Miami River Corridor





MULTI-MODAL TRANSPORTATION PLAN
APPENDICES

PREPARED FOR

MIAMI-DADE MPO Metropolitan Planning Organization

Miami River Commission

Photo by Faroy Aerial Projects

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Referenced Web Sites

- 2007 TIP: http://www.miamidade.gov/mpo/docs/MPO_tip_2007.pdf

- Florida Intracoastal and Inland Waterway Study
  http://www.dot.state.fl.us/publictransportation/Documents/WaterwayStudy/FIIWS%20Final%20Report.pdf

- Bicycle Safety Program Plan Report
  http://www.miamidade.gov/mpo/docs/MPO_bike_safety_plan_final_200603.pdf#search=%22Bicycle%20Safety%20Program%20Plan%20Report%22

- Miami-Dade 2030 Long Range Transportation Plan (LRTP),
  http://www.miamidade.gov/mpo/lrtp2030/PDFs/Miami-Dade%20Long%20Range%20Transportation%20Plan-Final.pdf

- Utilization of Miami-Dade County Waterways for Urban Commuting Travel
  http://www.miamidade.gov/mpo/docs/MPO_waterborne_service_es_2005.pdf#search=%22Miami-Dade%20County%20Waterways%20for%20Urban%20Commuting%20Travel%20%22

- Miami River Greenway Action Plan
  http://www.tpl.org/content_documents/ACF20A5.pdf

- Development of a Service Plan for Waterborne Transportation Service in Miami-Dade County:
  http://www.miamidade.gov/mpo/docs/MPO_waterborne_service_final_2005.pdf

- Miami Downtown Transportation Master Plan
  http://www.miamidade.gov/mpo/docs/MPO_dtmp_final_2003.pdf

- Comparing Cost of Options for reconstructing the 12th and 27th Avenue Bridges over the Miami River:
  http://www.miamirivercommission.org/PDF/tunnel%20study.pdf

- Freight Transportation – Short Sea Shipping:
  http://www.gao.gov/new.items/d05768.pdf#search=%22Freight%20transportation%20short%20sea%20shipping%22

- City of Miami Initial Streetcar Corridor Feasibility Study

  http://www.ci.miami.fl.us/MiamiStreetcar/pages/Study.asp

- Miami River Corridor Urban Infill Plan:
  http://www.rsmas.miami.edu/groups/mrc/PDF/UIP-Final.pdf

APPENDIX H:
Status of the
Miami River Corridor
Urban Infill Plan
Transportation Related
Implementation Steps

Status of *Miami River Corridor Urban Infill* Plan Transportation Implementation Steps

- Request the City of Miami and Miami-Dade County and FDOT to pursue multi-modal transportation funding for the Miami River Corridor.
    - The Florida Department of Transportation (FDOT) provides the majority of multi-modal transportation funding to areas designated in the Strategic Intermodal System (SIS) Plan. This *Miami River Corridor Multi-modal Transportation Plan* concludes the Miami River corridor can be determined as consistent with the current SIS eligibility requirements, which can be found in the SIS section of the *Plan.* If FDOT approves an application for the Miami River corridor to be designated a SIS facility, then the Corridor could become eligible for additional transportation funding.

- Request the City of Miami, Miami-Dade County and the Florida Department of Transportation to study a realignment of North River Drive, between I-95 and the SW 1st Street Bridge, to create a deeper contiguous site for development along the River.
    - This area's proposed "Miami River Lofts" mixed use / residential development, which was originally presented for this area several years ago, has been modified to a new mixed-use / marina proposal. A detailed traffic circulation plan would have to be developed during site planning to demonstrate that traffic flow would not be impeded.

- Request the City of Miami and Miami-Dade County to initiate roadway engineering analysis along North River Drive from NW 5th Avenue to NW 7th Avenue to modify or possibly abandon this portion of North River Drive for vehicular use, in lieu of an expanded greenway or new development.
    - FDOT appropriated $44 million for the MRC recommended replacement of the NW 5th Street Bridge, which commenced in March 2007. Congress appropriated an additional $2.6 million to construct a new Riverwalk in this area in conjunction with the NW 5th Street Bridge Replacement. On the north side, the Riverwalk will commence on North River Drive near NW 6th Avenue, proceed beneath the new NW 5th Street Bridge, turn north parallel with the bridge's northwest side, proceed north on NW 7th Avenue to connect with the fixed bridge over the Seybold Canal leading into the Spring Garden neighborhood. Upon completion of this funded riverwalk construction, further consideration should be given to any potential for this implementation steps recommendation. A detailed traffic circulation plan would have to be developed during site planning to demonstrate that traffic flow would not be impeded.

- Request the City of Miami, Miami-Dade County and FDOT to initiate roadway engineering analysis along South River Drive at the NW 5th Street Bridge to develop an intersection configuration that addresses the needs of the shipping industry and the local neighborhoods.
    - FDOT appropriated $44 million for the MRC recommended replacement of the NW 5th Street Bridge, which commenced in March 2007. Congress appropriated an additional $2.6 million to construct a new Riverwalk in this area in conjunction

with the NW 5th Street Bridge replacement project. On this south side, the Riverwalk will commence at the planned South River Drive on-road greenway to the east of the Bridge, and proceed west beneath the bridge. This Plan recommends the Riverwalk continue south west, parallel with the new bridge, to connect with the planned on-road greenway continuing west along South River Drive.
    - Additional recommendations for this intersection can be found page 106 of the *Plan*.

- Request Miami-Dade County to replace the 1941 swing bridge on the Delaware Parkway (South River Drive) over the Tamiami Canal.
    - The Tamiami Canal Swing Bridge PD&E commenced in 2005. On November 2, 2004 Miami-Dade residents approved the County's General Obligation Bond Issue, which included $19 million to replace the bridge. A South Florida Water Management District flow study found the existing bridge structure is built into the Tamiami Canal (C-4), therefore negatively impacting the ability to provide sufficient flow. This recommendation is included in the Upper River Section TIP and GOB projects.

- Request the City of Miami, Miami-Dade County and FDOT to initiate roadway engineering analysis along NW 12th Avenue from NW 7th Street to the Miami River to improve access to properties on the east side of NW 12th Avenue.
    - FDOT appropriated over $55 million to replace the NW 12th Avenue Bridge, which commenced several months ago. Plans for the implementation steps referenced areas to the east of the NW 12th Avenue Bridge include a portion of the Merrill-Stevens yachts expansion, including a marine vocations school, and the approved "Rio Miami" development, including 576 residential units at 1001 NW 7 ST.
    - Improvements to NW 12th Avenue can be located started on page 90 of the Plan.

- Request the City of Miami, Miami-Dade County and FDOT to initiate roadway engineering analysis along South River Drive from NW 27th Avenue to NW 20th Street to allow for a waterfront greenway and associated development.
    - Since this implementation step was recommended, the City Commission approved a proposed 1,600 residential development in this area, located at 1850 Delaware Pkwy, called "Miami River Rapids."
    - The City owned shoreline and right of way in this vicinity, along North River Drive between NW 27th Avenue and NW 20th Street, provides an excellent riverwalk opportunity. However, a detailed traffic circulation plan would have to be developed during site planning to demonstrate that traffic flow would not be impeded.

- Request the City of Miami to establish urban design standards for pedestrians on streets within the Miami River Corridor to encourage a walk-able community.
    - The City of Miami is including this recommendation citywide via the creation of Miami 21, which includes urban design standards for pedestrians to encourage walk-able communities. This recommendation is highly encouraged by this Plan and included in all sections of the Corridor in the Bicycle, Pedestrian and Greenways sections.

- Request the City of Miami to develop a comprehensive traffic-calming plan for the Miami River Corridor.
    - Implementing this Miami River Corridor Multi-Modal Transportation Plan may help to result in significant "traffic calming". For example, this Plan's recommended two-way conversions may help to reduce vehicular speeds. However, to successfully complete this task, additional cut-through and speeding concerns should be identified and studied.

- Request that FDOT, Miami-Dade County and MPO analyze the viability of a tunnel as an alternative to a bridge for future high volume river crossings.
    - This recommendation was previously studied and determined to be not financially feasible at this time. Financial investments continue to be made in upgrading existing bridge infrastructure.
    - The Downtown Transportation Master Plan prioritizes a downtown River Tunnel, and was adopted by the MPO and City Commission in May 2003. In addition, the MRC contracted economists, which conducted a comparative cost analysis of bridges and tunnels for the NW 12th Ave. and NW 27th Ave. Bridges. The study found that over a 70-year life cycle, tunnels at these locations would be $1.46 million less expensive than bridges. The study was forwarded to the FDOT, MPO, City and County. Since then, the City of Miami hired consultants to conduct a cost feasibility study for a location at 1st Ave, which concluded the benefits did not outweigh the construction costs.

- Request that all transportation agencies adopt a minimum height of 23 feet clearance for bascule bridges and 75 feet for fixed bridges.
    - Current plans for the MIC- Earlington Heights Metrorail fixed-bridge, call for an approximate 40 foot clearance. Although the recommended vertical clearance would reduce the number of bridge openings which temporarily stop vehicular traffic while open, and temporarily stop marine traffic when locked down in rush hour periods, the right-of-way necessary for the recommended clearances was to great to provide at the new NW 5 Street bascule bridge or the proposed upper river fixed bridges.

- Request that the City and County identify infrastructure needs and available funding for the Miami River Corridor and incorporate them into the future Capital Improvement Plans.
    - This Plan recommends infrastructure throughout the Corridor. The recommendation to include these infrastructure projects in Capital Improvement Plans can be found in the Miami River Corridor Multi-modal Transportation Plan conclusion. Since this implementation step was originally recommended, the City, County and State have identified, funded and constructed well over $100 million of new Transportation infrastructure projects within the Miami River Corridor. Significant Capital Improvement Projects within the Miami River Corridor are funded in Miami Dade County's 2004 Bond Issue, City's Homeland Defense and Neighborhood Improvement Bond Issue, portions of the County's Transportation ½ penny sales tax, and FDOT Transportation Improvement Program. These allocations are outlined in the Miami River Commission's "5-Year Integrated Budget."

- Request MPO and MDTA prepare a feasibility study for a transit connector from the Orange Bowl to the Jackson Memorial Medical Campus.
    - The recommended transit connector may link the planned street car in the civic center area with the orange bowl and Robert King High senior center at 1407 NW 7th Street. Therefore, the City and County should further consider providing this recommended transit connector.

- Request MPO and MDTA extend the hours of operation for all Metro Mover Stations in the Miami River Corridor until midnight.
    - Metromover commenced operation until midnight in June 2003. MDTA should consider further expanding Metromover and Metrorail hours of operation, as increased demand warrants.

- Request MPO and MDTA partner with the property owner of the 'River Renaissance Site' to develop a new Metrorail Station between the River and SW 3rd Street.
    - The adjacent developments, consisting of 3,000 residential units in seven new buildings, are currently under construction. Although a new Metrorail station is not being incorporated directly into the site, the Government Center Metrorail station is only a few blocks north of the site.

- Request MPO and MDTA establish a dedicated revenue source to leverage federal funds to develop a comprehensive transit system that serves the river community.
    - Since this implementation step was recommended, the ½ penny sales tax for transportation was approved at referendum, and will be used to leverage federal funds. A portion of the new dedicated transportation tax revenue will be used for Miami River corridor projects.

- Request local government cooperation to enhance watercraft transportation including the creation of watertaxi and waterbus service.
    - This recommendation is included in the Plan, in the Public Waterborne Transit section along the entire length of the Corridor. The service should connect river corridor residents with employment centers in downtown, Health District, marine Industrial areas, and residents and tourists alike with the River's various restaurants and parks.
    - The MPO has received three responses from the private sector to create a public private partnership for a prototype waterbus service, with the southern terminus at the mouth of the Miami River. The MPO concluded the Phase II Waterborne Transportation Study, and found a Miami River Waterbus route to be feasible.

- Request local government cooperation to enhance watercraft transportation by maintaining existing and providing for new boat slips.
    - This recommendation is included in the Freight section in all areas of the Corridor.
    - Since this implementation step was recommended, in 2005 Miami-Dade County created a Miami River "Boat Slip Bank" covenant policy so that slips may be relocated from one site to another on the River, rather than incurring a net loss of slips.

- Request Miami-Dade County, City of Miami, MRC and FDOT to partner and establish development guidelines and review procedures for the MIC associated development.
    - Miami-Dade County, FDOT, MRC, MRMG and area stakeholders are preparing to launch a planning process to create an "Upper River Plan," which would lead to the creation of the recommended establishment of the Miami Intermodal Center (MIC) associated development area's guidelines and review procedures. The MIC is currently under construction; therefore, guiding appropriate development in the areas adjacent to the MIC should be considered at this time. Potential uses include a state-of-the-art cargo handling facility, to include customs clearing, on-site break bulk handling / warehousing / loading, cold storage, secure rail link to MIA cargo facilities, truck depot, etc.

APPENDIX G:
Miami River Developments And Miami River Greenway Virtual Tour within the DDA Boundary

Miami River Developments

Miami River Development Projects April 2007

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The following "Miami River Development Project List" is a reflection of riverfront properties that have either a) completed construction; b) commenced construction; or c) currently undergoing permitting and/or design phase. The following data was compiled by MRC staff based on information provided by developers, architects and a variety of sources associated with each distinct project. Please note projects are listed geographically from east to west.

Developments can be located in the Plan on Figures 4 A-C

1) Project Name: **One Miami**
Location: North bank of Miami River and Biscayne Bay (directly at mouth of river) 205 South Biscayne Blvd
Contact: www.one-miami.com
Sales office (305) 373-3737, 229 SE 2nd Street.
Developer: Related Group of Florida, (305) 460-9900
Architect: Arquitectonica, Bernardo Fort-Brescia, (305) 372-1812
Description: Twin 45 story residential towers w/parking, connected to a new $4.1 million publicly accessible Riverwalk north shore trailhead.
Units: 896, one, two and three bedroom residences
Status: Construction completed

2) Project Name: **Courts Brickell Key**
Location: Brickell Key
Contact: Megan Kelly, (305) 371-3877
Developer: Swire Properties
Description: 34 stories, priced from $250-550,000, connected to Riverwalk
Units: 319 condominium apartments
Status: Opened January 2003

3) Project Name: **Carbonell**
Location: Brickell Key
Contact: Megan Kelly, (305) 371-3877
Developer Swire Properties
Description: 40 stories
Units: 284 residential units
Architect: J. Scott Architecture, (305) 375-9388
Status: completed in November 2005

4) Project Name: **Asia**
Location: Brickell Key
Contact: Megan Kelly (305) 371-3877
Developer: Swire Properties
Description: 450 feet tall residential development, featuring publicly accessible riverwalk
Units: 123 residential units
Architect: J. Scott Architecture, (305) 375-9388
Status: Under Construction, expected completion is February 2007

5) Project Name: **Epic (former Dupont Plaza site)**
Location: 300 Biscayne Blvd Way
Contact: Sales Office (305) 400-7399; www.epicmiami.com
Attorney: Adrienne Pardo, Greenberg, Trauig (305) 579-0717, 1221 Brickell Ave, Miami, FL 33131
Developer: Lionstone Hotels and Resorts, Gabriel Boano, VP of Development, 2901 Collins Ave, Miami Beach, FL 33140, (305) 672-5466, & CMC Construction, Timothy Wensing, 701 Brickell Ave, Suite 3150, Miami, FL 33131, (305) 372-0550, twensing@cmcconstruction.com
Architect: Luis O. Revuelta, Revuelta Vega Leon P.A., 2560 SW 27 Ave, Miami, FL 33133
(305) 529-2022, irevuelta@rvlarch.com
Description: Two high density buildings, one with residential and the second with some hotel units, mixed uses with retail and restaurants on the first floor connecting to publicly accessible riverwalk
Units: 596 residential units
Status: Major Use Special Permit Approved; site cleared; commenced construction

6) Project Name: **Brickell on the River**
Location: 25 SE 5th Street, south bank of river immediately west of the Customs Office
Contact:Sales center located at 1390 Brickell Ave, (305) 381-9220; www.brickellontheriver.com
Developer: Groupe Pacific, Michael Bedzow, (305) 373-8356
Architect: Cohen, Freedman, Encinosa & Associates Architects, (305) 826-3999
Description: Twin Residential Towers, 42 stories each, connected to a new 50-foot wide publicly accessible Riverwalk section with Café's and fountains
Units: 712 residential units
Status: Major Use Special Permit approved, Phase I completed; Phase II under construction

7) Project Name: **One River View Square**
Location: North Bank of River just east of Miami Avenue Bridge
Contact: Panther Reality, (954) 525-9292
Developer: Miami River Associates, (305) 995-8957; Prior developer: Panther Real Estate Partners
Description: 8 stories, total floor space 166,227 S.F., first floor retail, restaurant connecting to new publicly accessible Riverwalk section; remaining floors office and Immigration Courthouse
Status: Opened June 2004

8) Project Name**: Approved MUSP Named Riverfront East and West**
Location: North bank of River just west of Miami Avenue Bridge
Riverfront East: Phase I (WIND), Phase II (CIMA)
Developer/Contact: Sales office for Neo LLC, 1637 SW 8th Street, Miami FL 33135, (305) 285-1418, www.neollc.com
Architect: Luis O. Revuelta, Revuelta Vega Leon P.A., 2560 SW 27 Ave, Miami, FL 33133
(305) 529-2022, irevuelta@rvlarch.com
Description: Phase I aka **WIND**-41 stories, 498 residential units and 9,000 square ft of commercial space. Completion date Summer 2007; www.windbyneoepochy.com/. Phase II aka **CIMA**-47 stories, 471 residential units, 17,000 square ft of commercial space; Completion date Summer 2008; www.cimamiami.com.
Riverfront East: Phase III (Yet-to-be-Named)
Developer/Contact: Tony Cabrera, The Epoch Corporation (305) 445-2800
Architect: Borges and Associates, (305) 374-9216
Status of Riverfront East: Major Use Special Permits approved 1/2004.
Riverfront West: Phase I (IVY), Phase II (MINT), Phase III and IV (Yet-to-be-Named)
Location: 92 SW Third Street
Developer: Key International, (305) 377-1001, 848 Brickell Avenue, Suite 700; Sales office (305) 377-1000
Architect: Luis O. Revuelta, Revuelta Vega Leon P.A., 2560 SW 27 Ave, Miami, FL 33133
(305) 529-2022, irevuelta@rvlarch.com
Description: Phase I aka IVY-47 stories, 498 one, two, and three-bedroom residential units; Phase II aka MINT-56 stories, 602 one, two and three-bedroom penthouses and townhomes. Completion date Summer 2009; www.mintatriverfront.com.
Status: Wind, Cima, and Ivy under construction

9) Project: **Neo Vertika**
Location: 690 SW 1st Ave (Miami River's south shore, just west of Metro-Rail)
Contact: Sales Office, (305) 285-1418
Developer: NEO Concepts, Lysette Calderon; www.neollc.com.
Architect: Luis Revuelta, Revuelta & Associates, (305) 529-1080
Description: mixed use/residential 36 story building with 24,000 square feet of commercial uses, recreational amenities, 575 parking spaces, 50 foot setback from the river, restaurants and retail connecting to 20 foot wide publicly accessible riverwalk.
Units: 443 residential units
Status: Completed construction

10) Project Name: **Latitude on the River**
Location: 615 SW 2 Ave
Contact: Sales Center located at 1492 South Miami Avenue (305) 856-3456; Website: www.latitudemiami.com
Owner / Developer: Steve Gelb, Edward A. Fish Associates, LLC, (561) 804-9901
Architect: Arquitectonica, Bernardo Fort-Brescia, (305) 372-1812
Description: The approved Major Use Special Permit consists of a 42 story, building facing the river with a restaurant on the first floor connecting to a 20-foot wide publicly accessible riverwalk, a office building fronting SW 7 ST with retail on the first floor, and the historic art deco building currently on the site will be reconstructed on the corner of SW 2nd Ave and SW 7 ST with retail uses.
Units: 455 residential units
Status: Under construction and expected completion spring / summer 2007.

11) Project Name: **Reflections on the River**
Location: 201-261 SW 6 Street
Developer: Brickell, LLC, 284 NE 79th Street, Miami, FL 33138 and Omega Alpha Engineering USA Group, Contract Purchaser, 1110 Brickell Avenue, Suite 804 Miami, FL 33131, (305) 371-6220
Architect: Michael Proto, Dorsky Hodgson & Partners, (954) 524-8686
Description: residential development featuring retail and a restaurant on the ground floor, connecting with a publicly accessible riverwalk.
Units: 125 loft-style residential units
Status: City approved a land-use and zoning amendment to allow the project; Site cleared.

12) Project Name: **Neo Lofts**
Location: South River Drive (upland side), just east of the Flagler Street Bridge
Contact: www.neolofts.com; Sales office (305) 285-1418
Developer: Lysette Calderon, Neo Concepts
Architect: Beame Architectural Partnership, (305) 444-7100
Description: 21 stories
Units: 199 loft apartments
Status: Opened March 2004

13) Project Name: **River House Lofts**
Location: Southwest North River Drive between Southwest 2nd and West Flagler streets
Contact: Peter Swartz and Caroline Weiss,
Developer: Royal Bay Partners, Inc.,
Description: retail, office and dockominium
Status: Permitting

14) Name: **Miami River Park Apartments**
Location: Lummus Park Historic District, NW 4th Street
Developer: Gatehouse Group, (305) 372-3343, 445 NW 4th Street, Suite 108
Description: 14- story, low to moderate-income housing project. As part of the project several historic homes were relocated and restored.
Units: 211 residential units
Status: Completed

15) Project Name: **Tuscan Place**
Location: NW 7 Ave and NW 5 ST
Developer: Gatehouse Group and BAME (305) 372-3343
Description: Two buildings, affordable housing development featuring exercise facility, pool, community center, and town homes facading the parking garage
Units: 376 residential units
Status: Construction completed

16) Project Name: **Rio Lofts**
Location: 528 NW 7 Ave. on the Seybold Canal, NW of the Fifth Street Bridge
Developer: Jeff Papell (305) 672-9023, jpapell@yahoo.com
Architect: Borges & Associates, (305) 374-9216
Description: 7 stories of low to moderate-income housing
Units: 28 loft-style units
Status: Applying for Class II Special Permit

17) Project Name: **River's Edge**
Location: 243 NW South River Drive
Contact: Guillermo Martinez, Tineo Group, guillelluch@hotmail.com
Developer: Guillermo Martinez, Tineo Group, guillelluch@hotmail.com
Architect: Robert Behar, Behar, Font & Associates, (305) 7740-5442
Description: two two-story buildings featuring either restaurants or retail connecting to a publicly accessible riverwalk; will improve current 43-slip marina; also proposing a mixed-use development across the street on South River Drive consisting of 300 residential units, a retail component on the ground floor and a fully facaded 533-space parking garage.
Units: 300
Status: Permitting

18) Project Name: **Miami River Place**
Location: 710 NW North River Drive
Developer: Ward International Trading Company, LLC
Architect: Molina & Narcisse, Inc. (305) 448-4200
Description: one, five-story condominium residential building, including two boat slips, a restructured bulkhead, a publicly accessible riverwalk, open terraces with gardenscapes, and a fully facaded parking structure.
Units: 19 residential units, including one, two and three-bedroom condos
Status: Permitting Phase

19) Project Name: **Rio Miami**
Location: 1001 NW 7 ST
Developer: Edwin Verdezoto, Royal Atlantic Developers, LLC, (305) 994-9993, miamirio.com
Architect: Brito, Cohan & Associates, (305) 663-8182
Description: Residential/mixed use project consisting of a grand total of 576 residential units,
two phases. Phase I is a 26 story building, with the garage facaded along the river with townhomes and 3,500 square feet of retail along NW 7 ST. Phase II is a 24-story building with the parking garage facaded along the river with townhomes and 4,500 square feet of retail along NW 7 ST. The project provides a 50-foot setback from the Miami River, a publicly accessible 20 foot-wide riverwalk, and a public riverfront greenspace area.
Units: 576
Status: MUSP approved and site cleared.

20) Project Name: **River Garden Condominiums (former Travelodge and originally proposed new development was originally titled "Miami Riverhouse Condominium"**
Location: 1170 NW 11 ST
Contact: Sales office 1035 NW 11th Court, Miami, FL 33136;
(305) 545-5570; www.rivergardencondos.com
Developer: Sam and Judah Burstyn, Riverside Developers, LLC, (305) 373-0444
Architect: Behar, Font & Partners, (305) 740-5442
Units: 199 residential units; two connecting buildings: one 25-story, one 19-story
Status: site cleared

21) Project Name: **Residences at Riverwalk**
Location: 1090 NW North River Drive
Contact: Interinvestments Realty, Inc, (305) 220-1101
Developer: Interinvestments Realty, Inc, (305) 220-1101
Architect: Revuelta, Vega & Leon, (305) 529-1080
Description: Five-story residential building featuring gardenscapes and a private marina
Units: 16 residential units
Status: Under construction

22) Project Name: **Miami RiverTown**
Location: 1500 NW North River Drive (Mahi Shrine Temple)
Contact/Attorney: Vicky Garcia-Toledo, Bilzin Sumberg, (305) 350-2409
Architect: Aris Garcia, Wolfberg Alvarez & Partners, (305) 666-5474
Description: one 35-story tower and two 34-story residential buildings with office and retail. The development is setback 50 feet from the Miami River, featuring a publicly accessible riverwalk consisting of a 16-foot-wide pedestrian path, landscaping, decorative lighting, cleats for temporary recreational boat dockage, gazebos and two restaurants.
Units: 986 residential units
Status: MUSP approved.

23) Project Name: **York Shrine**
Location: 1690 NW North River Drive
Contact: Gilbert Pastoriza, Weis Serota, Helfman, Pastoriza, Cole & Boniske, P.A.,
(305) 854-0800
Developer: Patricio Cervantes, (305) 661-1569
Architect: Al Otero, (305) 854-2539
Description: 23-story mixed-use building with residential, office and retail components, featuring an unobstructed 20-foot wide publicly accessible riverwalk
Units: 172 residential units
Status: Applying for Class II Special Permit

24) Project Name: **Terrazas River Park Village**
Location: 1861 NW South River Drive, (River's south shore just west of Sewell Park)
Contact: Sales Office (305) 347-5999, 2900 SW 28th Lane, www.terrazasriverpark.com
Developer: B&B Development, (305) 859-9787, **asl@bdevelopments.com**
Architect: Jaime Schapiro, Schapiro Associates, (305) 866-7324, schapiro@icanect.net
Description: 2 residential buildings with ancillary restaurant connecting to publicly accessible riverwalk
Units: 320 residential units
Status: MUSP approved and under construction

25) Project Name: **River Oaks Marina and Condominium**
Location: 1951 NW South River Drive
Contact: Erick Farfan, Vistas International Realty, (305) 854-1900, Sales office (305) 644-2128; 1951 NW South River Drive, www.riveroaksmiami.com
Developer: Macala Inc, (305) 545-6401
Architect: Fidel Perez, Perez & Perez, Architects, Planners, (305) 444-4545
Description: 21 stories with an 18 boat slip marina, publicly accessible riverwalk-with landscaping, benches and decorative lighting-connecting to a publicly accessible "nature walk" and botanical garden
Units: 199 residential units, nine lofts, one, two and three bedroom units
Status: under construction

26) Project Name: **Hurricane Cove**
Location: 1884 NW North River Drive
Contact: Hurricane Cove Marina, (305) 324-8003
Architect: Ed llorca, Mouriz, Salazar and Associates, 7695 SW 104 ST, Suite 100, Miami, FL 33156 (305) 273-9911, ellorca@mourizsalazar.com
Developer: Tony Acosta, Barbino Investments, (305) 324-8003
Description: 3 residential buildings, featuring 130 slip commercial marina, restaurant/convenient store and dock master office connecting to a publicly accessible riverwalk and public riverfront greenspace area.
Units: 1,073 residential units; featuring some "affordable housing" units
Status: Major Use Special Permit approved.

27) Project Name: **Riverside**
Location: 1975-2051 NW 11 ST
Developer: Paul Murphy, (305) 416-7484
Architect: Arquitectonica, (305) 372-1812; Dick Rogers, Urban Landscape, Inc., (305) 441-1417
Description: 1,043 residential units with marina and riverwalk area
Status: Applying for MUSP, Land Use and Zoning Amendments

28) Project Name: **Coastal on the River**
Location: 2215 NW 14 Street
Contact: Hurricane Cove Marine, (305) 324-8003
Architect: Ed Llorca, Architect: Ed llorca, Mouriz, Salazar and Associates, 7695 SW 104 ST, Suite 100, Miami, FL 33156 (305) 273-9911, ellorca@mourizsalazar.com
Developer: Tony Acosta, Riverside Investments, (305) 324-8003
Description: 2 residential buildings with a publicly accessible riverwalk around the entire parameter of the property.
Units: 633 residential units
Status: City Commission approved Major Use Special Permit, land use and zoning change from Marine Industrial (SD-4) to Liberal Commercial (C-2).

29) Project Name: **Brisas del Rio, former "Florida Yacht Basin"**
Location: 1583 NW 24 Avenue
Contact/Developer: Merco Group Inc., Ben Benash, (305) 779-5373 , 561-296-3300.
Description: mixed-use development with residential, retail and marine facilities connecting to a publicly accessible riverwalk.
Units: 698 residential units
Status: City Commission approved MUSP, land-use and zoning change from Marine Industrial (SD-4) to Commercial.

30) Project Name: **Rio Grande**
Location: 2601 NW 16 Street Road
Contact: Moises Alfie, 216 SW 12th Avenue, Miami, FL 33130, (305) 541-6244, www.constructivausa.com
Developer: Del Rio LLC
Description: one, eight-story building connecting to a publicly accessible riverwalk
Units: 167
Status: Construction to commence in June 2007

31) Project Name: **River Run South**
Location: 1401 N.W. 16th Street Road
Contact: Sales Center, 2130 SW 13 Ave, (305) 857-0500
Developer: Enterprise Community Development
Architect: Moshe Cosicher (954) 723-9249
Description: Three, Five story buildings including "affordable housing" units, connected to a new publicly accessible Riverwalk section and small marina
Units: 174 residential units
Status: Construction completed

32) Project Name: **Miami River Rapids**
Location: 1850 Delaware Parkway
Contact: Mike Nunez, A+ Mini Storage, (305) 232-1000
Developer: Mike Nunez, A+ Mini Storage, (305) 232-1000
Architect: Javier Font, Behar, Font & Partners, (305) 740-5442
Description: four, 12-15-story mixed-use development including residential units, retail and office connecting to a publicly-accessible on-road greenway.
Units: 1,600 residential units
Status: Permitting

Total Residential Units Constructed: 3,306

Total Residential Units under Construction: 4,285

Total Residential Units undergoing permitting: 7,420

Grand Total Buildings: 58

Grand Total Residential Units: 15, 011

Miami River Greenway
Virtual Tour
within the
DDA Boundary

North Shore - East to West

1) Section Name: One Miami
Description: Connecting existing Baywalk at the Hotel Intercontinental (existing water bus landing area) with the north shore trail head of the Miami River Greenway. One Miami section ends at the beginning of the EPIC section, features several significant pieces of art and two adjacent restaurants
Status: Opened
Owner: Either the Related Group or a new Condominium Association – Has a Riverwalk agreement in place with the City of Miami
Funding: $4.1 million form the City of Miami's Homeland Defense and Neighborhood Improvement Bond Issue

2) Section Name: Epic (former Dupont Plaza site)
Description: publicly accessible riverwalk included in approved MUSP – will connect with existing riverwalk proceeding beneath the Brickell Bridge
Status: Under construction
Owner: EPIC Developer
Funding: Publicly accessible riverwalk being constructed and funded by the EPIC developer

3) Section Name: Brickell Bridge
Description: Existing Riverwalk beneath the Brickell Bridge, connecting riverwalk to the west of the bridge with the EPIC riverwalk under construction to the east
Status: Completed and publicly accessible (occasional homeless and litter) – needs increased maintenance
Owner: Florida Department of Transportation (FDOT)

4) Section Name: Hyatt Regency
Description: Existing Riverwalk behind the Hyatt Regency Hotel, needs connecting sidewalk from Brickell Bridge west side stairwell to the riverwalk
Owner: FDOT and or City of Miami

5) Section name: James L. Knight Convention Center
Description: Existing Riverwalk behind the James L. Knight Convention Center which features major concerts and conventions
Status: Completed and publicly accessible
Owner: City of Miami

6) Section name: River Park Hotel (former Clarion Suites)
Description: Existing Riverwalk behind the Hotel, features the Brick Restaurant immediately adjacent to the Greenway which connects to the east with the James L. Knight Convention Center and to the West with Bijan's Seafood Restaurant
Status: Completed and publicly accessible
Owner: River Park Hotel / City of Miami?

7) Section Name: Bijan's Seafood Restaurant (featuring the historic Flagler Workers House built in the late 1800's)
Description: Existing Riverwalk with gazebo restaurant seating
Status: Site of a Phase 1 Miami River Greenway Historical Marker – Gate in fencing closed and locked in evenings, blocking public access to existing riverwalk proceeding west to One Riverview Square (Section 7)
Owner: City of Miami

8) Section Name: “Riverwalk” Metro-Mover station
Description: Per the MRC’s recommendation, Miami-Dade County recently removed fences blocking public access for the Riverwalk beneath the Riverwalk Metro Mover station, connecting to the west with One RiverView Square riverwalk (section 8) and to the east with Bijan’s riverwalk (section 6)
Status: Riverwalk is open to the public
Owner: Miami-Dade County

9) Section Name: One Riverview Square
Description: Existing Riverwalk behind office building from Riverwalk Metro Mover station to S. Miami Ave Bridge, adjacent first floor restaurant space remains vacant – Riverwalk proceeds east to Riverwalk Metro Mover Station (sections 7) and Bijan’s Seafood Restaurant (section 6), yet dead ends where greenway needs to be extended to the west beneath the S. Miami Ave Bridge (section 9)

10) Section Name: S. Miami Ave Bridge
Description: A Greenway connector needs to be constructed beneath the S. Miami Ave Bridge, in order to connect the One Riverview Square riverwalk (section 8) to the east with the riverwalk currently under construction to the west of the bridge (section 10).
Status: Needs funding, engineering documents, removal of fences and construction of new riverwalk section
Owner: Miami-Dade County
Funding: Potential funding available from the County's $7.5 million Miami River Greenway line item in their GOB Bond Issue & the County is considering applying for a $1 million FDOT – Transportation Enhancement Grant in May 2007.

11) Section Name: Riverfront East and West (Wind, Ivy, Cima, etc.)
Description: publicly accessible riverwalk included in approved MUSP is under construction – Greenway connectors are needed on the small County owned parcels to the east beneath S. Miami Ave Bridge (section 9) to connect with the One Riverview Square Riverwalk (section 8) and to the west beneath Metro-Rail (Section 11) to connect with the FPL Riverwalk (section 12).
Status: Under construction
Owner: Developers (Neo Concepts and Key International)
Funding: Publicly accessible riverwalk being constructed and funded by Neo Concepts and Key International.

12) Section Name: Metro-Rail Riverwalk
Description: a new riverwalk section needs to be constructed on the County owned public right of way beneath Metro-Rail, in order to connect to the east with Riverfront West and East (section 10), to the west with the FPL Riverwalk (section 12), and to the north to NW 3 ST, requires a sea-wall or rip rap since this section has an unconsolidated shoreline
Status: Needs funding, engineering documents, fence removal and construction
Owner: Miami-Dade County
Funding: Potential funding available from the County's $7.5 million Miami River Greenway line item in their GOB Bond Issue

13) Section Name: FPL Riverwalk
Description: Publicly accessible riverwalk exists at the FPL site, connecting to the west with the 2nd Ave Bridge riverwalk (section 13) and needs to be extended beneath Metro-Rail (section 11) in order to continue east to Riverfront West and East (section 10).
Status: MRC recommends facading of FPL substation
Owner: FPL

14) Section Name: 2nd Ave Bridge Riverwalk
Description: publicly accessible riverwalk section exists beneath the 2nd Ave Bridge, connecting to the east with the FPL Riverwalk, (section 12) and to the west with the Miami Riverside Center Riverwalk (section 14).
Status: Riverwalk open to the public
Owner: Miami-Dade County

15) Section Name: Miami Riverside Center Riverwalk
Description: publicly accessible riverwalk section exists behind the Miami Riverside Center (City of Miami administrative office building) connecting to the east with the 2nd Ave Bridge (section 13) and FPL Riverwalk (section 12) and to the west with the planned and funded On-road Greenway section B, starting on the west side beneath I-95 (sec. 15)
Status: Riverwalk open to the public
Owner: City of Miami

16) Section Name: On Road Greenway Section "C"
Description: a new riverwalk section is fully funded and has completed construction documents to proceed west from the Miami Riverside Center (section 14) to the Flagler Bridge
Status: Constructed estimated to commence by October 2006 – Considering options as the planned on-road greenway passes through the parking lot beneath I-95, since the current plans would include gates in fences that would be closed on weekends and evenings, blocking public access
Owner: City of Miami (Public right of way along North River Drive)
Funding: FDOT Project #4105781, "Miami Riverwalk Extension: Flagler Street Bridge Area" awarded $1 million to the City of Miami, and an additional $187,700 in construction funding is potentially being made available from the Greenways line item in the Homeland defense and neighborhood improvement bond issue.

South Shore – West to East

17) Section Name: M-Path South Shore
Description: The existing publicly accessible M-Path proceeds beneath Metro-Rail from the River's South Shore to Dadeland
Status: West side fence should be removed, and Greenway connector built to connect with the new "Neo Vertika" River walk proceeding west. Providing the riverwalk connector will create a scenic pedestrian walkway between Neo-Vertika, Latitude on the River, and the Brickell Metro-Rail Station
Owner: Miami-Dade County
Funding: Potential funding sources include:
1)"M-Path Improvements, Miami-Dade Transit, Project # 2512851, $1,540,000
2) Potential funding available from the County's $7.5 million Miami River Greenway line item in their GOB Bond Issue
3) Miami-Dade County may apply for a $1 million FDOT Transportation Enhancement Grant, in May 2007

18) Section Name: On-Road Greenway from M-Path at NW 7 ST to Beneath S. Miami Ave Bridge
Description: The existing publicly accessible M-Path (section 16) needs to be connected to the east via constructing an on-road greenway along S. Miami Ave Road. Since the Road dead ends into SW 7 ST, there is ample public right of way for a significant on-road greenway, which would proceed past the new Bricks Nightclub, Big Fish Restaurant, etc. the existing sidewalks in this area are in disrepair.
Status: The City of Miami has a $1 million FDOT grant awarded for this area, therefore the next steps are creating construction engineering documents followed by construction.
Owner: City of Miami
Funding: FDOT awarded the City of Miami $1 million, "2nd Ave / Miami Ave Greenway Connector, FDOT Project # 4183341 (In TEP FY 2010, yet the City may request the funding sooner)

19) Section Name: Millennium Site
Description: Planned Riverwalk proceeds east from S. Miami Ave Bridge (section 17) to Metro-Mover (section 19)
Status: Millennium Owned development site
Owner: Millennium
Funding: Included in future Millennium project

20) Section Name: 5 ST Metro-Mover Station
Description: Publicly accessible pedestrian path proceeds north-south beneath the 5 ST Metro-Mover Station
Status: Existing north-south pedestrian path needs short east-west connector and removal of fence to connect with Brickell on the River's existing Riverwalk to the east section and the future Millennium riverwalk (section 18) to the west. Doing so would create a scenic pedestrian walkway connecting residents at the new Brickell on the River with the 5 ST Metro-Mover Station
Owner: Miami-Dade County
Funding: Potential funding sources include:
1) Potential funding available from the County's $7.5 million Miami River Greenway line item in their GOB Bond Issue
2) Miami-Dade County may apply for a $1 million FDOT Transportation Enhancement Grant, in May 2007

21) Section Name: Brickell on the River
Description: Publicly accessible Riverwalk from Metro-Mover (section 19) to the Customs station at Rivergate
Status: Needs removal of Miami-Dade County owned fence and a small Greenway connector to tie into existing pedestrian path beneath the 5 ST Metro-Mover Station
Owner: Brickell on the River
Funding: Provided by Brickell on the River

22) Section Name: Customs / Rivergate
Description: Customs rents a sub-station on the first floor of the older "Rivergate" office building, which has a surface parking structure with no riverfront setback for a riverwalk. Therefore the Brickell on the River riverwalk (section 20) needs to proceed south to 5 ST, to go around the obstruction as an on-road Greenway along 5 ST, crossing Brickell Ave in order to connect with the planned Miami Circle Greenway (section 22).
Status: Requires funding, construction engineering documents, and construction
Owner: City of Miami
Potential funding sources include:
1) The City of Miami may apply in May 2007 for a $1 million FDOT Transportation Enhancement Grant
2) Brickell on the River Impact Fees

23) Section Name: Miami Circle
Description: Riverwalk connecting from the east side of the Brickell Bridge, around the Miami Circle site, connecting to the south with the Baywalk currently construction at Icon
Status: Although the taxpayers purchased the Miami Circle site in 1999 for $24 million, no improvements have been made to the site, which remains closed to the public. The Department of State has funding to repair the seawall, which is necessary prior to building the riverwalk. In 2002 the Department of State's Miami Circle Planning Group recommended a publicly accessible riverwalk at the site. The draft feasibility study, considering whether the Miami Circle should become part of the National Park System, is overdue. The Icon (Related Group) wrote a letter to the Department of State, offering to fund and construct the riverwalk at the adjacent Miami Circle site, yet the Department of State hasn't replied to the generous offer
Owner: State of Florida, Department of State
Potential funding sources include: Related Group offered to fund and construct this riverwalk section

APPENDIX B:
Traffic Count Data

Miami-Dade County Public Works Department Existing Timing Plans

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3449 S MIAMI AVE & 7 ST      TIMING FOR DAY #  3  (SECTION  24)         PAGE 4
TIME PT OFF NW  F  Y WW  F  Y  R                                S Y M CYC
      MIN:   7  6     4  6
   0 22  45 29  6  4 15  6  4  1                                       65EARLY NI
  30 23   7 29  6  4 15  6  4  1                                       65NIGHT 11
 100 19   7 25  6  4 14  6  4  1                                       60LATE NIG
 315 24   7 24  6  4 15  6  4  1                                       60RECALL T
 345 19   7 25  6  4 14  6  4  1                                       60LATE NIG
 600  4  43 40  6  4  9  6  4  1                                       70PRE AM P
 700  1  79 54  6  4 25  6  4  1                                      100AM PEAK
 930  6   3 29  6  4 20  6  4  1                                       70AVERAGE
1530  7  64 29  6  4 30  6  4  1                                       80PM PEAK
1830  8  33 29  6  4 20  6  4  1                                       70POST PM
2130  9   7 29  6  4 15  6  4  1                                       65EVENING
2300 22  45 29  6  4 15  6  4  1                                       65EARLY


2240 SW 1 AVE & SW 7 ST      TIMING FOR DAY #  3  (SECTION  24)         PAGE 4
TIME PT OFF WG  G  Y  R CG  Y  R                                S Y M CYC
      MIN:  25        12
   0 22  39 33  1  4  2 20  4  1                                       65EARLY NI
  30 23   0 32  1  4  2 26  4  1                                    6  70NIGHT 11
 100 19   0 27  1  4  2 26  4  1                                    6  65LATE NIG
 315 24   0 27  1  4  2 26  4  1                                    6  65RECALL T
 345 19   0 27  1  4  2 26  4  1                                    6  65LATE NIG
 600  4  36 38  1  4  2 20  4  1                                       70PRE AM P
 700  1  22 37  1  4  2 51  4  1                                      100AM PEAK
 930  6  50 37  1  4  2 21  4  1                                       70AVERAGE
1530  7  32 32  1  4  2 36  4  1                                       80PM PEAK
1830  8  15 38  1  4  2 20  4  1                                       70POST PM
2130  9   1 32  1  4  2 21  4  1                                       65EVENING
2300 22  39 33  1  4  2 20  4  1                                       65EARLY NI


2241 SW 2 AVE & 7 ST         TIMING FOR DAY #  3  (SECTION  24)         PAGE 4
TIME PT OFF WW  F  Y  R NSW F  G  Y NL  Y                        S Y M CYC
      MIN:   7 14           8  1     5
TIME PT OFF WW  F  Y  R NL  Y NSW F  G  Y                        S Y M CYC
      MIN: * 7 14        5        8  1
   0 22   2 18 14  4  1  7  8  1  4  5  3                    11   1  65EARLY NI
  30 23   0 18 14  4  1  7  8  1  4  5  3                    11   1  65NIGHT 11
 100 19   2 13 14  4  1  7  8  1  4  5  3                    11   1  60LATE NIG
 315 24   0*14 14  4  1  5  3  6  8  1  4                         2  60RECALL T
 345 19   2 13 14  4  1  7  8  1  4  5  3                    11   1  60LATE NIG
 600  4   7*19 14  4  1 10  3  6  8  1  4                         2  70PRE AM P
 700  1  87*26 14  4  1 15  3  7  8 18  4                         2 100AM PEAK
 930  6  27 18 14  4  1  7  5  1  4 13  3                    11   1  70AVERAGE
1530  7  56 24 14  4  1  7  8  1  4 14  3                    11   1  80PM PEAK
1830  8  46 18 14  4  1  7  8  1  4 10  3                    11   1  70POST PM
2130  9  18 13 14  4  1  7  8  1  4 10  3                    11   1  65EVENING
2300 22   2 18 14  4  1  7  8  1  4  5  3                    11   1  65EARLY NI
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5813 SW 2 AV & SW 3 ST TIMING FOR DAY # 3 (SECTION 27) PAGE 4

