELAWARE VALLEY REGIONAL PLANNING COMMISSION  
HIGHWAY NETWORK COVERAGE TRAFFIC COUNT

CO. DELAWARE TR 95 SB  
MUN. L CHICHESTER BET. CHICHESTER RAMPS AND DEL STATE LINE MAP 10800077040070  
INDEX  
DIRECTION FLOW: SOUTH DIRECTION COUNTED: SOUTH TRAFFIC PATTERN: PA. 1  
S.R.

HOUR ENDING	MON. 7/16F	TUES. 7/17F	WED. 7/18F	THURS.	FRI.	SAT.	SUN.
1AM		731	672				
2AM		381	380				
3AM		286	292				
4AM		333	299				
5AM		361	314				
6AM		714	726				
7AM		1740	1746				
8AM		3115	3043				
9AM	2655	2736					
10AM	2187	2229					
11AM	2261	2255					
12PM	2353	2371					
1PM	2395	2396					
2PM	2209	2227					
3PM	2271	2320					
4PM	2607	2631					
5PM	3055	3098					
6PM	2964	3024					
7PM	2343	2387					
8PM	1832	1845					
9PM	1471	1541					
10PM	1355	1397					
11PM	1094	1096					
12AM	855	909					
TOTALS	33907	42123	7472				

F = FAIR 1990 AADT 36647  
S = SNOW AADT EXPANSION FACTOR 0.87  
R = RAIN  
H = HOLIDAY 1990 AAWT 39595  
E = ESTIMATED AAWT EXPANSION FACTOR 0.94  
I = INNER LANE  
O = OUTER LANE AM PEAK % 7.40 HOUR ENDING 8AM  
PM PEAK % 7.35 HOUR ENDING 5PM

DELAWARE VALLEY REGIONAL PLANNING COMMISSION  
HIGHWAY NETWORK COVERAGE TRAFFIC COUNT

CO. DELAWARE

TR 95 NB OFF RAMP

MUN. U CHICHESTER

BET. TR 95 NB

AND CHICHESTER AVE

MAP 10800000000000

INDEX

TRAFFIC PATTERN: PA. 1

S.R.

DIRECTION FLOW:NORTH

DIRECTION COUNTED:NORTH

HOUR ENDING	MON.	TUES.	WED. 7/18F	THURS. 7/19F	FRI. 7/20F	SAT.	SUN.
1AM				43	50		
2AM				23	25		
3AM				16	15		
4AM				13	19		
5AM				17	11		
6AM				31	36		
7AM				122	119		
8AM				214			
9AM				137			
10AM				97			
11AM				146			
12PM			133	136			
1PM			162	181			
2PM			170	155			
3PM			176	169			
4PM			213	237			
5PM			259	266			
6PM			304	276			
7PM			171	160			
8PM			129	153			
9PM			137	164			
10PM			111	137			
11PM			92	94			
12AM			73	65			

TOTALS 2130 3052 275

F = FAIR

S = SNOW

R = RAIN

H = HOLIDAY

E = ESTIMATED

I = INNER LANE

O = OUTER LANE

1990 AADT 2594  
AADT EXPANSION FACTOR 0.85

1990 AAWT 2716  
AAWT EXPANSION FACTOR 0.89

AM PEAK % 7.01 HOUR ENDING 8AM  
PM PEAK % 9.04 HOUR ENDING 6PM

DELAWARE VALLEY REGIONAL PLANNING COMMISSION  
HIGHWAY NETWORK COVERAGE TRAFFIC COUNT

CO. DELAWARE TR 95 NB ON RAMP  
MUN. U CHICHESTER BET. CHICHESTER AVE AND TR 95 NB MAP 10800000000000  
DIRECTION FLOW=NORTH DIRECTION COUNTED:NORTH INDEX  
TRAFFIC PATTERN: PA. 1  
S.R.