TIME	PT	OFF	NSW	F	Y	R	EWW	F	Y	R	S	Y	M	CYC
	MIN:		12	8			7	12						
0	23	0	25	8	4	1	7	12	4	1			6	62NIGHT 20
315	24	0	15	8	4	1	7	12	4	1			6	52RECALL T
345	23	0	25	8	4	1	7	12	4	1			6	62NIGHT 20
600	13	46	33	8	4	1	7	12	4	1				70NIGHT 1/
730	8	76	51	8	4	1	9	12	4	1				90AM PEAK
900	9	29	51	8	4	1	9	12	4	1				90MID-DAY
1145	10	8	51	8	4	1	9	12	4	1				90NOON 1/0
1315	9	29	51	8	4	1	9	12	4	1				90MID-DAY
1545	11	81	61	8	4	1	9	12	4	1				100PM PEAK
1800	12	3	53	8	4	1	7	12	4	1				90POST PM
1900	13	46	33	8	4	1	7	12	4	1				70NIGHT 1/
2100	17	46	33	8	4	1	7	12	4	1				70NIGHT 5/

2328 NW 12 AVE & 7 ST TIMING FOR DAY # 10 (SECTION 65) PAGE 4

TIME	PT	OFF	NSG	G	Y	R	EW	F	G	Y	R	WG	Y	R	S	Y	M	CYC
	MIN:		15					20	1			7						
0	19	38	21	1	4	1	7	10	1	4	1	15	4	1				70NITE 0/3
100	23	38	19	1	4	1	7	10	1	4	1	16	4	1			7	69LATE NIG
315	24	0	19	1	4	1	7	10	1	4	1	7	4	1			7	60RECALL T
345	23	38	19	1	4	1	7	10	1	4	1	16	4	1			7	69LATE NIG
500	9	38	19	1	4	1	7	10	1	4	1	16	4	1			7	69EARLY MO
530	4	74	18	1	4	1	7	20	2	4	1	12	4	1				75PRE AM
630	5	34	34	1	4	1	7	20	9	4	1	14	4	1				100AM PEAK
930	6	39	29	1	4	1	7	20	4	4	1	14	4	1				90MID-DAY
1530	7	47	50	1	4	1	7	20	7	4	1	20	4	1				120PM PEAK
1830	8	50	23	1	4	1	7	20	1	4	1	13	4	1				80POST PM
2000	12	51	20	1	4	1	7	20	1	4	1	16	4	1				80EVENING

2359 NW 12 AV & 11 ST TIMING FOR DAY # 3 (SECTION 146) PAGE 4

TIME	PT	OFF	NSG	G	Y	EWL	Y	EWP	G	Y	R	SL	Y	S	Y	M	CYC
	MIN:		15			6			1			6						
0	22	0	22	1	4	0	0	21	1	4	1	0	0	6	7		54NITE 2/7
315	24	0	22	1	4	6	3	21	1	4	1	6	3		7		72RECALL T
345	22	0	22	1	4	0	0	21	1	4	1	0	0	6	7		54NITE 2/7
600	1	21	28	1	4	0	0	21	1	4	1	0	0	6			60PRE AM P
700	5	95	47	1	4	10	3	21	8	4	1	8	3				110AM PEAK
900	8	92	41	1	4	10	3	21	4	4	1	8	3				100MID DAY
1530	12	9	50	1	4	11	3	21	11	4	1	11	3				120PM PEAK
1800	18	24	35	1	4	6	3	21	1	4	1	6	3				85EVENING

5189 NW 17 AVE & S RIVER DR TIMING FOR DAY # 3 (SECTION 145) PAGE 4

TIME	PT	OFF	NSG	G	Y	R	EWG	Y	R	NL	Y	S	Y	M	CYC
MIN:			1				8			5					
0	23	0	20	2	4	1	9	4	1	0	0	3		7	41NITE 0/4
315	24	0	20	5	4	1	9	4	1	5	3			7	52RECALL T
345	23	0	20	2	4	1	9	4	1	0	0	3		7	41NITE 0/4
600	9	0	20	8	4	1	12	4	1	0	0	3		7	50NITE 0/1
620	8	0	20	15	4	1	17	4	1	6	3			7	71EARLY MO
700	6	40	20	26	4	1	24	4	1	7	3				90AM PEAK
900	5	78	20	24	4	1	17	4	1	6	3				80AVERAGE
1530	7	0	40	90	4	1	22	4	1	10	3			7	175PM PEAK
1800	5	78	20	24	4	1	17	4	1	6	3				80AVERAGE
1830	8	0	20	15	4	1	17	4	1	6	3			7	71EARLY MO
2200	9	0	20	8	4	1	12	4	1	0	0	3		7	50NITE 0/1

2295 NW 17 AVE & N RIVER DR TIMING FOR DAY # 3 (SECTION 145) PAGE 4

TIME	PT	OFF	NSG	G	Y	R	BDG	Y	R	NSL	Y	S	Y	M	CYC
MIN:		15					9			5					
0	23	0	20	1	4	1	11	4	1	0	0	3		7	42NITE 0/4
315	24	0	20	1	4	1	10	4	1	6	3			7	50RECALL T
345	23	0	20	1	4	1	11	4	1	0	0	3		7	42NITE 0/4
600	9	31	37	1	4	1	12	4	1	0	0	3			60NITE 0/1
620	8	3	39	1	4	1	22	4	1	5	3				80EARLY MO
700	6	57	48	1	4	1	22	4	1	6	3				90AM PEAK
900	5	3	39	1	4	1	22	4	1	5	3				80AVERAGE
1530	7	86	52	1	4	1	38	4	1	6	3				110PM PEAK
1800	5	3	39	1	4	1	22	4	1	5	3				80AVERAGE
1830	8	3	39	1	4	1	22	4	1	5	3				80EARLY MO
2200	9	31	37	1	4	1	12	4	1	0	0	3			60NITE 0/1

4490 NW 22 AVE & 14 ST TIMING FOR DAY # 10 (SECTION 65) PAGE 4

TIME	PT	OFF	NSW	F	Y	R	EWW	F	G	Y	R	NL	Y	S	Y	M	CYC
MIN:		7	19				14		1			5					
0	19	7	11	18	4	2	7	14	1	4	1	5	3				70NITE 0/3
100	23	0	8	19	4	2	7	14	1	4	1	5	3			7	68LATE NIG
315	24	9	11	19	4	2	7	14	1	4	1	5	3			7	71RECALL T
345	23	0	8	19	4	2	7	14	1	4	1	5	3			7	68LATE NIG
500	9	7	11	18	4	2	7	14	1	4	1	5	3				70EARLY MO
530	4	12	15	19	4	2	7	14	1	4	1	5	3				75PRE AM
630	5	8	34	19	4	2	7	14	7	4	1	5	3				100AM PEAK
930	6	56	24	19	4	2	7	14	7	4	1	5	3				90MID-DAY
1530	7	110	35	19	4	2	7	14	26	4	1	5	3				120PM PEAK
1830	8	61	20	19	4	2	7	14	1	4	1	5	3				80POST PM
2000	12	58	20	19	4	2	7	14	1	4	1	5	3				80EVENING

2388 NW 27 AVE & 17 ST TIMING FOR DAY # 10 (SECTION 56) PAGE 4

TIME	PT	OFF	NSG	G	Y	R	EW	F	G	Y	R	NL	Y	S	Y	M	CYC
	MIN:		20					16	1			5					
0	23		47	41	1	4	1	4	16	1	4	1	5	3			6 81LATE NIT
130	21		47	41	1	4	1	4	16	1	4	1	5	3			6 81LATE NIT
315	24		47	41	1	4	1	4	16	1	4	1	5	3			7 81RECALL T
345	21		47	41	1	4	1	4	16	1	4	1	5	3			6 81LATE NIT
500	5		47	41	1	4	1	4	16	1	4	1	5	3			6 81LATE NIT
600	9		56	56	1	4	1	4	10	1	4	1	5	3			90AVG M2 0
630	6		54	72	1	4	1	4	14	1	4	1	5	3			110PRE & PO
700	12		21	80	1	4	1	4	16	1	4	1	5	3			120AM PEAK
900	6		54	72	1	4	1	4	14	1	4	1	5	3			110PRE & PO
930	7		53	75	1	4	1	4	11	1	4	1	5	3			110NOON M2
1300	13		53	75	1	4	1	4	11	1	4	1	5	3			110AFT M2 0
1600	4		19	88	1	4	1	4	16	1	4	1	12	3			135PM PEAK
1830	8		92	70	1	4	1	4	15	1	4	1	6	3			110POST PM
1915	9		56	56	1	4	1	4	10	1	4	1	5	3			90AVG M2 0

2404 NW 27 AVE & N RIVER DR TIMING FOR DAY # 10 (SECTION 56) PAGE 4

TIME	PT	OFF	NSG	G	Y	R	EWM	Y	EWW	F	G	Y	R	NSL	Y	S	Y	M	CYC
	MIN:		18				5			20	1			5					
0	23		62	24	1	4	1	6	3	5	11	1	4	1	6	3			70LATE NIT
130	21		62	20	1	4	1	6	3	5	10	1	4	1	6	3		7	65LATE NIT
315	24		62	24	1	4	1	6	3	5	15	1	4	1	6	3		7	74RECALL T
345	21		62	20	1	4	1	6	3	5	10	1	4	1	6	3		7	65LATE NIT
500	5		62	24	1	4	1	6	3	5	11	1	4	1	6	3			70LATE NIT
600	9		42	30	1	4	1	9	3	5	17	1	4	1	11	3			90AVG M2 0
630	6		67	38	1	4	1	15	3	5	20	3	4	1	12	3			110PRE & PO
700	12		43	45	1	4	1	15	3	5	20	6	4	1	12	3			120AM PEAK
900	6		67	38	1	4	1	15	3	5	20	3	4	1	12	3			110PRE & PO
930	7		67	37	1	4	1	18	3	5	20	1	4	1	12	3			110NOON M2
1300	13		64	44	1	4	1	12	3	5	19	1	4	1	12	3			110AFT M2 0
1600	4		4	50	1	4	1	17	3	5	20	13	4	1	13	3			135PM PEAK
1830	8		109	35	1	4	1	15	3	5	20	5	4	1	13	3			110POST PM
1915	9		42	30	1	4	1	9	3	5	17	1	4	1	11	3			90AVG M2 0

Intersection Turning Movement Counts

SW 7TH STREET & MIAMI AVENUE
MIAMI, FLORIDA
COUNTED BY: NICHOLE BOWEN
SIGNALIZED

TRAFFIC SURVEY SPECIALISTS, INC.
624 GARDENIA TERRACE
DELRAY BEACH, FLORIDA 33444
(561) 272-3255 FAX (561) 272-4381

Site Code : 00060151
Start Date: 05/24/06
File I.D. : 7STMIAMA
Page : 1

ALL VEHICLES

	MIAMI AVENUE From North				SW 7TH STREET From East				MIAMI AVENUE From South				SW 7TH STREET From West				
	Right	Thru	UTurn	Left	Right	Thru	UTurn	Left	Right	Thru	UTurn	Left	Right	Thru	UTurn	Left	Total
Date 05/24/06																	
07:00	0	0	0	0	11	84	0	0	0	49	0	35	0	0	0	0	179
07:15	0	0	0	0	8	82	0	0	1	60	0	26	0	0	0	0	177
07:30	0	0	0	0	8	95	0	0	0	62	0	28	0	0	0	0	193
07:45	0	0	0	0	10	95	0	0	0	80	0	41	0	0	0	0	226
Hr Total	0	0	0	0	37	356	0	0	1	251	0	130	0	0	0	0	775
08:00	0	0	0	0	8	123	0	0	0	74	0	55	0	0	0	0	260
08:15	0	0	0	0	19	123	0	0	0	75	0	72	0	0	0	0	289
08:30	0	0	0	0	11	146	0	0	0	106	0	61	0	0	0	0	324
08:45	0	0	0	0	21	127	0	0	0	117	0	49	0	0	0	0	314
Hr Total	0	0	0	0	59	519	0	0	0	372	0	237	0	0	0	0	1187
TOTAL	0	0	0	0	96	875	0	0	1	623	0	367	0	0	0	0	1962

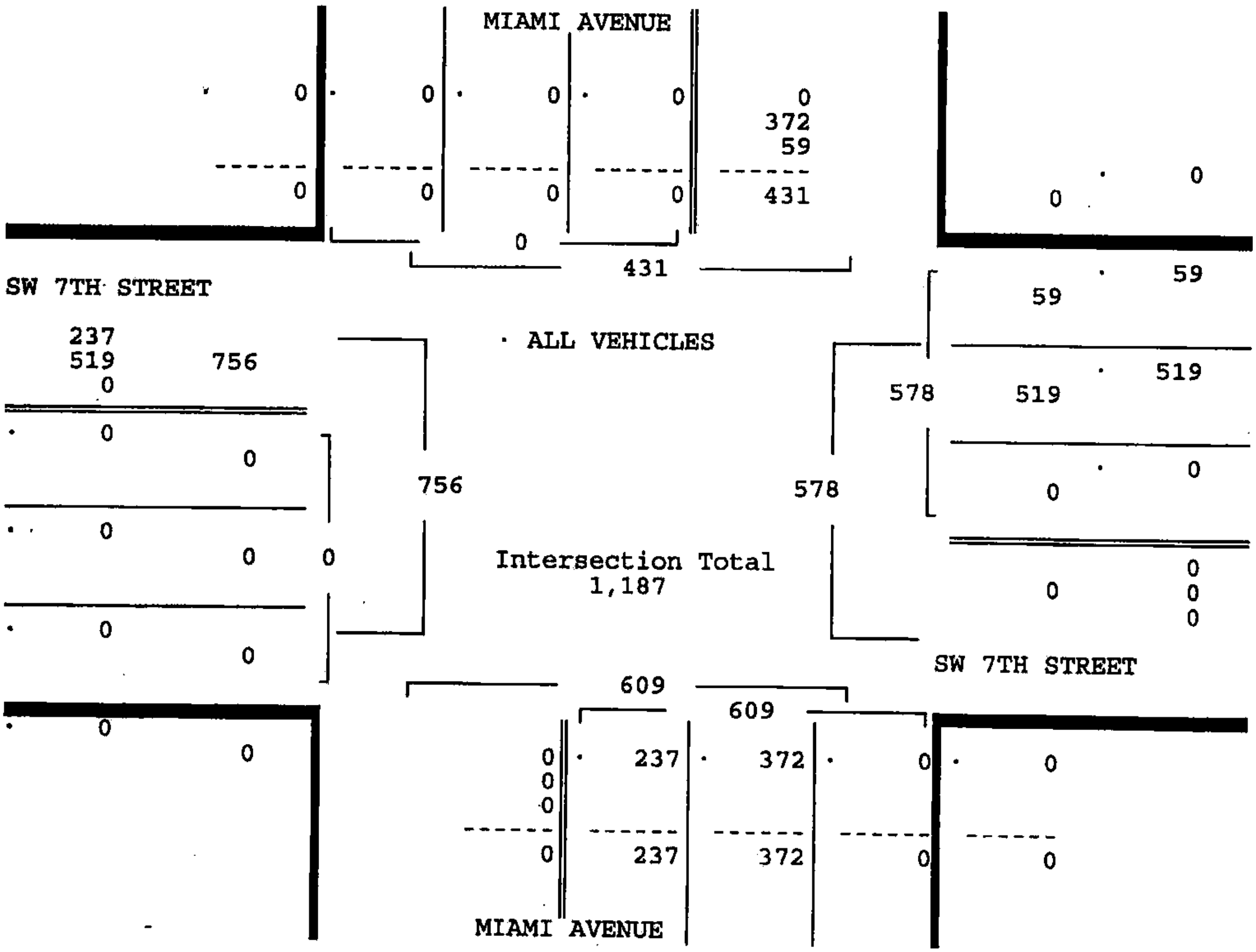
SW 7TH STREET & MIAMI AVENUE
MIAMI, FLORIDA
COUNTED BY: NICHOLE BOWEN
SIGNALIZED

TRAFFIC SURVEY SPECIALISTS, INC.
624 GARDENIA TERRACE
DELRAY BEACH, FLORIDA 33444
(561) 272-3255 FAX (561) 272-4381

Site Code : 00060151
Start Date: 05/24/06
File I.D. : 7STMIAMA

ALL VEHICLES

	MIAMI AVENUE From North				SW 7TH STREET From East				MIAMI AVENUE From South				SW 7TH STREET From West				
	Right	Thru	UTurn	Left	Right	Thru	UTurn	Left	Right	Thru	UTurn	Left	Right	Thru	UTurn	Left	Total
Date 05/24/06																	
Peak Hour Analysis By Entire Intersection for the Period: 07:00 to 09:00 on 05/24/06																	
Peak start	08:00				08:00				08:00				08:00				
Volume	0	0	0	0	59	519	0	0	0	372	0	237	0	0	0	0	
Percent	0%	0%	0%	0%	10%	90%	0%	0%	0%	61%	0%	39%	0%	0%	0%	0%	
Pk total	0				578				609				0				
Highest	07:00				08:30				08:30				07:00				
Volume	0	0	0	0	11	146	0	0	0	106	0	61	0	0	0	0	
Hi total	0				157				167				0				
PHF	.0				.92				.91				.0				

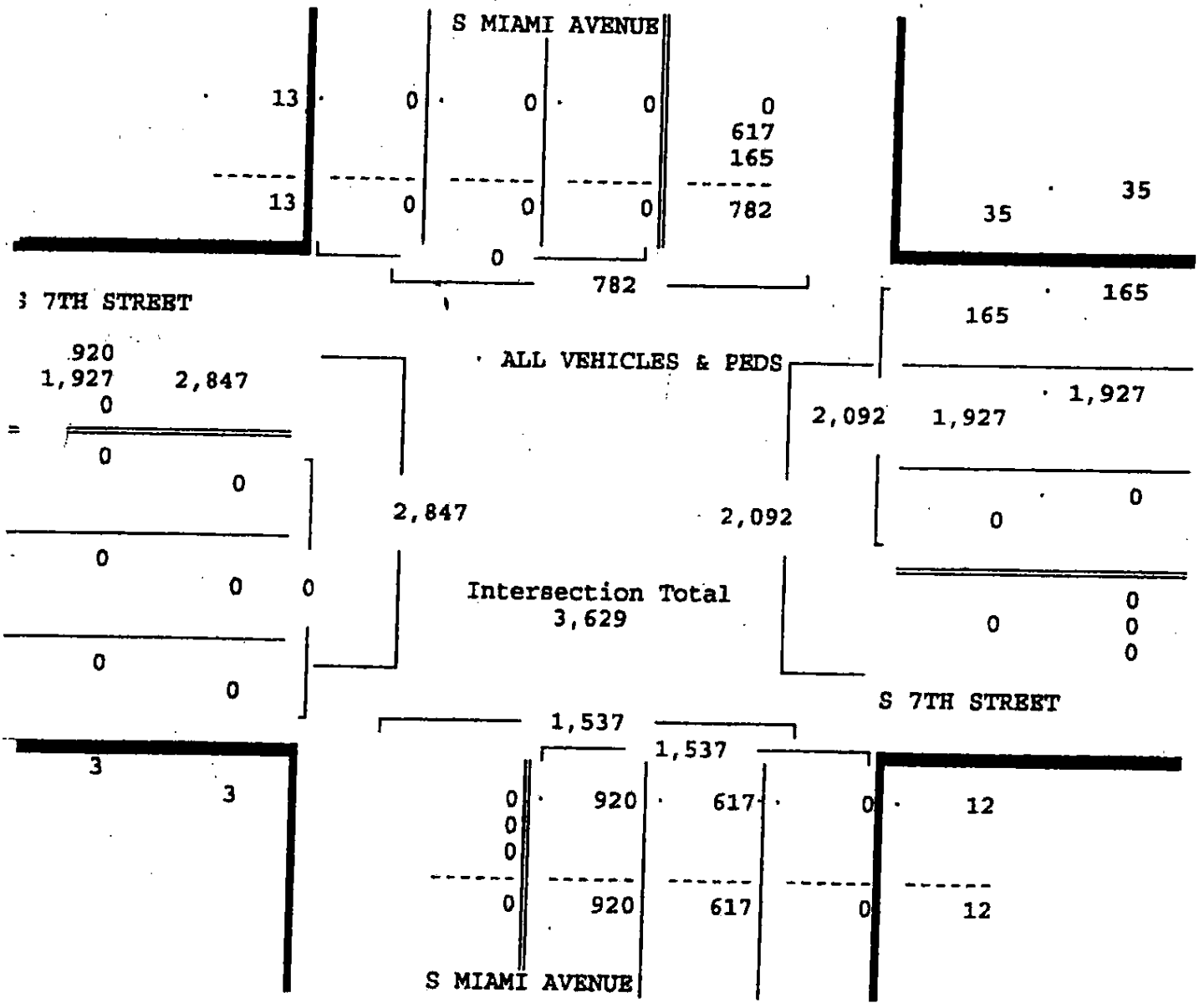


TRAFFIC SURVEY SPECIALISTS, INC.
624 GARDENIA TERRACE
DELRAY BEACH, FLORIDA 33444
(561) 272-3255 FAX (561) 272-4381

Site Code : 00040050
Start Date: 03/11/04
File I.D. : 7STMIAM
Page : 2

ALL VEHICLES & PEDS

Date 03/11/04	S MIAMI AVENUE From North				S 7TH STREET From East				S MIAMI AVENUE From South				S 7TH STREET From West				Vehicle Total
	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Right	Thru	Left	



[illegible] SOUTH MIAMI AVENUE
, FLORIDA
D BY: RICK MENDEZ
ALIZED

624 GARDENIA TERRACE
DELRAY BEACH, FLORIDA 33444
(561) 272-3255 FAX (561) 272-4381

Site Code : 00040050
Start Date: 03/11/04
File I.D. : 7STMIAM
Page : 1

ALL VEHICLES & PEDS

	S MIAMI AVENUE From North				S 7TH STREET From East				S MIAMI AVENUE From South				S 7TH STREET From West				
e 03/11/04	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Vehicle Total
.00	0	0	0	0	0	12	199	0	0	0	55	90	0	0	0	0	356
:15	1	0	0	0	0	16	188	0	0	0	78	94	0	0	0	0	376
30	0	0	0	0	1	12	233	0	2	0	68	101	0	0	0	0	414
45	1	0	0	0	2	19	193	0	0	0	83	96	1	0	0	0	391
Total	2	0	0	0	3	59	813	0	2	0	284	381	1	0	0	0	1537
00	1	0	0	0	1	41	286	0	1	0	96	175	0	0	0	0	598
..5	1	0	0	0	13	24	294	0	0	0	76	122	0	0	0	0	516
:30	1	0	0	0	9	22	275	0	3	0	82	143	1	0	0	0	522
5	8	0	0	0	9	19	259	0	6	0	79	99	1	0	0	0	456
otal	11	0	0	0	32	106	1114	0	10	0	333	539	2	0	0	0	2092
AL*	13	0	0	0	35	165	1927	0	12	0	617	920	3	0	0	0	3629

A STREET & SOUTH MIAMI AVENUE	624 GARDENIA TERRACE	Site Code : 00040050
FLORIDA	DELRAY BEACH, FLORIDA 33444	Start Date: 03/11/04
D BY: RICH MENDEZ	(561) 272-3255 FAX (561) 272-4381	File I.D. : 7STMIAM
LIZED		Page : 3

ALL VEHICLES & PEDS

	S MIAMI AVENUE From North				S 7TH STREET From East				S MIAMI AVENUE From South				S 7TH STREET From West				Vehicle
	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Right	Thru	Left	
03/11/04																	

Hour Analysis By Entire Intersection for the Period: 16:00 to 18:00 on 03/11/04

start	17:00				17:00				17:00				17:00			
	-	0	0	0	-	106	1114	0	-	0	333	539	-	0	0	0
t	-	0%	0%	0%	-	9%	91%	0%	-	0%	38%	62%	-	0%	0%	0%
otal	0				1220				872				0			
est	16:00				17:00				17:00				16:00			
	-	0	0	0	-	41	286	0	-	0	96	175	-	0	0	0
al	0				327				271				0			
	.0				.93				.80				.0			

S MIAMI AVENUE

11	0	0	0	0 / 333 / 106
11	0	0	0	439

0

439

7TH ST & S Miami Ave

32 32

H STREET

539
114 1,653
0

0 0

0 0 0

0 0

106 106

1,114

1,220 1,114

0 0

ALL VEHICLES & PEDS

1,653 1,220

Intersection Total
2,092

0
0 0
0

S 7TH STREET

872

872

2 2

0 / 0 / 0	539	333	0	10
0	539	333	0	10

S MIAMI AVENUE

PSCF = 1.00

SW 7TH STREET & SW 1ST AVENUE
MIAMI, FLORIDA
COUNTED BY: SUSAN MALONE
SIGNALIZED

TRAFFIC SURVEY SPECIALISTS, INC.
624 GARDENIA TERRACE
DELRAY BEACH, FLORIDA 33444
(561) 272-3255 FAX (561) 272-4381

Site Code : 00060151
Start Date: 05/24/06
File I.D. : 7ST_1AVE

ALL VEHICLES

	SW 1ST AVENUE From North				SW 7TH STREET From East				SW 1ST AVENUE From South				SW 7TH STREET From West				
	Right	Thru	UTurn	Left	Right	Thru	UTurn	Left	Right	Thru	UTurn	Left	Right	Thru	UTurn	Left	Total
Date 05/24/06																	
07:00	25	33	0	0	0	97	0	8	0	0	0	0	0	0	0	0	163
07:15	17	34	0	0	0	99	0	8	0	0	0	0	0	0	0	0	158
07:30	20	36	0	0	0	109	0	5	0	0	0	0	0	0	0	0	170
07:45	18	39	0	0	0	111	0	21	0	0	0	0	0	0	0	0	189
Hr Total	80	142	0	0	0	416	0	42	0	0	0	0	0	0	0	0	680
08:00	17	63	0	0	0	153	0	27	0	0	0	0	0	0	0	0	260
08:15	26	67	0	0	0	164	0	25	0	0	0	0	0	0	0	0	282
08:30	32	98	0	0	0	173	0	29	0	0	0	0	0	0	0	0	332
08:45	26	116	0	0	0	151	0	18	0	0	0	0	0	0	0	0	311
Hr Total	101	344	0	0	0	641	0	99	0	0	0	0	0	0	0	0	1185
---------- * BREAK * ----------																	
16:00	36	66	0	0	0	285	0	32	0	0	0	0	0	0	0	0	419
16:15	44	52	0	0	0	257	0	21	0	0	0	0	0	0	0	0	374
16:30	52	68	0	0	0	315	0	24	0	0	0	0	0	0	0	0	459
16:45	64	78	0	0	0	286	0	18	0	0	0	0	0	0	0	0	446
Hr Total	196	264	0	0	0	1143	0	95	0	0	0	0	0	0	0	0	1698
17:00	74	86	0	0	0	374	0	21	0	0	0	0	0	0	0	0	555
17:15	73	100	1	0	0	424	0	35	0	0	0	0	0	0	0	0	633
17:30	73	71	0	0	0	401	0	43	0	0	0	0	0	0	0	0	588
17:45	68	105	0	0	0	334	0	27	0	0	0	0	0	0	0	0	534
Hr Total	288	362	1	0	0	1533	0	126	0	0	0	0	0	0	0	0	2310
TOTAL	665	1112	1	0	0	3733	0	362	0	0	0	0	0	0	0	0	5873

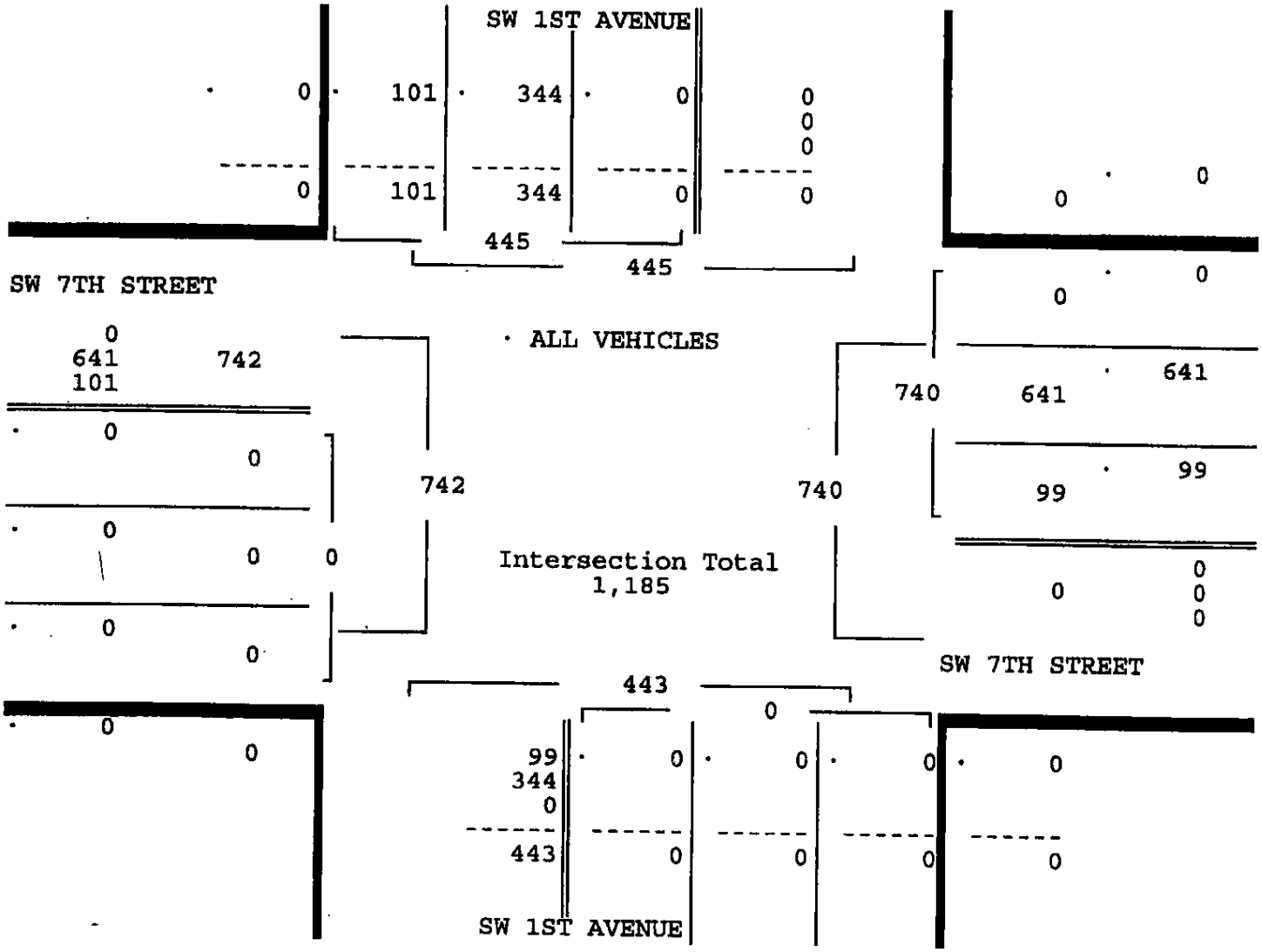
SW 7TH STREET & SW 1ST AVENUE
MIAMI, FLORIDA
COUNTED BY: SUSAN MALONE
SIGNALIZED

TRAFFIC SURVEY SPECIALISTS, INC.
624 GARDENIA TERRACE
DELRAY BEACH, FLORIDA 33444
(561) 272-3255 FAX (561) 272-4381

Site Code : 00060151
Start Date: 05/24/06
File I.D. : 7ST_1AVE

ALL VEHICLES

	SW 1ST AVENUE From North				SW 7TH STREET From East				SW 1ST AVENUE From South				SW 7TH STREET From West				
	Right	Thru	UTurn	Left	Right	Thru	UTurn	Left	Right	Thru	UTurn	Left	Right	Thru	UTurn	Left	Total
Date 05/24/06																	
Peak Hour Analysis By Entire Intersection for the Period: 07:00 to 09:00 on 05/24/06																	
Peak start 08:00					08:00				08:00				08:00				
Volume	101	344	0	0	0	641	0	99	0	0	0	0	0	0	0	0	
Percent	23%	77%	0%	0%	0%	87%	0%	13%	0%	0%	0%	0%	0%	0%	0%	0%	
Pk total	445				740				0				0				
Highest	08:45				08:30				07:00				07:00				
Volume	26	116	0	0	0	173	0	29	0	0	0	0	0	0	0	0	
Hi total	142				202				0				0				
PHF	.78				.92				.0				.0				



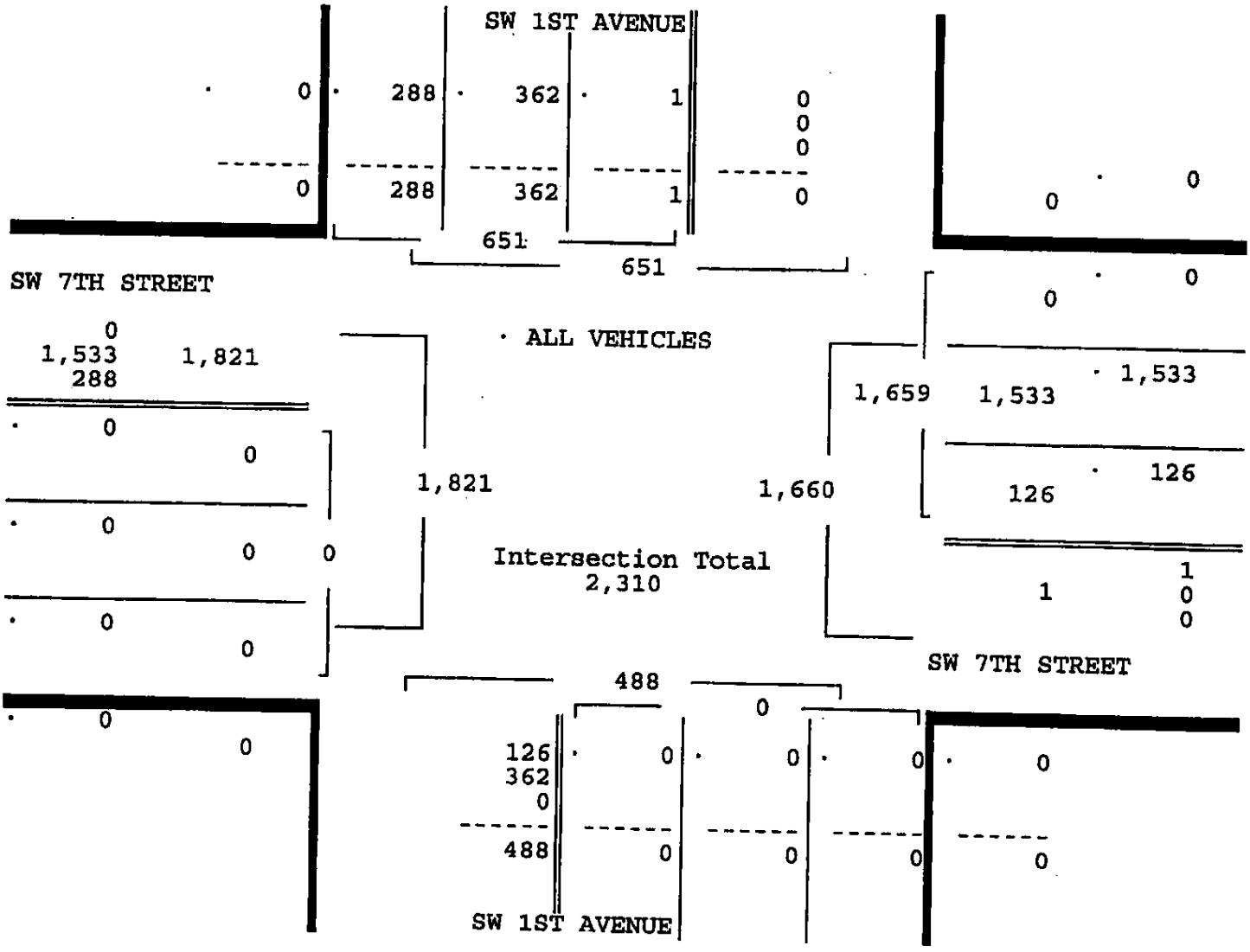
SW 7TH STREET & SW 1ST AVENUE
MIAMI, FLORIDA
COUNTED BY: SUSAN MALONE
SIGNALIZED

TRAFFIC SURVEY SPECIALISTS, INC.
624 GARDENIA TERRACE
DELRAY BEACH, FLORIDA 33444
(561) 272-3255 FAX (561) 272-4381

Site Code : 00060151
Start Date: 05/24/06
File I.D. : 7ST_1AVE

ALL VEHICLES

	SW 1ST AVENUE From North				SW 7TH STREET From East				SW 1ST AVENUE From South				SW 7TH STREET From West				
	Right	Thru	UTurn	Left	Right	Thru	UTurn	Left	Right	Thru	UTurn	Left	Right	Thru	UTurn	Left	Total
Date 05/24/06																	
Peak Hour Analysis By Entire Intersection for the Period: 16:00 to 18:00 on 05/24/06																	
Peak start 17:00					17:00				17:00				17:00				
Volume	288	362	1	0	0	1533	0	126	0	0	0	0	0	0	0	0	
Percent	44%	56%	0%	0%	0%	92%	0%	8%	0%	0%	0%	0%	0%	0%	0%	0%	
Pk total	651				1659				0				0				
Highest	17:15				17:15				07:00				07:00				
Volume	73	100	1	0	0	424	0	35	0	0	0	0	0	0	0	0	
Hi total	174				459				0				0				
PHF	.94				.90				.0				.0				



SW 7TH STREET & SW 2ND AVENUE
MIAMI, FLORIDA
COUNTED BY: CHRIS PERALTA
SIGNALIZED

TRAFFIC SURVEY SPECIALISTS, INC.
624 GARDENIA TERRACE
DELRAY BEACH, FLORIDA 33444
(561) 272-3255 FAX (561) 272-4381

Site Code : 00060151
Start Date: 05/24/06
File I.D. : 7ST_2AVE

ALL VEHICLES

	SW 2ND AVENUE From North				SW 7 STREET From East				SW 2ND AVENUE From South				SW 7 STREET From West				
	Right	Thru	UTurn	Left	Right	Thru	UTurn	Left	Right	Thru	UTurn	Left	Right	Thru	UTurn	Left	Total
Date 05/24/06																	
07:00	12	27	0	0	16	106	0	10	0	80	0	48	0	0	0	0	299
07:15	16	35	0	0	16	85	0	9	0	115	0	44	0	0	0	0	320
07:30	28	39	0	0	18	119	0	7	0	112	0	34	0	0	0	0	357
07:45	16	32	0	0	21	112	0	8	0	171	0	38	0	0	0	0	398
Hr Total	72	133	0	0	71	422	0	34	0	478	0	164	0	0	0	0	1374
08:00	25	54	0	0	17	143	0	20	0	120	0	49	0	0	0	0	428
08:15	38	62	0	0	21	150	0	17	0	128	0	56	0	0	0	0	472
08:30	26	67	0	0	24	179	0	18	0	131	0	63	0	0	0	0	508
08:45	28	59	0	0	26	148	0	12	0	116	0	59	0	0	0	0	448
Hr Total	117	242	0	0	88	620	0	67	0	495	0	227	0	0	0	0	1856
---------- * BREAK * ----------																	
16:00	59	47	0	0	23	294	0	22	0	59	0	68	0	0	0	0	572
16:15	50	81	0	0	20	282	0	24	0	65	0	68	0	0	0	0	590
16:30	86	85	0	0	30	328	0	19	0	51	0	62	0	0	0	0	661
16:45	55	77	0	0	21	326	0	30	0	55	0	63	0	0	0	0	627
Hr Total	250	290	0	0	94	1230	0	95	0	230	0	261	0	0	0	0	2450
17:00	77	121	0	0	32	411	1	26	0	65	0	60	0	0	0	0	793
17:15	76	109	0	0	38	451	0	29	0	70	0	56	0	0	0	0	829
17:30	76	94	0	0	32	419	0	29	0	61	0	72	0	0	0	0	783
17:45	62	73	0	0	20	395	0	35	0	69	0	70	0	0	0	0	724
Hr Total	291	397	0	0	122	1676	1	119	0	265	0	258	0	0	0	0	3129
TOTAL	730	1062	0	0	375	3948	1	315	0	1468	0	910	0	0	0	0	8809

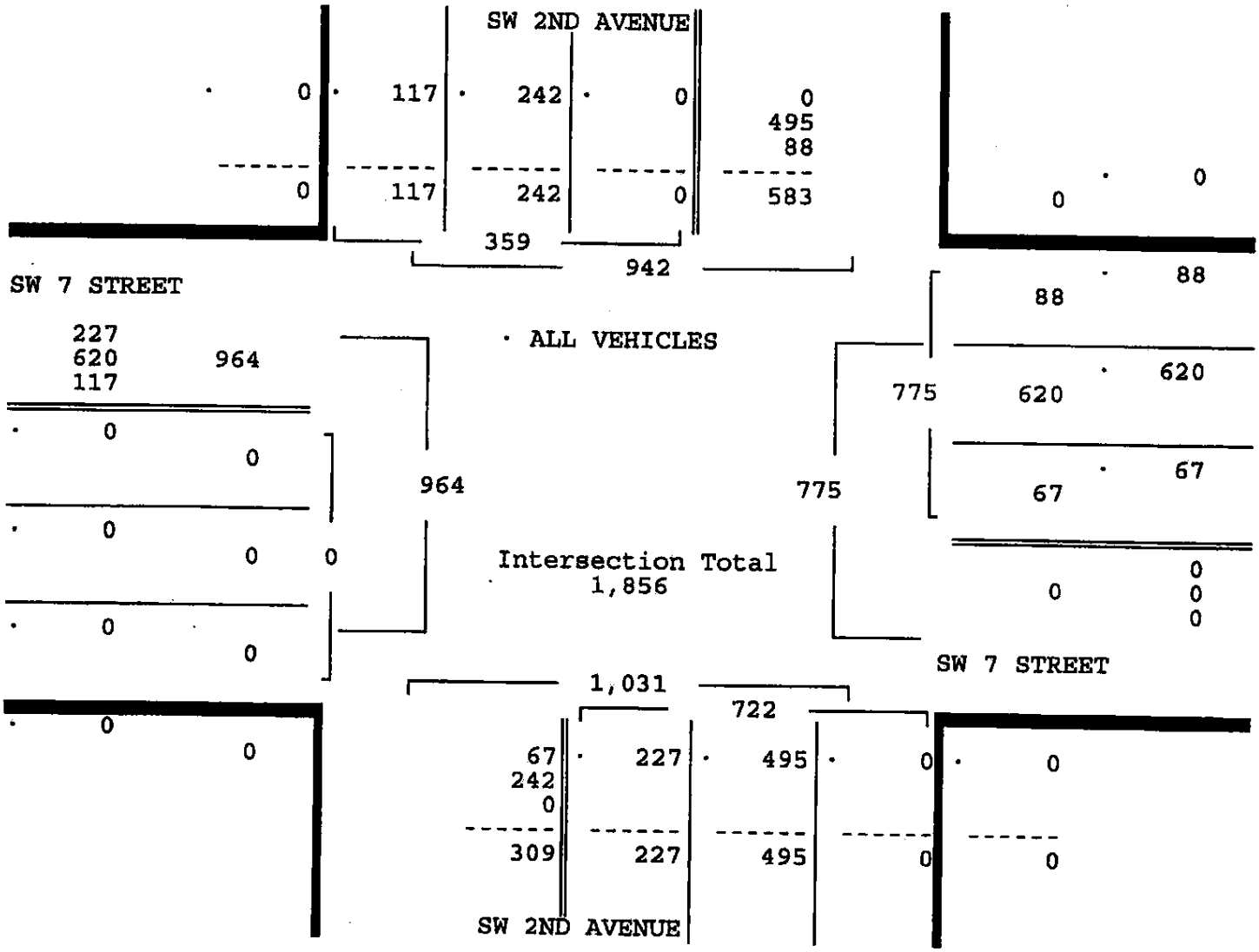
SW 7TH STREET & SW 2ND AVENUE
MIAMI, FLORIDA
COUNTED BY: CHRIS PERALTA
SIGNALIZED

TRAFFIC SURVEY SPECIALISTS, INC.
624 GARDENIA TERRACE
DELRAY BEACH, FLORIDA 33444
(561) 272-3255 FAX (561) 272-4381

Site Code : 00060151
Start Date: 05/24/06
File I.D. : 7ST_2AVE

ALL VEHICLES

	SW 2ND AVENUE From North				SW 7 STREET From East				SW 2ND AVENUE From South				SW 7 STREET From West				
	Right	Thru	UTurn	Left	Right	Thru	UTurn	Left	Right	Thru	UTurn	Left	Right	Thru	UTurn	Left	Total
Date 05/24/06																	
Peak Hour Analysis By Entire Intersection for the Period: 07:00 to 09:00 on 05/24/06																	
Peak start	08:00				08:00				08:00				08:00				
Volume	117	242	0	0	88	620	0	67	0	495	0	227	0	0	0	0	
Percent	33%	67%	0%	0%	11%	80%	0%	9%	0%	69%	0%	31%	0%	0%	0%	0%	
Pk total	359				775				722				0				
Highest	08:15				08:30				08:30				07:00				
Volume	38	62	0	0	24	179	0	18	0	131	0	63	0	0	0	0	
Hi total	100				221				194				0				
PHF	.90				.88				.93				.0				



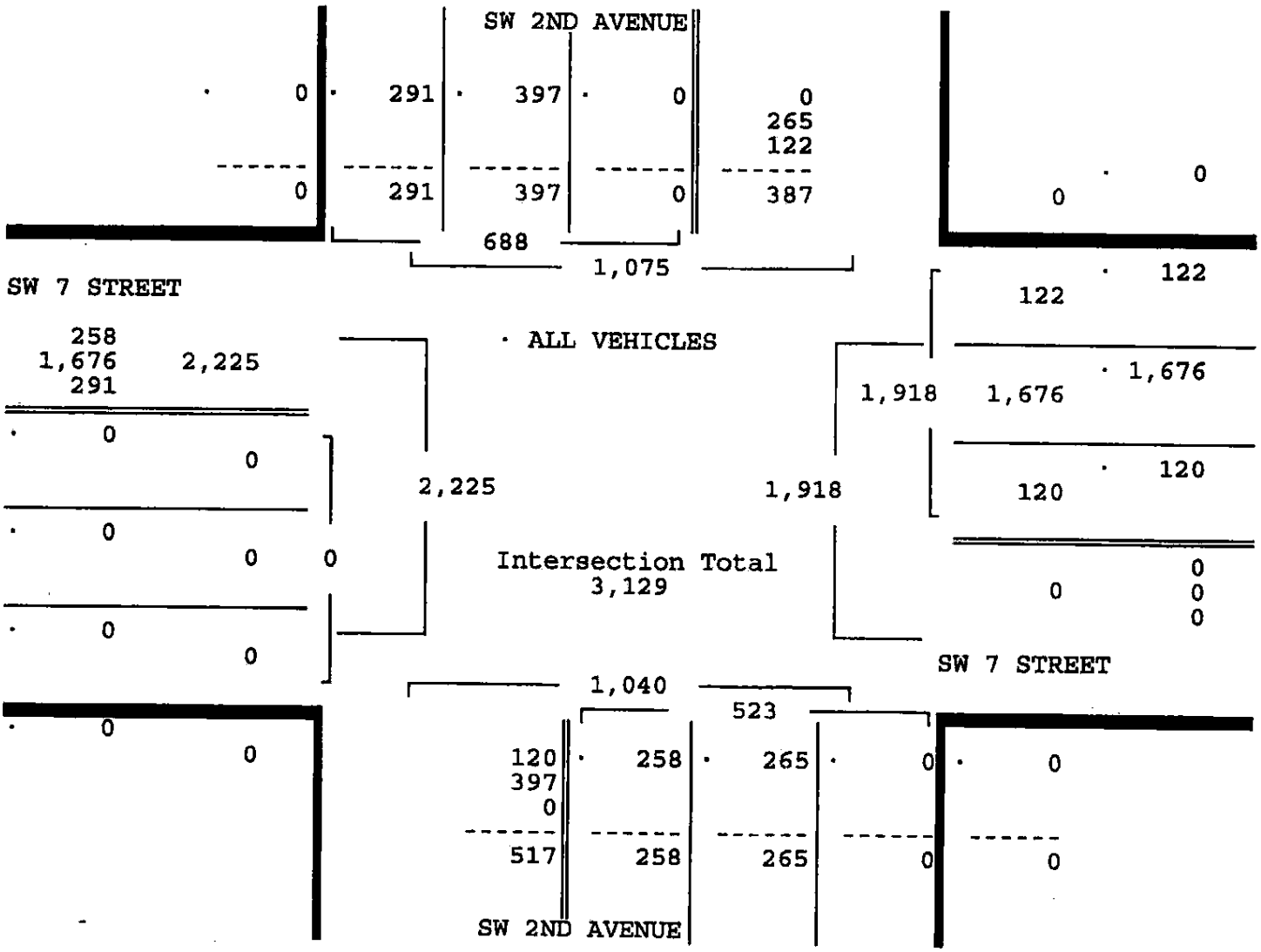
SW 7TH STREET & SW 2ND AVENUE
MIAMI, FLORIDA
COUNTED BY: CHRIS PERALTA
SIGNALIZED

TRAFFIC SURVEY SPECIALISTS, INC.
624 GARDENIA TERRACE
DELRAY BEACH, FLORIDA 33444
(561) 272-3255 FAX (561) 272-4381

Site Code : 00060151
Start Date: 05/24/06
File I.D. : 7ST_2AVE

ALL VEHICLES

	SW 2ND AVENUE From North				SW 7 STREET From East				SW 2ND AVENUE From South				SW 7 STREET From West				
	Right	Thru	UTurn	Left	Right	Thru	UTurn	Left	Right	Thru	UTurn	Left	Right	Thru	UTurn	Left	Total
Date 05/24/06																	
Peak Hour Analysis By Entire Intersection for the Period: 16:00 to 18:00 on 05/24/06																	
Peak start	17:00				17:00				17:00				17:00				
Volume	291	397	0	0	122	1676	1	119	0	265	0	258	0	0	0	0	
Percent	42%	58%	0%	0%	6%	87%	0%	6%	0%	51%	0%	49%	0%	0%	0%	0%	
Pk total	688				1918				523				0				
Highest	17:00				17:15				17:45				07:00				
Volume	77	121	0	0	38	451	0	29	0	69	0	70	0	0	0	0	
Hi total	198				518				139				0				
PHF	.87				.93				.94				.0				



SW 3RD STREET & SW 2ND AVENUE
MIAMI, FLORIDA
COUNTED BY: SUSAN MALONE
SIGNALIZED

TRAFFIC SURVEY SPECIALISTS, INC.
624 GARDENIA TERRACE
DELRAY BEACH, FLORIDA 33444
(561) 272-3255 FAX (561) 272-4381

Site Code : 00060151
Start Date: 05/25/06
File I.D. : 3ST_2AVE
Page : 1

ALL VEHICLES

	SW 2ND AVENUE From North				SW 3RD STREET From East				SW 2ND AVENUE From South				SW 3RD STREET From West				
	Right	Thru	UTurn	Left	Right	Thru	UTurn	Left	Right	Thru	UTurn	Left	Right	Thru	UTurn	Left	Total
Date 05/25/06																	
07:00	7	35	0	5	19	5	0	10	8	40	0	31	18	1	0	2	181
07:15	2	33	0	6	14	7	0	10	6	46	0	17	20	5	0	2	168
07:30	4	21	2	3	19	10	0	6	14	95	0	38	31	5	0	3	251
07:45	4	44	1	8	18	12	0	6	10	106	0	34	21	7	0	1	272
Hr Total	17	133	3	22	70	34	0	32	38	287	0	120	90	18	0	8	872
08:00	11	49	0	7	27	10	0	7	11	102	0	32	44	3	0	1	304
08:15	6	41	0	6	21	11	0	5	15	78	0	23	32	10	0	2	250
08:30	6	51	0	9	25	2	0	3	8	91	0	32	49	12	0	5	293
08:45	5	45	1	9	28	7	0	4	15	71	0	21	45	17	0	9	277
Hr Total	28	186	1	31	101	30	0	19	49	342	0	108	170	42	0	17	1124
TOTAL	45	319	4	53	171	64	0	51	87	629	0	228	260	60	0	25	1996

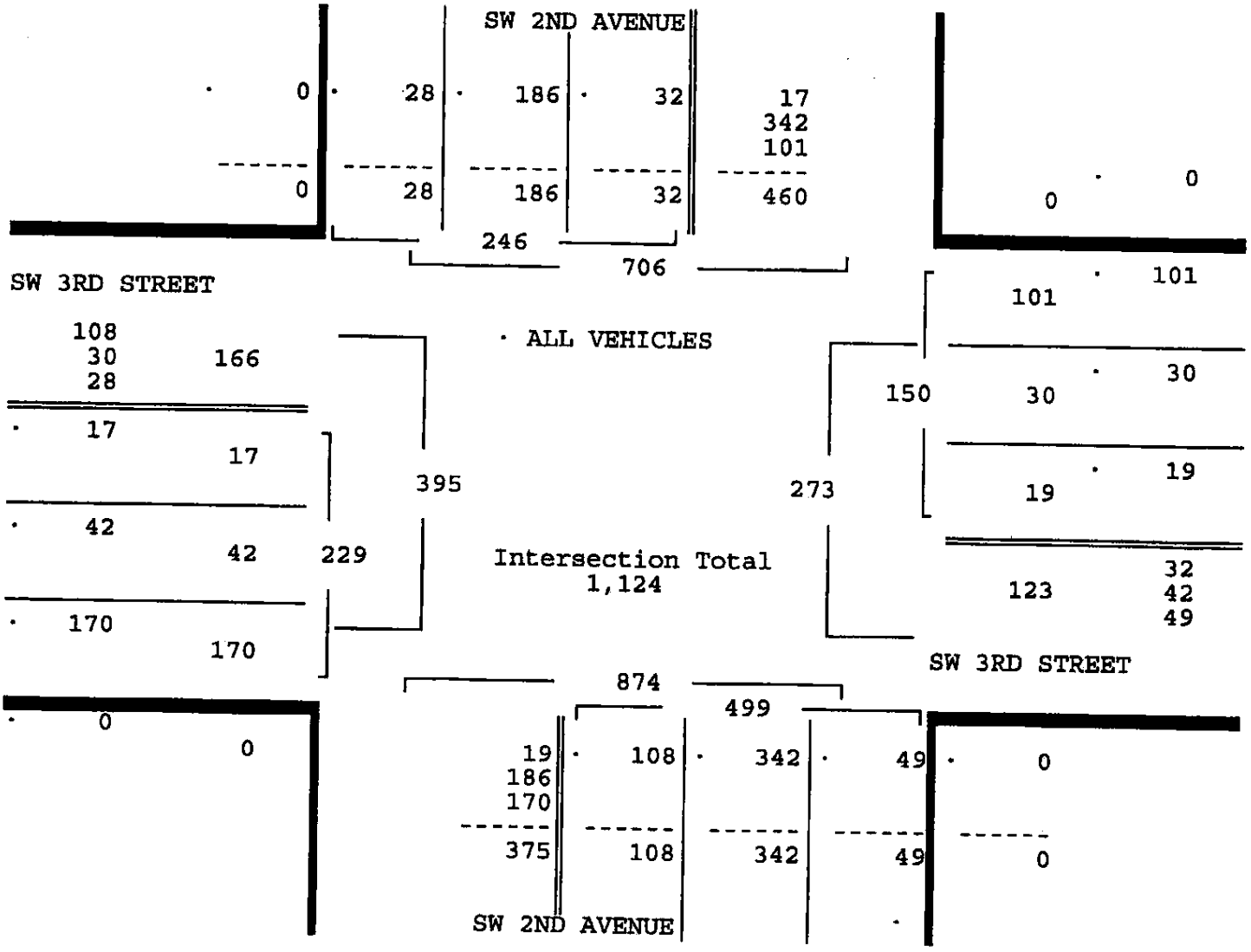
SW 3RD STREET & SW 2ND AVENUE
MIAMI, FLORIDA
COUNTED BY: SUSAN MALONE
SIGNALIZED

TRAFFIC SURVEY SPECIALISTS, INC.
624 GARDENIA TERRACE
DELRAY BEACH, FLORIDA 33444
(561) 272-3255 FAX (561) 272-4381

Site Code : 00060151
Start Date: 05/25/06
File I.D. : 3ST_2AVE

ALL VEHICLES

	SW 2ND AVENUE From North				SW 3RD STREET From East				SW 2ND AVENUE From South				SW 3RD STREET From West				
	Right	Thru	UTurn	Left	Right	Thru	UTurn	Left	Right	Thru	UTurn	Left	Right	Thru	UTurn	Left	Total
Date 05/25/06																	
Peak Hour Analysis By Entire Intersection for the Period: 07:00 to 09:00 on 05/25/06																	
Peak start	08:00				08:00				08:00				08:00				
Volume	28	186	1	31	101	30	0	19	49	342	0	108	170	42	0	17	
Percent	11%	76%	0%	13%	67%	20%	0%	13%	10%	69%	0%	22%	74%	18%	0%	7%	
Pk total	246				150				499				229				
Highest	08:00				08:00				08:00				08:45				
Volume	11	49	0	7	27	10	0	7	11	102	0	32	45	17	0	9	
Hi total	67				44				145				71				
PHF	.92				.85				.86				.81				



STREET & SW 2ND AVENUE
FLORIDA
BY: 'MOONIE'
ALIZED

TRAFFIC SURVEY SPECIALISTS, INC.
624 GARDENIA TERRACE
DELRAY BEACH, FLORIDA 33444
(561) 272-3255 FAX (561) 272-4381

Site Code : 00040050
Start Date: 03/11/04
File I.D. : 3ST_2AVE
Page : 1

ALL VEHICLES & PEDS

	SW 2ND AVENUE From North				SW 3RD STREET From East				SW 2ND AVENUE From South				SW 3RD STREET From West				
ate 03/11/04	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Vehicle Total
16:00	0	5	65	2	0	8	2	11	0	2	43	27	0	32	7	5	209
6:15	0	3	54	0	1	16	6	9	3	8	43	25	2	21	9	0	194
6:30	1	0	80	3	1	7	6	11	0	3	47	18	2	26	3	8	212
6:45	1	0	64	4	0	6	5	12	0	2	46	10	0	27	5	8	189
r Total	2	8	263	9	2	37	19	43	3	15	179	80	4	106	24	21	804
7:00	6	0	92	0	5	14	4	16	2	3	54	21	1	33	4	6	247
7:15	1	2	87	3	3	20	3	16	0	1	60	14	1	27	9	6	248
7:30	3	0	69	2	0	8	4	21	0	4	52	27	3	29	4	2	222
7:45	0	0	57	5	2	9	4	9	1	1	48	20	4	26	7	4	190
r Total	10	2	305	10	10	51	15	62	3	9	214	82	9	115	24	18	907
OTAL*	12	10	568	19	12	88	34	105	6	24	393	162	13	221	48	39	1711

SW 3RD ST & SW 2ND AVE

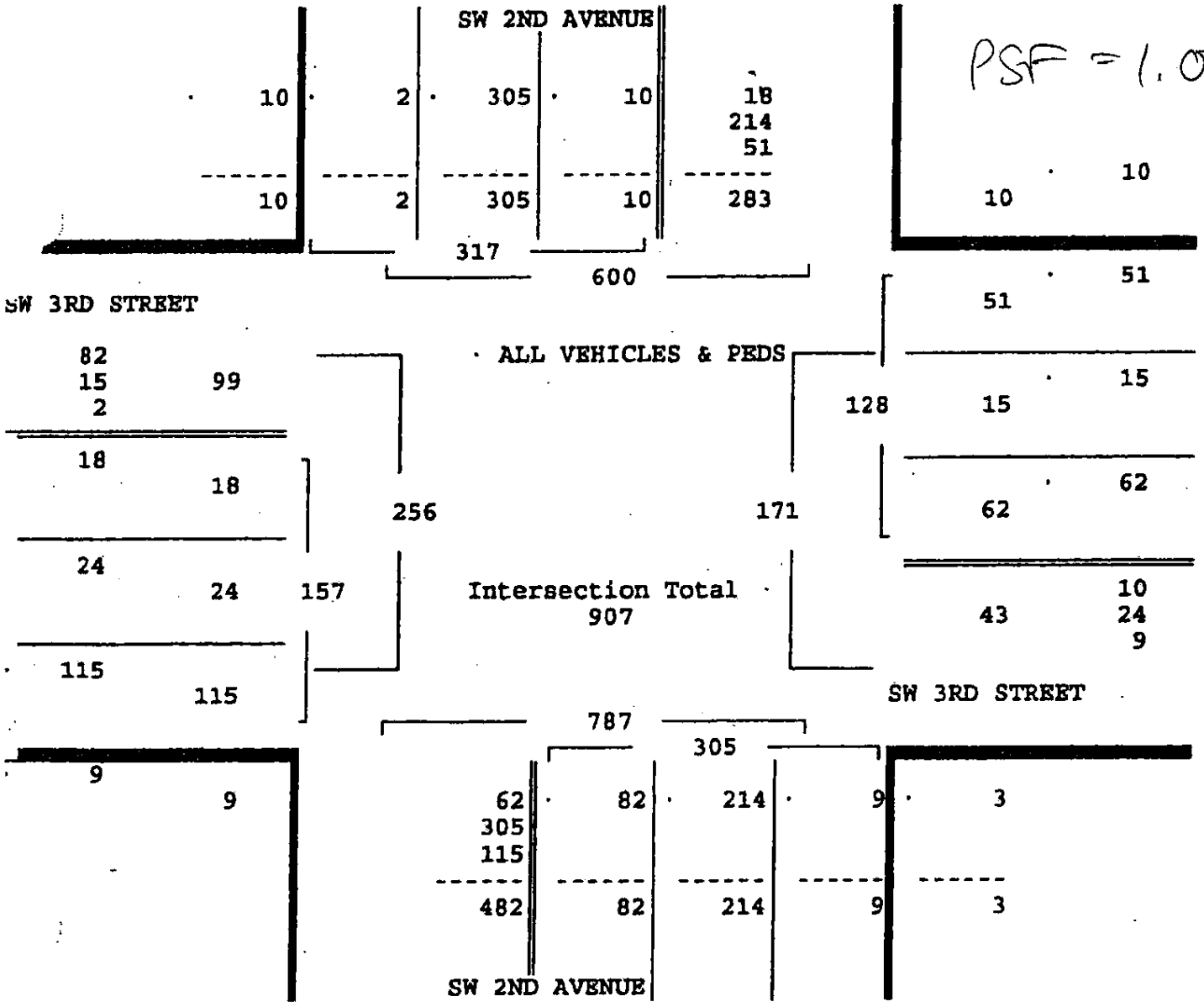
STREET & SW 2ND AVENUE
FLORIDA
, BY: 'MOONIE'
ALIGNED

TRAFFIC SURVEY SPECIALISTS, INC.
624 GARDENIA TERRACE
DELRAY BEACH, FLORIDA 33444
(561) 272-3255 FAX (561) 272-4361

Site Code : 00040050
Start Date: 03/11/04
File I.D. : 3ST_2AVE
Page : 3

ALL VEHICLES & PEDS

	SW 2ND AVENUE From North				SW 3RD STREET From East				SW 2ND AVENUE From South				SW 3RD STREET From West				Vehicle Total
	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Right	Thru	Left	
ate 03/11/04																	
Peak Hour Analysis By Entire Intersection for the Period: 16:00 to 18:00 on 03/11/04																	
Peak start	17:00				17:00				17:00				17:00				
olume	-	2	305	10	-	51	15	62	-	9	214	82	-	115	24	18	
ercent	-	1%	96%	3%	-	40%	12%	48%	-	3%	70%	27%	-	73%	15%	11%	
Pk total	317				128				305				157				
ighest	17:00				17:15				17:30				17:00				
olume	-	0	92	0	-	20	3	16	-	4	52	27	-	33	4	6	
Hi total	92				39				83				43				
PHF	.86				.82				.92				.91				



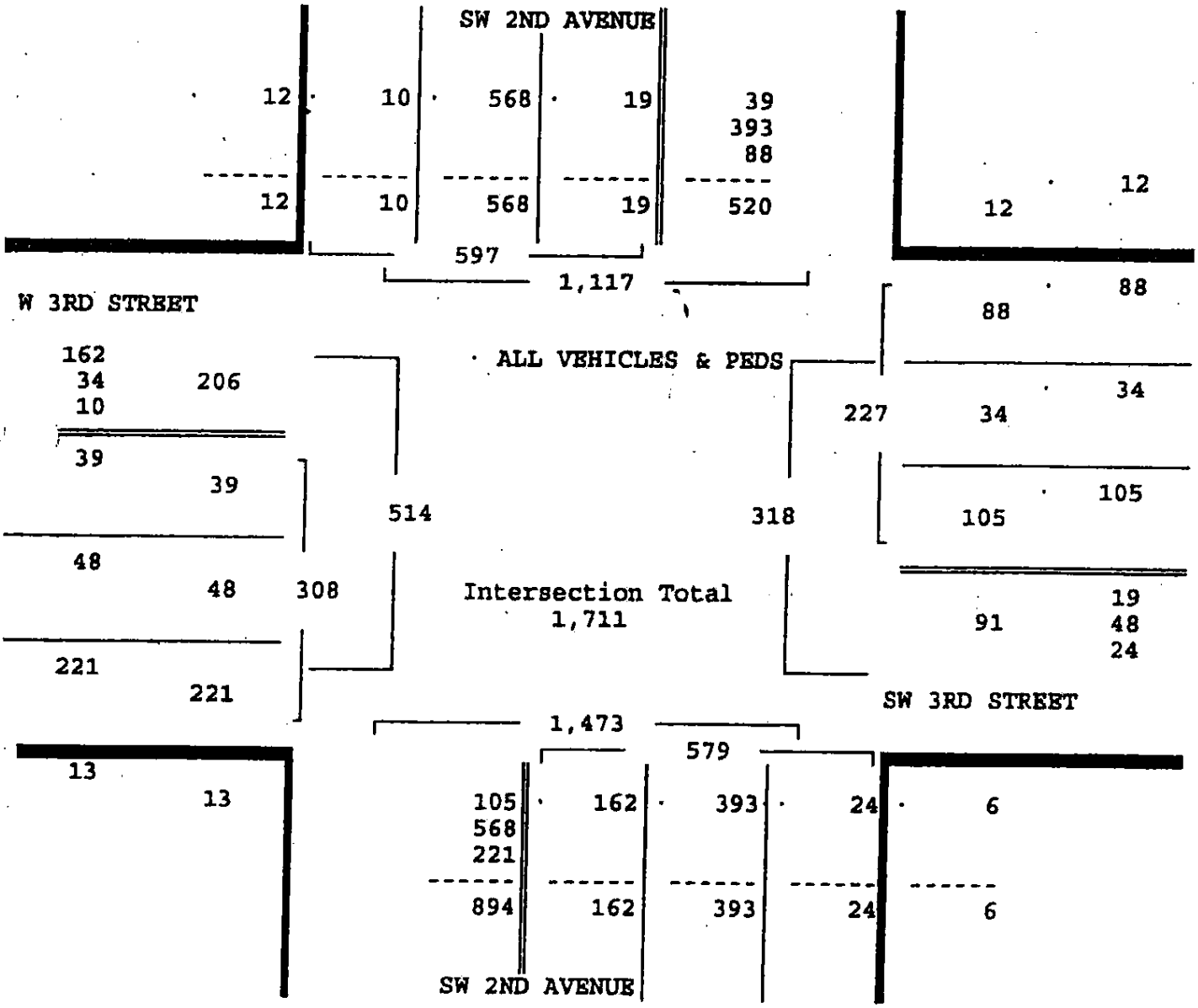
STREET & SW 2ND AVENUE
FLORIDA
D BY: "MOONIE"
...LIED

TRAFFIC SURVEY SPECIALISTS, INC.
624 GARDENIA TERRACE
DELRAY BEACH, FLORIDA 33444
(561) 272-3255 FAX (561) 272-4381

Site Code : 00040050
Start Date: 03/11/04
File I.D. : 3ST_2AVE
Page : 2

ALL VEHICLES & PEDS

	SW 2ND AVENUE From North				SW 3RD STREET From East				SW 2ND AVENUE From South				SW 3RD STREET From West				
ate 03/11/04	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Vehicle Total



NW 7TH STREET & NW 12TH AVENUE
MIAMI, FLORIDA
COUNTED BY: RAYMUNDO HERNANDEZ
SIGNALIZED

TRAFFIC SURVEY SPECIALISTS, INC.
624 GARDENIA TERRACE
DELRAY BEACH, FLORIDA 33444
(561) 272-3255 FAX (561) 272-4381

Site Code : 00060151
Start Date: 05/24/06
File I.D. : 7ST_12AV
Page : 1

ALL VEHICLES

	NW 12TH AVENUE From North				NW 7TH STREET From East				NW 12TH AVENUE From South				NW 7TH STREET From West				
	Right	Thru	UTurn	Left	Right	Thru	UTurn	Left	Right	Thru	UTurn	Left	Right	Thru	UTurn	Left	Total
Date 05/24/06																	
07:00	51	122	0	0	33	44	0	0	2	176	0	0	40	49	0	196	713
07:15	59	105	0	0	41	36	0	0	5	153	0	0	29	46	0	184	658
07:30	62	142	0	0	41	45	0	6	2	211	0	0	32	70	0	226	837
07:45	76	144	0	0	47	39	0	1	5	192	0	0	36	81	0	187	808
Hr Total	248	513	0	0	162	164	0	7	14	732	0	0	137	246	0	793	3016
08:00	75	133	0	0	56	46	0	2	5	174	0	0	28	63	0	201	783
08:15	75	157	0	0	40	31	0	0	4	168	0	0	44	64	0	164	747
08:30	64	133	0	0	52	27	0	2	4	194	0	1	45	51	0	192	765
08:45	100	131	0	1	51	23	0	3	7	165	0	1	29	39	0	156	706
Hr Total	314	554	0	1	199	127	0	7	20	701	0	2	146	217	0	713	3001
TOTAL	562	1067	0	1	361	291	0	14	34	1433	0	2	283	463	0	1506	6017

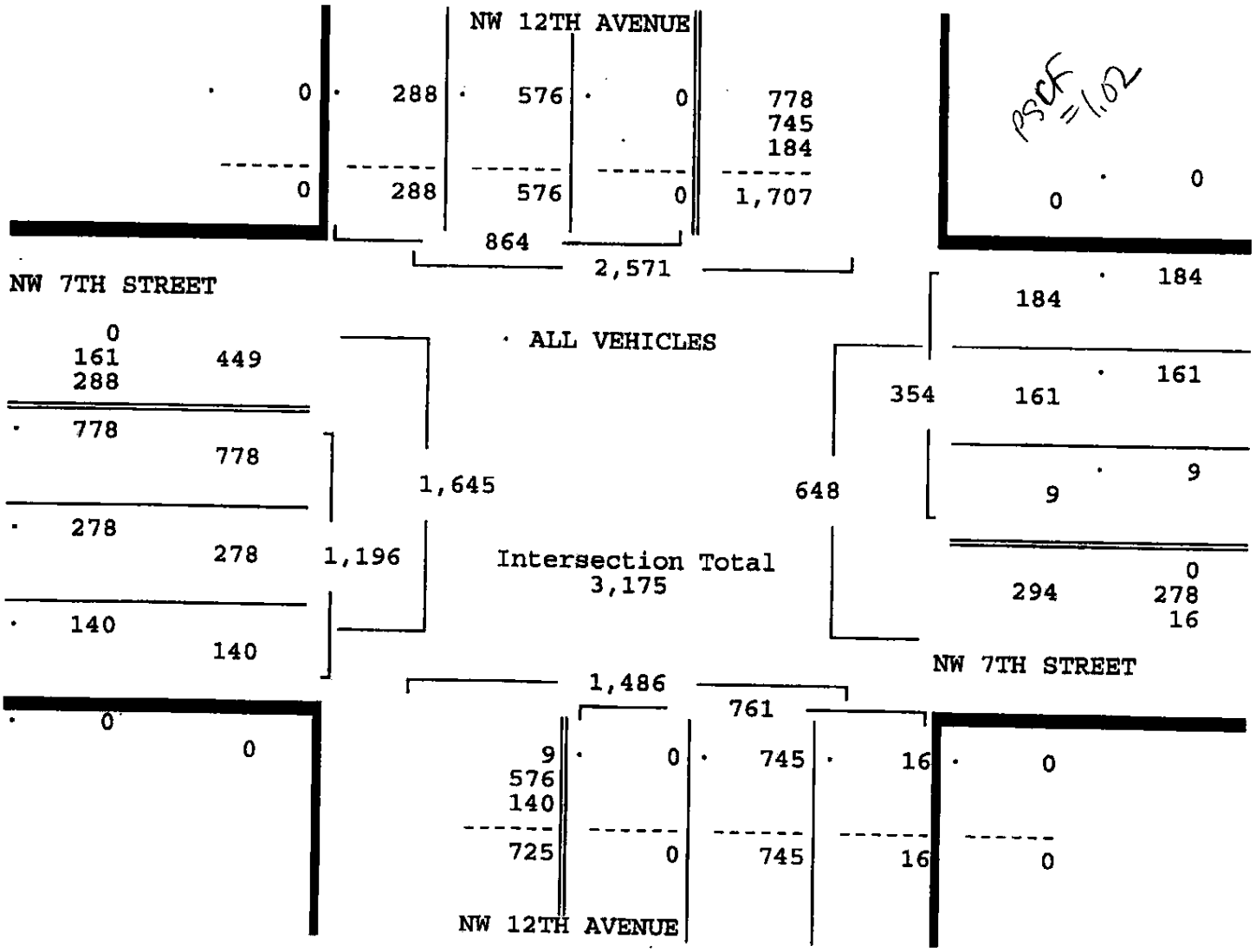
NW 7TH STREET & NW 12TH AVENUE
MIAMI, FLORIDA
COUNTED BY: RAYMUNDO HERNANDEZ
SIGNALIZED

TRAFFIC SURVEY SPECIALISTS, INC.
624 GARDENIA TERRACE
DELRAY BEACH, FLORIDA 33444
(561) 272-3255 FAX (561) 272-4381

Site Code : 00060151
Start Date: 05/24/06
File I.D. : 78T_12AV
Page : 2

ALL VEHICLES

	NW 12TH AVENUE From North				NW 7TH STREET From East				NW 12TH AVENUE From South				NW 7TH STREET From West				
	Right	Thru	UTurn	Left	Right	Thru	UTurn	Left	Right	Thru	UTurn	Left	Right	Thru	UTurn	Left	Total
Date 05/24/06																	
Peak Hour Analysis By Entire Intersection for the Period: 07:00 to 09:00 on 05/24/06																	
Peak start	07:30				07:30				07:30				07:30				
Volume	288	576	0	0	184	161	0	9	16	745	0	0	140	278	0	778	
Percent	33%	67%	0%	0%	52%	45%	0%	3%	2%	98%	0%	0%	12%	23%	0%	65%	
Pk total	864				354				761				1196				
Highest	08:15				08:00				07:30				07:30				
Volume	75	157	0	0	56	46	0	2	2	211	0	0	32	70	0	226	
Hi total	232				104				213				328				
PHF	.93				.85				.89				.91				



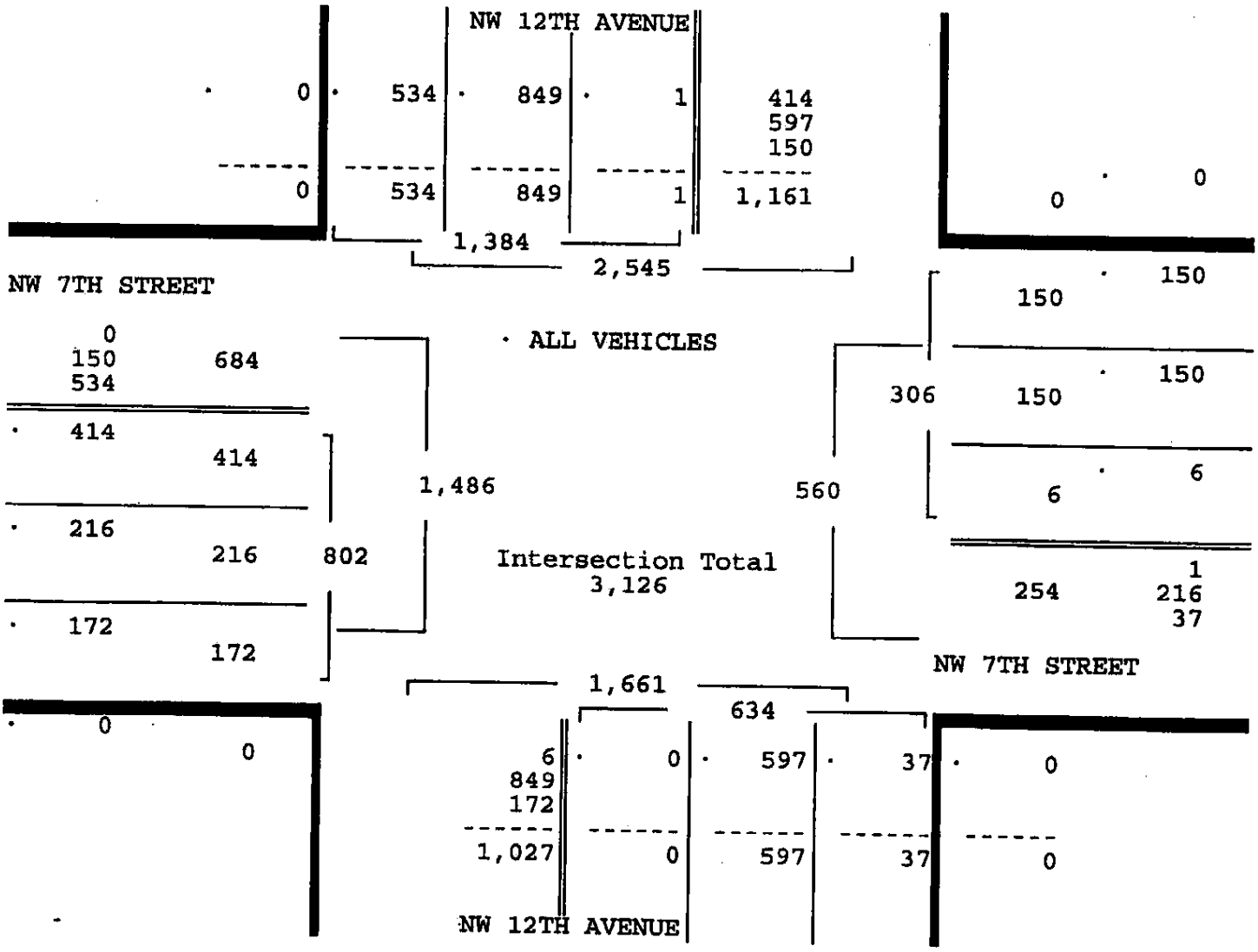
NW 7TH STREET & NW 12TH AVENUE
MIAMI, FLORIDA
COUNTED BY: CHRIS PERALTA
SIGNALIZED

TRAFFIC SURVEY SPECIALISTS, INC.
624 GARDENIA TERRACE
DELRAY BEACH, FLORIDA 33444
(561) 272-3255 FAX (561) 272-4381

Site Code : 00060151
Start Date: 05/25/06
File I.D. : 7STR_12A

ALL VEHICLES

	NW 12TH AVENUE From North				NW 7TH STREET From East				NW 12TH AVENUE From South				NW 7TH STREET From West				
	Right	Thru	UTurn	Left	Right	Thru	UTurn	Left	Right	Thru	UTurn	Left	Right	Thru	UTurn	Left	Total
Date 05/25/06																	
Peak Hour Analysis By Entire Intersection for the Period: 16:00 to 18:00 on 05/25/06																	
Peak start 16:45					16:45				16:45				16:45				
Volume	534	849	0	1	150	150	0	6	37	597	0	0	172	216	0	414	
Percent	39%	61%	0%	0%	49%	49%	0%	2%	6%	94%	0%	0%	21%	27%	0%	52%	
Pk total	1384				306				634				802				
Highest	17:15				17:00				16:45				17:15				
Volume	158	217	0	0	40	51	0	2	15	161	0	0	47	49	0	128	
Hi total	375				93				176				224				
PHF	.92				.82				.90				.90				



TRAFFIC SURVEY SPECIALISTS, INC.
624 GARDENIA TERRACE
DELRAY BEACH, FLORIDA 33444
(561) 272-3255 FAX (561) 272-4381

NW 11TH STREET & NW 12TH AVENUE
MIAMI, FLORIDA
COUNTED BY: N. OSEGERA & B. WATLEY
SIGNALIZED

Site Code : 00060151
Start Date: 05/24/06
File I.D. : 11S_12AV
Page : 1

ALL VEHICLES

	NW 12TH AVENUE From North				NW 11TH STREET From East				NW 12TH AVENUE From South				NW 11TH STREET From West				
	Right	Thru	UTurn	Left	Right	Thru	UTurn	Left	Right	Thru	UTurn	Left	Right	Thru	UTurn	Left	Total
Date 05/24/06																	
07:00	16	137	1	13	24	33	0	21	55	357	0	0	19	32	0	33	741
07:15	15	123	0	10	36	17	1	39	39	293	0	0	22	60	0	44	699
07:30	24	130	1	14	36	40	0	53	62	410	0	0	29	69	0	47	915
07:45	25	126	5	15	45	39	0	57	79	352	0	0	32	77	0	78	930
Hr Total	80	516	7	52	141	129	1	170	235	1412	0	0	102	238	0	202	3285
08:00	24	170	5	18	31	35	0	38	55	365	0	0	30	55	0	51	877
08:15	6	169	4	17	37	32	0	54	57	319	0	0	25	61	0	49	830
08:30	12	137	1	18	35	59	0	49	53	355	0	0	15	53	0	59	846
08:45	30	165	9	20	25	42	0	56	54	335	0	0	22	47	0	62	867
Hr Total	72	641	19	73	128	168	0	197	219	1374	0	0	92	216	0	221	3420
---------- * BREAK * ----------																	
16:00	5	217	3	20	41	63	0	54	29	233	0	0	20	35	0	55	775
16:15	5	220	3	21	53	67	0	80	41	206	0	1	29	31	0	34	791
16:30	5	287	3	15	67	65	0	86	50	248	0	0	23	26	0	41	916
16:45	7	211	2	15	63	73	0	65	30	215	0	0	33	32	0	47	793
Hr Total	22	935	11	71	224	268	0	285	150	902	0	1	105	124	0	177	3275
17:00	0	268	1	25	68	72	0	68	65	296	0	0	21	30	0	33	947
17:15	2	290	1	22	89	66	0	84	47	266	0	0	21	38	0	43	969
17:30	1	276	3	18	63	50	0	64	41	274	0	0	33	27	0	36	886
17:45	10	215	2	12	51	55	0	59	45	216	0	0	29	30	0	36	760
Hr Total	13	1049	7	77	271	243	0	275	198	1052	0	0	104	125	0	148	3562
TOTAL	187	3141	44	273	764	808	1	927	802	4740	0	1	403	703	0	748	13542

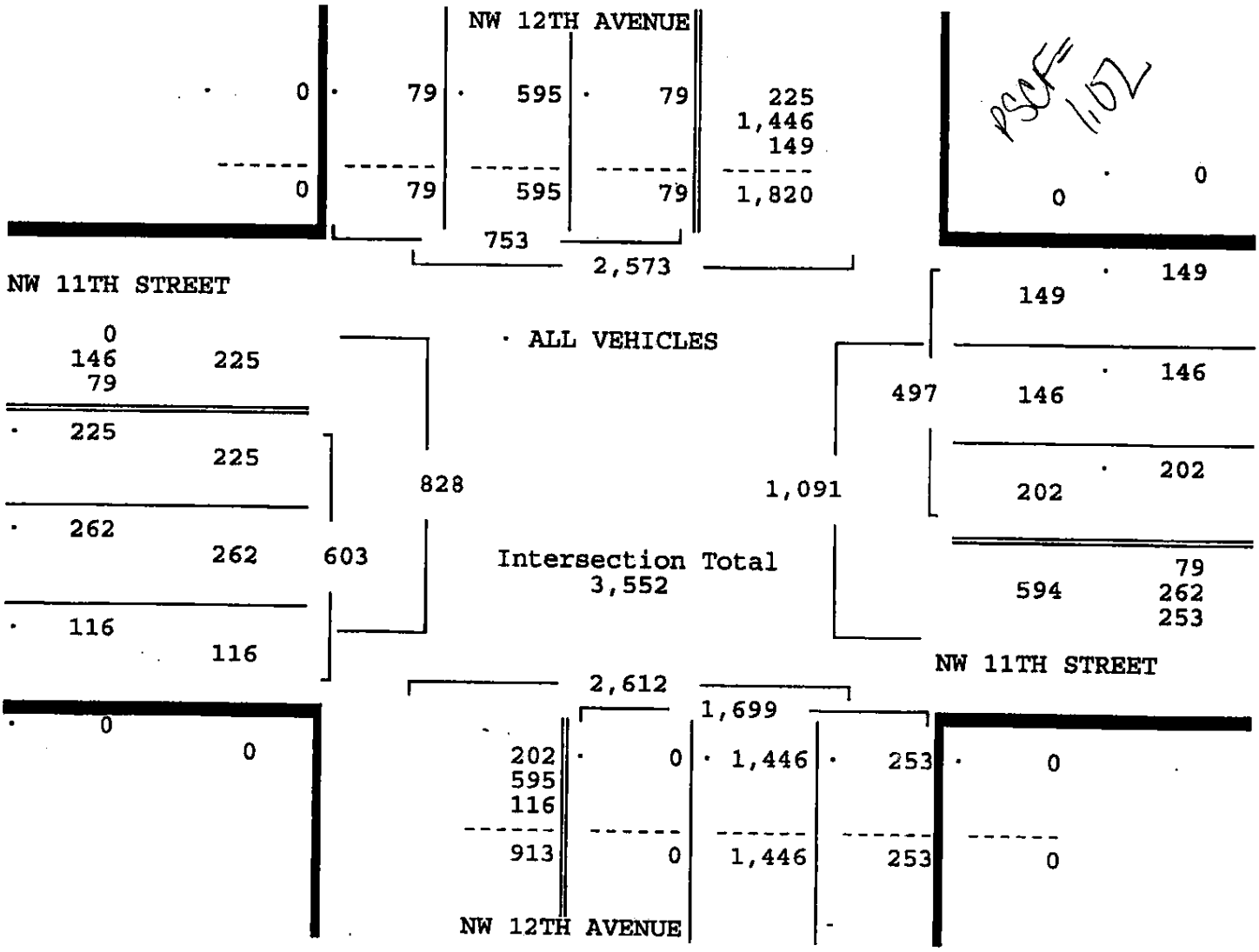
NW 11TH STREET & NW 12TH AVENUE
MIAMI, FLORIDA
COUNTED BY: N. OSEGERA & B. WATLEY
SIGNALIZED

TRAFFIC SURVEY SPECIALISTS, INC.
624 GARDENIA TERRACE
DELRAY BEACH, FLORIDA 33444
(561) 272-3255 FAX (561) 272-4381

Site Code : 00060151
Start Date: 05/24/06
File I.D. : 11S_12AV
Page : 2

ALL VEHICLES

	NW 12TH AVENUE From North				NW 11TH STREET From East				NW 12TH AVENUE From South				NW 11TH STREET From West				
	Right	Thru	UTurn	Left	Right	Thru	UTurn	Left	Right	Thru	UTurn	Left	Right	Thru	UTurn	Left	Total
Date 05/24/06																	
Peak Hour Analysis By Entire Intersection for the Period: 07:00 to 09:00 on 05/24/06																	
Peak start 07:30					07:30				07:30				07:30				
Volume	79	595	15	64	149	146	0	202	253	1446	0	0	116	262	0	225	
Percent	10%	79%	2%	8%	30%	29%	0%	41%	15%	85%	0%	0%	19%	43%	0%	37%	
Pk total	753				497				1699				603				
Highest	08:00				07:45				07:30				07:45				
Volume	24	170	5	18	45	39	0	57	62	410	0	0	32	77	0	78	
Hi total	217				141				472				187				
PHF	.87				.88				.90				.81				



TRAFFIC SURVEY SPECIALISTS, INC.