HOUR ENDING	MON.	TUES.	WED. 7/18F	THURS. 7/19F	FRI. 7/20F	SAT.	SUN.
1AM				37	33		
2AM				16	18		
3AM				9	17		
4AM				16	16		
5AM				23	28		
6AM				129	111		
7AM				310	307		
8AM				328			
9AM				249			
10AM				148			
11AM				157			
12PM			163	135			
1PM			111	159			
2PM			153	177			
3PM			186	180			
4PM			153	172			
5PM			191	189			
6PM			130	145			
7PM			164	154			
8PM			109	149			
9PM			127	151			
10PM			106	95			
11PM			104	102			
12AM			63	81			

TOTALS 1760 3311 530

F = FAIR 1990 AADT 2814  
S = SNOW AADT EXPANSION FACTOR 0.85  
R = RAIN  
H = HOLIDAY 1990 AAWT 2946  
E = ESTIMATED AAWT EXPANSION FACTOR 0.89  
I = INNER LANE  
O = OUTER LANE AM PEAK % 9.91 HOUR ENDING 8AM  
PM PEAK % 5.71 HOUR ENDING 5PM

DELAWARE VALLEY REGIONAL PLANNING COMMISSION  
HIGHWAY NETWORK COVERAGE TRAFFIC COUNT

CO. DELAWARE TR 95 SB OFF RAMP  
MUN. U CHICHESTER BET. TR 95 SB AND CHICHESTER AVE MAP 1080000000000  
DIRECTION FLOW: SOUTH DIRECTION COUNTED: SOUTH INDEX  
TRAFFIC PATTERN: PA. 1  
S.R.

HOUR ENDING	MON.	TUES.	WED. 7/18F	THURS. 7/19F	FRI. 7/20F	SAT.	SUN.
1AM				59	66		
2AM				35	31		
3AM				18	23		
4AM				14	10		
5AM				9	18		
6AM				32	34		
7AM				142	137		
8AM				271			
9AM				140			
10AM				131			
11AM			141	153			
12PM			145	143			
1PM			164	176			
2PM			143	177			
3PM			163	180			
4PM			323	303			
5PM			419	428			
6PM			391	403			
7PM			219	227			
8PM			164	189			
9PM			177	147			
10PM			128	119			
11PM			114	134			
12AM			92	94			
TOTALS			2783	3724	319		

F = FAIR  
S = SNOW  
R = RAIN  
H = HOLIDAY  
E = ESTIMATED  
I = INNER LANE  
O = OUTER LANE

1990 AADT 3165  
AADT EXPANSION FACTOR 0.85  
1990 AAAT 3314  
AAAT EXPANSION FACTOR 0.89  
AM PEAK 4 7.28 HOUR ENDING 8AM  
PM PEAK 4 11.49 HOUR ENDING 5PM

DELAWARE VALLEY REGIONAL PLANNING COMMISSION  
HIGHWAY NETWORK COVERAGE TRAFFIC COUNT

CO. DELAWARE TR 95 SB ON RAMP

MUN. U CHICHESTER BET. CHICHESTER AVE AND TR 95 SB

MAP 10800000000000

INDEX

TRAFFIC PATTERN: PA. 1  
S.R.

DIRECTION FLOW: SOUTH

DIRECTION COUNTED: SOUTH

HOUR ENDING	MON.	TUES.	WED. 7/18F	THURS. 7/19F	FRI. 7/20F	SAT.	SUN.
1AM				43	52		
2AM				21	41		
3AM				25	25		
4AM				16	24		
5AM				16	25		
6AM				62	67		
7AM				140	165		
8AM				235			
9AM				178			
10AM				128			
11AM			171	166			
12PM			176	120			
1PM			167	145			
2PM			152	172			
3PM			179	175			
4PM			174	175			
5PM			239	209			
6PM			235	237			
7PM			155	245			
8PM			137	183			
9PM			143	143			
10PM			105	100			
11PM			82	116			
12AM			58	40			
TOTALS			2173	3090	399		