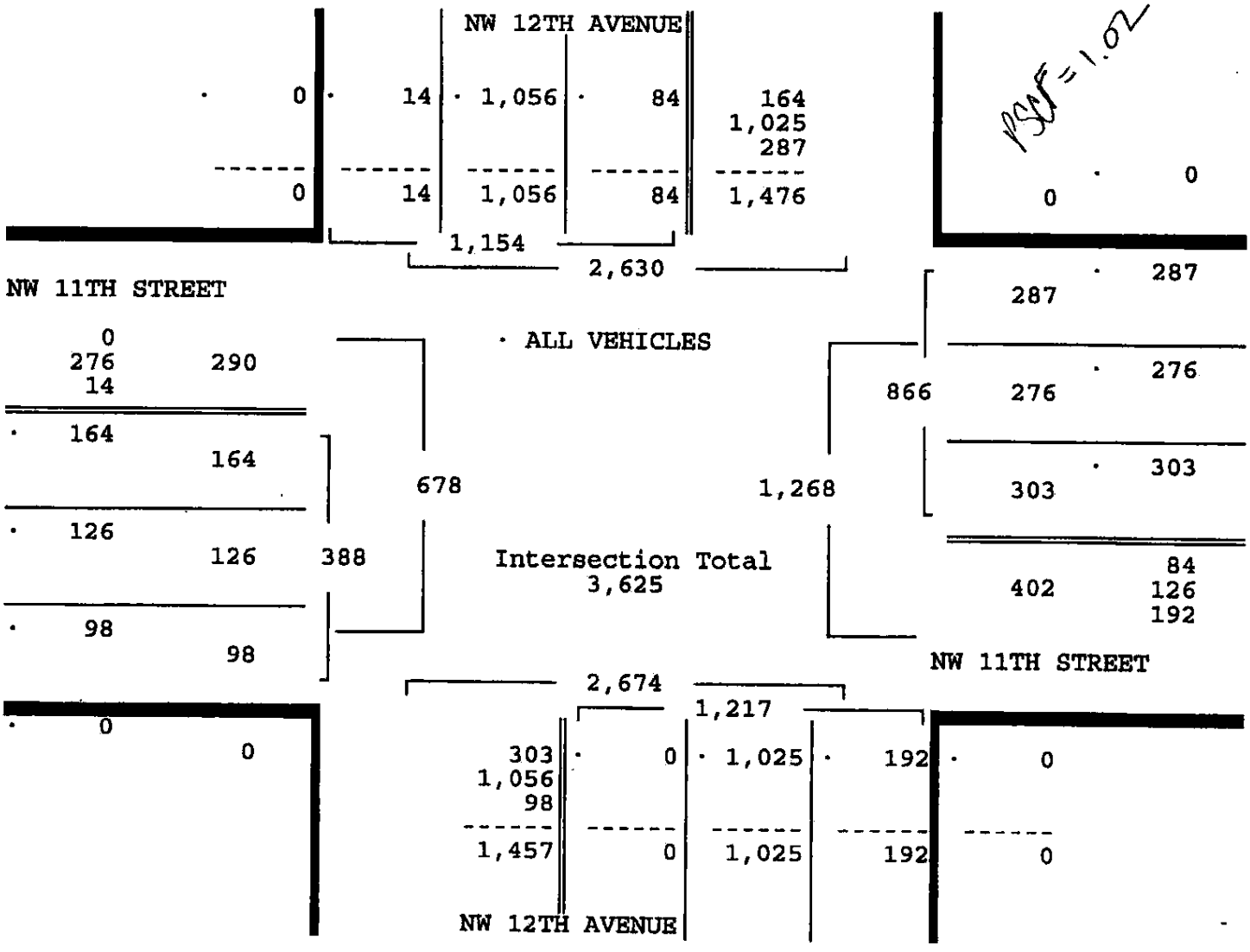
NW 11TH STREET & NW 12TH AVENUE
MIAMI, FLORIDA
COUNTED BY: N. OSEGERA & B. MATLEY
SIGNALIZED

624 GARDENIA TERRACE
DELRAY BEACH, FLORIDA 33444
(561) 272-3255 FAX (561) 272-4381

Site Code : 00060151
Start Date: 05/24/06
File I.D. : 11S_12AV
Page : 3

ALL VEHICLES

	NW 12TH AVENUE From North				NW 11TH STREET From East				NW 12TH AVENUE From South				NW 11TH STREET From West				
	Right	Thru	UTurn	Left	Right	Thru	UTurn	Left	Right	Thru	UTurn	Left	Right	Thru	UTurn	Left	Total
Date 05/24/06																	
Peak Hour Analysis By Entire Intersection for the Period: 16:00 to 18:00 on 05/24/06																	
Peak start 16:30					16:30				16:30				16:30				
Volume	14	1056	7	77	287	276	0	303	192	1025	0	0	98	126	0	164	
Percent	1%	92%	1%	7%	33%	32%	0%	35%	16%	84%	0%	0%	25%	32%	0%	42%	
Pk total	1154				866				1217				388				
Highest	17:15				17:15				17:00				16:45				
Volume	2	290	1	22	89	66	0	84	65	296	0	0	33	32	0	47	
Hi total	315				239				361				112				
PHF	.92				.91				.84				.87				



CROSSROADS ENGINEERING DATA, INC
13501 SW 128TH STREET MIAMI, FLORIDA
SUITE 101
off. 305-233-3997 fax. 305-233-7720

' IENT : KIMLEY HORN & ASSOCIATES
B NO : 2003-67
ROJECT: TERAZAS DE MIAMI RIVER
OUNTY : MIAMI-DADE

File Name : 17&SRD
Site Code : 28070315
Start Date : 07/24/2003
Page No : 1

Groups Printed- AUTO - HEAVY VEHICLES

	NW 17TH AVENUE From North				S. RIVER DRIVE From East				NW 17TH AVENUE From South				S. RIVER DRIVE From West				
Start Time	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Int. Total
Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
07:00 AM	4	175	0	0	146	3	1	0	0	162	7	0	11	0	25	0	534
07:15 AM	6	232	0	0	149	1	2	0	0	160	3	0	9	0	25	1	588
07:30 AM	7	266	0	4	175	0	3	3	0	191	5	3	12	0	43	3	715
07:45 AM	3	297	0	0	162	0	0	2	0	189	4	0	18	0	33	0	708
Total	20	970	0	4	632	4	6	5	0	702	19	3	50	0	126	4	2545
08:00 AM	7	290	0	0	157	0	1	0	0	171	2	0	13	0	29	0	670
08:15 AM	5	277	0	0	151	0	3	0	0	183	5	0	8	0	34	0	666
08:30 AM	9	251	0	0	137	0	1	2	0	200	6	0	14	0	39	0	659
08:45 AM	7	293	0	0	128	0	5	0	0	173	0	0	11	0	30	0	647
Total	28	1111	0	0	573	0	10	2	0	727	13	0	46	0	132	0	2642
	22	1130	Ø		645	Ø	7		Ø	734	16		51	Ø	139		
04:00 PM	30	603	0	0	75	1	7	0	0	188	14	0	14	0	16	0	948
04:15 PM	35	640	0	0	50	0	4	0	0	182	8	2	12	0	14	0	947
04:30 PM	147	535	0	2	59	0	4	2	0	197	9	0	27	0	28	0	1010
04:45 PM	34	608	0	0	53	0	7	0	0	164	9	0	20	0	17	0	912
Total	246	2386	0	2	237	1	22	2	0	731	40	2	73	0	75	0	3817
05:00 PM	36	683	0	1	54	0	8	2	0	189	8	3	17	0	29	0	1030
05:15 PM	51	643	0	0	36	1	2	7	0	180	7	1	11	0	13	0	952
05:30 PM	43	543	0	0	40	0	8	16	0	164	8	0	20	0	15	0	857
05:45 PM	26	495	0	0	56	0	10	2	0	172	8	2	16	0	19	2	808
Total	156	2364	0	1	186	1	28	27	0	705	31	6	64	0	76	2	3647
Grand Total	450	6831	0	7	1628	6	66	36	0	2865	103	11	233	0	409	6	12651
Apprch %	6.2	93.7	0.0	0.1	93.8	0.3	3.8	2.1	0.0	96.2	3.5	0.4	36.0	0.0	63.1	0.9	
Total %	3.6	54.0	0.0	0.1	12.9	0.0	0.5	0.3	0.0	22.6	0.8	0.1	1.8	0.0	3.2	0.0	

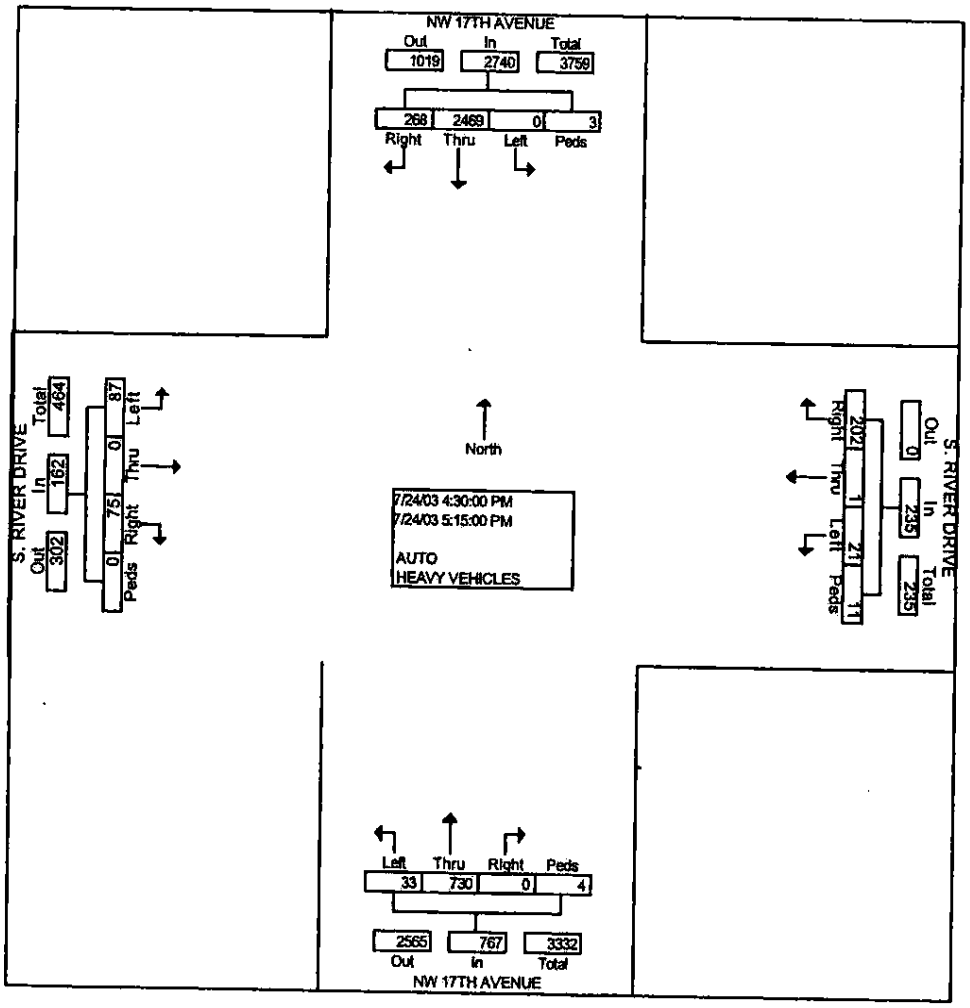
AM PHF = $\frac{715+708+670+666}{715 \times 4} = 0.96$

CROSSROADS ENGINEERING DATA, INC
13501 SW 128TH STREET MIAMI, FLORIDA
SUITE 101
off. 305-233-3997 fax. 305-233-7720

CLIENT : KIMLEY HORN & ASSOCIATES
JOB NO : 2003-67
PROJECT: TERAZAS DE MIAMI RIVER
COUNTY : MIAMI-DADE

File Name : 17&SRD
Site Code : 28070315
Start Date : 07/24/2003

	NW 17TH AVENUE From North					S. RIVER DRIVE From East					NW 17TH AVENUE From South					S. RIVER DRIVE From West					
Start Time	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Int. Total
Peak Hour From 04:00 PM to 05:45 PM - Peak 1 of 1																					
Intersection	04:30 PM																				
Volume	268	2469	0		2740	202	1	21		235	0	730	33		767	75	0	87		162	3904
Percent	9.8	90.1	0.0	0.1		86.0	0.4	8.9	4.7		0.0	95.2	4.3	0.5		46.3	0.0	53.7	0.0		
05:00 Volume	36	683	0	1	720	54	0	8	2	64	0	189	8	3	200	17	0	29	0	46	1030
Peak Factor																					
High Int.	05:00 PM					04:30 PM					04:30 PM					04:30 PM					0.948
Volume	36	683	0	1	720	59	0	4	2	65	0	197	9	0	206	27	0	28	0	55	
Peak Factor					0.951					0.904					0.931					0.736	



TRAFFIC SURVEY SPECIALISTS, INC.
624 GARDENIA TERRACE
DELRAY BEACH, FLORIDA 33444
(561) 272-3255 FAX (561) 272-4381

NORTH RIVER DRIVE & NW 17TH AVENUE
MIAMI, FLORIDA
COUNTED BY: L. PALOMINO & I. GONZALEZ
SIGNALIZED, WB LEFT TURNS-OVERPASS

Site Code : 00060151
Start Date: 06/27/06
File I.D. : NRDR17AV
Page : 1

ALL VEHICLES

	NW 17TH AVENUE From North				NORTH RIVER DRIVE From East				NW 17TH AVENUE From South				NORTH RIVER DRIVE From West				
	Right	Thru	UTurn	Left	Right	Thru	UTurn	Left	Right	Thru	UTurn	Left	Right	Thru	UTurn	Left	Total
Date 06/27/06																	
07:00	0	107	0	10	4	13	0	98	189	116	0	25	46	58	0	2	668
07:15	4	133	0	12	7	18	0	84	211	153	0	30	43	49	0	7	751
07:30	6	140	0	20	9	13	0	133	222	144	0	38	59	92	1	5	882
07:45	3	130	0	16	3	19	0	115	267	143	0	42	64	96	0	6	904
Hr Total	13	510	0	58	23	63	0	430	889	556	0	135	212	295	1	20	3205
08:00	2	125	0	12	7	19	0	100	220	136	0	34	64	73	0	7	799
08:15	1	137	0	10	9	19	0	106	249	118	0	20	48	80	0	12	809
08:30	2	153	0	11	7	21	0	95	213	126	0	51	58	67	0	12	816
08:45	4	131	0	10	3	17	0	109	166	112	0	24	47	71	0	9	703
Hr Total	9	546	0	43	26	76	0	410	848	492	0	129	217	291	0	40	3127
TOTAL	22	1056	0	101	49	139	0	840	1737	1048	0	264	429	586	1	60	6332

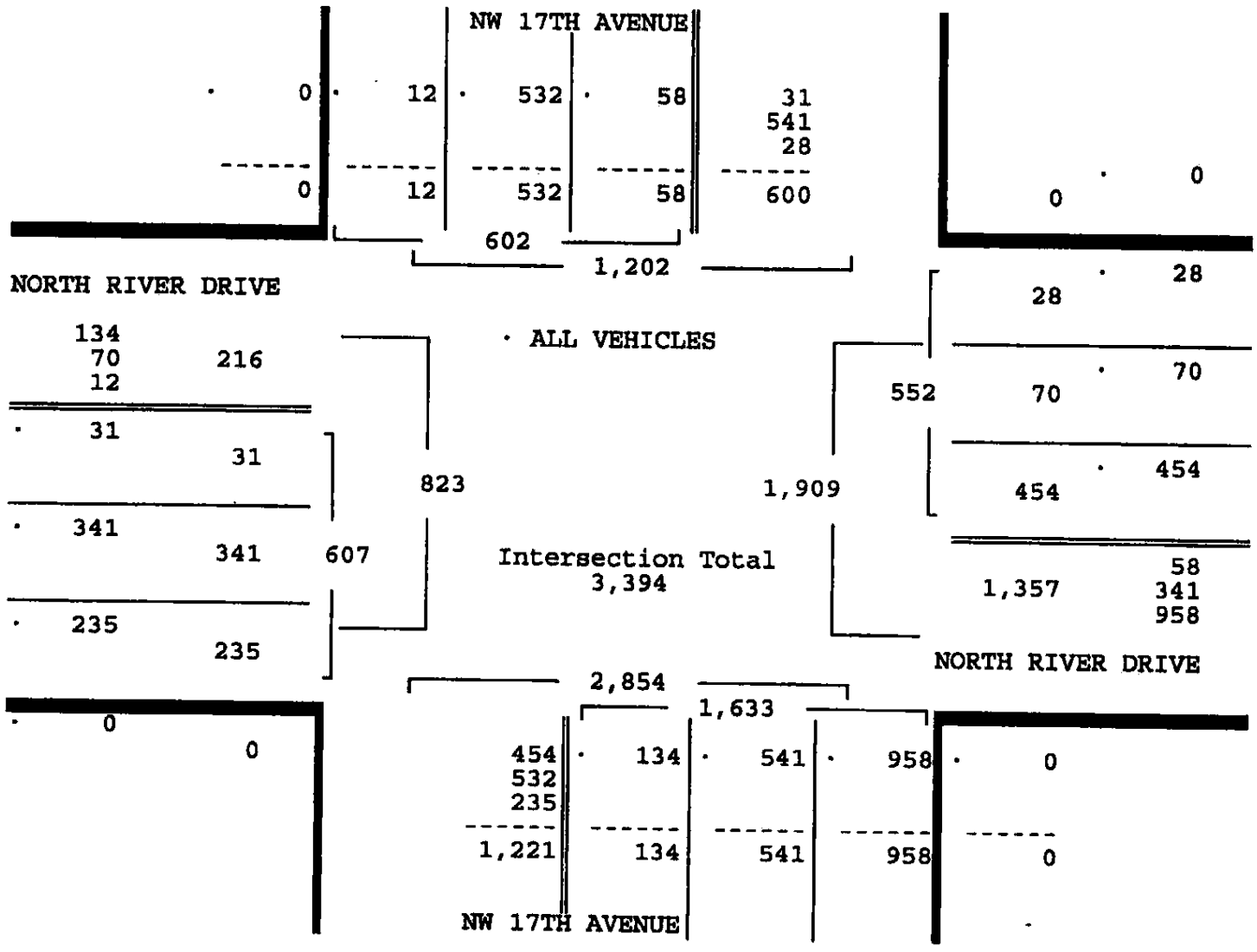
NORTH RIVER DRIVE & NW 17TH AVENUE
MIAMI, FLORIDA
COUNTED BY: L. PALOMINO & I. GONZALEZ
SIGNALIZED, NB LEFT TURNS-OVERPASS

TRAFFIC SURVEY SPECIALISTS, INC.
624 GARDENIA TERRACE
DELRAY BEACH, FLORIDA 33444
(561) 272-3255 FAX (561) 272-4381

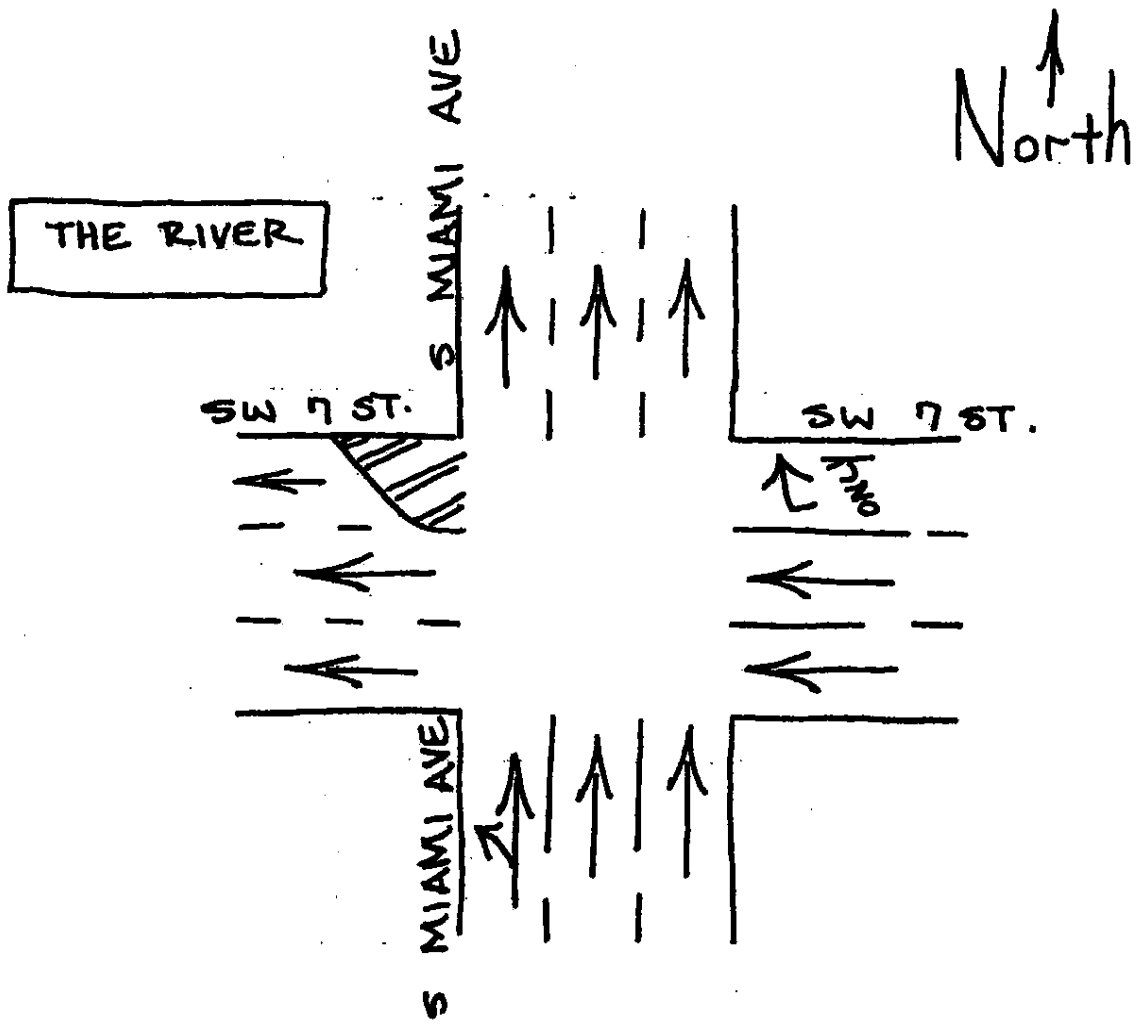
Site Code : 00060151
Start Date: 06/27/06
File I.D. : NRDR17AV
Page : 2

ALL VEHICLES

	NW 17TH AVENUE From North				NORTH RIVER DRIVE From East				NW 17TH AVENUE From South				NORTH RIVER DRIVE From West				
	Right	Thru	UTurn	Left	Right	Thru	UTurn	Left	Right	Thru	UTurn	Left	Right	Thru	UTurn	Left	Total
Date 06/27/06																	
Peak Hour Analysis By Entire Intersection for the Period: 07:00 to 09:00 on 06/27/06																	
Peak start 07:30					07:30				07:30				07:30				
Volume	12	532	0	58	28	70	0	454	958	541	0	134	235	341	1	30	
Percent	2%	88%	0%	10%	5%	13%	0%	82%	59%	33%	0%	8%	39%	56%	0%	5%	
Pk total	602				552				1633				607				
Highest	07:30				07:30				07:45				07:45				
Volume	6	140	0	20	9	13	0	133	267	143	0	42	64	96	0	6	
Hi total	166				155				452				166				
PHF	.91				.89				.90				.91				



Intersection Diagrams

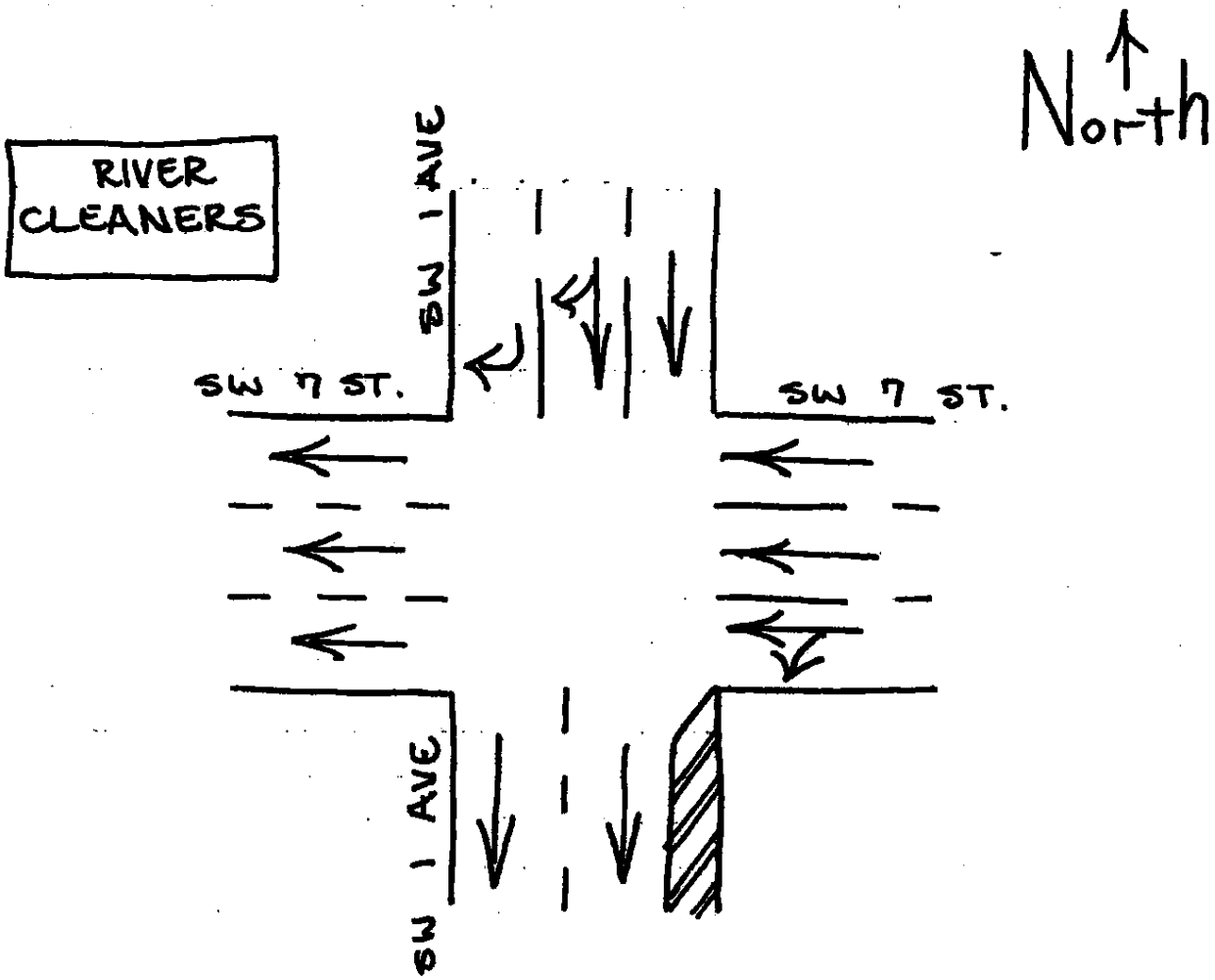


MIAMI , FLORIDA

MAY 24 , 2006

DRAWN BY , MICHAEL MALONE

SIGNALIZED

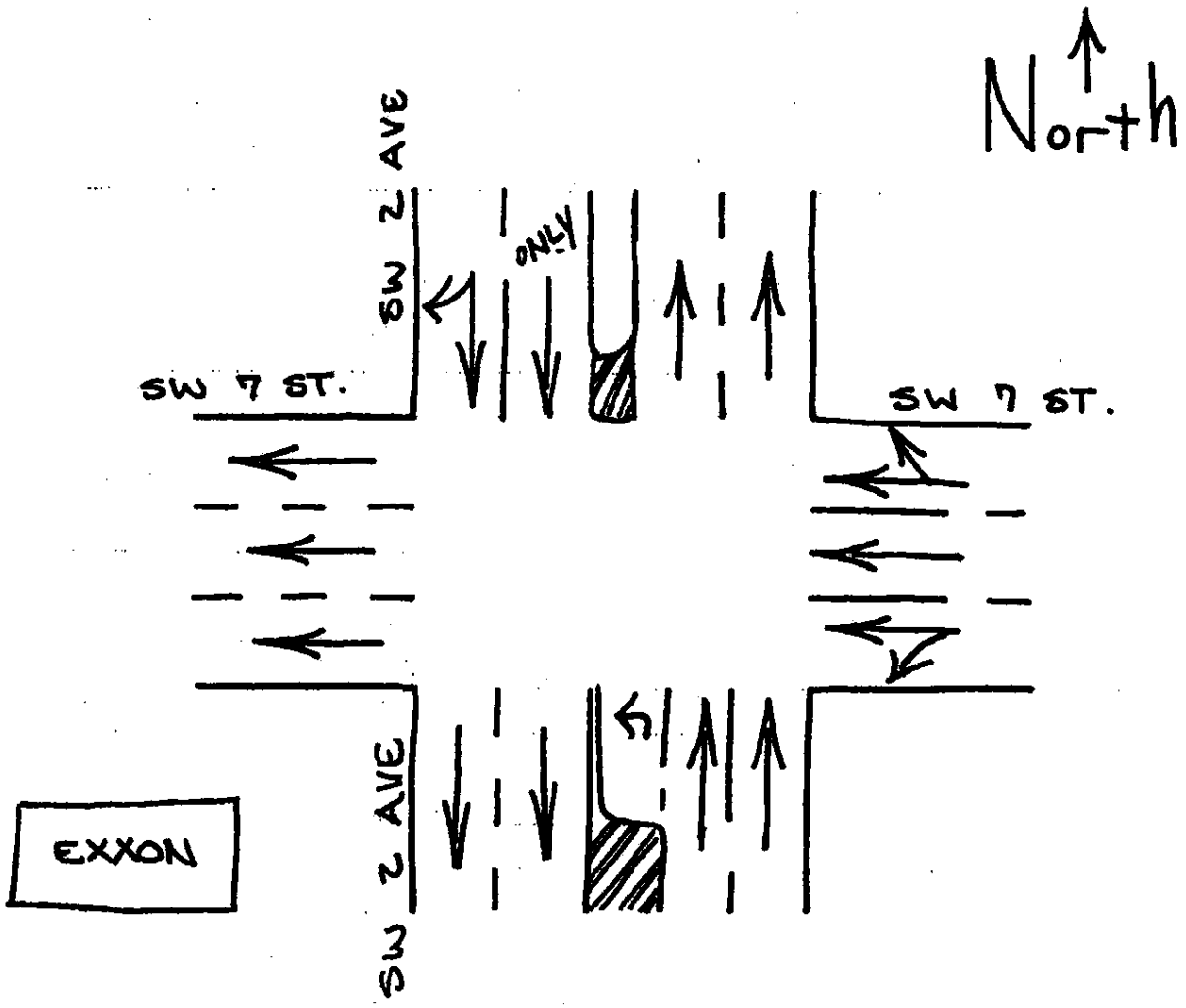


MIAMI , FLORIDA

MAY 24 , 2006

DRAWN BY , MICHAEL MALONE

SIGNALIZED

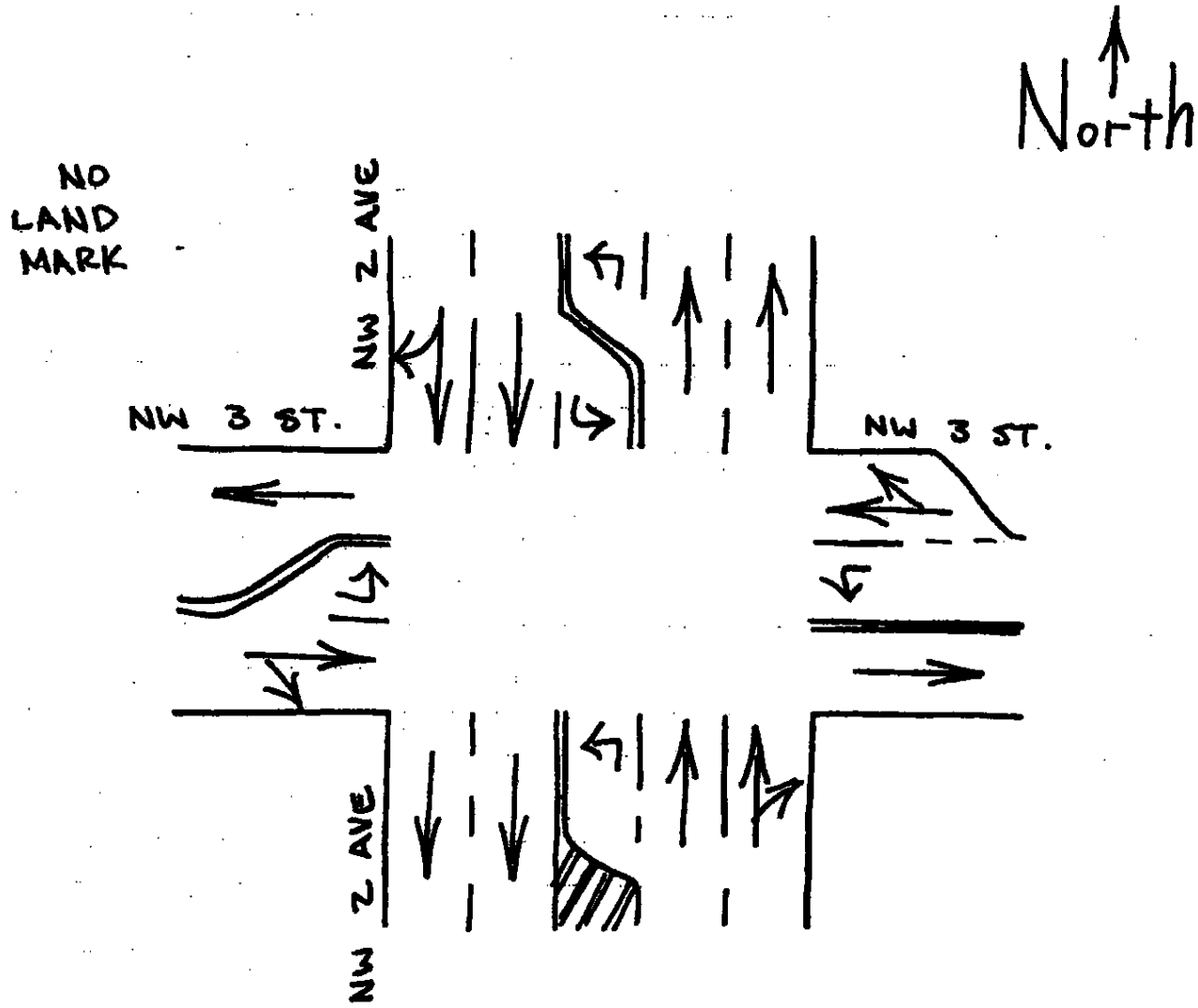


MIAMI , FLORIDA

MAY 24 , 2006

DRAWN BY , MICHAEL MALONE

SIGNALIZED

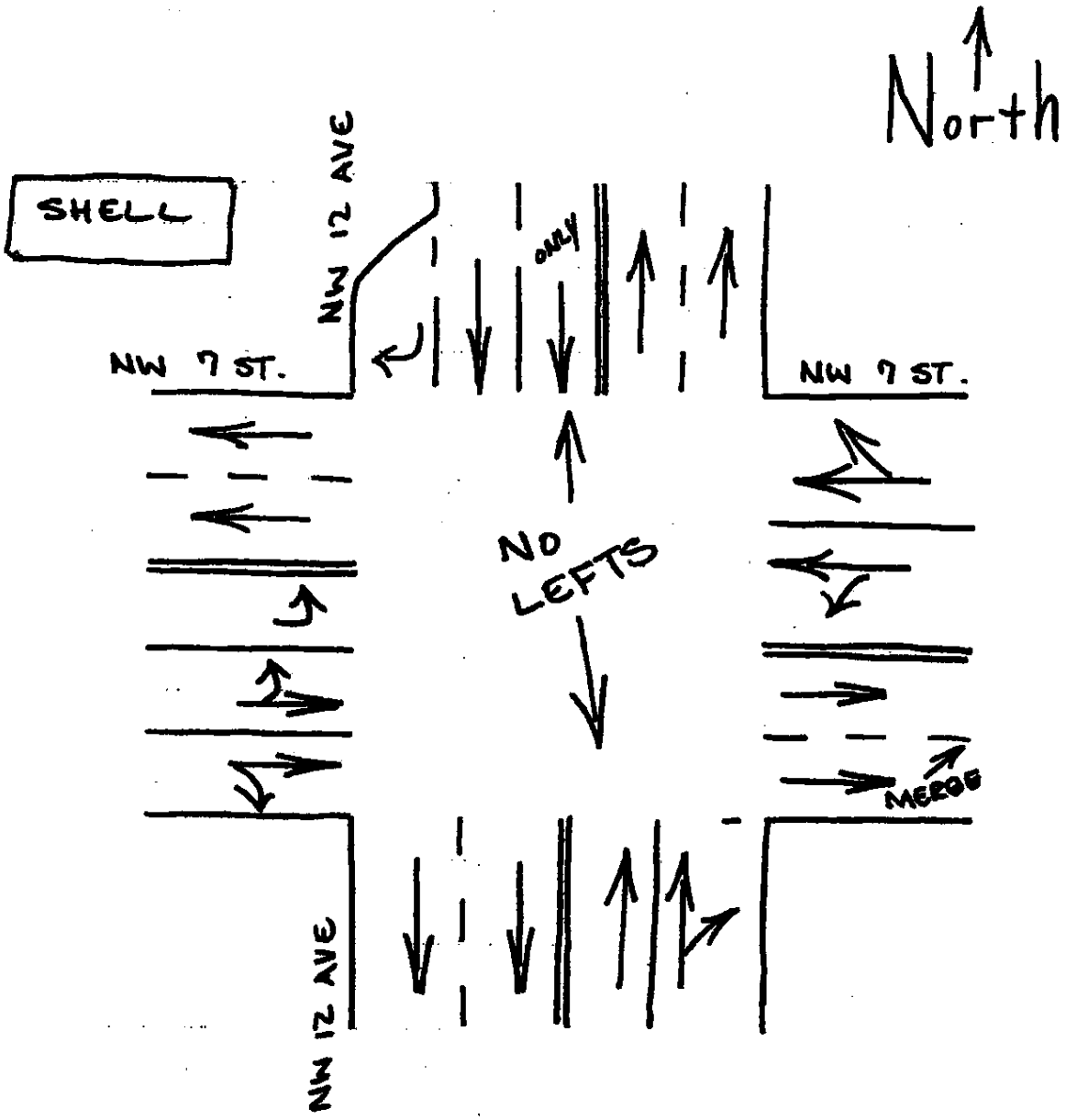


MIAMI , FLORIDA

MAY 24 , 2006

DRAWN BY , MICHAEL MALONE

SIGNALIZED

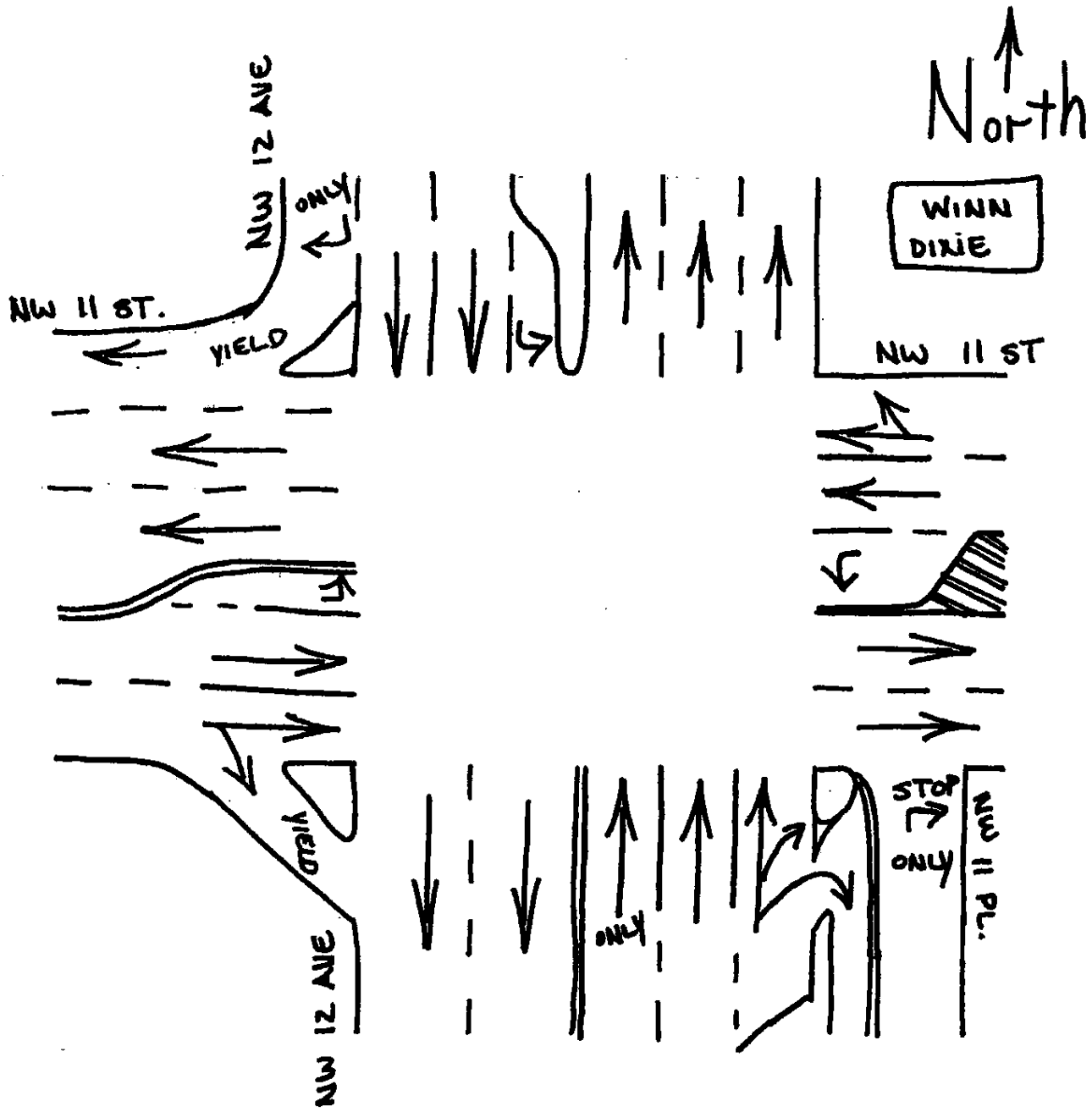


MIAMI , FLORIDA

MAY 24 , 2006

DRAWN By , MICHAEL MALONE

SIGNALIZED

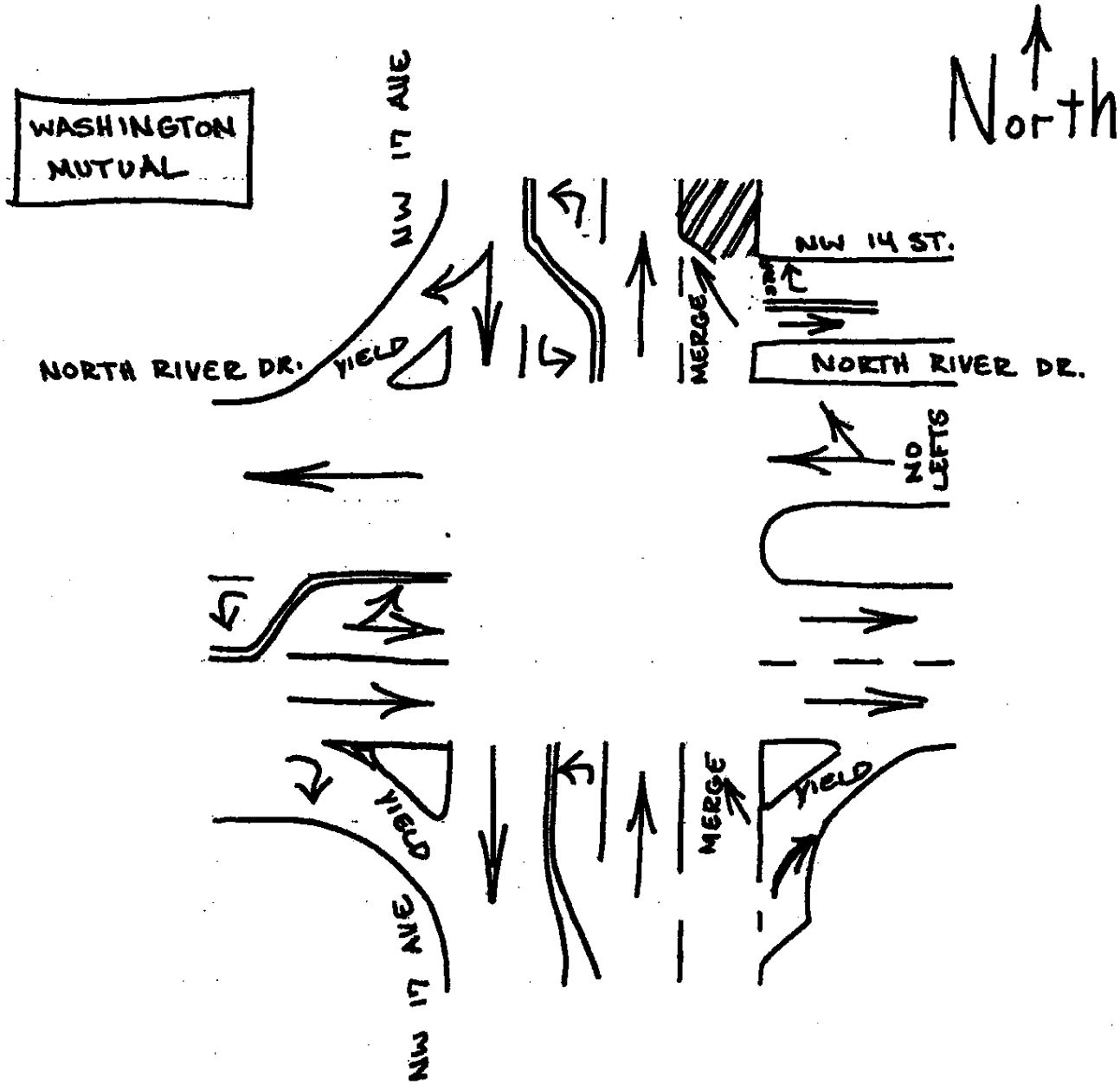


MIAMI , FLORIDA

MAY 24 , 2006

DRAWN By , MICHAEL MALONE

SIGNALIZED

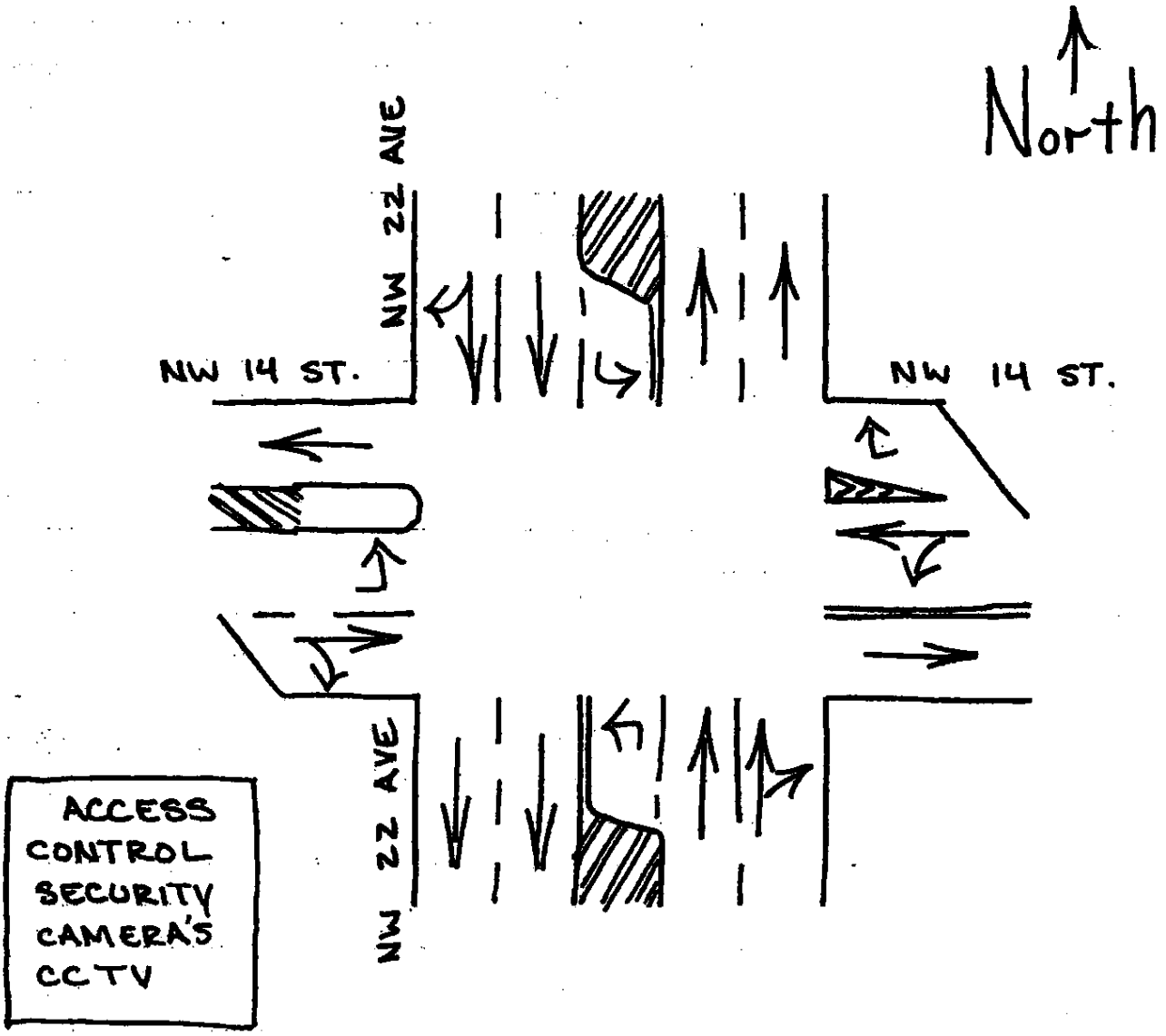


MIAMI , FLORIDA

MAY 24 , 2006

DRAWN BY , MICHAEL MALONE

SIGNALIZED

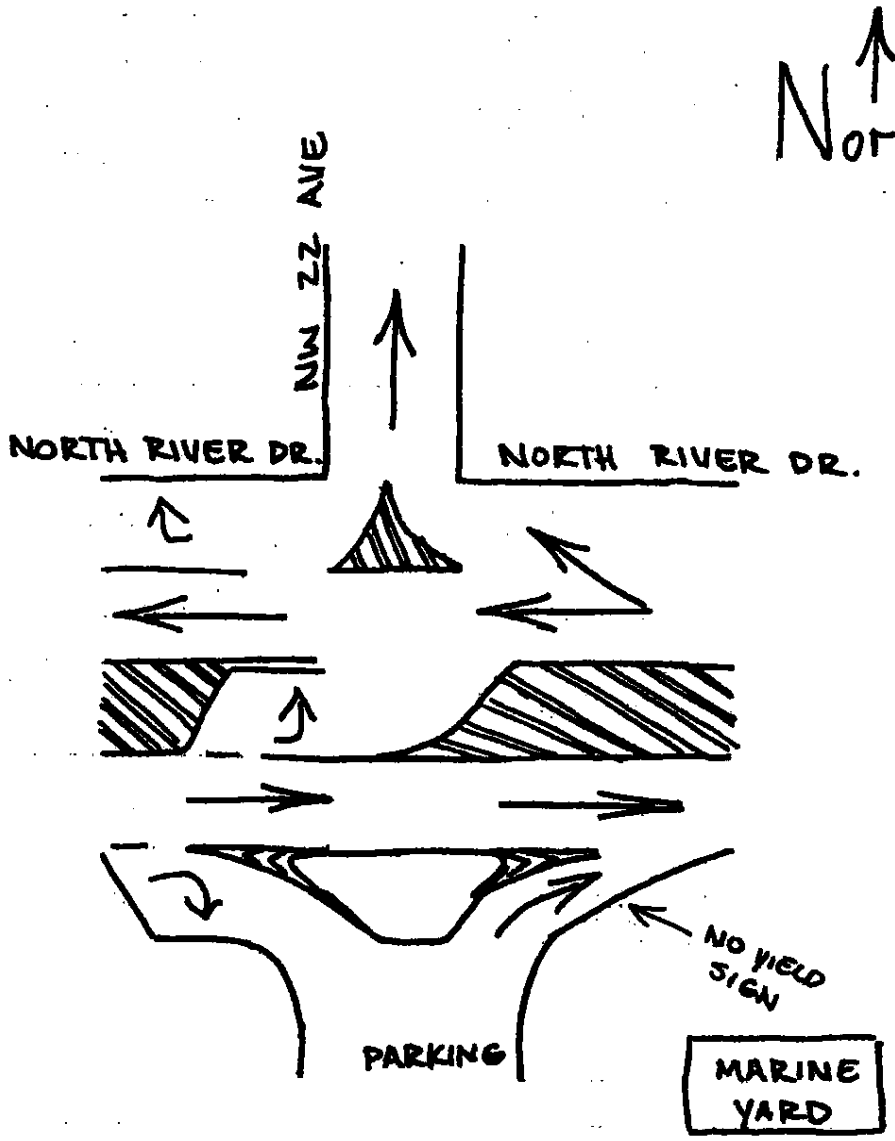


MIAMI , FLORIDA

MAY 24 , 2006

DRAWN By , MICHAEL MALONE

SIGNALIZED

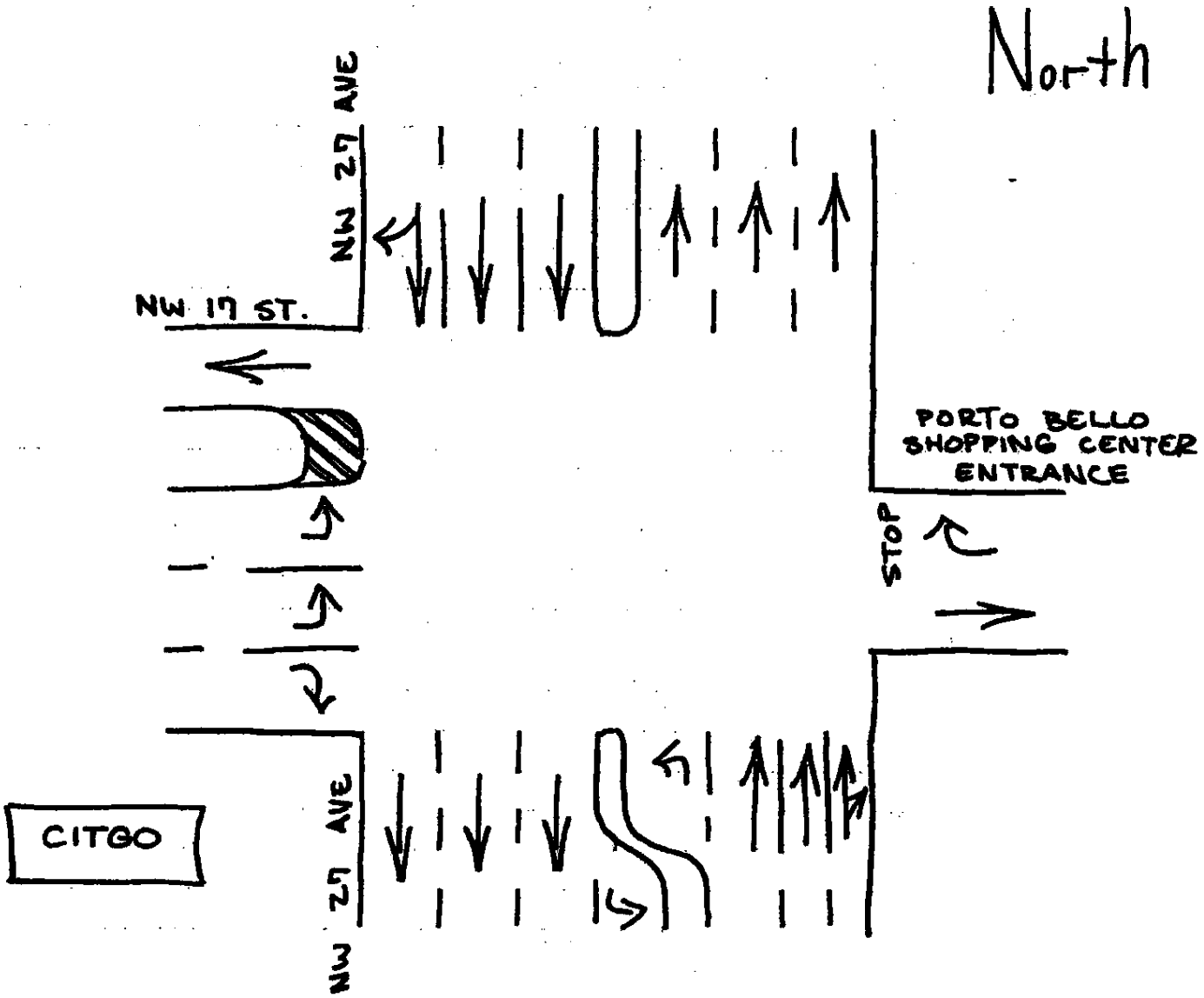


MIAMI , FLORIDA

MAY 24 , 2006

DRAWN BY , MICHAEL MALONE

NOT SIGNALIZED
NO STOP SIGNS
OR YIELD SIGNS

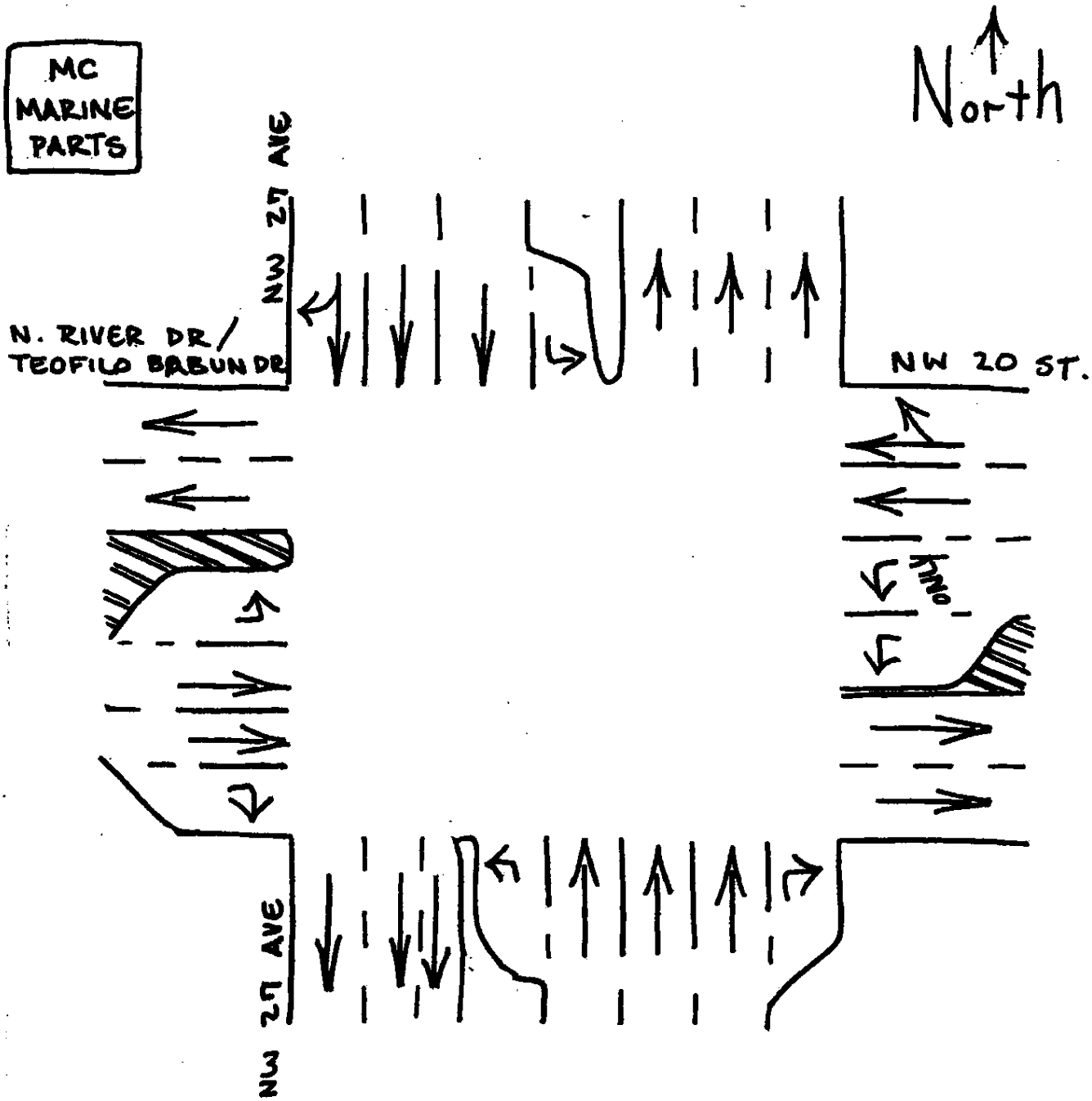


MIAMI , FLORIDA

MAY 24 , 2006

DRAWN BY , MICHAEL MALONE

SIGNALIZED
W/STOP



MIAMI , FLORIDA

MAY 24 , 2006

DRAWN BY , MICHAEL MALONE

SIGNALIZED

24-Hour
Machine Counts

Traffic Survey Specialists, Inc. 624 Gardenia Terrace
Delray Beach, Florida 33444 Phone (561) 272-3255
Volume Report with 24 Hour Totals

Data File : D0523005.PRN
Station : 000000052128
Identification : 009701450036 Interval : 15 minutes
Start date : May 23, 06 Start time : 00:00
Stop date : May 23, 06 Stop time : 24:00
City/Town : Miami, Florida County : Dade
Location : Miami Avenue Bridge South of SW 3 Street

May 23 Northbound Volume for Lane 1

End Time	00	01	02	03	04	05	06	07	08	09	10	11
15	10	3	3	5	1	5	15	54	87	79	63	68
30	8	3	4	5	2	6	23	67	85	87	72	66
45	3	5	2	5	3	7	41	80	105	97	79	88
00	7	6	0	0	3	16	53	100	111	77	55	72
Hr Total	28	17	9	15	9	34	132	301	388	340	269	294

End Time	12	13	14	15	16	17	18	19	20	21	22	23
15	93	73	131	117	98	136	122	60	49	22	27	12
30	78	93	96	112	38	142	89	66	41	19	21	29
45	72	103	94	117	139	138	94	60	31	29	19	5
00	93	67	83	114	105	103	82	49	22	18	14	17
Hr Total	336	336	404	460	380	519	387	235	143	88	81	63

24 Hour Total : 5268
AM peak hour begins : 08:00 AM peak volume : 388 Peak hour factor : 0.87
PM peak hour begins : 16:30 PM peak volume : 522 Peak hour factor : 0.92

May 23 Southbound Volume for Lane 2

End Time	00	01	02	03	04	05	06	07	08	09	10	11
15	8	9	6	2	1	1	21	52	93	109	112	71
30	7	2	2	4	1	2	29	52	80	124	85	83
45	10	6	1	1	2	9	37	51	86	100	88	92
00	4	3	2	4	8	12	45	62	116	88	80	110
Hr Total	29	20	11	11	12	24	132	217	375	421	365	356

End Time	12	13	14	15	16	17	18	19	20	21	22	23
15	99	77	97	54	107	120	92	64	30	38	23	16
30	91	73	70	78	52	127	106	62	41	25	20	16
45	77	92	75	97	128	124	96	47	30	40	22	10
00	100	52	87	83	115	116	90	42	28	23	21	8
Hr Total	367	294	329	312	402	487	384	215	129	126	86	50

24 Hour Total : 5154
AM peak hour begins : 08:45 AM peak volume : 449 Peak hour factor : 0.91
PM peak hour begins : 16:30 PM peak volume : 490 Peak hour factor : 0.96

Data File : D0523005.PRN
Station : 000000052128
Identification : 009701450036 Interval : 15 minutes
Start date : May 23, 06 Start time : 00:00
Stop date : May 23, 06 Stop time : 24:00
City/Town : Miami, Florida County : Dade
Location : Miami Avenue Bridge South of SW 3 Street

May 23 Total Volume for All Lanes

End Time	00	01	02	03	04	05	06	07	08	09	10	11
15	18	12	9	7	2	6	36	106	180	188	175	139
30	15	5	6	9	3	8	52	119	165	211	157	149
45	13	11	3	6	5	16	78	131	191	197	167	180
00	11	9	2	4	11	28	98	162	227	165	135	182
Hr Total	57	37	20	26	21	58	264	518	763	761	634	650

End Time	12	13	14	15	16	17	18	19	20	21	22	23
15	192	150	228	171	205	256	214	124	79	60	50	28
30	169	166	166	190	90	269	195	128	82	44	41	45
45	149	195	169	214	267	262	190	107	61	69	41	15
00	193	119	170	197	220	219	172	91	50	41	35	25
Hr Total	703	630	733	772	782	1006	771	450	272	214	167	113

24 Hour Total : 10422
AM peak hour begins : 08:45 AM peak volume : 823 Peak hour factor : 0.91
PM peak hour begins : 16:30 PM peak volume : 1012 Peak hour factor : 0.94

Traffic Survey Specialists, Inc. 624 Gardenia Terrace
Delray Beach, Florida 33444 Phone (561) 272-3255
Volume Report with 24 Hour Totals

Data File : D0524005.PRN
Station : 000000052128
Identification : 009701450036
Start date : May 24, 06
Stop date : May 24, 06
City/Town : Miami, Florida
Location : Miami Avenue Bridge South of SW 3 Street
Interval : 15 minutes
Start time : 00:00
Stop time : 24:00
County : Dade

May 24 Northbound Volume for Lane 1

End Time	00	01	02	03	04	05	06	07	08	09	10	11
15	14	3	7	4	3	2	19	57	84	95	73	164
30	12	5	6	2	2	14	20	59	86	77	74	178
45	9	10	11	4	1	4	43	63	110	85	73	169
00	10	5	1	2	2	14	46	77	122	83	115	294
Hr Total	45	23	25	12	8	34	128	256	402	340	335	805

End Time	12	13	14	15	16	17	18	19	20	21	22	23
15	305	114	98	120	98	115	124	83	45	31	21	24
30	246	95	77	104	87	152	53	57	28	27	23	11
45	258	105	107	119	95	145	158	73	38	30	25	11
00	203	96	101	113	105	105	86	38	25	19	26	21
Hr Total	1012	410	383	456	385	517	421	251	136	107	95	67

24 Hour Total : 6653
AM peak hour begins : 11:30 AM peak volume : 1014 Peak hour factor : 0.83
PM peak hour begins : 12:00 PM peak volume : 1012 Peak hour factor : 0.83

May 24 Southbound Volume for Lane 2

End Time	00	01	02	03	04	05	06	07	08	09	10	11
15	8	8	7	2	10	12	26	46	74	111	98	170
30	8	6	3	2	9	16	35	51	92	112	72	169
45	7	13	3	4	6	21	41	57	115	126	76	154
00	6	2	3	8	3	30	56	55	138	117	114	97
Hr Total	29	29	16	16	28	79	158	209	419	466	360	590

End Time	12	13	14	15	16	17	18	19	20	21	22	23
15	202	100	76	79	90	120	119	114	56	35	23	17
30	137	97	75	85	84	154	58	76	27	36	28	5
45	137	88	71	88	97	118	124	54	29	28	21	17
00	88	88	69	94	116	125	105	41	57	20	17	12
Hr Total	564	373	291	346	387	517	406	285	169	119	89	51

24 Hour Total : 5996
AM peak hour begins : 11:15 AM peak volume : 622 Peak hour factor : 0.77
PM peak hour begins : 12:00 PM peak volume : 564 Peak hour factor : 0.70

Traffic Survey Specialists, Inc. 624 Gardenia Terrace
Delray Beach, Florida 33444 Phone (561) 272-3255
Volume Report with 24 Hour Totals

Data File : D0524005.PRN
Station : 000000052128
Identification : 009701450036
Interval : 15 minutes
Start date : May 24, 06
Start time : 00:00
Stop date : May 24, 06
Stop time : 24:00
City/Town : Miami, Florida
County : Dade
Location : Miami Avenue Bridge South of SW 3 Street

May 24 Total Volume for All Lanes

End Time	00	01	02	03	04	05	06	07	08	09	10	11
15	22	11	14	6	13	14	45	103	158	206	171	334
30	20	11	9	4	11	30	55	110	178	189	146	347
45	16	23	14	8	7	25	84	120	225	211	149	323
00	16	7	4	10	5	44	102	132	260	200	229	391
Hr Total	74	52	41	28	36	113	286	465	821	806	695	1395

End Time	12	13	14	15	16	17	18	19	20	21	22	23
15	507	214	174	199	188	235	243	197	101	66	44	41
30	383	192	152	189	171	306	111	133	55	63	51	16
45	395	193	178	207	192	263	282	127	67	58	46	28
00	291	184	170	207	221	230	191	79	82	39	43	33
Hr Total	1576	783	674	802	772	1034	827	536	305	226	184	118

24 Hour Total : 12649
AM peak hour begins : 11:30 AM peak volume : 1604 Peak hour factor : 0.79
PM peak hour begins : 12:00 PM peak volume : 1576 Peak hour factor : 0.78

Traffic Survey Specialists, Inc. 624 Gardenia Terrace
Delray Beach, Florida 33444 Phone (561) 272-3255
Volume Report with 24 Hour Totals

Data File : D0523013.PRN
Station : 000000052124
Identification : 000110252090 Interval : 15 minutes
Start date : May 23, 06 Start time : 00:00
Stop date : May 23, 06 Stop time : 24:00
City/Town : Miami, Florida County : Dade
Location : North River Drive West of NW 9 Avenue

May 23 Eastbound Volume for Lane 1

End Time	00	01	02	03	04	05	06	07	08	09	10	11
15	0	0	0	0	0	0	0	0	2	2	3	2
30	0	0	0	0	0	0	0	0	2	0	5	6
45	1	1	0	0	2	0	1	0	3	0	4	1
00	0	0	0	0	0	0	0	0	1	1	2	2
Hr Total	1	1	0	0	2	0	1	0	8	3	14	11

End Time	12	13	14	15	16	17	18	19	20	21	22	23
15	0	3	1	0	4	3	1	2	2	0	0	1
30	4	3	2	2	2	1	3	0	4	1	2	1
45	2	1	3	4	1	1	3	2	1	1	1	1
00	3	4	0	2	1	4	2	5	1	0	0	0
Hr Total	9	11	6	8	8	9	9	9	8	2	3	3

24 Hour Total : 126
AM peak hour begins : 10:00 AM peak volume : 14 Peak hour factor : 0.70
PM peak hour begins : 19:30 PM peak volume : 13 Peak hour factor : 0.65

May 23 Westbound Volume for Lane 2

End Time	00	01	02	03	04	05	06	07	08	09	10	11
15	1	0	0	0	0	0	1	1	3	4	4	3
30	0	0	0	0	0	0	1	3	4	3	2	2
45	0	0	1	0	2	0	0	0	2	2	2	2
00	0	0	0	0	0	1	0	1	5	0	0	0
Hr Total	1	0	1	0	2	1	2	5	14	9	8	7

End Time	12	13	14	15	16	17	18	19	20	21	22	23
15	1	2	1	0	2	5	1	2	0	0	0	1
30	0	2	1	0	2	1	0	0	0	1	1	0
45	2	1	4	1	3	3	2	2	1	0	2	0
00	3	1	4	0	5	1	1	0	1	1	1	0
Hr Total	6	6	10	1	12	10	4	4	2	2	4	1

24 Hour Total : 112
AM peak hour begins : 08:15 AM peak volume : 15 Peak hour factor : 0.75
PM peak hour begins : 16:15 PM peak volume : 15 Peak hour factor : 0.75

Traffic Survey Specialists, Inc. 624 Gardenia Terrace
Delray Beach, Florida 33444 Phone (561) 272-3255

Data File : D0523013.PRN
Station : 000000052124
Identification : 000110252090 Interval : 15 minutes
Start date : May 23, 06 Start time : 00:00
Stop date : May 23, 06 Stop time : 24:00
City/Town : Miami, Florida County : Dade
Location : North River Drive West of NW 9 Avenue

May 23 Total Volume for All Lanes

End Time	00	01	02	03	04	05	06	07	08	09	10	11
15	1	0	0	0	0	0	1	1	5	6	7	5
30	0	0	0	0	0	0	1	3	6	3	7	8
45	1	1	1	0	4	0	1	0	5	2	6	3
00	0	0	0	0	0	1	0	1	6	1	2	2
Hr Total	2	1	1	0	4	1	3	5	22	12	22	18

End Time	12	13	14	15	16	17	18	19	20	21	22	23
15	1	5	2	0	6	8	2	4	2	0	0	2
30	4	5	3	2	4	2	3	0	4	2	3	1
45	4	2	7	5	4	4	5	4	2	1	3	1
00	6	5	4	2	6	5	3	5	2	1	1	0
Hr Total	15	17	16	9	20	19	13	13	10	4	7	4

24 Hour Total : 238
AM peak hour begins : 08:15 AM peak volume : 23 Peak hour factor : 0.96
PM peak hour begins : 16:15 PM peak volume : 22 Peak hour factor : 0.69

Traffic Survey Specialists, Inc. 624 Gardenia Terrace
Delray Beach, Florida 33444 Phone (561) 272-3255
Volume Report with 24 Hour Totals

Data File : D0524013.PRN
Station : 000000052124
Identification : 000110252090 Interval : 15 minutes
Start date : May 24, 06 Start time : 00:00
Stop date : May 24, 06 Stop time : 24:00
City/Town : Miami, Florida County : Dade
Location : North River Drive West of NW 9 Avenue

May 24 Eastbound Volume for Lane 1

End Time	00	01	02	03	04	05	06	07	08	09	10	11
15	1	1	0	1	0	0	1	2	1	1	1	2
30	0	0	0	0	0	0	0	0	0	1	1	2
45	0	0	0	0	0	1	0	0	2	4	2	3
00	0	0	0	0	0	0	0	0	3	2	3	0
Hr Total	1	1	0	1	0	1	1	2	6	8	7	7

End Time	12	13	14	15	16	17	18	19	20	21	22	23
15	0	1	3	1	1	2	1	1	2	1	1	1
30	1	2	5	4	2	7	2	1	2	1	0	0
45	2	1	1	1	2	1	3	4	1	1	0	1
00	2	3	5	2	2	3	3	1	3	1	1	1
Hr Total	5	7	14	8	7	13	9	7	8	4	2	3

24 Hour Total : 122
AM peak hour begins : 10:45 AM peak volume : 10 Peak hour factor : 0.83
PM peak hour begins : 14:00 PM peak volume : 14 Peak hour factor : 0.70

May 24 Westbound Volume for Lane 2

End Time	00	01	02	03	04	05	06	07	08	09	10	11
15	0	1	0	0	0	0	2	1	1	2	1	0
30	0	0	0	1	0	0	0	1	3	4	4	1
45	0	0	0	1	0	1	1	1	2	0	2	6
00	0	0	0	0	0	0	1	3	4	2	1	3
Hr Total	0	1	0	2	0	1	4	6	10	8	8	10

End Time	12	13	14	15	16	17	18	19	20	21	22	23
15	1	1	2	2	0	4	0	1	1	0	0	2
30	3	3	2	3	2	3	4	1	3	1	1	0
45	3	1	1	4	1	0	2	1	1	1	0	1
00	2	3	0	2	2	2	1	1	1	0	0	0
Hr Total	9	8	5	11	5	9	7	4	6	2	1	3

24 Hour Total : 120
AM peak hour begins : 11:30 AM peak volume : 13 Peak hour factor : 0.54
PM peak hour begins : 15:00 PM peak volume : 11 Peak hour factor : 0.69

Data File : D0524013.PRN
Station : 000000052124
Identification : 000110252090 Interval : 15 minutes
Start date : May 24, 06 Start time : 00:00
Stop date : May 24, 06 Stop time : 24:00
City/Town : Miami, Florida County : Dade
Location : North River Drive West of NW 9 Avenue

May 24 Total Volume for All Lanes

End Time	00	01	02	03	04	05	06	07	08	09	10	11
15	1	2	0	1	0	0	3	3	2	3	2	2
30	0	0	0	1	0	0	0	1	3	5	5	3
45	0	0	0	1	0	2	1	1	4	4	4	9
00	0	0	0	0	0	0	1	3	7	4	4	3
Hr Total	1	2	0	3	0	2	5	8	16	16	15	17

End Time	12	13	14	15	16	17	18	19	20	21	22	23
15	1	2	5	3	1	6	1	2	3	1	1	3
30	4	5	7	7	4	10	6	2	5	2	1	0
45	5	2	2	5	3	1	5	5	2	2	0	2
00	4	6	5	4	4	5	4	2	4	1	1	1
Hr Total	14	15	19	19	12	22	16	11	14	6	3	6

24 Hour Total : 242
AM peak hour begins : 08:30 AM peak volume : 19 Peak hour factor : 0.68
PM peak hour begins : 16:30 PM peak volume : 23 Peak hour factor : 0.57

Traffic Survey Specialists, Inc. 624 Gardenia Terrace
Delray Beach, Florida 33444 Phone (561) 272-3255

Volume Report with 24 Hour Totals

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Data File : D0523010.PRN
Station : 000000052123
Identification : 000210321024
Start date : May 23, 06
Stop date : May 23, 06
City/Town : Miami, Florida
Location : North River Drive East of NW 15 Avenue
Interval : 15 minutes
Start time : 00:00
Stop time : 24:00
County : Dade

****

May 23 Eastbound Volume for Lane 1

End Time	00	01	02	03	04	05	06	07	08	09	10	11
15	3	4	4	1	6	8	44	123	169	138	89	65
30	6	4	2	0	5	16	61	133	164	97	63	71
45	9	7	5	1	7	20	115	188	136	101	73	76
00	6	4	1	6	9	42	137	199	149	89	95	75
Hr Total	24	19	12	8	27	86	357	643	618	425	320	287

End Time	12	13	14	15	16	17	18	19	20	21	22	23
15	66	61	70	78	53	79	65	45	40	26	17	19
30	84	81	81	76	57	71	47	40	32	35	30	11
45	87	85	75	61	56	79	39	35	28	25	23	8
00	91	78	72	66	58	61	50	51	32	20	28	11
Hr Total	328	305	298	281	224	290	201	171	132	106	98	49

24 Hour Total : 5309
AM peak hour begins : 07:30 AM peak volume : 720 Peak hour factor : 0.90
PM peak hour begins : 12:00 PM peak volume : 328 Peak hour factor : 0.90

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May 23 Westbound Volume for Lane 2

End Time	00	01	02	03	04	05	06	07	08	09	10	11
15	11	2	3	7	3	11	25	39	56	50	85	94
30	11	4	0	3	5	10	21	35	54	88	105	96
45	5	4	5	2	3	14	29	52	58	93	91	94
00	3	11	2	3	3	17	29	49	71	88	92	86
Hr Total	30	21	10	15	14	52	104	175	239	319	373	370

End Time	12	13	14	15	16	17	18	19	20	21	22	23
15	81	82	76	132	102	157	88	55	42	38	25	20
30	103	80	89	114	108	148	83	62	44	41	19	15
45	87	97	109	133	142	127	61	45	36	24	22	12
00	90	83	83	139	159	78	51	65	43	27	28	17
Hr Total	361	342	357	518	511	510	283	227	165	130	94	64

24 Hour Total : 5284
AM peak hour begins : 10:15 AM peak volume : 382 Peak hour factor : 0.91
PM peak hour begins : 16:30 PM peak volume : 606 Peak hour factor : 0.95

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Data File : D0524010.PRN
Station : 000000052123
Identification : 000210321024 Interval : 15 minutes
Start date : May 24, 06 Start time : 00:00
Stop date : May 24, 06 Stop time : 24:00
City/Town : Miami, Florida County : Dade
Location : North River Drive East of NW 15 Avenue

May 24 Total Volume for All Lanes

End Time	00	01	02	03	04	05	06	07	08	09	10	11
15	21	11	6	5	4	14	61	145	183	161	190	148
30	17	13	10	8	10	22	95	178	227	185	214	181
45	20	11	9	0	6	31	129	187	209	205	190	162
00	9	8	7	11	14	51	140	269	229	187	205	183
Hr Total	67	43	32	24	34	118	425	779	848	738	799	674

End Time	12	13	14	15	16	17	18	19	20	21	22	23
15	162	145	174	136	189	235	146	107	112	57	40	45
30	133	203	176	197	158	185	147	100	71	50	48	25
45	197	151	176	206	183	177	134	97	58	59	46	35
00	180	154	162	179	204	167	103	98	60	64	37	30
Hr Total	672	653	688	718	734	764	530	402	301	230	171	135

24 Hour Total : 10579
AM peak hour begins : 07:45 AM peak volume : 888 Peak hour factor : 0.83
PM peak hour begins : 16:30 PM peak volume : 807 Peak hour factor : 0.86

Traffic Survey Specialists, Inc. 624 Gardenia Terrace
Delray Beach, Florida 33444 Phone (561) 272-3255
Volume Report with 24 Hour Totals

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Data File : D0523011.PRN
Station : 000000052122
Identification : 009701450015 Interval : 15 minutes
Start date : May 23, 06 Start time : 00:00
Stop date : May 23, 06 Stop time : 24:00
City/Town : Miami, Florida County : Dade
Location : North River Drive West of NW 15 Avenue

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May 23 Westbound Volume for Lane 1

End Time	00	01	02	03	04	05	06	07	08	09	10	11
15	6	4	3	2	5	6	39	66	63	45	65	74
30	6	3	1	2	4	11	26	53	74	79	66	72
45	5	5	3	3	1	12	58	69	68	68	77	61
00	7	2	4	1	4	21	58	67	67	60	55	70
Hr Total	24	14	11	8	14	50	181	255	272	252	263	277

End Time	12	13	14	15	16	17	18	19	20	21	22	23
15	66	61	80	104	113	150	103	56	38	41	27	18
30	61	64	81	91	118	166	98	54	36	39	20	15
45	71	63	82	111	127	131	72	62	31	31	22	11
00	70	72	82	114	140	130	68	61	37	33	24	10
Hr Total	268	260	325	420	498	577	341	233	142	144	93	54

24 Hour Total : 4976
AM peak hour begins : 10:30 AM peak volume : 278 Peak hour factor : 0.90
PM peak hour begins : 16:45 PM peak volume : 587 Peak hour factor : 0.88

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May 23 Eastbound Volume for Lane 2

End Time	00	01	02	03	04	05	06	07	08	09	10	11
15	5	4	3	1	3	6	25	79	103	106	56	47
30	8	3	0	2	1	9	50	105	108	72	52	71
45	5	3	4	3	3	13	74	106	94	64	58	47
00	4	3	0	7	8	20	94	148	97	55	65	53
Hr Total	22	13	7	13	15	48	243	438	402	297	231	218

End Time	12	13	14	15	16	17	18	19	20	21	22	23
15	53	63	44	61	72	91	73	45	39	24	15	15
30	65	57	57	65	60	122	57	51	43	41	26	18
45	56	36	52	73	62	94	59	37	26	23	16	6
00	61	55	48	67	87	101	59	47	23	24	10	8
Hr Total	235	211	201	266	281	408	248	180	131	112	67	47

24 Hour Total : 4334
AM peak hour begins : 07:30 AM peak volume : 465 Peak hour factor : 0.79
PM peak hour begins : 17:00 PM peak volume : 408 Peak hour factor : 0.84

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Traffic Survey Specialists, Inc. 624 Gardenia Terrace
Delray Beach, Florida 33444 Phone (561) 272-3255

Data File : D0523011.PRN
Station : 000000052122
Identification : 009701450015 Interval : 15 minutes
Start date : May 23, 06 Start time : 00:00
Stop date : May 23, 06 Stop time : 24:00
City/Town : Miami, Florida County : Dade
Location : North River Drive West of NW 15 Avenue

May 23 Total Volume for All Lanes

End Time	00	01	02	03	04	05	06	07	08	09	10	11
15	11	8	6	3	8	12	64	145	166	151	121	121
30	14	6	1	4	5	20	76	158	182	151	118	143
45	10	8	7	6	4	25	132	175	162	132	135	108
00	11	5	4	8	12	41	152	215	164	115	120	123
Hr Total	46	27	18	21	29	98	424	693	674	549	494	495

End Time	12	13	14	15	16	17	18	19	20	21	22	23
15	119	124	124	165	185	241	176	101	77	65	42	33
30	126	121	138	156	178	288	155	105	79	80	46	33
45	127	99	134	184	189	225	131	99	57	54	38	17
00	131	127	130	181	227	231	127	108	60	57	34	18
Hr Total	503	471	526	686	779	985	589	413	273	256	160	101

24 Hour Total : 9310
AM peak hour begins : 07:30 AM peak volume : 738 Peak hour factor : 0.86
PM peak hour begins : 17:00 PM peak volume : 985 Peak hour factor : 0.86

Traffic Survey Specialists, Inc. 624 Gardenia Terrace
Delray Beach, Florida 33444 Phone (561) 272-3255
Volume Report with 24 Hour Totals

Data File : D0524011.PRN
Station : 000000052122
Identification : 009701450015
Start date : May 24, 06
Stop date : May 24, 06
City/Town : Miami, Florida
Location : North River Drive West of NW 15 Avenue
Interval : 15 minutes
Start time : 00:00
Stop time : 24:00
County : Dade

May 24 Westbound Volume for Lane 1

End Time	00	01	02	03	04	05	06	07	08	09	10	11
15	8	4	2	2	2	8	32	69	75	55	59	55
30	6	4	1	0	5	8	35	54	65	60	86	78
45	6	2	1	4	2	12	64	68	65	51	51	78
00	7	3	2	2	5	25	74	78	62	61	67	70
Hr Total	27	13	6	8	14	53	205	269	267	227	263	281

End Time	12	13	14	15	16	17	18	19	20	21	22	23
15	68	64	85	67	117	166	138	91	43	31	22	17
30	65	68	100	96	117	139	133	77	41	46	30	9
45	69	67	77	108	141	109	98	58	31	43	23	16
00	63	55	74	102	120	123	78	60	29	22	21	8
Hr Total	265	254	336	373	495	537	447	286	144	142	96	50

24 Hour Total : 5058
AM peak hour begins : 11:15 AM peak volume : 294 Peak hour factor : 0.94
PM peak hour begins : 16:30 PM peak volume : 566 Peak hour factor : 0.85

May 24 Eastbound Volume for Lane 2

End Time	00	01	02	03	04	05	06	07	08	09	10	11
15	3	5	1	0	3	5	30	83	110	94	65	48
30	8	6	1	1	6	10	54	89	108	65	41	53
45	5	1	2	1	2	11	86	122	113	65	66	44
00	3	5	0	5	6	20	97	139	94	53	68	55
Hr Total	19	17	4	7	17	46	267	433	425	277	240	200

End Time	12	13	14	15	16	17	18	19	20	21	22	23
15	57	51	54	54	71	92	82	58	67	23	27	21
30	36	55	51	57	77	115	53	55	63	24	18	9
45	64	57	59	76	67	87	49	62	32	23	21	11
00	52	57	62	71	98	88	54	52	31	26	16	7
Hr Total	209	220	226	258	313	382	238	227	193	96	82	48

24 Hour Total : 4444
AM peak hour begins : 07:30 AM peak volume : 479 Peak hour factor : 0.86
PM peak hour begins : 16:45 PM peak volume : 392 Peak hour factor : 0.85

Traffic Survey Specialists, Inc. 624 Gardenia Terrace
Delray Beach, Florida 33444 Phone (561) 272-3255
Volume Report with 24 Hour Totals

Data File : D0524011.PRN
Station : 000000052122
Identification : 009701450015
Start date : May 24, 06
Stop date : May 24, 06
City/Town : Miami, Florida
Location : North River Drive West of NW 15 Avenue
Interval : 15 minutes
Start time : 00:00
Stop time : 24:00
County : Dade

May 24 Total Volume for All Lanes

End Time	00	01	02	03	04	05	06	07	08	09	10	11
15	11	9	3	2	5	13	62	152	185	149	124	103
30	14	10	2	1	11	18	89	143	173	125	127	131
45	11	3	3	5	4	23	150	190	178	116	117	122
00	10	8	2	7	11	45	171	217	156	114	135	125
Hr Total	46	30	10	15	31	99	472	702	692	504	503	481

End Time	12	13	14	15	16	17	18	19	20	21	22	23
15	125	115	139	121	188	258	220	149	110	54	49	38
30	101	123	151	153	194	254	186	132	104	70	48	18
45	133	124	136	184	208	196	147	120	63	66	44	27
00	115	112	136	173	218	211	132	112	60	48	37	15
Hr Total	474	474	562	631	808	919	685	513	337	238	178	98

24 Hour Total : 9502
AM peak hour begins : 07:30 AM peak volume : 765 Peak hour factor : 0.88
PM peak hour begins : 16:30 PM peak volume : 938 Peak hour factor : 0.91

Traffic Survey Specialists, Inc. 624 Gardenia Terrace
Delray Beach, Florida 33444 Phone (561) 272-3255
Volume Report with 24 Hour Totals

****

Data File : D0524007.PRN
Station : 000000052121
Identification : 009601140065 Interval : 15 minutes
Start date : May 24, 06 Start time : 00:00
Stop date : May 24, 06 Stop time : 24:00
City/Town : Miami, Florida County : Dade
Location : North River Drive East of NW 24 Avenue

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May 24 Westbound Volume for Lane 1

End Time	00	01	02	03	04	05	06	07	08	09	10	11
15	3	1	1	0	1	5	20	49	49	35	32	23
30	3	4	2	0	5	7	25	35	43	39	47	38
45	6	1	1	2	2	5	50	45	34	34	27	46
00	1	0	1	1	4	11	56	51	37	30	31	40
Hr Total	13	6	5	3	12	28	151	180	163	138	137	147

End Time	12	13	14	15	16	17	18	19	20	21	22	23
15	48	33	56	53	84	109	78	46	51	19	18	7
30	37	46	70	57	71	96	76	42	41	30	27	4
45	60	40	39	64	98	70	50	43	20	21	24	4
00	37	31	50	58	74	70	38	46	21	12	8	3
Hr Total	182	150	215	232	327	345	242	177	133	82	77	18

24 Hour Total : 3163
AM peak hour begins : 06:30 AM peak volume : 190 Peak hour factor : 0.85
PM peak hour begins : 16:30 PM peak volume : 377 Peak hour factor : 0.86

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May 24 Eastbound Volume for Lane 2

End Time	00	01	02	03	04	05	06	07	08	09	10	11
15	4	5	2	0	2	3	22	85	108	84	55	40
30	7	3	3	0	5	9	53	89	91	58	42	51
45	6	2	1	1	1	8	83	119	106	53	57	51
00	1	6	0	5	4	15	92	125	90	46	59	43
Hr Total	18	16	6	6	12	35	250	418	395	241	213	185

End Time	12	13	14	15	16	17	18	19	20	21	22	23
15	53	50	53	58	70	94	78	61	52	28	30	20
30	37	55	47	57	70	114	64	53	38	28	15	11
45	57	56	57	79	62	73	47	58	42	19	20	11
00	49	54	52	74	94	88	52	44	32	25	15	7
Hr Total	196	215	209	268	296	369	241	216	164	100	80	49

24 Hour Total : 4198
AM peak hour begins : 07:30 AM peak volume : 443 Peak hour factor : 0.89
PM peak hour begins : 16:45 PM peak volume : 375 Peak hour factor : 0.82

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Traffic Survey Specialists, Inc. 624 Gardenia Terrace
Delray Beach, Florida 33444 Phone (561) 272-3255
Volume Report with 24 Hour Totals

Data File : D0524007.PRN
Station : 000000052121
Identification : 009601140065
Start date : May 24, 06
Stop date : May 24, 06
City/Town : Miami, Florida
Location : North River Drive East of NW 24 Avenue
Interval : 15 minutes
Start time : 00:00
Stop time : 24:00
County : Dade

May 24 Total Volume for All Lanes

End Time	00	01	02	03	04	05	06	07	08	09	10	11
15	7	6	3	0	3	8	42	134	157	119	87	63
30	10	7	5	0	10	16	78	124	134	97	89	89
45	12	3	2	3	3	13	133	164	140	87	84	97
00	2	6	1	6	8	26	148	176	127	76	90	83
Hr Total	31	22	11	9	24	63	401	598	558	379	350	332

End Time	12	13	14	15	16	17	18	19	20	21	22	23
15	101	83	109	111	154	203	156	107	103	47	48	27
30	74	101	117	114	141	210	140	95	79	58	42	15
45	117	96	96	143	160	143	97	101	62	40	44	15
00	86	85	102	132	168	158	90	90	53	37	23	10
Hr Total	378	365	424	500	623	714	483	393	297	182	157	67

24 Hour Total : 7361
AM peak hour begins : 07:30 AM peak volume : 631 Peak hour factor : 0.90
PM peak hour begins : 16:30 PM peak volume : 741 Peak hour factor : 0.88

Traffic Survey Specialists, Inc. 624 Gardenia Terrace
Delray Beach, Florida 33444 Phone (561) 272-3255
Volume Report with 24 Hour Totals

Data File : D0523007.PRN
Station : 000000052121
Identification : 009601140065
Start date : May 23, 06
Stop date : May 23, 06
City/Town : Miami, Florida
Location : North River Drive East of NW 24 Avenue
Interval : 15 minutes
Start time : 00:00
Stop time : 24:00
County : Dade

May 23 Westbound Volume for Lane 1

End Time	00	01	02	03	04	05	06	07	08	09	10	11
15	1	3	2	2	2	4	29	37	45	33	28	39
30	3	1	4	2	3	6	20	25	35	50	39	45
45	3	3	2	2	1	7	44	45	35	32	55	36
00	4	1	1	0	3	9	42	49	41	47	21	43
Hr Total	11	8	9	6	9	26	135	156	156	162	143	163

End Time	12	13	14	15	16	17	18	19	20	21	22	23
15	45	42	42	64	89	89	55	41	31	17	32	12
30	46	31	58	50	87	110	60	47	25	23	10	9
45	41	34	53	66	73	91	49	30	18	17	8	5
00	39	39	48	62	83	84	42	40	21	14	15	6
Hr Total	171	146	201	242	332	374	206	158	95	71	65	32