F = FAIR  
S = SNOW  
R = RAIN  
H = HOLIDAY  
E = ESTIMATED  
I = INNER LANE  
O = OUTER LANE

1990 AADT 2626  
AADT EXPANSION FACTOR 0.85

1990 AAHT 2750  
AAHT EXPANSION FACTOR 0.89

AM PEAK % 7.61 HOUR ENDING 8AM  
PM PEAK % 7.93 HOUR ENDING 7PM

DELAWARE VALLEY REGIONAL PLANNING COMMISSION  
HIGHWAY NETWORK COVERAGE TRAFFIC COUNT

CO. DELAWARE

CHICHESTER AVE

MUN. U CHICHESTER

BET. TR 322

AND TR 95

MAP 10810037006000  
INDEX

TRAFFIC PATTERN: PA. 1  
S.R. 3009/0040

DIRECTION FLOW:BOTH

DIRECTION COUNTED:BOTH

HOUR ENDING	MON.	TUES. 10/30F	WED. 10/31F	THURS. 11/ 1F	FRI.	SAT.	SUN.
1AM			153	170			
2AM			72	84			
3AM			56	77			
4AM			37	46			
5AM			82	84			
6AM			270	261			
7AM			1071	1043			
8AM			1522	1509			
9AM			1069	977			
10AM			920	872			
11AM			904	850			
12PM			901	953			
1PM		913	908	1060			
2PM		920	1009	984			
3PM		1107	1138				
4PM		1321	1321				
5PM		1610	1778				
6PM		1517	1496				
7PM		1010	1080				
8PM		992	1003				
9PM		708	934				
10PM		593	739				
11PM		446	473				
12AM		351	325				
TOTALS		11488	19261	8970			

F = FAIR  
S = SNOW  
R = RAIN  
H = HOLIDAY  
E = ESTIMATED  
I = INNER LANE  
O = OUTER LANE

1990 AADT 16949  
AADT EXPANSION FACTOR 0.88

1990 AAWT 20031  
AAWT EXPANSION FACTOR 1.04

AM PEAK % 7.90 HOUR ENDING 8AM  
PM PEAK % 9.23 HOUR ENDING 5PM

DELAWARE VALLEY REGIONAL PLANNING COMMISSION  
HIGHWAY NETWORK COVERAGE TRAFFIC COUNT

CO. DELAWARE

CHICHESTER AVE

MUN. U CHICHESTER

BET. TR 95

AND 9TH ST

MAP 10810056000039

INDEX

TRAFFIC PATTERN: PA. 1

S.R. 3009/0020

DIRECTION FLOW:BOTH

DIRECTION COUNTED:BOTH

HOUR ENDING	MON.	TUES. 10/30F	WED. 10/31F	THURS. 11/ 1F	FRI.	SAT.	SUN.
1AM			99	157			
2AM			60	77			
3AM			56	59			
4AM			23	33			
5AM			52	54			
6AM			141	147			
7AM			878	800			
8AM			1321	1323			
9AM			919	871			
10AM			798	783			
11AM			835	815			
12PM			840	849			
1PM			937	1016			
2PM		911	981	865			
3PM		1051	1093	986			
4PM		1167	1232				
5PM		1317	1494				
6PM		1406	1415				
7PM		1061	1009				
8PM		871	926				
9PM		618	883				
10PM		517	700				
11PM		382	460				
12AM		311	281				
TOTALS		9612	17433	8835			

F = FAIR  
S = SNOW  
R = RAIN  
H = HOLIDAY  
E = ESTIMATED  
I = INNER LANE  
O = OUTER LANE

1990 AADT 15341  
AADT EXPANSION FACTOR 0.88

1990 AAHT 18130  
AAHT EXPANSION FACTOR 1.04

AM PEAK % 7.58 HOUR ENDING 8AM  
PM PEAK % 8.57 HOUR ENDING 5PM