24 Hour Total : 3077
AM peak hour begins : 07:30 AM peak volume : 174 Peak hour factor : 0.89
PM peak hour begins : 17:00 PM peak volume : 374 Peak hour factor : 0.85

May 23 Eastbound Volume for Lane 2

End Time	00	01	02	03	04	05	06	07	08	09	10	11
15	6	5	3	1	3	5	21	77	84	92	49	45
30	9	3	0	1	0	8	38	108	105	81	53	56
45	4	2	4	5	3	8	61	99	80	47	47	38
00	4	2	1	5	4	12	93	122	79	58	56	58
Hr Total	23	12	8	12	10	33	213	406	348	278	205	197

End Time	12	13	14	15	16	17	18	19	20	21	22	23
15	43	59	42	58	72	89	83	38	39	25	18	16
30	56	53	44	68	60	106	57	58	56	37	27	22
45	45	39	52	68	60	81	69	39	35	22	18	7
00	76	55	45	73	86	98	68	48	31	22	13	8
Hr Total	220	206	183	267	278	374	277	183	161	106	76	53

24 Hour Total : 4129
AM peak hour begins : 07:15 AM peak volume : 413 Peak hour factor : 0.85
PM peak hour begins : 17:00 PM peak volume : 374 Peak hour factor : 0.88

Traffic Survey Specialists, Inc. 624 Gardenia Terrace
Delray Beach, Florida 33444 Phone (561) 272-3255
Volume Report with 24 Hour Totals

Data File : D0523007.PRN
Station : 000000052121
Identification : 009601140065
Start date : May 23, 06
Stop date : May 23, 06
City/Town : Miami, Florida
Location : North River Drive East of NW 24 Avenue
Interval : 15 minutes
Start time : 00:00
Stop time : 24:00
County : Dade

May 23 Total Volume for All Lanes

End Time	00	01	02	03	04	05	06	07	08	09	10	11
15	7	8	5	3	5	9	50	114	129	125	77	84
30	12	4	4	3	3	14	58	133	140	131	92	101
45	7	5	6	7	4	15	105	144	115	79	102	74
00	8	3	2	5	7	21	135	171	120	105	77	101
Hr Total	34	20	17	18	19	59	348	562	504	440	348	360

End Time	12	13	14	15	16	17	18	19	20	21	22	23
15	88	101	84	122	161	178	138	79	70	42	50	28
30	102	84	102	118	147	216	117	105	81	60	37	31
45	86	73	105	134	133	172	118	69	53	39	26	12
00	115	94	93	135	169	182	110	88	52	36	28	14
Hr Total	391	352	384	509	610	748	483	341	256	177	141	85

24 Hour Total : 7206
AM peak hour begins : 07:30 AM peak volume : 584 Peak hour factor : 0.85
PM peak hour begins : 17:00 PM peak volume : 748 Peak hour factor : 0.87

Traffic Survey Specialists, Inc. 624 Gardenia Terrace
Delray Beach, Florida 33444 Phone (561) 272-3255

Volume Report with 24 Hour Totals

Data File : D0523004.PRN
Station : 000000052129
Identification : 009845970028 Interval : 15 minutes
Start date : May 23, 06 Start time : 00:00
Stop date : May 23, 06 Stop time : 24:00
City/Town : Miami, Florida County : Dade
Location : NW 17 Avenue Bridge North of S River Dr

May 23 Northbound Volume for Lane 1

End Time	00	01	02	03	04	05	06	07	08	09	10	11
15	30	10	12	8	14	27	165	427	407	298	285	256
30	19	14	10	11	25	35	253	375	412	310	266	244
45	29	10	15	8	16	101	352	433	347	301	269	276
00	20	9	15	9	27	118	341	482	372	283	275	259
Hr Total	98	43	52	36	82	281	1111	1717	1538	1192	1095	1035

End Time	12	13	14	15	16	17	18	19	20	21	22	23
15	243	280	263	279	289	333	225	174	136	112	108	71
30	260	259	280	259	302	287	205	193	122	128	87	57
45	252	319	292	250	270	277	206	117	117	108	99	47
00	257	304	270	256	191	252	199	183	121	86	94	39
Hr Total	1012	1162	1105	1044	1052	1149	835	667	496	434	388	214

24 Hour Total : 17838
AM peak hour begins : 07:30 AM peak volume : 1734 Peak hour factor : 0.90
PM peak hour begins : 13:30 PM peak volume : 1166 Peak hour factor : 0.91

May 23 Southbound Volume for Lane 2

End Time	00	01	02	03	04	05	06	07	08	09	10	11
15	57	14	9	21	23	43	132	270	348	280	301	331
30	43	9	15	16	24	52	203	286	315	307	348	356
45	33	19	24	15	26	89	242	331	293	290	312	333
00	31	19	15	11	32	82	224	345	348	311	332	341
Hr Total	164	61	63	63	105	266	801	1232	1304	1188	1293	1361

End Time	12	13	14	15	16	17	18	19	20	21	22	23
15	347	342	378	369	430	432	303	282	218	169	135	100
30	383	343	365	426	408	556	320	295	194	153	79	96
45	355	318	350	301	473	414	293	148	167	139	102	69
00	347	339	312	530	324	354	291	334	159	109	90	58
Hr Total	1432	1342	1405	1626	1635	1756	1207	1059	738	570	406	323

24 Hour Total : 21400
AM peak hour begins : 11:30 AM peak volume : 1404 Peak hour factor : 0.92
PM peak hour begins : 15:45 PM peak volume : 1841 Peak hour factor : 0.87

Traffic Survey Specialists, Inc. 624 Gardenia Terrace
Delray Beach, Florida 33444 Phone (561) 272-3255
Volume Report with 24 Hour Totals

Data File : D0523004.PRN
Station : 000000052129
Identification : 009845970028 Interval : 15 minutes
Start date : May 23, 06 Start time : 00:00
Stop date : May 23, 06 Stop time : 24:00
City/Town : Miami, Florida County : Dade
Location : NW 17 Avenue Bridge North of S River Dr

May 23 Total Volume for All Lanes

End Time	00	01	02	03	04	05	06	07	08	09	10	11
15	87	24	21	29	37	70	297	697	755	578	586	587
30	62	23	25	27	49	87	456	661	727	617	614	600
45	62	29	39	23	42	190	594	764	640	591	581	609
00	51	28	30	20	59	200	565	827	720	594	607	600
Hr Total	262	104	115	99	187	547	1912	2949	2842	2380	2388	2396

End Time	12	13	14	15	16	17	18	19	20	21	22	23
15	590	622	641	648	719	765	528	456	354	281	243	171
30	643	602	645	685	710	843	525	488	316	281	166	153
45	607	637	642	551	743	691	499	265	284	247	201	116
00	604	643	582	786	515	606	490	517	280	195	184	97
Hr Total	2444	2504	2510	2670	2687	2905	2042	1726	1234	1004	794	537

24 Hour Total : 39238
AM peak hour begins : 07:30 AM peak volume : 3073 Peak hour factor : 0.93
PM peak hour begins : 15:45 PM peak volume : 2958 Peak hour factor : 0.94

Traffic Survey Specialists, Inc. 624 Gardenia Terrace
Delray Beach, Florida 33444 Phone (561) 272-3255

Volume Report with 24 Hour Totals

Data File : D0524004.PRN
Station : 000000052129
Identification : 009845970028
Interval : 15 minutes
Start date : May 24, 06
Start time : 00:00
Stop date : May 24, 06
Stop time : 24:00
City/Town : Miami, Florida
County : Dade
Location : NW 17 Avenue Bridge North of S River Dr

May 24 Northbound Volume for Lane 1

End Time	00	01	02	03	04	05	06	07	08	09	10	11
15	35	16	20	12	9	28	176	371	400	351	270	238
30	26	16	13	11	13	37	256	424	380	282	271	264
45	17	19	4	14	17	75	386	371	361	312	184	207
00	18	11	10	12	25	124	409	477	356	245	340	304
Hr Total	96	62	47	49	64	264	1227	1643	1497	1190	1065	1013

End Time	12	13	14	15	16	17	18	19	20	21	22	23
15	256	253	289	248	264	258	259	227	149	88	98	70
30	234	266	276	277	238	252	220	175	141	153	97	49
45	287	238	301	230	261	258	225	164	98	128	92	54
00	310	287	264	245	246	220	183	176	112	97	77	33
Hr Total	1087	1044	1130	1000	1009	988	887	742	500	466	364	206

24 Hour Total : 17640
AM peak hour begins : 07:15 AM peak volume : 1672 Peak hour factor : 0.88
PM peak hour begins : 13:45 PM peak volume : 1153 Peak hour factor : 0.96

May 24 Southbound Volume for Lane 2

End Time	00	01	02	03	04	05	06	07	08	09	10	11
15	64	26	19	12	19	37	139	282	314	304	216	340
30	40	22	20	16	16	60	202	282	338	234	357	358
45	23	25	19	13	26	81	263	332	325	355	213	296
00	22	26	14	14	22	95	262	313	296	270	429	399
Hr Total	149	99	72	55	83	273	866	1209	1273	1163	1215	1393

End Time	12	13	14	15	16	17	18	19	20	21	22	23
15	357	328	329	308	463	536	446	290	218	166	135	83
30	342	370	368	475	373	450	326	251	227	156	113	68
45	340	280	364	462	515	430	261	212	217	105	99	82
00	360	362	386	349	366	253	241	231	156	166	82	44
Hr Total	1399	1340	1447	1594	1717	1669	1274	984	818	593	429	277

24 Hour Total : 21391
AM peak hour begins : 10:45 AM peak volume : 1423 Peak hour factor : 0.83
PM peak hour begins : 16:30 PM peak volume : 1867 Peak hour factor : 0.87

Traffic Survey Specialists, Inc. 624 Gardenia Terrace
Delray Beach, Florida 33444 Phone (561) 272-3255
Volume Report with 24 Hour Totals

Data File : D0524004.PRN
Station : 000000052129
Identification : 009845970028
Interval : 15 minutes
Start date : May 24, 06
Start time : 00:00
Stop date : May 24, 06
Stop time : 24:00
City/Town : Miami, Florida
County : Dade
Location : NW 17 Avenue Bridge North of S River Dr

May 24 Total Volume for All Lanes

End Time	00	01	02	03	04	05	06	07	08	09	10	11
15	99	42	39	24	28	65	315	653	714	655	486	578
30	66	38	33	27	29	97	458	706	718	516	628	622
45	40	44	23	27	43	156	649	703	686	667	397	503
00	40	37	24	26	47	219	671	790	652	515	769	703
Hr Total	245	161	119	104	147	537	2093	2852	2770	2353	2280	2406

End Time	12	13	14	15	16	17	18	19	20	21	22	23
15	613	581	618	556	727	794	705	517	367	254	233	153
30	576	636	644	752	611	702	546	426	368	309	210	117
45	627	518	665	692	776	688	486	376	315	233	191	136
00	670	649	650	594	612	473	424	407	268	263	159	77
Hr Total	2486	2384	2577	2594	2726	2657	2161	1726	1318	1059	793	483

24 Hour Total : 39031
AM peak hour begins : 07:30 AM peak volume : 2925 Peak hour factor : 0.93
PM peak hour begins : 16:30 PM peak volume : 2884 Peak hour factor : 0.91

Traffic Survey Specialists, Inc. 624 Gardenia Terrace
Delray Beach, Florida 33444 Phone (561) 272-3255
Volume Report with 24 Hour Totals

Data File : D0524009.PRN
Station : 000000052130
Identification : 004117430002 Interval : 15 minutes
Start date : May 24, 06 Start time : 00:00
Stop date : May 24, 06 Stop time : 24:00
City/Town : Miami, Florida County : Dade
Location : NW 22 Avenue Bridge South of NW 18 St

May 24 Southbound Volume for Lane 1

End Time	00	01	02	03	04	05	06	07	08	09	10	11
15	28	18	18	10	11	17	96	270	307	264	201	235
30	22	13	6	5	11	25	246	352	288	217	260	199
45	24	17	7	8	7	47	325	285	291	235	202	204
00	13	7	8	12	19	69	372	283	277	233	200	226
Hr Total	87	55	39	35	48	158	1039	1190	1163	949	863	864

End Time	12	13	14	15	16	17	18	19	20	21	22	23
15	212	234	211	262	307	341	331	207	115	111	86	46
30	231	230	226	239	318	330	268	200	195	118	81	43
45	195	208	218	312	353	214	244	187	131	127	76	52
00	223	233	241	308	345	459	239	181	119	101	50	22
Hr Total	861	905	896	1121	1323	1344	1082	775	560	457	293	163

24 Hour Total : 16270
AM peak hour begins : 06:30 AM peak volume : 1319 Peak hour factor : 0.89
PM peak hour begins : 16:30 PM peak volume : 1369 Peak hour factor : 0.97

May 24 Northbound Volume for Lane 2

End Time	00	01	02	03	04	05	06	07	08	09	10	11
15	23	20	10	11	10	26	113	296	230	196	158	195
30	30	24	11	10	14	35	249	310	221	212	268	218
45	27	17	12	5	14	55	344	257	215	224	173	211
00	15	17	9	12	30	70	353	271	221	154	217	212
Hr Total	95	78	42	38	68	186	1059	1134	887	786	816	836

End Time	12	13	14	15	16	17	18	19	20	21	22	23
15	201	214	218	256	276	264	269	191	104	138	113	78
30	226	187	216	254	256	274	296	185	207	69	99	50
45	227	221	224	226	250	158	245	174	145	179	69	51
00	193	222	260	214	250	347	226	161	119	133	70	40
Hr Total	847	844	918	950	1032	1043	1036	711	575	519	351	219

24 Hour Total : 15070
AM peak hour begins : 06:30 AM peak volume : 1303 Peak hour factor : 0.92
PM peak hour begins : 17:45 PM peak volume : 1157 Peak hour factor : 0.83

Data File : D0524009.PRN
Station : 000000052130
Identification : 004117430002 Interval : 15 minutes
Start date : May 24, 06 Start time : 00:00
Stop date : May 24, 06 Stop time : 24:00
City/Town : Miami, Florida County : Dade
Location : NW 22 Avenue Bridge South of NW 18 St

May 24 Total Volume for All Lanes

End Time	00	01	02	03	04	05	06	07	08	09	10	11
15	51	38	28	21	21	43	209	566	537	460	359	430
30	52	37	17	15	25	60	495	662	509	429	528	417
45	51	34	19	13	21	102	669	542	506	459	375	415
00	28	24	17	24	49	139	725	554	498	387	417	438
Hr Total	182	133	81	73	116	344	2098	2324	2050	1735	1679	1700

End Time	12	13	14	15	16	17	18	19	20	21	22	23
15	413	448	429	518	583	605	600	398	219	249	199	124
30	457	417	442	493	574	604	564	385	402	187	180	93
45	422	429	442	538	603	372	489	361	276	306	145	103
00	416	455	501	522	595	806	465	342	238	234	120	62
Hr Total	1708	1749	1814	2071	2355	2387	2118	1486	1135	976	644	382

24 Hour Total : 31340
AM peak hour begins : 06:30 AM peak volume : 2622 Peak hour factor : 0.90
PM peak hour begins : 17:45 PM peak volume : 2459 Peak hour factor : 0.76

Traffic Survey Specialists, Inc. 624 Gardenia Terrace
Delray Beach, Florida 33444 Phone (561) 272-3255
Volume Report with 24 Hour Totals

Data File : D0523009.PRN
Station : 000000052130
Identification : 004117430002 Interval : 15 minutes
Start date : May 23, 06 Start time : 00:00
Stop date : May 23, 06 Stop time : 24:00
City/Town : Miami, Florida County : Dade
Location : NW 22 Avenue Bridge South of NW 18 St

May 23 Southbound Volume for Lane 1

End Time	00	01	02	03	04	05	06	07	08	09	10	11
15	17	19	6	6	14	15	85	254	297	251	185	205
30	24	7	10	5	17	11	163	272	248	263	225	215
45	19	9	9	9	14	37	171	272	269	245	213	221
00	10	7	2	8	20	61	190	306	269	205	197	211
Hr Total	70	42	27	28	65	124	609	1104	1083	964	820	852

End Time	12	13	14	15	16	17	18	19	20	21	22	23
15	204	220	238	239	378	121	348	215	152	120	71	58
30	245	226	220	272	311	537	296	140	145	114	89	54
45	232	225	221	301	325	399	258	251	160	105	72	36
00	210	218	238	260	311	306	216	184	139	86	61	38
Hr Total	891	889	917	1072	1325	1363	1118	790	596	425	293	186

24 Hour Total : 15653
AM peak hour begins : 07:15 AM peak volume : 1147 Peak hour factor : 0.94
PM peak hour begins : 17:15 PM peak volume : 1590 Peak hour factor : 0.74

May 23 Northbound Volume for Lane 2

End Time	00	01	02	03	04	05	06	07	08	09	10	11
15	28	12	8	9	10	20	99	230	265	181	197	258
30	15	15	12	19	13	38	211	248	247	228	185	179
45	22	18	9	9	14	35	264	285	216	180	199	192
00	20	11	5	10	22	88	248	253	207	208	119	205
Hr Total	85	56	34	47	59	181	822	1016	935	797	700	834

End Time	12	13	14	15	16	17	18	19	20	21	22	23
15	217	209	242	278	311	90	260	181	143	138	53	72
30	210	216	233	256	294	363	274	141	157	123	138	44
45	202	223	225	287	290	351	235	196	144	114	92	59
00	205	224	200	165	308	294	222	156	136	145	87	40
Hr Total	834	872	900	986	1203	1098	991	674	580	520	370	215

24 Hour Total : 14809
AM peak hour begins : 07:15 AM peak volume : 1051 Peak hour factor : 0.92
PM peak hour begins : 17:15 PM peak volume : 1268 Peak hour factor : 0.87

Traffic Survey Specialists, Inc. 624 Gardenia Terrace
Delray Beach, Florida 33444 Phone (561) 272-3255
Volume Report with 24 Hour Totals

Data File : D0523009.PRN
Station : 000000052130
Identification : 004117430002 Interval : 15 minutes
Start date : May 23, 06 Start time : 00:00
Stop date : May 23, 06 Stop time : 24:00
City/Town : Miami, Florida County : Dade
Location : NW 22 Avenue Bridge South of NW 18 St

May 23 Total Volume for All Lanes

End Time	00	01	02	03	04	05	06	07	08	09	10	11
15	45	31	14	15	24	35	184	484	562	432	382	463
30	39	22	22	24	30	49	374	520	495	491	410	394
45	41	27	18	18	28	72	435	557	485	425	412	413
00	30	18	7	18	42	149	438	559	476	413	316	416
Hr Total	155	98	61	75	124	305	1431	2120	2018	1761	1520	1686

End Time	12	13	14	15	16	17	18	19	20	21	22	23
15	421	429	480	517	689	211	608	396	295	258	124	130
30	455	442	453	528	605	900	570	281	302	237	227	98
45	434	448	446	588	615	750	493	447	304	219	164	95
00	415	442	438	425	619	600	438	340	275	231	148	78
Hr Total	1725	1761	1817	2058	2528	2461	2109	1464	1176	945	663	401

24 Hour Total : 30462
AM peak hour begins : 07:15 AM peak volume : 2198 Peak hour factor : 0.98
PM peak hour begins : 17:15 PM peak volume : 2858 Peak hour factor : 0.79

Traffic Survey Specialists, Inc. 624 Gardenia Terrace
Delray Beach, Florida 33444 Phone (561) 272-3255
Volume Report with 24 Hour Totals

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Data File : D0601032.PRN
Station : 000000053101
Identification : 009701450036
Start date : Jun 1, 06
Stop date : Jun 1, 06
City/Town : Miami, FL
Location : South River Drive East of NW 10th Avenue
Interval- : 15 minutes
Start time : 00:00
Stop time : 24:00
County : Dade

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Jun 1 Westbound Volume for Lane 1

End Time	00	01	02	03	04	05	06	07	08	09	10	11
15	7	3	3	3	6	7	20	29	35	27	24	31
30	6	1	0	4	1	8	30	26	39	32	44	36
45	4	5	2	3	4	16	39	33	33	33	29	41
00	6	6	6	3	5	13	38	37	25	27	30	36
Hr Total	23	15	11	13	16	44	127	125	132	119	127	144

End Time	12	13	14	15	16	17	18	19	20	21	22	23
15	35	24	38	32	56	51	57	33	20	12	21	15
30	32	35	30	47	45	44	34	31	20	18	11	8
45	41	28	40	49	53	50	34	23	24	16	16	9
00	29	46	33	37	32	35	34	31	25	20	9	7
Hr Total	137	133	141	165	186	180	159	118	89	66	57	39

24 Hour Total : 2366
AM peak hour begins : 11:15 AM peak volume : 148 Peak hour factor : 0.90
PM peak hour begins : 15:45 PM peak volume : 191 Peak hour factor : 0.85

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Jun 1 Eastbound Volume for Lane 2

End Time	00	01	02	03	04	05	06	07	08	09	10	11
15	6	3	4	2	3	3	12	21	40	35	33	26
30	7	0	1	3	2	3	19	28	47	34	30	30
45	2	2	2	0	1	9	27	48	30	41	28	40
00	2	1	2	0	3	13	28	48	33	32	34	33
Hr Total	17	6	9	5	9	28	86	145	150	142	125	129

End Time	12	13	14	15	16	17	18	19	20	21	22	23
15	29	42	41	34	62	46	36	36	26	19	13	17
30	36	26	30	31	43	44	35	41	25	19	19	14
45	43	32	32	28	49	42	44	36	25	23	20	9
00	31	32	30	34	38	44	37	31	25	18	7	7
Hr Total	139	132	133	127	192	176	152	144	101	79	59	47

24 Hour Total : 2332
AM peak hour begins : 07:30 AM peak volume : 183 Peak hour factor : 0.95
PM peak hour begins : 16:00 PM peak volume : 192 Peak hour factor : 0.77

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Traffic Survey Specialists, Inc. 624 Gardenia Terrace
Delray Beach, Florida 33444 Phone (561) 272-3255
Volume Report with 24 Hour Totals

Data File : D0601032.PRN
Station : 000000053101
Identification : 009701450036
Start date : Jun 1, 06
Stop date : Jun 1, 06
City/Town : Miami, FL
Location : South River Drive East of NW 10th Avenue
Interval : 15 minutes
Start time : 00:00
Stop time : 24:00
County : Dade

Jun 1 Total Volume for All Lanes

End Time	00	01	02	03	04	05	06	07	08	09	10	11
15	13	6	7	5	9	10	32	50	75	62	57	57
30	13	1	1	7	3	11	49	54	86	66	74	66
45	6	7	4	3	5	25	66	81	63	74	57	81
00	8	7	8	3	8	26	66	85	58	59	64	69
Hr Total	40	21	20	18	25	72	213	270	282	261	252	273

End Time	12	13	14	15	16	17	18	19	20	21	22	23
15	64	66	79	66	118	97	93	69	46	31	34	32
30	68	61	60	78	88	88	69	72	45	37	30	22
45	84	60	72	77	102	92	78	59	49	39	36	18
00	60	78	63	71	70	79	71	62	50	38	16	14
Hr Total	276	265	274	292	378	356	311	262	190	145	116	86

24 Hour Total : 4698
AM peak hour begins : 07:30 AM peak volume : 327 Peak hour factor : 0.95
PM peak hour begins : 15:45 PM peak volume : 379 Peak hour factor : 0.80

Traffic Survey Specialists, Inc. 624 Gardenia Terrace
Delray Beach, Florida 33444 Phone (561) 272-3255
Volume Report with 24 Hour Totals

Data File : D0523006.PRN
Station : 000000052126
Identification : 009600650037 Interval : 15 minutes
Start date : May 23, 06 Start time : 00:00
Stop date : May 23, 06 Stop time : 24:00
City/Town : Miami, Florida County : Dade
Location : South River Drive North of NW 2 Street

May 23 Northbound Volume for Lane 1

End Time	00	01	02	03	04	05	06	07	08	09	10	11
15	1	1	0	0	0	1	6	12	11	13	8	14
30	0	0	1	0	1	3	3	3	19	14	14	11
45	3	0	0	0	0	1	5	8	14	11	4	10
00	1	0	0	0	0	3	5	9	13	9	5	10
Hr Total	5	1	1	0	1	8	19	32	57	47	31	45

End Time	12	13	14	15	16	17	18	19	20	21	22	23
15	9	10	14	13	15	10	16	6	7	1	3	2
30	11	13	11	16	11	14	9	9	6	7	0	4
45	15	19	6	15	8	12	9	7	6	2	6	5
00	11	4	6	16	12	16	10	7	5	3	3	3
Hr Total	46	46	37	60	46	52	44	29	24	13	12	14

24 Hour Total : 670
AM peak hour begins : 08:15 AM peak volume : 59 Peak hour factor : 0.78
PM peak hour begins : 15:15 PM peak volume : 62 Peak hour factor : 0.97

May 23 Southbound Volume for Lane 2

End Time	00	01	02	03	04	05	06	07	08	09	10	11
15	5	4	4	3	3	0	9	19	29	20	20	24
30	3	4	0	1	0	0	14	30	26	17	14	21
45	2	1	3	0	0	6	14	35	25	30	16	15
00	1	1	1	1	1	5	23	30	14	26	17	23
Hr Total	11	10	8	5	4	11	60	114	94	93	67	83

End Time	12	13	14	15	16	17	18	19	20	21	22	23
15	16	27	24	23	21	28	28	19	16	11	16	8
30	24	28	22	22	30	29	23	14	11	13	13	5
45	28	17	22	19	27	33	23	13	13	13	15	5
00	29	21	24	17	24	26	22	16	18	12	11	8
Hr Total	97	93	92	81	102	116	96	62	58	49	55	26

24 Hour Total : 1487
AM peak hour begins : 07:15 AM peak volume : 124 Peak hour factor : 0.89
PM peak hour begins : 17:00 PM peak volume : 116 Peak hour factor : 0.88

Traffic Survey Specialists, Inc. 624 Gardenia Terrace
Delray Beach, Florida 33444 Phone (561) 272-3255

Data File : D0523006.PRN
Station : 000000052126
Identification : 009600650037 Interval : 15 minutes
Start date : May 23, 06 Start time : 00:00
Stop date : May 23, 06 Stop time : 24:00
City/Town : Miami, Florida County : Dade
Location : South River Drive North of NW 2 Street

May 23 Total Volume for All Lanes

End Time	00	01	02	03	04	05	06	07	08	09	10	11
15	6	5	4	3	3	1	15	31	40	33	28	38
30	3	4	1	1	1	3	17	33	45	31	28	32
45	5	1	3	0	0	7	19	43	39	41	20	25
00	2	1	1	1	1	8	28	39	27	35	22	33
Hr Total	16	11	9	5	5	19	79	146	151	140	98	128

End Time	12	13	14	15	16	17	18	19	20	21	22	23
15	25	37	38	36	36	38	44	25	23	12	19	10
30	35	41	33	38	41	43	32	23	17	20	13	9
45	43	36	28	34	35	45	32	20	19	15	21	10
00	40	25	30	33	36	42	32	23	23	15	14	11
Hr Total	143	139	129	141	148	168	140	91	82	62	67	40

24 Hour Total : 2157
AM peak hour begins : 07:30 AM peak volume : 167 Peak hour factor : 0.93
PM peak hour begins : 17:15 PM peak volume : 174 Peak hour factor : 0.97

Traffic Survey Specialists, Inc. 624 Gardenia Terrace
Delray Beach, Florida 33444 Phone (561) 272-3255
Volume Report with 24 Hour Totals

Data File : D0524006.PRN
Station : 000000052126
Identification : 009600650037
Start date : May 24, 06
Stop date : May 24, 06
City/Town : Miami, Florida
Location : South River Drive North of NW 2 Street
Interval : 15 minutes
Start time : 00:00
Stop time : 24:00
County : Dade

May 24 Total Volume for All Lanes

End Time	00	01	02	03	04	05	06	07	08	09	10	11
15	5	0	0	1	3	2	15	29	42	37	31	29
30	4	2	3	2	3	4	12	31	36	29	27	31
45	2	3	2	0	0	7	23	45	30	35	35	41
00	2	1	0	3	3	8	16	42	30	28	39	45
Hr Total	13	6	5	6	9	21	66	147	138	129	132	146

End Time	12	13	14	15	16	17	18	19	20	21	22	23
15	56	39	36	33	39	38	34	40	22	26	17	16
30	35	33	35	37	44	40	34	41	14	28	9	14
45	41	31	46	27	27	47	49	26	26	19	16	2
00	43	34	45	27	35	51	37	30	12	15	18	5
Hr Total	175	137	162	124	145	176	154	137	74	88	60	37

24 Hour Total : 2287
AM peak hour begins : 11:30 AM peak volume : 177 Peak hour factor : 0.79
PM peak hour begins : 17:00 PM peak volume : 176 Peak hour factor : 0.86

Traffic Survey Specialists, Inc. 624 Gardenia Terrace
Delray Beach, Florida 33444 Phone (561) 272-3255
Volume Report with 24 Hour Totals

****

Data File : D0523008.PRN
Station : 000000052127
Identification : 000058410089 Interval : 15 minutes
Start date : May 23, 06 Start time : 00:00
Stop date : May 23, 06 Stop time : 24:00
City/Town : Miami, Florida County : Dade
Location : SW 2 Avenue South of SW 3 Street

****

May 23 Northbound Volume for Lane 1

End Time	00	01	02	03	04	05	06	07	08	09	10	11
15	11	8	10	8	3	7	35	103	141	134	90	93
30	15	8	8	3	5	1	48	127	125	114	92	97
45	8	4	2	3	2	22	75	133	159	104	79	82
00	10	6	1	4	8	26	100	161	132	113	86	92
Hr Total	44	26	21	18	18	56	258	524	557	465	347	364

End Time	12	13	14	15	16	17	18	19	20	21	22	23
15	104	132	100	96	94	107	58	37	22	18	26	17
30	90	129	93	95	63	107	67	45	44	26	28	13
45	98	126	93	93	92	89	64	31	39	28	26	11
00	110	100	106	89	72	83	51	31	28	23	22	12
Hr Total	402	487	392	373	321	386	240	144	133	95	102	53

24 Hour Total : 5826
AM peak hour begins : 07:45 AM peak volume : 586 Peak hour factor : 0.91
PM peak hour begins : 12:45 PM peak volume : 497 Peak hour factor : 0.94

****

May 23 Southbound Volume for Lane 2

End Time	00	01	02	03	04	05	06	07	08	09	10	11
15	7	3	4	3	2	8	18	49	68	99	90	88
30	6	6	1	4	1	7	28	48	114	96	88	109
45	7	4	1	2	4	7	41	79	89	93	86	130
00	12	3	9	1	4	17	47	69	97	78	85	105
Hr Total	32	16	15	10	11	39	134	245	368	366	349	432

End Time	12	13	14	15	16	17	18	19	20	21	22	23
15	147	108	80	125	131	195	123	52	30	17	22	18
30	118	99	103	118	129	178	96	53	32	34	22	13
45	106	100	97	88	171	162	74	59	32	29	13	10
00	104	98	100	115	141	105	81	51	32	16	15	13
Hr Total	475	405	380	446	572	640	374	215	126	96	72	54

24 Hour Total : 5872
AM peak hour begins : 11:30 AM peak volume : 500 Peak hour factor : 0.85
PM peak hour begins : 16:30 PM peak volume : 685 Peak hour factor : 0.88

****

Traffic Survey Specialists, Inc. 624 Gardenia Terrace
Delray Beach, Florida 33444 Phone (561) 272-3255

Data File : D0523008.PRN
Station : 000000052127
Identification : 000058410089 Interval : 15 minutes
Start date : May 23, 06 Start time : 00:00
Stop date : May 23, 06 Stop time : 24:00
City/Town : Miami, Florida County : Dade
Location : SW 2 Avenue South of SW 3 Street

May 23 Total Volume for All Lanes

End Time	00	01	02	03	04	05	06	07	08	09	10	11
15	18	11	14	11	5	15	53	152	209	233	180	181
30	21	14	9	7	6	8	76	175	239	210	180	206
45	15	8	3	5	6	29	116	212	248	197	165	212
00	22	9	10	5	12	43	147	230	229	191	171	197
Hr Total	76	42	36	28	29	95	392	769	925	831	696	796

End Time	12	13	14	15	16	17	18	19	20	21	22	23
15	251	240	180	221	225	302	181	89	52	35	48	35
30	208	228	196	213	192	285	163	98	76	60	50	26
45	204	226	190	181	263	251	138	90	71	57	39	21
00	214	198	206	204	213	188	132	82	60	39	37	25
Hr Total	877	892	772	819	893	1026	614	359	259	191	174	107

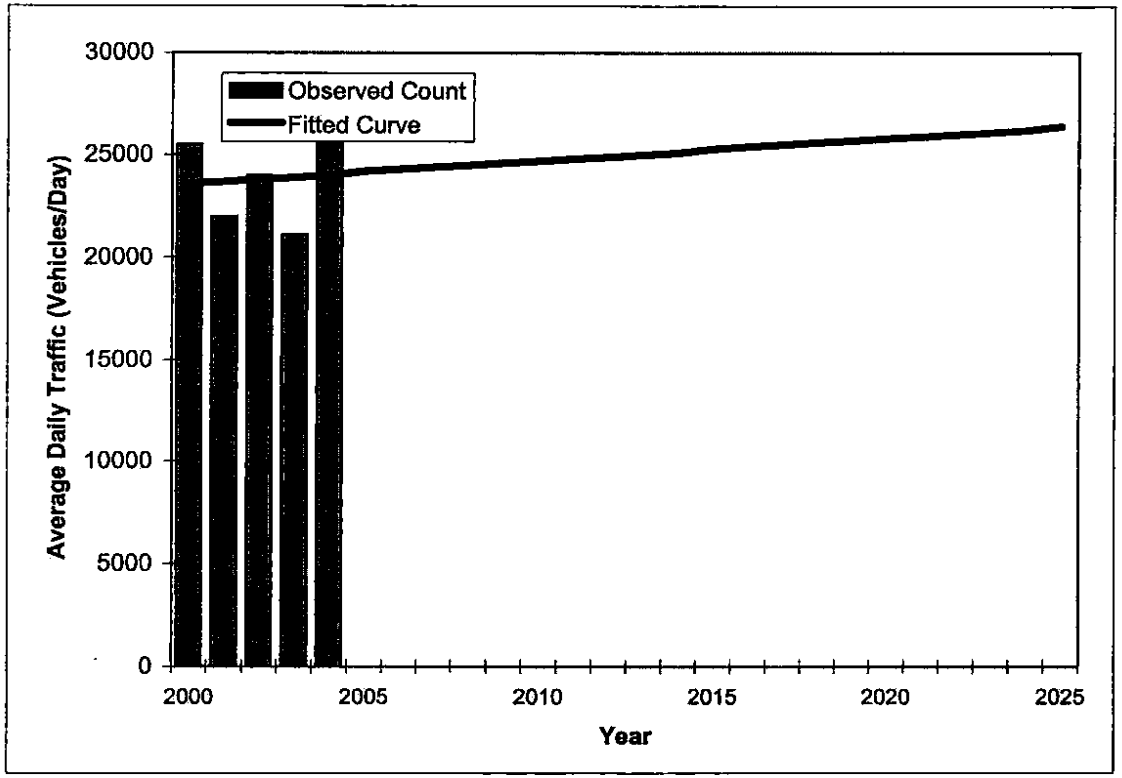
24 Hour Total : 11698
AM peak hour begins : 08:15 AM peak volume : 949 Peak hour factor : 0.96
PM peak hour begins : 16:30 PM peak volume : 1063 Peak hour factor : 0.88

APPENDIX C:
Growth Trend Analyses

TRAFFIC TRENDS

SR 25/US-27/NW 36 ST -- 200' W of NW 37 AVE

County:	Miami-Dade
Station #:	87-0107
Highway:	SR 25/US-27/NW 36 ST



Year	Traffic (ADT/AADT) Count*	Trend**
2000	25500	23600
2001	22000	23700
2002	24000	23800
2003	21100	23900
2004	26500	24000
2006 Opening Year Trend		
2006	N/A	24300
2007 Mid-Year Trend		
2007	N/A	24400
2008 Design Year Trend		
2008	N/A	24500
TRANPLAN Forecasts/Trends		

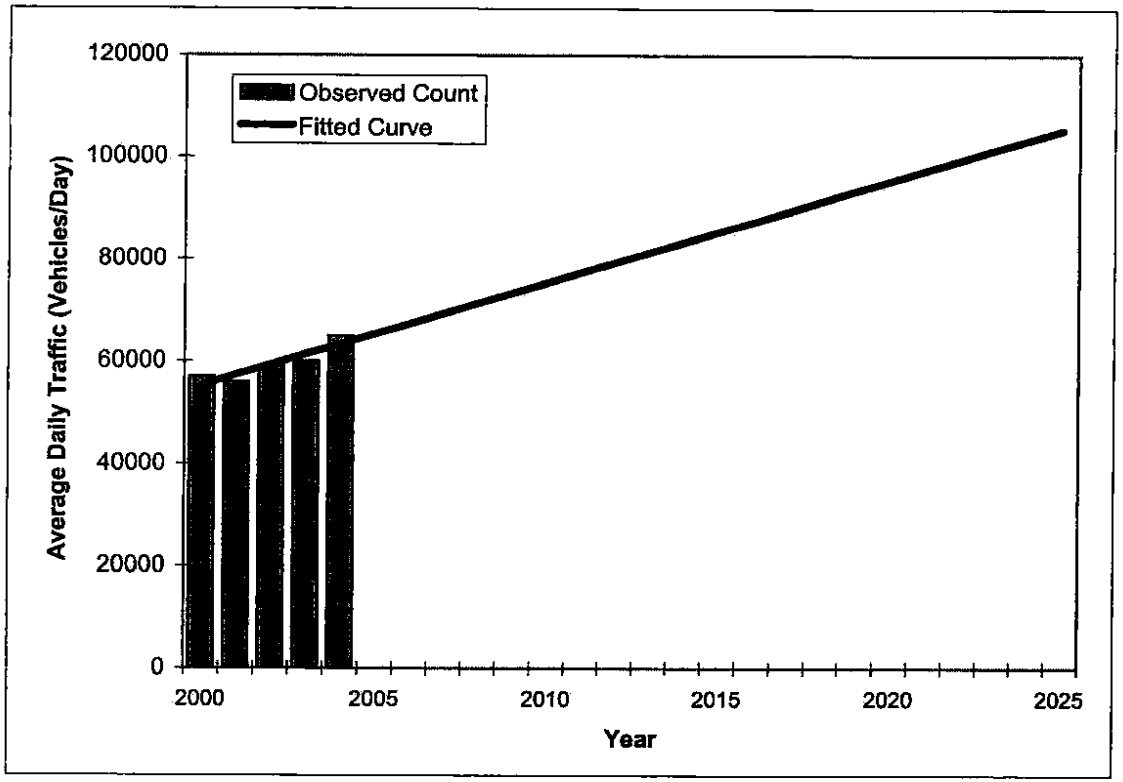
*Axle-Adjusted

** Annual Trend Increase:	110
Trend R-squared:	0.6%
Trend Annual Historic Growth Rate:	0.42%
Trend Growth Rate (2004 to Design Year):	0.52%
Printed:	29-Aug-06
Straight Line Growth Option	

TRAFFIC TRENDS

SR9/NW 27 AVE -- 200' S of SR 836/DOLPHIN EXPWY

County:	Miami-Dade
Station #:	87-0552
Highway:	SR9/NW 27 AVE



Year	Traffic (ADT/AADT) Count*	Trend**
2000	57000	55400
2001	56000	57400
2002	59000	59400
2003	60000	61400
2004	65000	63400
2006 Opening Year Trend		
2006	N/A	67400
2007 Mid-Year Trend		
2007	N/A	69400
2008 Design Year Trend		
2008	N/A	71400
TRANPLAN Forecasts/Trends		

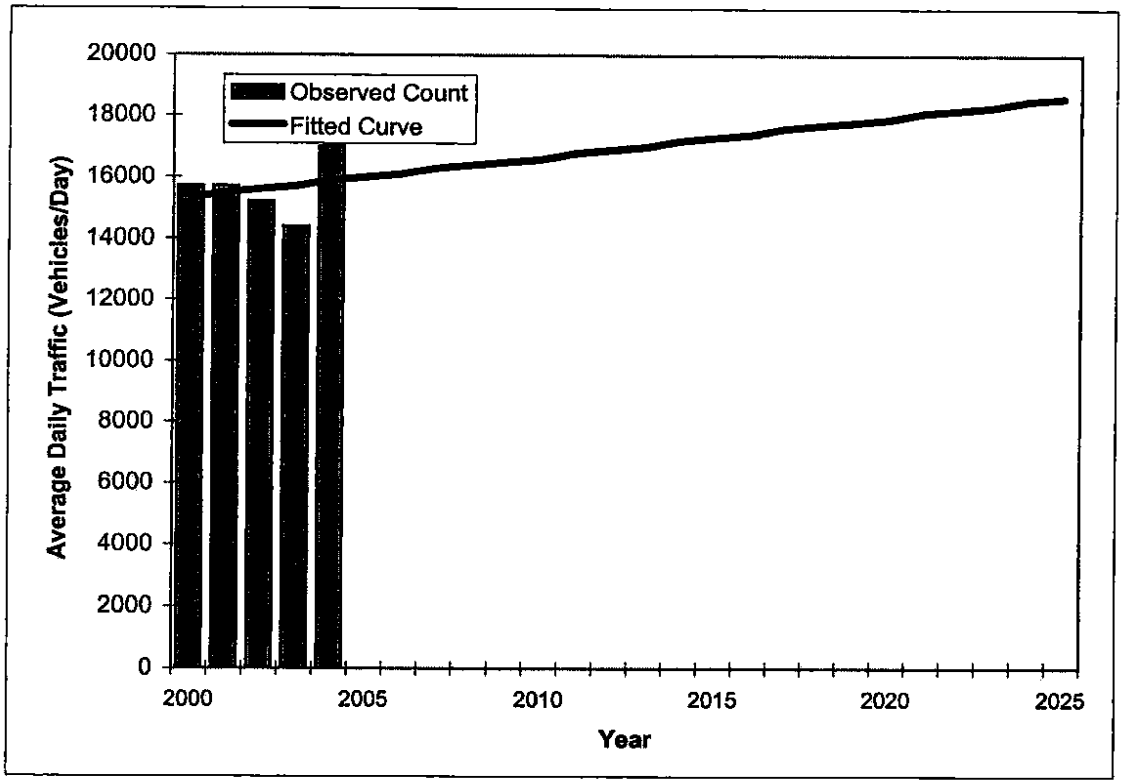
*Axle-Adjusted

** Annual Trend Increase:	2,000
Trend R-squared:	81.3%
Trend Annual Historic Growth Rate:	3.61%
Trend Growth Rate (2004 to Design Year):	3.15%
Printed:	29-Aug-06
Straight Line Growth Option	

TRAFFIC TRENDS

SR 7/US-441/NW 7 AVE -- 200' N of NW 6 ST

County:	Miami-Dade
Station #:	87-5003
Highway:	SR 7/US-441/NW 7 AVE



Year	Traffic (ADT/AADT) Count*	Trend**
2000	15700	15300
2001	15700	15500
2002	15200	15600
2003	14400	15700
2004	17000	15900
2006 Opening Year Trend		
2006	N/A	16100
2007 Mid-Year Trend		
2007	N/A	16300
2008 Design Year Trend		
2008	N/A	16400
TRANPLAN Forecasts/Trends		

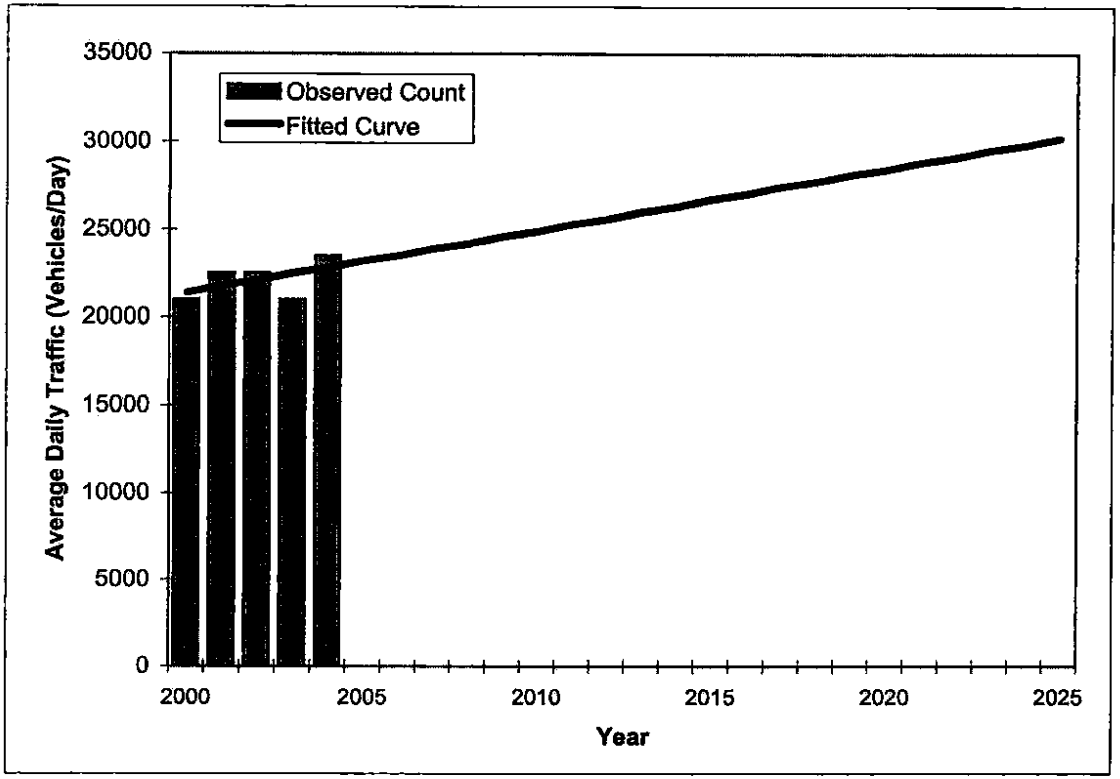
*Axle-Adjusted

**** Annual Trend Increase:**	130
Trend R-squared:	4.7%
Trend Annual Historic Growth Rate:	0.98%
Trend Growth Rate (2004 to Design Year):	0.79%
Printed:	29-Aug-06
Straight Line Growth Option	

TRAFFIC TRENDS

SR 5/US-1 -- 200' E of SE 2 AVE on SE 4 ST

County:	Miami-Dade
Station #:	87-5045
Highway:	SR 5/US-1



Year	Traffic (ADT/AADT) Count*	Trend**
2000	21000	21400
2001	22500	21800
2002	22500	22100
2003	21000	22500
2004	23500	22800
2006 Opening Year Trend		
2006	N/A	23500
2007 Mid-Year Trend		
2007	N/A	23900
2008 Design Year Trend		
2008	N/A	24200
TRANPLAN Forecasts/Trends		

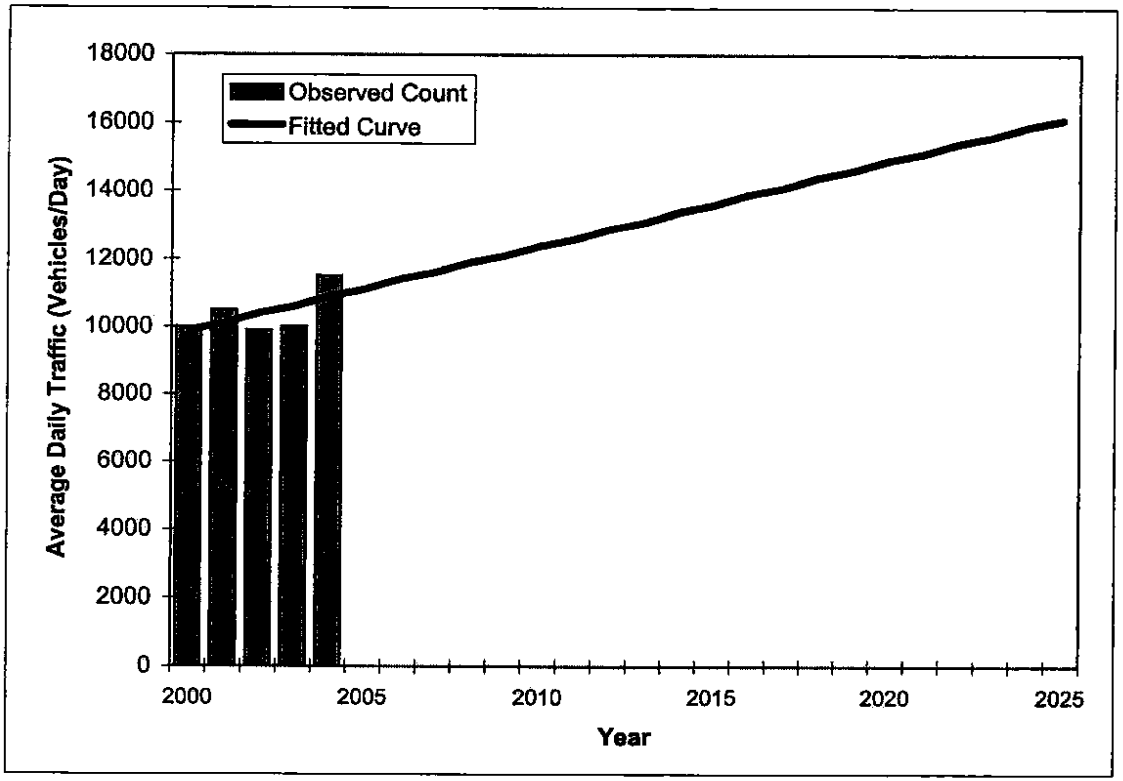
*Axle-Adjusted

**** Annual Trend Increase:**	350
Trend R-squared:	26.1%
Trend Annual Historic Growth Rate:	1.64%
Trend Growth Rate (2004 to Design Year):	1.54%
Printed:	29-Aug-06
Straight Line Growth Option	

TRAFFIC TRENDS

SR 90/US-41/SW 7 ST -- 200' W SR 5/US-1

County:	Miami-Dade
Station #:	87-5091
Highway:	SR 90/US-41/SW 7 ST



Year	Traffic (ADT/AADT) Count*	Trend**
2000	10000	9900
2001	10500	10100
2002	9900	10400
2003	10000	10600
2004	11500	10900
2006 Opening Year Trend		
2006	N/A	11400
2007 Mid-Year Trend		
2007	N/A	11600
2008 Design Year Trend		
2008	N/A	11900
TRANPLAN Forecasts/Trends		

*Axle-Adjusted

**** Annual Trend Increase:**	250
Trend R-squared:	35.0%
Trend Annual Historic Growth Rate:	2.53%
Trend Growth Rate (2004 to Design Year):	2.29%
Printed:	29-Aug-06
Straight Line Growth Option	

APPENDIX D:
Peak Season
Conversion Factor Table

Print Date: Aug/30/2006

Florida Department of Transportation
Transportation Statistics Office
2004 Peak Season Factor Category Report

MIAMI-DADE NORTH
Category: 8700

MOCF = 0.97

	Week	Dates	SF	PSCF
	1	01/01/2004 - 01/03/2004	1.00	1.03
	2	01/04/2004 - 01/10/2004	1.00	1.03
	3	01/11/2004 - 01/17/2004	0.99	1.02
	4	01/18/2004 - 01/24/2004	0.99	1.02
	5	01/25/2004 - 01/31/2004	0.99	1.02
*	6	02/01/2004 - 02/07/2004	0.98	1.01
*	7	02/08/2004 - 02/14/2004	0.98	1.01
*	8	02/15/2004 - 02/21/2004	0.97	1.00
*	9	02/22/2004 - 02/28/2004	0.97	1.00
*	10	02/29/2004 - 03/06/2004	0.97	1.00
*	11	03/07/2004 - 03/13/2004	0.97	1.00
*	12	03/14/2004 - 03/20/2004	0.96	0.99
*	13	03/21/2004 - 03/27/2004	0.97	1.00
*	14	03/28/2004 - 04/03/2004	0.97	1.00
*	15	04/04/2004 - 04/10/2004	0.98	1.01
*	16	04/11/2004 - 04/17/2004	0.98	1.01
*	17	04/18/2004 - 04/24/2004	0.98	1.01
*	18	04/25/2004 - 05/01/2004	0.98	1.01
	19	05/02/2004 - 05/08/2004	0.99	1.02
	20	05/09/2004 - 05/15/2004	0.99	1.02
	21	05/16/2004 - 05/22/2004	0.99	1.02
	22	05/23/2004 - 05/29/2004	0.99	1.02
	23	05/30/2004 - 06/05/2004	0.99	1.02
	24	06/06/2004 - 06/12/2004	1.00	1.03
	25	06/13/2004 - 06/19/2004	1.00	1.03
	26	06/20/2004 - 06/26/2004	1.01	1.04
	27	06/27/2004 - 07/03/2004	1.02	1.05
	28	07/04/2004 - 07/10/2004	1.03	1.06
	29	07/11/2004 - 07/17/2004	1.04	1.07
	30	07/18/2004 - 07/24/2004	1.04	1.07
	31	07/25/2004 - 07/31/2004	1.03	1.06
	32	08/01/2004 - 08/07/2004	1.03	1.06
	33	08/08/2004 - 08/14/2004	1.02	1.05
	34	08/15/2004 - 08/21/2004	1.02	1.05
	35	08/22/2004 - 08/28/2004	1.03	1.06
	36	08/29/2004 - 09/04/2004	1.04	1.07
	37	09/05/2004 - 09/11/2004	1.05	1.08
	38	09/12/2004 - 09/18/2004	1.06	1.09
	39	09/19/2004 - 09/25/2004	1.05	1.08
	40	09/26/2004 - 10/02/2004	1.03	1.06
	41	10/03/2004 - 10/09/2004	1.01	1.04
	42	10/10/2004 - 10/16/2004	1.00	1.03
	43	10/17/2004 - 10/23/2004	1.00	1.03
	44	10/24/2004 - 10/30/2004	1.00	1.03
	45	10/31/2004 - 11/06/2004	1.01	1.04
	46	11/07/2004 - 11/13/2004	1.01	1.04
	47	11/14/2004 - 11/20/2004	1.01	1.04
	48	11/21/2004 - 11/27/2004	1.01	1.04
	49	11/28/2004 - 12/04/2004	1.01	1.04
	50	12/05/2004 - 12/11/2004	1.00	1.03
	51	12/12/2004 - 12/18/2004	1.00	1.03
	52	12/19/2004 - 12/25/2004	1.00	1.03
	53	12/26/2004 - 12/31/2004	0.99	1.02

Note: "*" indicates peak season week

APPENDIX E:
Volume Development Worksheets

VOLUME DEVELOPMENT SHEET

S Miami Avenue & SW 7th Street
AM PEAK HOUR

Description	S Miami Avenue Southbound			SW 7th Street Westbound			S Miami Avenue Northbound			SW 7th Street Eastbound		
	Left	Through	Right	Left	Through	Right	Left	Through	Right	Left	Through	Right
2006 Existing Traffic	0	0	0	0	519	59	237	372	0	0	0	0
Peak Season Conversion Factor	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02
2006 Peak Season	**0**	**0**	**0**	**0**	**529**	**60**	**242**	**379**	**0**	**0**	**0**	**0**

PM PEAK HOUR

Description	S Miami Avenue Southbound			SW 7th Street Westbound			S Miami Avenue Northbound			SW 7th Street Eastbound		
	Left	Through	Right	Left	Through	Right	Left	Through	Right	Left	Through	Right
2004 Existing Traffic	0	0	0	0	1114	106	539	333	0	0	0	0
Peak Season Conversion Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Annual Growth Rate	1.8%	1.8%	1.8%	1.8%	1.8%	1.8%	1.8%	1.8%	1.8%	1.8%	1.8%	1.8%
2006 Peak Season	**0**	**0**	**0**	**0**	**1154**	**110**	**559**	**345**	**0**	**0**	**0**	**0**

VOLUME DEVELOPMENT SHEET

SW 1st Avenue & SW 7th Street
AM PEAK HOUR

Description	SW 1st Avenue Southbound			SW 7th Street Westbound			SW1st Avenue Northbound			SW 7th Street Eastbound		
	Left	Through	Right	Left	Through	Right	Left	Through	Right	Left	Through	Right
2006 Existing Traffic	0	344	101	99	641	0	0	0	0	0	0	0
Peak Season Conversion Factor	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02
2006 Peak Season	**0**	**351**	**103**	**101**	**654**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

PM PEAK HOUR

Description	SW 1st Avenue Southbound			SW 7th Street Westbound			SW 1st Avenue Northbound			SW 7th Street Eastbound		
	Left	Through	Right	Left	Through	Right	Left	Through	Right	Left	Through	Right
2006 Existing Traffic	0	363	288	126	1533	0	0	0	0	0	0	0
Peak Season Conversion Factor	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02
2006 Peak Season	**0**	**370**	**294**	**129**	**1564**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Kimley-Horn and Associates, Inc.

VOLUME DEVELOPMENT SHEET

SW 2nd Avenue & SW 7th Street
AM PEAK HOUR

Description	SW 2nd Avenue Southbound			SW 7th Street Westbound			SW 2nd Avenue Northbound			SW 7th Street Eastbound		
	Left	Through	Right	Left	Through	Right	Left	Through	Right	Left	Through	Right
2006 Existing Traffic	0	242	117	67	620	88	227	495	0	0	0	0
Peak Season Conversion Factor	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02
2006 Peak Season	**0**	**247**	**119**	**68**	**632**	**90**	**232**	**505**	**0**	**0**	**0**	**0**

PM PEAK HOUR

Description	SW 2nd Avenue Southbound			SW 7th Street Westbound			SW 2nd Avenue Northbound			SW 7th Street Eastbound		
	Left	Through	Right	Left	Through	Right	Left	Through	Right	Left	Through	Right
2006 Existing Traffic	0	397	291	120	1676	122	258	265	0	0	0	0
Peak Season Conversion Factor	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02
2006 Peak Season	**0**	**405**	**297**	**122**	**1710**	**124**	**263**	**270**	**0**	**0**	**0**	**0**

Kimley-Horn and Associates, Inc.

VOLUME DEVELOPMENT SHEET

SW 2nd Avenue & SW 3rd Street
AM PEAK HOUR

Description	SW 2nd Avenue Southbound			SW 3rd Street Westbound			SW 2nd Avenue Northbound			SW 3rd Street Eastbound		
	Left	Through	Right	Left	Through	Right	Left	Through	Right	Left	Through	Right
2006 Existing Traffic	32	186	28	19	30	101	108	342	49	17	42	170
Peak Season Conversion Factor	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02
2006 Peak Season	**33**	**190**	**29**	**19**	**31**	**103**	**110**	**349**	**50**	**17**	**43**	**173**

PM PEAK HOUR

Description	SW 2nd Avenue Southbound			SW 3rd Street Westbound			SW 2nd Avenue Northbound			SW 3rd Street Eastbound		
	Left	Through	Right	Left	Through	Right	Left	Through	Right	Left	Through	Right
2004 Existing Traffic	10	305	2	62	15	51	82	214	9	18	24	115
Peak Season Conversion Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Annual Growth Rate	1.8%	1.8%	1.8%	1.8%	1.8%	1.8%	1.8%	1.8%	1.8%	1.8%	1.8%	1.8%
2006 Peak Season	**10**	**316**	**2**	**64**	**16**	**53**	**85**	**222**	**9**	**19**	**25**	**119**

Kimley-Horn and Associates, Inc.

VOLUME DEVELOPMENT SHEET

NW 12th Avenue & NW 7th Street
AM PEAK HOUR

Description	NW 12th Avenue Southbound			NW 7th Street Westbound			NW 12th Avenue Northbound			NW 7th Street Eastbound		
	Left	Through	Right	Left	Through	Right	Left	Through	Right	Left	Through	Right
2006 Existing Traffic	0	576	288	9	161	184	0	745	16	778	278	140
Peak Season Conversion Factor	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02
2006 Peak Season	**0**	**588**	**294**	**9**	**164**	**188**	**0**	**760**	**16**	**794**	**284**	**143**

PM PEAK HOUR

Description	NW 12th Avenue Southbound			NW 7th Street Westbound			NW 12th Avenue Northbound			NW 7th Street Eastbound		
	Left	Through	Right	Left	Through	Right	Left	Through	Right	Left	Through	Right
2006 Existing Traffic	0	850	534	6	150	150	0	597	37	414	216	172
Peak Season Conversion Factor	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02
2006 Peak Season	**0**	**867**	**545**	**6**	**153**	**153**	**0**	**609**	**38**	**422**	**220**	**175**

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Kimley-Horn and Associates, Inc.

VOLUME DEVELOPMENT SHEET

NW 12th Avenue & NW 11th Streett
AM PEAK HOUR

Description	NW 12th Avenue Southbound				NW 11th Streett Westbound			NW 12th Avenue Northbound			NW 11th Streett Eastbound		
	U-Turn	Left	Through	Right	Left	Through	Right	Left	Through	Right	Left	Through	Right
2006 Existing Traffic	15	64	595	79	202	146	149	0	1446	253	225	262	116
Peak Season Conversion Factor	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02
2006 Peak Season	**15**	**65**	**607**	**81**	**206**	**149**	**152**	**0**	**1475**	**258**	**230**	**267**	**118**

PM PEAK HOUR

Description	NW 12th Avenue Southbound				NW 11th Streett Westbound			NW 12th Avenue Northbound			NW 11th Streett Eastbound		
	U-Turn	Left	Through	Right	Left	Through	Right	Left	Through	Right	Left	Through	Right
2006 Existing Traffic	7	77	1056	14	303	276	287	0	1025	192	164	126	98
Peak Season Conversion Factor	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02
2006 Peak Season	**7**	**79**	**1077**	**14**	**309**	**282**	**293**	**0**	**1046**	**196**	**167**	**129**	**100**

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Kimley-Horn and Associates, Inc.

VOLUME DEVELOPMENT SHEET

NW 17th Avenue & South River Drive
AM PEAK HOUR

Description	SW 2nd Avenue Southbound			South River Drive Westbound			SW 2nd Avenue Northbound			South River Drive Eastbound		
	Left	Through	Right	Left	Through	Right	Left	Through	Right	Left	Through	Right
2006 Existing Traffic	0	1130	22	7	0	645	16	734	0	139	0	51
Peak Season Conversion Factor	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07
Annual Growth Rate	1.8%	1.8%	1.8%	1.8%	1.8%	1.8%	1.8%	1.8%	1.8%	1.8%	1.8%	1.8%
2006 Peak Season	**0**	**1276**	**25**	**8**	**0**	**728**	**18**	**829**	**0**	**157**	**0**	**58**

PM PEAK HOUR

Description	SW 2nd Avenue Southbound			South River Drive Westbound			SW 2nd Avenue Northbound			South River Drive Eastbound		
	Left	Through	Right	Left	Through	Right	Left	Through	Right	Left	Through	Right
2003 Existing Traffic	0	2469	268	21	1	202	33	730	0	87	0	75
Peak Season Conversion Factor	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07
Annual Growth Rate	1.8%	1.8%	1.8%	1.8%	1.8%	1.8%	1.8%	1.8%	1.8%	1.8%	1.8%	1.8%
2006 Peak Season	**0**	**2787**	**303**	**24**	**1**	**228**	**37**	**824**	**0**	**98**	**0**	**85**

Kimley-Horn and Associates, Inc.

VOLUME DEVELOPMENT SHEET

NW 17 Avenue & North River Drive
AM PEAK HOUR

Description	NW 17th Avenue Southbound			North River Drive Westbound			NW 17th Avenue Northbound			North River Drive Eastbound		
	Left	Through	Right	Left	Through	Right	Left	Through	Right	Left	Through	Right
2006 Existing Traffic	58	532	12	454	70	28	134	541	958	1	341	235
Peak Season Conversion Factor	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05
2006 Peak Season	**61**	**559**	**13**	**477**	**74**	**29**	**141**	**568**	**1006**	**1**	**358**	**247**

PM PEAK HOUR

Description	NW 17th Avenue Southbound			North River Drive Westbound			NW 17th Avenue Northbound			North River Drive Eastbound		
	Left	Through	Right	Left	Through	Right	Left	Through	Right	Left	Through	Right
2004 Existing Traffic	40	419	39	927	236	51	142	494	234	19	134	216
Peak Season Conversion Factor	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03
Annual Growth Rate	1.8%	1.8%	1.8%	1.8%	1.8%	1.8%	1.8%	1.8%	1.8%	1.8%	1.8%	1.8%
2006 Peak Season	**43**	**447**	**42**	**989**	**252**	**54**	**152**	**527**	**250**	**20**	**143**	**231**

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Kimley-Horn and Associates, Inc.

VOLUME DEVELOPMENT SHEET

NW 22nd Avenue & NW 14th Street/ S River Dr
AM PEAK HOUR

Description	SW 22nd Avenue Southbound			NW 14th Street/ S River Dr Westbound			SW 22nd Avenue Northbound			NW 14th Street/ S River Dr Eastbound		
	Left	Through	Right	Left	Through	Right	Left	Through	Right	Left	Through	Right
2006 Existing Traffic	16	965	257	12	10	20	109	804	10	310	5	197
Peak Season Conversion Factor	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02
2006 Peak Season	**16**	**984**	**262**	**12**	**10**	**20**	**111**	**820**	**10**	**316**	**5**	**201**

PM PEAK HOUR

Description	SW 22nd Avenue Southbound			NW 14th Street/ S River Dr Westbound			SW 22nd Avenue Northbound			NW 14th Street/ S River Dr Eastbound		
	Left	Through	Right	Left	Through	Right	Left	Through	Right	Left	Through	Right
2004 Existing Traffic	18	1034	403	13	6	23	165	1067	13	214	9	214
Peak Season Conversion Factor	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06
Annual Growth Rate	1.8%	1.8%	1.8%	1.8%	1.8%	1.8%	1.8%	1.8%	1.8%	1.8%	1.8%	1.8%
2006 Peak Season	**20**	**1136**	**443**	**14**	**7**	**25**	**181**	**1172**	**14**	**235**	**10**	**235**

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Kimley-Horn and Associates, Inc.

VOLUME DEVELOPMENT SHEET

NW 22nd Avenue & Nortn River Drive
AM PEAK HOUR

Description	NW 22nd Avenue Southbound			Nortn River Drive Westbound			Parking Lot Northbound			Nortn River Drive Eastbound		
	Left	Through	Right	Left	Through	Right	Left	Through	Right	Left	Through	Right
2006 Existing Traffic	0	0	0	5	267	22	2	0	1	14	467	3
Peak Season Conversion Factor	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02
2006 Peak Season	**0**	**0**	**0**	**5**	**272**	**22**	**2**	**0**	**1**	**14**	**476**	**3**

PM PEAK HOUR

Description	NW 22nd Avenue Southbound			Nortn River Drive Westbound			Parking Lot Northbound			Nortn River Drive Eastbound		
	Left	Through	Right	Left	Through	Right	Left	Through	Right	Left	Through	Right
2006 Existing Traffic	0	0	0	2	465	66	3	0	2	17	321	4
Peak Season Conversion Factor	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02
2006 Peak Season	**0**	**0**	**0**	**2**	**474**	**67**	**3**	**0**	**2**	**17**	**327**	**4**

Kimley-Horn and Associates, Inc.

VOLUME DEVELOPMENT SHEET

NW 27th Avenue & NW 17th Street
AM PEAK HOUR

Description	NW 27th Avenue Southbound			Shopping Center Entrance Westbound			NW 27th Avenue Northbound				NW 17th Street Eastbound		
	Left	Through	Right	Left	Through	Right	U-Turn	Left	Through	Right	Left	Through	Right
2006 Existing Traffic	0	1712	172	0	0	0	3	187	1711	0	318	0	221
Peak Season Conversion Factor	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02
2006 Peak Season	**0**	**1746**	**175**	**0**	**0**	**0**	**3**	**191**	**1745**	**0**	**324**	**0**	**225**

PM PEAK HOUR

Description	NW 27th Avenue Southbound			Shopping Center Entrance Westbound			NW 27th Avenue Northbound				NW 17th Street Eastbound		
	Left	Through	Right	Left	Through	Right	U-Turn	Left	Through	Right	Left	Through	Right
2005 Existing Traffic	0	1970	376	0	0	0	0	218	1917	0	350	0	280
Peak Season Conversion Factor	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04
Annual Growth Rate	1.8%	1.8%	1.8%	1.8%	1.8%	1.8%	1.8%	1.8%	1.8%	1.8%	1.8%	1.8%	1.8%
2006 Peak Season	**0**	**2086**	**398**	**0**	**0**	**0**	**0**	**231**	**2030**	**0**	**371**	**0**	**296**

Kimley-Horn and Associates, Inc.

VOLUME DEVELOPMENT SHEET

NW 27th Avenue & NW 20th Street/N River Dr
AM PEAK HOUR

Description	NW 27th Avenue Southbound				NW 20th Street/N River Dr Westbound			NW 27th Avenue Northbound			NW 20th Street/N River Dr Eastbound		
	U-Turn	Left	Through	Right	Left	Through	Right	Left	Through	Right	Left	Through	Right
2006 Existing Traffic	2	165	1247	15	249	449	79	251	1216	565	20	699	438
Peak Season Conversion Factor	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02
2006 Peak Season	**2**	**168**	**1272**	**15**	**254**	**458**	**81**	**256**	**1240**	**576**	**20**	**713**	**447**

PM PEAK HOUR

Description	NW 27th Avenue Southbound				NW 20th Street/N River Dr Westbound			NW 27th Avenue Northbound			NW 20th Street/N River Dr Eastbound		
	U-Turn	Left	Through	Right	Left	Through	Right	Left	Through	Right	Left	Through	Right
2005 Existing Traffic	0	115	1559	19	420	758	153	250	1586	345	29	588	537
Peak Season Conversion Factor	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04
Annual Growth Rate	1.8%	1.8%	1.8%	1.8%	1.8%	1.8%	1.8%	1.8%	1.8%	1.8%	1.8%	1.8%	1.8%
2006 Peak Season	**0**	**122**	**1651**	**20**	**445**	**803**	**162**	**265**	**1679**	**365**	**31**	**623**	**569**

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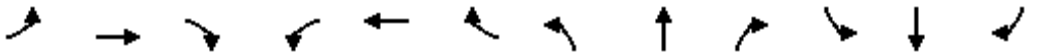
APPENDIX F:
Existing Conditions (2006)
SYNCHRO 6.0 Outputs

2006 A.M. Peak Hour
Existing Timings



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)					4.0	4.0		4.0				
Lane Util. Factor					0.95	1.00		0.91				
Frt					1.00	0.85		1.00				
Flt Protected					1.00	1.00		0.98				
Satd. Flow (prot)					3539	1583		4988				
Flt Permitted					1.00	1.00		0.98				
Satd. Flow (perm)					3539	1583		4988				
Volume (vph)	0	0	0	0	529	60	242	379	0	0	0	0
Peak-hour factor, PHF	0.25	0.25	0.25	0.92	0.92	0.92	0.91	0.91	0.91	0.25	0.25	0.25
Adj. Flow (vph)	0	0	0	0	575	65	266	416	0	0	0	0
RTOR Reduction (vph)	0	0	0	0	0	50	0	33	0	0	0	0
Lane Group Flow (vph)	0	0	0	0	575	15	0	649	0	0	0	0
Turn Type						Perm	Perm					
Protected Phases					8			2				
Permitted Phases						8	2					
Actuated Green, G (s)					20.0	20.0		60.2				
Effective Green, g (s)					21.0	21.0		60.2				
Actuated g/C Ratio					0.24	0.24		0.67				
Clearance Time (s)					5.0	5.0		4.0				
Vehicle Extension (s)					3.0	3.0		3.0				
Lane Grp Cap (vph)					833	373		3366				
v/s Ratio Prot					c0.16							
v/s Ratio Perm						0.04		0.14				
v/c Ratio					0.69	0.04		0.19				
Uniform Delay, d1					31.1	26.3		5.4				
Progression Factor					1.00	1.00		1.00				
Incremental Delay, d2					2.5	0.0		0.1				
Delay (s)					33.6	26.4		5.5				
Level of Service					C	C		A				
Approach Delay (s)		0.0			32.9			5.5			0.0	
Approach LOS		A			C			A			A	

Intersection Summary			
HCM Average Control Delay	18.8	HCM Level of Service	B
HCM Volume to Capacity ratio	0.33		
Actuated Cycle Length (s)	89.2	Sum of lost time (s)	8.0
Intersection Capacity Utilization	34.7%	ICU Level of Service	A
Analysis Period (min)	15		

c Critical Lane Group

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)					4.0						4.0	4.0
Lane Util. Factor					0.91						0.91	0.91
Frt					1.00						1.00	0.85
Flt Protected					0.99						1.00	1.00
Satd. Flow (prot)					5051						3390	1441
Flt Permitted					0.99						1.00	1.00
Satd. Flow (perm)					5051						3390	1441
Volume (vph)	0	0	0	101	654	0	0	0	0	0	351	103
Peak-hour factor, PHF	0.25	0.25	0.25	0.92	0.92	0.92	0.25	0.25	0.25	0.78	0.78	0.78
Adj. Flow (vph)	0	0	0	110	711	0	0	0	0	0	450	132
RTOR Reduction (vph)	0	0	0	0	21	0	0	0	0	0	0	68
Lane Group Flow (vph)	0	0	0	0	800	0	0	0	0	0	450	64
Turn Type				Perm								Perm
Protected Phases					8						6	
Permitted Phases				8								6
Actuated Green, G (s)					11.3						10.0	10.0
Effective Green, g (s)					13.3						11.0	11.0
Actuated g/C Ratio					0.41						0.34	0.34
Clearance Time (s)					6.0						5.0	5.0
Vehicle Extension (s)					3.0						3.0	3.0
Lane Grp Cap (vph)					2080						1154	491
v/s Ratio Prot											c0.13	
v/s Ratio Perm					0.16							0.09
v/c Ratio					0.38						0.39	0.13
Uniform Delay, d1					6.6						8.1	7.3
Progression Factor					1.00						1.00	1.00
Incremental Delay, d2					0.1						0.2	0.1
Delay (s)					6.8						8.3	7.5
Level of Service					A						A	A
Approach Delay (s)		0.0			6.8			0.0			8.1	
Approach LOS		A			A			A			A	

Intersection Summary			
HCM Average Control Delay	7.3	HCM Level of Service	A
HCM Volume to Capacity ratio	0.39		
Actuated Cycle Length (s)	32.3	Sum of lost time (s)	8.0
Intersection Capacity Utilization	32.1%	ICU Level of Service	A
Analysis Period (min)	15		

c Critical Lane Group

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)					4.0		4.0	4.0			4.0	
Lane Util. Factor					0.91		1.00	0.95			0.95	
Frt					0.98		1.00	1.00			0.95	
Flt Protected					1.00		0.95	1.00			1.00	
Satd. Flow (prot)					4977		1770	3539			3367	
Flt Permitted					1.00		0.34	1.00			1.00	
Satd. Flow (perm)					4977		640	3539			3367	
Volume (vph)	0	0	0	68	632	90	232	505	0	0	247	119
Peak-hour factor, PHF	0.25	0.25	0.25	0.88	0.88	0.88	0.93	0.93	0.93	0.90	0.90	0.90
Adj. Flow (vph)	0	0	0	77	718	102	249	543	0	0	274	132
RTOR Reduction (vph)	0	0	0	0	18	0	0	0	0	0	66	0
Lane Group Flow (vph)	0	0	0	0	879	0	249	543	0	0	340	0
Turn Type				Perm			pm+pt					
Protected Phases					8		5	2			6	
Permitted Phases				8			2					
Actuated Green, G (s)					15.3		22.8	22.8			10.8	
Effective Green, g (s)					16.3		22.8	22.8			10.8	
Actuated g/C Ratio					0.35		0.48	0.48			0.23	
Clearance Time (s)					5.0		3.0	4.0			4.0	
Vehicle Extension (s)					3.0		3.0	3.0			3.0	
Lane Grp Cap (vph)					1722		502	1713			772	
v/s Ratio Prot							c0.08	0.15			0.12	
v/s Ratio Perm					0.18		c0.16					
v/c Ratio					0.51		0.50	0.32			0.44	
Uniform Delay, d1					12.2		7.6	7.4			15.6	
Progression Factor					1.00		1.00	1.00			1.00	
Incremental Delay, d2					0.3		0.8	0.1			0.4	
Delay (s)					12.5		8.4	7.5			16.0	
Level of Service					B		A	A			B	
Approach Delay (s)		0.0			12.5			7.8			16.0	
Approach LOS		A			B			A			B	

Intersection Summary			
HCM Average Control Delay	11.4	HCM Level of Service	B
HCM Volume to Capacity ratio	0.49		
Actuated Cycle Length (s)	47.1	Sum of lost time (s)	8.0
Intersection Capacity Utilization	49.1%	ICU Level of Service	A
Analysis Period (min)	15		

c Critical Lane Group

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)	4.0	4.0		4.0	4.0		4.0	4.0		4.0	4.0	
Lane Util. Factor	1.00	1.00		1.00	1.00		1.00	0.95		1.00	0.95	
Frt	1.00	0.88		1.00	0.88		1.00	0.98		1.00	0.98	
Flt Protected	0.95	1.00		0.95	1.00		0.95	1.00		0.95	1.00	
Satd. Flow (prot)	1770	1639		1770	1647		1770	3473		1770	3468	
Flt Permitted	0.50	1.00		0.39	1.00		0.60	1.00		0.49	1.00	
Satd. Flow (perm)	925	1639		723	1647		1124	3473		904	3468	
Volume (vph)	17	43	173	19	31	103	110	349	50	33	190	29
Peak-hour factor, PHF	0.81	0.81	0.81	0.85	0.85	0.85	0.86	0.86	0.86	0.92	0.92	0.92
Adj. Flow (vph)	21	53	214	22	36	121	128	406	58	36	207	32
RTOR Reduction (vph)	0	186	0	0	105	0	0	9	0	0	7	0
Lane Group Flow (vph)	21	81	0	22	52	0	128	455	0	36	232	0
Turn Type	Perm			Perm			Perm			Perm		
Protected Phases		4			8			2			6	
Permitted Phases	4			8			2			6		
Actuated Green, G (s)	9.3	9.3		9.3	9.3		59.2	59.2		59.2	59.2	
Effective Green, g (s)	10.3	10.3		10.3	10.3		60.2	60.2		60.2	60.2	
Actuated g/C Ratio	0.13	0.13		0.13	0.13		0.77	0.77		0.77	0.77	
Clearance Time (s)	5.0	5.0		5.0	5.0		5.0	5.0		5.0	5.0	
Vehicle Extension (s)	3.0	3.0		3.0	3.0		3.0	3.0		3.0	3.0	
Lane Grp Cap (vph)	121	215		95	216		862	2663		693	2660	
v/s Ratio Prot		c0.16			0.10			c0.13			0.07	
v/s Ratio Perm	0.02			0.03			0.11			0.04		
v/c Ratio	0.17	0.38		0.23	0.24		0.15	0.17		0.05	0.09	
Uniform Delay, d1	30.3	31.2		30.6	30.6		2.4	2.5		2.2	2.3	
Progression Factor	1.00	1.00		1.00	1.00		1.00	1.00		1.00	1.00	
Incremental Delay, d2	0.7	1.1		1.3	0.6		0.4	0.1		0.1	0.1	
Delay (s)	31.0	32.3		31.8	31.2		2.8	2.6		2.4	2.4	
Level of Service	C	C		C	C		A	A		A	A	
Approach Delay (s)		32.2			31.2			2.6			2.4	
Approach LOS		C			C			A			A	

Intersection Summary			
HCM Average Control Delay	12.8	HCM Level of Service	B
HCM Volume to Capacity ratio	0.33		
Actuated Cycle Length (s)	78.5	Sum of lost time (s)	8.0
Intersection Capacity Utilization	40.4%	ICU Level of Service	A
Analysis Period (min)	15		

c Critical Lane Group

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)	4.0	4.0			4.0			4.0			4.0	4.0
Lane Util. Factor	0.91	0.91			0.95			0.95			0.95	1.00
Frt	1.00	0.97			0.92			1.00			1.00	0.85
Flt Protected	0.95	0.98			1.00			1.00			1.00	1.00
Satd. Flow (prot)	1610	3224			3259			3528			3539	1583
Flt Permitted	0.95	0.98			1.00			1.00			1.00	1.00
Satd. Flow (perm)	1610	3224			3259			3528			3539	1583
Volume (vph)	794	284	143	9	164	188	0	760	16	0	588	294
Peak-hour factor, PHF	0.91	0.91	0.91	0.85	0.85	0.85	0.89	0.89	0.89	0.93	0.93	0.93
Adj. Flow (vph)	873	312	157	11	193	221	0	854	18	0	632	316
RTOR Reduction (vph)	0	18	0	0	38	0	0	1	0	0	0	196
Lane Group Flow (vph)	443	881	0	0	387	0	0	871	0	0	632	120
Turn Type	Split			Split								Perm
Protected Phases	4	4		8	8			2			6	
Permitted Phases												6
Actuated Green, G (s)	31.9	31.9			13.4			35.2			35.2	35.2
Effective Green, g (s)	32.9	32.9			14.4			36.2			36.2	36.2
Actuated g/C Ratio	0.34	0.34			0.15			0.38			0.38	0.38
Clearance Time (s)	5.0	5.0			5.0			5.0			5.0	5.0
Vehicle Extension (s)	3.0	3.0			3.0			3.0			3.0	3.0
Lane Grp Cap (vph)	555	1111			491			1337			1341	600
v/s Ratio Prot	0.28	c0.28			c0.13			c0.25			0.18	
v/s Ratio Perm												0.20
v/c Ratio	0.80	0.79			0.79			0.65			0.47	0.20
Uniform Delay, d1	28.3	28.2			39.1			24.4			22.4	19.9
Progression Factor	1.00	1.00			1.00			1.00			1.00	1.00
Incremental Delay, d2	7.9	4.0			8.2			2.5			1.2	0.7
Delay (s)	36.2	32.2			47.2			26.9			23.6	20.7
Level of Service	D	C			D			C			C	C
Approach Delay (s)		33.5			47.2			26.9			22.6	
Approach LOS		C			D			C			C	

Intersection Summary			
HCM Average Control Delay	30.7	HCM Level of Service	C
HCM Volume to Capacity ratio	0.75		
Actuated Cycle Length (s)	95.5	Sum of lost time (s)	12.0
Intersection Capacity Utilization	66.0%	ICU Level of Service	C
Analysis Period (min)	15		

c Critical Lane Group

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBU	SBL	SBT
Lane Configurations												
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)	4.0	4.0		4.0	4.0			4.0			4.0	4.0
Lane Util. Factor	1.00	0.95		1.00	0.95			0.91			1.00	0.95
Frt	1.00	0.95		1.00	0.92			0.98			1.00	1.00
Flt Protected	0.95	1.00		0.95	1.00			1.00			0.95	1.00
Satd. Flow (prot)	1770	3376		1770	3271			4972			1770	3539
Flt Permitted	0.40	1.00		0.25	1.00			1.00			0.07	1.00
Satd. Flow (perm)	744	3376		457	3271			4972			136	3539
Volume (vph)	230	267	118	206	149	152	0	1475	258	15	65	607
Peak-hour factor, PHF	0.81	0.81	0.81	0.88	0.88	0.88	0.90	0.90	0.90	0.87	0.87	0.87
Adj. Flow (vph)	284	330	146	234	169	173	0	1639	287	17	75	698
RTOR Reduction (vph)	0	51	0	0	114	0	0	20	0	0	0	0
Lane Group Flow (vph)	284	425	0	234	228	0	0	1906	0	0	92	698
Turn Type	pm+pt			pm+pt						pm+pt	pm+pt	
Protected Phases	7	4		3	8			2		1	1	6
Permitted Phases	4			8						6	6	
Actuated Green, G (s)	27.5	17.5		27.5	17.5			50.7			59.7	59.7
Effective Green, g (s)	27.5	18.5		27.5	18.5			50.7			59.7	59.7
Actuated g/C Ratio	0.28	0.19		0.28	0.19			0.51			0.60	0.60
Clearance Time (s)	3.0	5.0		3.0	5.0			4.0			3.0	4.0
Vehicle Extension (s)	3.0	3.0		3.0	3.0			3.0			3.0	3.0
Lane Grp Cap (vph)	299	630		246	610			2541			164	2130
v/s Ratio Prot	0.09	0.14		c0.09	0.10			c0.39			c0.03	0.20
v/s Ratio Perm	0.18			c0.18							0.31	
v/c Ratio	0.95	0.67		0.95	0.37			0.75			0.56	0.33
Uniform Delay, d1	33.3	37.5		32.1	35.3			19.2			15.2	9.8
Progression Factor	1.00	1.00		1.00	1.00			1.00			1.00	1.00
Incremental Delay, d2	38.2	2.9		43.8	0.4			2.1			4.3	0.4
Delay (s)	71.6	40.4		76.0	35.7			21.3			19.6	10.2
Level of Service	E	D		E	D			C			B	B
Approach Delay (s)		52.1			52.0			21.3				11.0
Approach LOS		D			D			C				B

Intersection Summary			
HCM Average Control Delay	29.0	HCM Level of Service	C
HCM Volume to Capacity ratio	0.81		
Actuated Cycle Length (s)	99.2	Sum of lost time (s)	16.0
Intersection Capacity Utilization	74.6%	ICU Level of Service	D
Analysis Period (min)	15		

c Critical Lane Group

Movement	SBR
Lane Configurations	
Ideal Flow (vphpl)	1900
Total Lost time (s)	4.0
Lane Util. Factor	1.00
Frt	0.85
Flt Protected	1.00
Satd. Flow (prot)	1583
Flt Permitted	1.00
Satd. Flow (perm)	1583
Volume (vph)	81
Peak-hour factor, PHF	0.87
Adj. Flow (vph)	93
RTOR Reduction (vph)	37
Lane Group Flow (vph)	56
Turn Type	Perm
Protected Phases	
Permitted Phases	6
Actuated Green, G (s)	59.7
Effective Green, g (s)	59.7
Actuated g/C Ratio	0.60
Clearance Time (s)	4.0
Vehicle Extension (s)	3.0
Lane Grp Cap (vph)	953
v/s Ratio Prot	
v/s Ratio Perm	0.06
v/c Ratio	0.06
Uniform Delay, d1	8.2
Progression Factor	1.00
Incremental Delay, d2	0.1
Delay (s)	8.3
Level of Service	A
Approach Delay (s)	
Approach LOS	

Intersection Summary

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)		4.0		4.0		4.0	4.0	4.0			4.0	4.0
Lane Util. Factor		1.00		0.95		1.00	1.00	1.00			0.95	1.00
Frt		0.96		1.00		0.85	1.00	1.00			1.00	0.85
Flt Protected		0.96		0.95		1.00	0.95	1.00			1.00	1.00
Satd. Flow (prot)		1732		1681		1583	1770	1863			3539	1583
Flt Permitted		0.78		0.68		1.00	0.14	1.00			1.00	1.00
Satd. Flow (perm)		1407		1206		1583	256	1863			3539	1583
Volume (vph)	157	0	58	8	0	728	18	829	0	0	1276	25
Peak-hour factor, PHF	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
Adj. Flow (vph)	164	0	60	8	0	758	19	864	0	0	1329	26
RTOR Reduction (vph)	0	16	0	0	0	0	0	0	0	0	0	9
Lane Group Flow (vph)	0	208	0	8	0	758	19	864	0	0	1329	17
Turn Type	Perm			Perm		Free	pm+pt					Perm
Protected Phases		4			8		5	2			6	
Permitted Phases	4			8		Free	2					6
Actuated Green, G (s)		17.4		17.4		88.4	61.0	61.0			55.6	55.6
Effective Green, g (s)		18.4		18.4		88.4	62.0	62.0			56.6	56.6
Actuated g/C Ratio		0.21		0.21		1.00	0.70	0.70			0.64	0.64
Clearance Time (s)		5.0		5.0			3.0	5.0			5.0	5.0
Vehicle Extension (s)		3.0		3.0			3.0	3.0			3.0	3.0
Lane Grp Cap (vph)		293		251		1583	204	1307			2266	1014
v/s Ratio Prot							0.00	c0.46			0.38	
v/s Ratio Perm		c0.16		0.01		0.48	0.06					0.02
v/c Ratio		0.71		0.03		0.48	0.09	0.66			0.59	0.02
Uniform Delay, d1		32.5		27.9		0.0	6.4	7.3			9.2	5.8
Progression Factor		1.00		1.00		1.00	1.00	1.00			1.00	1.00
Incremental Delay, d2		7.9		0.1		1.0	0.2	2.6			1.1	0.0
Delay (s)		40.4		28.0		1.0	6.6	10.0			10.3	5.8
Level of Service		D		C		A	A	A			B	A
Approach Delay (s)		40.4			1.3			9.9			10.2	
Approach LOS		D			A			A			B	

Intersection Summary			
HCM Average Control Delay	10.1	HCM Level of Service	B
HCM Volume to Capacity ratio	0.66		
Actuated Cycle Length (s)	88.4	Sum of lost time (s)	4.0
Intersection Capacity Utilization	69.2%	ICU Level of Service	C
Analysis Period (min)	15		

c Critical Lane Group

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)		4.0	4.0		4.0		4.0	4.0	4.0	4.0	4.0	
Lane Util. Factor		0.95	1.00		1.00		1.00	0.95	1.00	1.00	1.00	
Frt		1.00	0.85		0.96		1.00	1.00	0.85	1.00	1.00	
Flt Protected		1.00	1.00		1.00		0.95	1.00	1.00	0.95	1.00	
Satd. Flow (prot)		3539	1583		1791		1770	3539	1583	1770	1857	
Flt Permitted		0.95	1.00		1.00		0.29	1.00	1.00	0.41	1.00	
Satd. Flow (perm)		3378	1583		1791		531	3539	1583	768	1857	
Volume (vph)	1	358	247	0	74	29	141	568	1006	61	559	13
Peak-hour factor, PHF	0.91	0.91	0.91	0.89	0.89	0.89	0.90	0.90	0.90	0.91	0.91	0.91
Adj. Flow (vph)	1	393	271	0	83	33	157	631	1118	67	614	14
RTOR Reduction (vph)	0	0	218	0	17	0	0	0	42	0	1	0
Lane Group Flow (vph)	0	394	53	0	99	0	157	631	1076	67	627	0
Turn Type	Perm		Perm				pm+pt		Perm	Perm		
Protected Phases		4			8		5	2			6	
Permitted Phases	4		4				2		2	6		
Actuated Green, G (s)		15.5	15.5		15.5		58.1	58.1	58.1	49.1	49.1	
Effective Green, g (s)		16.5	16.5		16.5		59.1	59.1	59.1	50.1	50.1	
Actuated g/C Ratio		0.20	0.20		0.20		0.71	0.71	0.71	0.60	0.60	
Clearance Time (s)		5.0	5.0		5.0		3.0	5.0	5.0	5.0	5.0	
Vehicle Extension (s)		3.0	3.0		3.0		3.0	3.0	3.0	3.0	3.0	
Lane Grp Cap (vph)		667	312		353		449	2502	1119	460	1113	
v/s Ratio Prot					0.06		0.02	0.18			0.34	
v/s Ratio Perm		0.12	0.17				0.23		0.71	0.09		
v/c Ratio		0.59	0.17		0.28		0.35	0.25	0.96	0.15	0.56	
Uniform Delay, d1		30.5	27.9		28.5		6.3	4.4	11.2	7.4	10.1	
Progression Factor		1.00	1.00		1.00		1.00	1.00	1.00	1.00	1.00	
Incremental Delay, d2		1.4	0.3		0.4		0.5	0.2	19.1	0.7	2.1	
Delay (s)		31.9	28.1		28.9		6.8	4.6	30.3	8.0	12.2	
Level of Service		C	C		C		A	A	C	A	B	
Approach Delay (s)		30.4			28.9			19.9			11.8	
Approach LOS		C			C			B			B	

Intersection Summary			
HCM Average Control Delay	20.6	HCM Level of Service	C
HCM Volume to Capacity ratio	0.97		
Actuated Cycle Length (s)	83.6	Sum of lost time (s)	8.0
Intersection Capacity Utilization	85.6%	ICU Level of Service	E
Analysis Period (min)	15		

c Critical Lane Group

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)	4.0	4.0			4.0	4.0	4.0	4.0		4.0	4.0	
Lane Util. Factor	1.00	1.00			1.00	1.00	1.00	0.95		1.00	0.95	
Frt	1.00	0.85			1.00	0.85	1.00	1.00		1.00	0.97	
Flt Protected	0.95	1.00			0.97	1.00	0.95	1.00		0.95	1.00	
Satd. Flow (prot)	1770	1590			1813	1583	1770	3533		1770	3427	
Flt Permitted	0.74	1.00			0.83	1.00	0.08	1.00		0.30	1.00	
Satd. Flow (perm)	1375	1590			1555	1583	156	3533		565	3427	
Volume (vph)	316	5	201	12	10	20	111	820	10	16	984	262
Peak-hour factor, PHF	0.91	0.91	0.91	0.75	0.75	0.75	0.90	0.90	0.90	0.86	0.86	0.86
Adj. Flow (vph)	347	5	221	16	13	27	123	911	11	19	1144	305
RTOR Reduction (vph)	0	112	0	0	0	19	0	1	0	0	23	0
Lane Group Flow (vph)	347	114	0	0	29	8	123	921	0	19	1426	0
Turn Type	Perm			Perm		Perm	pm+pt			Perm		
Protected Phases		4			8		5	2			6	
Permitted Phases	4			8		8	2			6		
Actuated Green, G (s)	26.5	26.5			26.5	26.5	61.1	61.1		53.1	53.1	
Effective Green, g (s)	27.5	27.5			27.5	27.5	63.1	63.1		55.1	55.1	
Actuated g/C Ratio	0.28	0.28			0.28	0.28	0.64	0.64		0.56	0.56	
Clearance Time (s)	5.0	5.0			5.0	5.0	3.0	6.0		6.0	6.0	
Vehicle Extension (s)	3.0	3.0			3.0	3.0	3.0	3.0		3.0	3.0	
Lane Grp Cap (vph)	383	443			434	442	165	2261		316	1915	
v/s Ratio Prot		0.14					c0.03	0.26			0.42	
v/s Ratio Perm	c0.25				0.02	0.02	c0.45			0.03		
v/c Ratio	0.91	0.26			0.07	0.02	0.75	0.41		0.06	0.74	
Uniform Delay, d1	34.3	27.6			26.1	25.8	15.0	8.6		9.9	16.4	
Progression Factor	1.00	1.00			1.00	1.00	1.00	1.00		1.00	1.00	
Incremental Delay, d2	24.2	0.3			0.1	0.0	16.6	0.5		0.4	2.7	
Delay (s)	58.5	27.9			26.2	25.8	31.6	9.2		10.3	19.1	
Level of Service	E	C			C	C	C	A		B	B	
Approach Delay (s)		46.4			26.0			11.8			19.0	
Approach LOS		D			C			B			B	

Intersection Summary			
HCM Average Control Delay	21.7	HCM Level of Service	C
HCM Volume to Capacity ratio	0.78		
Actuated Cycle Length (s)	98.6	Sum of lost time (s)	8.0
Intersection Capacity Utilization	75.9%	ICU Level of Service	D
Analysis Period (min)	15		

c Critical Lane Group

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Sign Control		Free			Free			Yield			Stop	
Grade		0%			0%			0%			0%	
Volume (veh/h)	14	476	3	5	272	22	2	0	1	0	0	0
Peak Hour Factor	0.84	0.84	0.84	0.86	0.86	0.86	0.75	0.75	0.75	0.25	0.25	0.25
Hourly flow rate (vph)	17	567	4	6	316	26	3	0	1	0	0	0
Pedestrians												
Lane Width (ft)												
Walking Speed (ft/s)												
Percent Blockage												
Right turn flare (veh)												
Median type								None			None	
Median storage veh)												
Upstream signal (ft)												
pX, platoon unblocked												
vC, conflicting volume	342			570			941	953	567	941	944	329
vC1, stage 1 conf vol												
vC2, stage 2 conf vol												
vCu, unblocked vol	342			570			941	953	567	941	944	329
tC, single (s)	4.1			4.1			7.1	6.5	6.2	7.1	6.5	6.2
tC, 2 stage (s)												
tF (s)	2.2			2.2			3.5	4.0	3.3	3.5	4.0	3.3
p0 queue free %	99			99			99	100	100	100	100	100
cM capacity (veh/h)	1217			1002			240	254	523	239	257	712

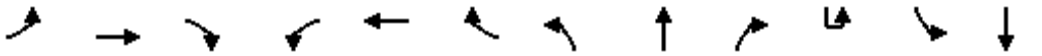
Direction, Lane #	EB 1	EB 2	EB 3	WB 1	NB 1
Volume Total	17	567	4	348	4
Volume Left	17	0	0	6	3
Volume Right	0	0	4	26	1
cSH	1217	1700	1700	1002	293
Volume to Capacity	0.01	0.33	0.00	0.01	0.01
Queue Length (ft)	1	0	0	0	1
Control Delay (s)	8.0	0.0	0.0	0.2	17.5
Lane LOS	A			A	C
Approach Delay (s)	0.2			0.2	17.5
Approach LOS					C

Intersection Summary			
Average Delay	0.3		
Intersection Capacity Utilization	Err%	ICU Level of Service	H
Analysis Period (min)	15		

Movement	EBL	EBR	NBU	NBL	NBT	SBT	SBR
Lane Configurations							
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)	4.0	4.0		4.0	4.0	4.0	
Lane Util. Factor	0.97	1.00		1.00	0.91	0.91	
Frt	1.00	0.85		1.00	1.00	0.99	
Flt Protected	0.95	1.00		0.95	1.00	1.00	
Satd. Flow (prot)	3433	1583		1770	5085	5016	
Flt Permitted	0.95	1.00		0.07	1.00	1.00	
Satd. Flow (perm)	3433	1583		128	5085	5016	
Volume (vph)	324	225	3	191	1745	1746	175
Peak-hour factor, PHF	0.93	0.93	0.95	0.95	0.95	0.96	0.96
Adj. Flow (vph)	348	242	3	201	1837	1819	182
RTOR Reduction (vph)	0	75	0	0	0	9	0
Lane Group Flow (vph)	348	167	0	204	1837	1992	0
Turn Type		Perm	pm+pt	pm+pt			
Protected Phases	7		5	5	2	6	
Permitted Phases		7	2	2			
Actuated Green, G (s)	17.1	17.1		89.1	89.1	81.1	
Effective Green, g (s)	18.1	18.1		90.1	90.1	82.1	
Actuated g/C Ratio	0.16	0.16		0.78	0.78	0.71	
Clearance Time (s)	5.0	5.0		3.0	5.0	5.0	
Vehicle Extension (s)	3.0	3.0		3.0	3.0	3.0	
Lane Grp Cap (vph)	535	247		156	3943	3544	
v/s Ratio Prot	0.10			c0.05	0.36	0.40	
v/s Ratio Perm		0.15		c0.97			
v/c Ratio	0.65	0.68		1.31	0.47	0.56	
Uniform Delay, d1	46.1	46.3		19.9	4.6	8.3	
Progression Factor	1.00	1.00		1.00	1.00	1.00	
Incremental Delay, d2	2.8	7.1		176.9	0.4	0.6	
Delay (s)	48.9	53.4		196.7	5.0	8.9	
Level of Service	D	D		F	A	A	
Approach Delay (s)	50.7				24.2	8.9	
Approach LOS	D				C	A	

Intersection Summary			
HCM Average Control Delay	21.0	HCM Level of Service	C
HCM Volume to Capacity ratio	1.24		
Actuated Cycle Length (s)	116.2	Sum of lost time (s)	8.0
Intersection Capacity Utilization	72.3%	ICU Level of Service	C
Analysis Period (min)	15		

c Critical Lane Group



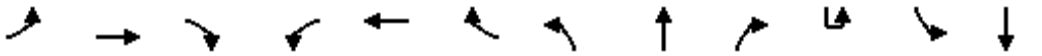
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBU	SBL	SBT
Lane Configurations												
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)	4.0	4.0	4.0	4.0	4.0		4.0	4.0	4.0		4.0	4.0
Lane Util. Factor	1.00	0.95	1.00	0.97	0.95		1.00	0.91	1.00		1.00	0.91
Frt	1.00	1.00	0.85	1.00	0.98		1.00	1.00	0.85		1.00	1.00
Flt Protected	0.95	1.00	1.00	0.95	1.00		0.95	1.00	1.00		0.95	1.00
Satd. Flow (prot)	1770	3539	1583	3433	3459		1770	5085	1583		1770	5076
Flt Permitted	0.95	1.00	1.00	0.95	1.00		0.09	1.00	1.00		0.12	1.00
Satd. Flow (perm)	1770	3539	1583	3433	3459		163	5085	1583		221	5076
Volume (vph)	20	713	447	254	458	81	256	1240	576	2	168	1272
Peak-hour factor, PHF	0.94	0.94	0.94	0.89	0.89	0.89	0.97	0.97	0.97	0.93	0.93	0.93
Adj. Flow (vph)	21	759	476	285	515	91	264	1278	594	2	181	1368
RTOR Reduction (vph)	0	0	141	0	10	0	0	0	199	0	0	1
Lane Group Flow (vph)	21	759	335	285	596	0	264	1278	395	0	183	1383
Turn Type	Prot		Perm	Prot			pm+pt		Perm	pm+pt	pm+pt	
Protected Phases	7	4		3	8		5	2		1	1	6
Permitted Phases			4				2		2	6	6	
Actuated Green, G (s)	3.3	31.1	31.1	13.7	41.5		59.1	47.1	47.1		57.1	46.1
Effective Green, g (s)	2.3	32.1	32.1	12.7	42.5		59.1	48.1	48.1		57.1	47.1
Actuated g/C Ratio	0.02	0.27	0.27	0.11	0.36		0.50	0.40	0.40		0.48	0.40
Clearance Time (s)	3.0	5.0	5.0	3.0	5.0		3.0	5.0	5.0		3.0	5.0
Vehicle Extension (s)	3.0	3.0	3.0	3.0	3.0		3.0	3.0	3.0		3.0	3.0
Lane Grp Cap (vph)	34	955	427	367	1236		230	2057	640		236	2011
v/s Ratio Prot	0.01	0.21		c0.08	0.18		c0.11	0.25			0.07	0.27
v/s Ratio Perm			0.30				c0.47		0.38		0.31	
v/c Ratio	0.62	0.79	0.78	0.78	0.48		1.15	0.62	0.62		0.78	0.69
Uniform Delay, d1	57.9	40.3	40.2	51.7	29.7		32.0	28.2	28.1		21.1	29.8
Progression Factor	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00
Incremental Delay, d2	29.0	4.6	9.2	9.9	0.3		105.0	1.4	4.4		14.7	1.9
Delay (s)	86.8	45.0	49.4	61.6	30.0		137.0	29.6	32.5		35.8	31.7
Level of Service	F	D	D	E	C		F	C	C		D	C
Approach Delay (s)		47.3			40.1			43.7				32.2
Approach LOS		D			D			D				C

Intersection Summary			
HCM Average Control Delay	40.8	HCM Level of Service	D
HCM Volume to Capacity ratio	1.06		
Actuated Cycle Length (s)	118.9	Sum of lost time (s)	12.0
Intersection Capacity Utilization	79.4%	ICU Level of Service	D
Analysis Period (min)	15		

c Critical Lane Group

Movement	SBR
Lane Configurations	
Ideal Flow (vphpl)	1900
Total Lost time (s)	
Lane Util. Factor	
Frt	
Flt Protected	
Satd. Flow (prot)	
Flt Permitted	
Satd. Flow (perm)	
Volume (vph)	15
Peak-hour factor, PHF	0.93
Adj. Flow (vph)	16
RTOR Reduction (vph)	0
Lane Group Flow (vph)	0
Turn Type	
Protected Phases	
Permitted Phases	
Actuated Green, G (s)	
Effective Green, g (s)	
Actuated g/C Ratio	
Clearance Time (s)	
Vehicle Extension (s)	
Lane Grp Cap (vph)	
v/s Ratio Prot	
v/s Ratio Perm	
v/c Ratio	
Uniform Delay, d1	
Progression Factor	
Incremental Delay, d2	
Delay (s)	
Level of Service	
Approach Delay (s)	
Approach LOS	

Intersection Summary



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBU	SBL	SBT
Lane Configurations												
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)	4.0	4.0	4.0	4.0	4.0		4.0	4.0	4.0		4.0	4.0
Lane Util. Factor	1.00	0.95	1.00	0.97	0.95		1.00	0.91	1.00		1.00	0.91
Frt	1.00	1.00	0.85	1.00	0.98		1.00	1.00	0.85		1.00	1.00
Flt Protected	0.95	1.00	1.00	0.95	1.00		0.95	1.00	1.00		0.95	1.00
Satd. Flow (prot)	1770	3539	1583	3433	3459		1770	5085	1583		1770	5076
Flt Permitted	0.95	1.00	1.00	0.95	1.00		0.09	1.00	1.00		0.12	1.00
Satd. Flow (perm)	1770	3539	1583	3433	3459		163	5085	1583		221	5076
Volume (vph)	20	713	447	254	458	81	256	1240	576	2	168	1272
Peak-hour factor, PHF	0.94	0.94	0.94	0.89	0.89	0.89	0.97	0.97	0.97	0.93	0.93	0.93
Adj. Flow (vph)	21	759	476	285	515	91	264	1278	594	2	181	1368
RTOR Reduction (vph)	0	0	141	0	10	0	0	0	199	0	0	1
Lane Group Flow (vph)	21	759	335	285	596	0	264	1278	395	0	183	1383
Turn Type	Prot		Perm	Prot			pm+pt		Perm	pm+pt	pm+pt	
Protected Phases	7	4		3	8		5	2		1	1	6
Permitted Phases			4				2		2	6	6	
Actuated Green, G (s)	3.3	31.1	31.1	13.7	41.5		59.1	47.1	47.1		57.1	46.1
Effective Green, g (s)	2.3	32.1	32.1	12.7	42.5		59.1	48.1	48.1		57.1	47.1
Actuated g/C Ratio	0.02	0.27	0.27	0.11	0.36		0.50	0.40	0.40		0.48	0.40
Clearance Time (s)	3.0	5.0	5.0	3.0	5.0		3.0	5.0	5.0		3.0	5.0
Vehicle Extension (s)	3.0	3.0	3.0	3.0	3.0		3.0	3.0	3.0		3.0	3.0
Lane Grp Cap (vph)	34	955	427	367	1236		230	2057	640		236	2011
v/s Ratio Prot	0.01	0.21		c0.08	0.18		c0.11	0.25			0.07	0.27
v/s Ratio Perm			0.30				c0.47		0.38		0.31	
v/c Ratio	0.62	0.79	0.78	0.78	0.48		1.15	0.62	0.62		0.78	0.69
Uniform Delay, d1	57.9	40.3	40.2	51.7	29.7		32.0	28.2	28.1		21.1	29.8
Progression Factor	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00
Incremental Delay, d2	29.0	4.6	9.2	9.9	0.3		105.0	1.4	4.4		14.7	1.9
Delay (s)	86.8	45.0	49.4	61.6	30.0		137.0	29.6	32.5		35.8	31.7
Level of Service	F	D	D	E	C		F	C	C		D	C
Approach Delay (s)		47.3			40.1			43.7				32.2
Approach LOS		D			D			D				C

Intersection Summary			
HCM Average Control Delay	40.8	HCM Level of Service	D
HCM Volume to Capacity ratio	1.06		
Actuated Cycle Length (s)	118.9	Sum of lost time (s)	12.0
Intersection Capacity Utilization	79.4%	ICU Level of Service	D
Analysis Period (min)	15		

c Critical Lane Group

Movement	SBR
Lane Configurations	
Ideal Flow (vphpl)	1900
Total Lost time (s)	
Lane Util. Factor	
Frt	
Flt Protected	
Satd. Flow (prot)	
Flt Permitted	
Satd. Flow (perm)	
Volume (vph)	15
Peak-hour factor, PHF	0.93
Adj. Flow (vph)	16
RTOR Reduction (vph)	0
Lane Group Flow (vph)	0
Turn Type	
Protected Phases	
Permitted Phases	
Actuated Green, G (s)	
Effective Green, g (s)	
Actuated g/C Ratio	
Clearance Time (s)	
Vehicle Extension (s)	
Lane Grp Cap (vph)	
v/s Ratio Prot	
v/s Ratio Perm	
v/c Ratio	
Uniform Delay, d1	
Progression Factor	
Incremental Delay, d2	
Delay (s)	
Level of Service	
Approach Delay (s)	
Approach LOS	

Intersection Summary

2006 P.M. Peak Hour
Existing Timings

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)					4.0	4.0		4.0				
Lane Util. Factor					0.95	1.00		0.91				
Frt					1.00	0.85		1.00				
Flt Protected					1.00	1.00		0.97				
Satd. Flow (prot)					3539	1583		4933				
Flt Permitted					1.00	1.00		0.97				
Satd. Flow (perm)					3539	1583		4933				
Volume (vph)	0	0	0	0	1154	110	559	345	0	0	0	0
Peak-hour factor, PHF	0.25	0.25	0.25	0.93	0.93	0.93	0.80	0.80	0.80	0.25	0.25	0.25
Adj. Flow (vph)	0	0	0	0	1241	118	699	431	0	0	0	0
RTOR Reduction (vph)	0	0	0	0	0	69	0	12	0	0	0	0
Lane Group Flow (vph)	0	0	0	0	1241	49	0	1118	0	0	0	0
Turn Type						Perm	Perm					
Protected Phases					8			2				
Permitted Phases						8	2					
Actuated Green, G (s)					31.5	31.5		37.1				
Effective Green, g (s)					32.5	32.5		37.1				
Actuated g/C Ratio					0.42	0.42		0.48				
Clearance Time (s)					5.0	5.0		4.0				
Vehicle Extension (s)					3.0	3.0		3.0				
Lane Grp Cap (vph)					1482	663		2358				
v/s Ratio Prot					c0.35							
v/s Ratio Perm						0.07		0.23				
v/c Ratio					0.84	0.07		0.47				
Uniform Delay, d1					20.2	13.5		13.7				
Progression Factor					1.00	1.00		1.00				
Incremental Delay, d2					4.3	0.0		0.7				
Delay (s)					24.5	13.6		14.4				
Level of Service					C	B		B				
Approach Delay (s)		0.0			23.5			14.4			0.0	
Approach LOS		A			C			B			A	

Intersection Summary			
HCM Average Control Delay	19.4	HCM Level of Service	B
HCM Volume to Capacity ratio	0.65		
Actuated Cycle Length (s)	77.6	Sum of lost time (s)	8.0
Intersection Capacity Utilization	69.5%	ICU Level of Service	C
Analysis Period (min)	15		

c Critical Lane Group

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)					4.0						4.0	4.0
Lane Util. Factor					0.91						0.91	0.91
Frt					1.00						0.97	0.85
Flt Protected					1.00						1.00	1.00
Satd. Flow (prot)					5066						3286	1441
Flt Permitted					1.00						1.00	1.00
Satd. Flow (perm)					5066						3286	1441
Volume (vph)	0	0	0	129	1564	0	0	0	0	0	370	294
Peak-hour factor, PHF	0.25	0.25	0.25	0.90	0.90	0.90	0.25	0.25	0.25	0.94	0.94	0.94
Adj. Flow (vph)	0	0	0	143	1738	0	0	0	0	0	394	313
RTOR Reduction (vph)	0	0	0	0	9	0	0	0	0	0	3	3
Lane Group Flow (vph)	0	0	0	0	1872	0	0	0	0	0	493	208
Turn Type				Perm								Perm
Protected Phases					8						6	
Permitted Phases				8								6
Actuated Green, G (s)					28.5						14.4	14.4
Effective Green, g (s)					30.5						15.4	15.4
Actuated g/C Ratio					0.57						0.29	0.29
Clearance Time (s)					6.0						5.0	5.0
Vehicle Extension (s)					3.0						3.0	3.0
Lane Grp Cap (vph)					2867						939	412
v/s Ratio Prot											c0.15	
v/s Ratio Perm					0.37							0.15
v/c Ratio					0.65						0.53	0.51
Uniform Delay, d1					8.1						16.2	16.1
Progression Factor					1.00						1.00	1.00
Incremental Delay, d2					0.5						0.5	1.0
Delay (s)					8.6						16.7	17.0
Level of Service					A						B	B
Approach Delay (s)		0.0			8.6			0.0			16.8	
Approach LOS		A			A			A			B	

Intersection Summary			
HCM Average Control Delay	10.8	HCM Level of Service	B
HCM Volume to Capacity ratio	0.61		
Actuated Cycle Length (s)	53.9	Sum of lost time (s)	8.0
Intersection Capacity Utilization	52.9%	ICU Level of Service	A
Analysis Period (min)	15		

c Critical Lane Group

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)					4.0		4.0	4.0			4.0	
Lane Util. Factor					0.91		1.00	0.95			0.95	
Frt					0.99		1.00	1.00			0.94	
Flt Protected					1.00		0.95	1.00			1.00	
Satd. Flow (prot)					5021		1770	3539			3315	
Flt Permitted					1.00		0.18	1.00			1.00	
Satd. Flow (perm)					5021		339	3539			3315	
Volume (vph)	0	0	0	122	1710	124	263	270	0	0	405	297
Peak-hour factor, PHF	0.25	0.25	0.25	0.93	0.93	0.93	0.94	0.94	0.94	0.87	0.87	0.87
Adj. Flow (vph)	0	0	0	131	1839	133	280	287	0	0	466	341
RTOR Reduction (vph)	0	0	0	0	9	0	0	0	0	0	22	0
Lane Group Flow (vph)	0	0	0	0	2094	0	280	287	0	0	785	0
Turn Type				Perm			pm+pt					
Protected Phases					8		5	2			6	
Permitted Phases				8			2					
Actuated Green, G (s)					37.7		34.0	34.0			19.0	
Effective Green, g (s)					38.7		33.0	33.0			18.0	
Actuated g/C Ratio					0.49		0.41	0.41			0.23	
Clearance Time (s)					5.0		8.0	3.0			3.0	
Vehicle Extension (s)					3.0		3.0	3.0			3.0	
Lane Grp Cap (vph)					2438		338	1465			749	
v/s Ratio Prot							c0.11	0.08			c0.24	
v/s Ratio Perm					0.42		0.23					
v/c Ratio					0.86		0.83	0.20			1.05	
Uniform Delay, d1					18.1		18.8	14.9			30.9	
Progression Factor					1.00		1.00	1.00			1.00	
Incremental Delay, d2					3.2		15.3	0.1			46.0	
Delay (s)					21.3		34.1	15.0			76.8	
Level of Service					C		C	B			E	
Approach Delay (s)		0.0			21.3			24.4			76.8	
Approach LOS		A			C			C			E	

Intersection Summary			
HCM Average Control Delay	34.7	HCM Level of Service	C
HCM Volume to Capacity ratio	0.92		
Actuated Cycle Length (s)	79.7	Sum of lost time (s)	12.0
Intersection Capacity Utilization	83.6%	ICU Level of Service	E
Analysis Period (min)	15		

c Critical Lane Group

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)	4.0	4.0		4.0	4.0		4.0	4.0		4.0	4.0	
Lane Util. Factor	1.00	1.00		1.00	1.00		1.00	0.95		1.00	0.95	
Frt	1.00	0.88		1.00	0.89		1.00	0.99		1.00	1.00	
Flt Protected	0.95	1.00		0.95	1.00		0.95	1.00		0.95	1.00	
Satd. Flow (prot)	1770	1631		1770	1649		1770	3518		1770	3536	
Flt Permitted	0.70	1.00		0.48	1.00		0.53	1.00		0.60	1.00	
Satd. Flow (perm)	1307	1631		892	1649		991	3518		1111	3536	
Volume (vph)	19	25	119	64	16	53	85	222	9	10	316	2
Peak-hour factor, PHF	0.91	0.91	0.91	0.82	0.82	0.82	0.92	0.92	0.92	0.86	0.86	0.86
Adj. Flow (vph)	21	27	131	78	20	65	92	241	10	12	367	2
RTOR Reduction (vph)	0	112	0	0	56	0	0	2	0	0	0	0
Lane Group Flow (vph)	21	46	0	78	29	0	92	249	0	12	369	0
Turn Type	Perm			Perm			Perm			Perm		
Protected Phases		4			8			2			6	
Permitted Phases	4			8			2			6		
Actuated Green, G (s)	12.0	12.0		12.0	12.0		69.2	69.2		69.2	69.2	
Effective Green, g (s)	13.0	13.0		13.0	13.0		70.2	70.2		70.2	70.2	
Actuated g/C Ratio	0.14	0.14		0.14	0.14		0.77	0.77		0.77	0.77	
Clearance Time (s)	5.0	5.0		5.0	5.0		5.0	5.0		5.0	5.0	
Vehicle Extension (s)	3.0	3.0		3.0	3.0		3.0	3.0		3.0	3.0	
Lane Grp Cap (vph)	186	232		127	235		763	2708		855	2722	
v/s Ratio Prot		c0.10			0.05			0.07			c0.10	
v/s Ratio Perm	0.02			0.09			0.09			0.01		
v/c Ratio	0.11	0.20		0.61	0.12		0.12	0.09		0.01	0.14	
Uniform Delay, d1	34.1	34.5		36.7	34.1		2.7	2.6		2.4	2.7	
Progression Factor	1.00	1.00		1.00	1.00		1.00	1.00		1.00	1.00	
Incremental Delay, d2	0.3	0.4		8.5	0.2		0.3	0.1		0.0	0.1	
Delay (s)	34.3	34.9		45.3	34.4		3.0	2.7		2.5	2.8	
Level of Service	C	C		D	C		A	A		A	A	
Approach Delay (s)		34.8			39.6			2.8			2.8	
Approach LOS		C			D			A			A	

Intersection Summary

HCM Average Control Delay	13.8	HCM Level of Service	B
HCM Volume to Capacity ratio	0.22		
Actuated Cycle Length (s)	91.2	Sum of lost time (s)	8.0
Intersection Capacity Utilization	39.0%	ICU Level of Service	A
Analysis Period (min)	15		

c Critical Lane Group

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)	4.0	4.0			4.0			4.0			4.0	4.0
Lane Util. Factor	0.91	0.91			0.95			0.95			0.95	1.00
Frt	1.00	0.95			0.93			0.99			1.00	0.85
Flt Protected	0.95	0.99			1.00			1.00			1.00	1.00
Satd. Flow (prot)	1610	3184			3276			3508			3539	1583
Flt Permitted	0.95	0.99			1.00			1.00			1.00	1.00
Satd. Flow (perm)	1610	3184			3276			3508			3539	1583
Volume (vph)	422	220	175	6	153	153	0	609	38	0	867	545
Peak-hour factor, PHF	0.91	0.91	0.91	0.85	0.85	0.85	0.89	0.89	0.89	0.93	0.93	0.93
Adj. Flow (vph)	464	242	192	7	180	180	0	684	43	0	932	586
RTOR Reduction (vph)	0	44	0	0	117	0	0	3	0	0	0	250
Lane Group Flow (vph)	294	560	0	0	250	0	0	724	0	0	932	336
Turn Type	Split			Split								Perm
Protected Phases	4	4		8	8			2			6	
Permitted Phases												6
Actuated Green, G (s)	24.8	24.8			12.9			51.6			51.6	51.6
Effective Green, g (s)	25.8	25.8			13.9			52.6			52.6	52.6
Actuated g/C Ratio	0.25	0.25			0.13			0.50			0.50	0.50
Clearance Time (s)	5.0	5.0			5.0			5.0			5.0	5.0
Vehicle Extension (s)	3.0	3.0			3.0			3.0			3.0	3.0
Lane Grp Cap (vph)	398	788			437			1769			1785	798
v/s Ratio Prot	0.18	c0.19			c0.11			0.21			0.26	
v/s Ratio Perm												0.37
v/c Ratio	0.74	0.71			0.57			0.41			0.52	0.42
Uniform Delay, d1	36.1	35.8			42.4			16.1			17.4	16.3
Progression Factor	1.00	1.00			1.00			1.00			1.00	1.00
Incremental Delay, d2	7.0	3.0			1.8			0.7			1.1	1.6
Delay (s)	43.2	38.9			44.2			16.8			18.5	17.9
Level of Service	D	D			D			B			B	B
Approach Delay (s)		40.3			44.2			16.8			18.3	
Approach LOS		D			D			B			B	

Intersection Summary			
HCM Average Control Delay	26.3	HCM Level of Service	C
HCM Volume to Capacity ratio	0.76		
Actuated Cycle Length (s)	104.3	Sum of lost time (s)	12.0
Intersection Capacity Utilization	59.3%	ICU Level of Service	B
Analysis Period (min)	15		

c Critical Lane Group

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBU	SBL	SBT
Lane Configurations												
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)	4.0	4.0		4.0	4.0			4.0			4.0	4.0
Lane Util. Factor	1.00	0.95		1.00	0.95			0.91			1.00	0.95
Frt	1.00	0.93		1.00	0.92			0.98			1.00	1.00
Flt Protected	0.95	1.00		0.95	1.00			1.00			0.95	1.00
Satd. Flow (prot)	1770	3307		1770	3269			4965			1770	3539
Flt Permitted	0.18	1.00		0.49	1.00			1.00			0.10	1.00
Satd. Flow (perm)	343	3307		922	3269			4965			191	3539
Volume (vph)	167	129	100	309	282	293	0	1046	196	7	79	1077
Peak-hour factor, PHF	0.87	0.87	0.87	0.91	0.91	0.91	0.84	0.84	0.84	0.92	0.92	0.92
Adj. Flow (vph)	192	148	115	340	310	322	0	1245	233	8	86	1171
RTOR Reduction (vph)	0	61	0	0	156	0	0	19	0	0	0	0
Lane Group Flow (vph)	192	202	0	340	476	0	0	1459	0	0	94	1171
Turn Type	pm+pt			pm+pt						pm+pt	pm+pt	
Protected Phases	7	4		3	8			2		1	1	6
Permitted Phases	4			8						6	6	
Actuated Green, G (s)	31.5	20.7		31.9	20.9			56.0			65.8	65.8
Effective Green, g (s)	31.5	21.7		31.9	21.9			56.0			65.8	65.8
Actuated g/C Ratio	0.29	0.20		0.29	0.20			0.51			0.60	0.60
Clearance Time (s)	3.0	5.0		3.0	5.0			4.0			3.0	4.0
Vehicle Extension (s)	3.0	3.0		3.0	3.0			3.0			3.0	3.0
Lane Grp Cap (vph)	226	655		346	654			2539			198	2127
v/s Ratio Prot	0.08	0.08		c0.09	0.19			c0.30			0.03	c0.33
v/s Ratio Perm	0.17			c0.20							0.26	
v/c Ratio	0.85	0.31		0.98	0.73			0.57			0.47	0.55
Uniform Delay, d1	32.5	37.5		37.0	41.0			18.5			12.7	13.0
Progression Factor	1.00	1.00		1.00	1.00			1.00			1.00	1.00
Incremental Delay, d2	24.6	0.3		43.4	4.0			1.0			1.8	1.0
Delay (s)	57.0	37.8		80.4	45.1			19.5			14.5	14.1
Level of Service	E	D		F	D			B			B	B
Approach Delay (s)		45.9			57.4			19.5				14.0
Approach LOS		D			E			B				B

Intersection Summary			
HCM Average Control Delay	29.5	HCM Level of Service	C
HCM Volume to Capacity ratio	0.70		
Actuated Cycle Length (s)	109.5	Sum of lost time (s)	12.0
Intersection Capacity Utilization	69.1%	ICU Level of Service	C
Analysis Period (min)	15		

c Critical Lane Group

Movement	SBR
Lane Configurations	
Ideal Flow (vphpl)	1900
Total Lost time (s)	4.0
Lane Util. Factor	1.00
Frt	0.85
Flt Protected	1.00
Satd. Flow (prot)	1583
Flt Permitted	1.00
Satd. Flow (perm)	1583
Volume (vph)	14
Peak-hour factor, PHF	0.92
Adj. Flow (vph)	15
RTOR Reduction (vph)	6
Lane Group Flow (vph)	9
Turn Type	Perm
Protected Phases	
Permitted Phases	6
Actuated Green, G (s)	65.8
Effective Green, g (s)	65.8
Actuated g/C Ratio	0.60
Clearance Time (s)	4.0
Vehicle Extension (s)	3.0
Lane Grp Cap (vph)	951
v/s Ratio Prot	
v/s Ratio Perm	0.01
v/c Ratio	0.01
Uniform Delay, d1	8.8
Progression Factor	1.00
Incremental Delay, d2	0.0
Delay (s)	8.8
Level of Service	A
Approach Delay (s)	
Approach LOS	

Intersection Summary

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)		4.0		4.0	4.0	4.0	4.0	4.0			4.0	4.0
Lane Util. Factor		1.00		0.95	0.95	1.00	1.00	1.00			0.95	1.00
Frt		0.94		1.00	1.00	0.85	1.00	1.00			1.00	0.85
Flt Protected		0.97		0.95	0.96	1.00	0.95	1.00			1.00	1.00
Satd. Flow (prot)		1700		1681	1691	1583	1770	1863			3539	1583
Flt Permitted		0.82		0.53	0.70	1.00	0.03	1.00			1.00	1.00
Satd. Flow (perm)		1440		946	1239	1583	53	1863			3539	1583
Volume (vph)	98	0	85	24	1	228	37	824	0	0	2787	303
Peak-hour factor, PHF	0.74	0.74	0.74	0.90	0.90	0.90	0.93	0.93	0.93	0.95	0.95	0.95
Adj. Flow (vph)	132	0	115	27	1	253	40	886	0	0	2934	319
RTOR Reduction (vph)	0	18	0	0	0	0	0	0	0	0	0	42
Lane Group Flow (vph)	0	229	0	14	14	253	40	886	0	0	2934	277
Turn Type	Perm			Perm		Free	pm+pt					Perm
Protected Phases		4			8		5	2			6	
Permitted Phases	4			8		Free	2					6
Actuated Green, G (s)		22.0		22.0	22.0	175.6	143.6	143.6			135.2	135.2
Effective Green, g (s)		23.0		23.0	23.0	175.6	144.6	144.6			136.2	136.2
Actuated g/C Ratio		0.13		0.13	0.13	1.00	0.82	0.82			0.78	0.78
Clearance Time (s)		5.0		5.0	5.0		3.0	5.0			5.0	5.0
Vehicle Extension (s)		3.0		3.0	3.0		3.0	3.0			3.0	3.0
Lane Grp Cap (vph)		189		124	162	1583	87	1534			2745	1228
v/s Ratio Prot							0.01	c0.48			c0.83	
v/s Ratio Perm		c0.17		0.01	0.01	0.16	0.37					0.20
v/c Ratio		1.21		0.11	0.09	0.16	0.46	0.58			1.07	0.23
Uniform Delay, d1		76.3		67.3	67.1	0.0	58.8	5.2			19.7	5.4
Progression Factor		1.00		1.00	1.00	1.00	1.00	1.00			1.00	1.00
Incremental Delay, d2		133.5		0.4	0.2	0.2	3.8	1.6			39.1	0.4
Delay (s)		209.8		67.7	67.3	0.2	62.6	6.8			58.8	5.8
Level of Service		F		E	E	A	E	A			E	A
Approach Delay (s)		209.8			6.9			9.2			53.6	
Approach LOS		F			A			A			D	

Intersection Summary

HCM Average Control Delay	50.3	HCM Level of Service	D
HCM Volume to Capacity ratio	1.09		
Actuated Cycle Length (s)	175.6	Sum of lost time (s)	12.0
Intersection Capacity Utilization	101.0%	ICU Level of Service	G
Analysis Period (min)	15		

c Critical Lane Group

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)		4.0	4.0		4.0		4.0	4.0	4.0	4.0	4.0	
Lane Util. Factor		0.95	1.00		1.00		1.00	0.95	1.00	1.00	1.00	
Frt		1.00	0.85		0.98		1.00	1.00	0.85	1.00	0.99	
Flt Protected		0.99	1.00		1.00		0.95	1.00	1.00	0.95	1.00	
Satd. Flow (prot)		3517	1583		1818		1770	3539	1583	1770	1839	
Flt Permitted		0.79	1.00		1.00		0.24	1.00	1.00	0.42	1.00	
Satd. Flow (perm)		2779	1583		1818		449	3539	1583	782	1839	
Volume (vph)	20	143	231	0	252	54	152	527	250	43	447	42
Peak-hour factor, PHF	0.93	0.93	0.93	0.87	0.87	0.87	0.86	0.86	0.86	0.73	0.73	0.73
Adj. Flow (vph)	22	154	248	0	290	62	177	613	291	59	612	58
RTOR Reduction (vph)	0	0	190	0	8	0	0	0	95	0	4	0
Lane Group Flow (vph)	0	176	58	0	344	0	177	613	196	59	666	0
Turn Type	Perm		Perm				pm+pt		Perm	Perm		
Protected Phases		4			8		5	2			6	
Permitted Phases	4		4				2		2	6		
Actuated Green, G (s)		19.6	19.6		19.6		58.1	58.1	58.1	49.1	49.1	
Effective Green, g (s)		20.6	20.6		20.6		59.1	59.1	59.1	50.1	50.1	
Actuated g/C Ratio		0.23	0.23		0.23		0.67	0.67	0.67	0.57	0.57	
Clearance Time (s)		5.0	5.0		5.0		3.0	5.0	5.0	5.0	5.0	
Vehicle Extension (s)		3.0	3.0		3.0		3.0	3.0	3.0	3.0	3.0	
Lane Grp Cap (vph)		653	372		427		378	2385	1067	447	1051	
v/s Ratio Prot					c0.19		c0.03	0.17			c0.36	
v/s Ratio Perm		0.06	0.16				0.29		0.18	0.08		
v/c Ratio		0.27	0.16		0.80		0.47	0.26	0.18	0.13	0.63	
Uniform Delay, d1		27.4	26.6		31.7		8.9	5.6	5.3	8.7	12.6	
Progression Factor		1.00	1.00		1.00		1.00	1.00	1.00	1.00	1.00	
Incremental Delay, d2		0.2	0.2		10.5		0.9	0.3	0.4	0.6	2.9	
Delay (s)		27.6	26.8		42.2		9.8	5.9	5.7	9.3	15.5	
Level of Service		C	C		D		A	A	A	A	B	
Approach Delay (s)		27.2			42.2			6.5			15.0	
Approach LOS		C			D			A			B	

Intersection Summary			
HCM Average Control Delay	17.1	HCM Level of Service	B
HCM Volume to Capacity ratio	0.68		
Actuated Cycle Length (s)	87.7	Sum of lost time (s)	12.0
Intersection Capacity Utilization	64.1%	ICU Level of Service	C
Analysis Period (min)	15		

c Critical Lane Group

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)	4.0	4.0			4.0	4.0	4.0	4.0		4.0	4.0	
Lane Util. Factor	1.00	1.00			1.00	1.00	1.00	0.95		1.00	0.95	
Frt	1.00	0.86			1.00	0.85	1.00	1.00		1.00	0.96	
Flt Protected	0.95	1.00			0.97	1.00	0.95	1.00		0.95	1.00	
Satd. Flow (prot)	1770	1595			1804	1583	1770	3533		1770	3390	
Flt Permitted	0.74	1.00			0.79	1.00	0.07	1.00		0.18	1.00	
Satd. Flow (perm)	1379	1595			1465	1583	123	3533		336	3390	
Volume (vph)	235	10	235	14	7	25	181	1172	14	20	1136	443
Peak-hour factor, PHF	0.82	0.82	0.82	0.81	0.81	0.81	0.92	0.92	0.92	0.95	0.95	0.95
Adj. Flow (vph)	287	12	287	17	9	31	197	1274	15	21	1196	466
RTOR Reduction (vph)	0	91	0	0	0	23	0	0	0	0	28	0
Lane Group Flow (vph)	287	208	0	0	26	8	197	1289	0	21	1634	0
Turn Type	Perm			Perm		Perm	pm+pt			Perm		
Protected Phases		4			8		5	2			6	
Permitted Phases	4			8		8	2			6		
Actuated Green, G (s)	25.7	25.7			25.7	25.7	62.5	62.5		54.5	54.5	
Effective Green, g (s)	26.7	26.7			26.7	26.7	64.5	64.5		56.5	56.5	
Actuated g/C Ratio	0.27	0.27			0.27	0.27	0.65	0.65		0.57	0.57	
Clearance Time (s)	5.0	5.0			5.0	5.0	3.0	6.0		6.0	6.0	
Vehicle Extension (s)	3.0	3.0			3.0	3.0	3.0	3.0		3.0	3.0	
Lane Grp Cap (vph)	371	429			394	426	146	2297		191	1931	
v/s Ratio Prot		0.19					c0.05	0.36			0.49	
v/s Ratio Perm	c0.21				0.02	0.02	c0.82			0.06		
v/c Ratio	0.77	0.49			0.07	0.02	1.35	0.56		0.11	0.85	
Uniform Delay, d1	33.5	30.5			27.0	26.6	23.5	9.6		9.8	17.7	
Progression Factor	1.00	1.00			1.00	1.00	1.00	1.00		1.00	1.00	
Incremental Delay, d2	9.7	0.9			0.1	0.0	195.5	1.0		1.2	4.8	
Delay (s)	43.1	31.3			27.0	26.7	219.0	10.6		11.0	22.5	
Level of Service	D	C			C	C	F	B		B	C	
Approach Delay (s)		37.1			26.8			38.2			22.4	
Approach LOS		D			C			D			C	

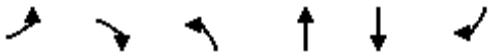
Intersection Summary			
HCM Average Control Delay	30.9	HCM Level of Service	C
HCM Volume to Capacity ratio	1.16		
Actuated Cycle Length (s)	99.2	Sum of lost time (s)	8.0
Intersection Capacity Utilization	85.3%	ICU Level of Service	E
Analysis Period (min)	15		

c Critical Lane Group

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Sign Control		Free			Free			Yield			Stop	
Grade		0%			0%			0%			0%	
Volume (veh/h)	17	327	4	2	474	67	3	0	2	0	0	0
Peak Hour Factor	0.89	0.89	0.89	0.88	0.88	0.88	0.62	0.62	0.62	0.25	0.25	0.25
Hourly flow rate (vph)	19	367	4	2	539	76	5	0	3	0	0	0
Pedestrians												
Lane Width (ft)												
Walking Speed (ft/s)												
Percent Blockage												
Right turn flare (veh)												
Median type								None			None	
Median storage veh)												
Upstream signal (ft)												
pX, platoon unblocked												
vC, conflicting volume	615			372			987	1025	367	987	991	577
vC1, stage 1 conf vol												
vC2, stage 2 conf vol												
vCu, unblocked vol	615			372			987	1025	367	987	991	577
tC, single (s)	4.1			4.1			7.1	6.5	6.2	7.1	6.5	6.2
tC, 2 stage (s)												
tF (s)	2.2			2.2			3.5	4.0	3.3	3.5	4.0	3.3
p0 queue free %	98			100			98	100	100	100	100	100
cM capacity (veh/h)	965			1187			223	230	678	222	241	516

Direction, Lane #	EB 1	EB 2	EB 3	WB 1	NB 1
Volume Total	19	367	4	617	8
Volume Left	19	0	0	2	5
Volume Right	0	0	4	76	3
cSH	965	1700	1700	1187	305
Volume to Capacity	0.02	0.22	0.00	0.00	0.03
Queue Length (ft)	2	0	0	0	2
Control Delay (s)	8.8	0.0	0.0	0.1	17.1
Lane LOS	A			A	C
Approach Delay (s)	0.4			0.1	17.1
Approach LOS					C

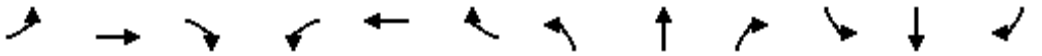
Intersection Summary			
Average Delay	0.3		
Intersection Capacity Utilization	Err%	ICU Level of Service	H
Analysis Period (min)	15		



Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Total Lost time (s)	4.0	4.0	4.0	4.0	4.0	
Lane Util. Factor	0.97	1.00	1.00	0.91	0.91	
Frt	1.00	0.85	1.00	1.00	0.98	
Flt Protected	0.95	1.00	0.95	1.00	1.00	
Satd. Flow (prot)	3433	1583	1770	5085	4963	
Flt Permitted	0.95	1.00	0.04	1.00	1.00	
Satd. Flow (perm)	3433	1583	79	5085	4963	
Volume (vph)	371	296	231	2030	2086	398
Peak-hour factor, PHF	0.92	0.92	0.92	0.92	0.92	0.92
Adj. Flow (vph)	403	322	251	2207	2267	433
RTOR Reduction (vph)	0	117	0	0	20	0
Lane Group Flow (vph)	403	205	251	2207	2680	0
Turn Type		Perm	pm+pt			
Protected Phases	7		5	2	6	
Permitted Phases		7	2			
Actuated Green, G (s)	19.7	19.7	104.0	104.0	89.0	
Effective Green, g (s)	20.7	20.7	105.0	105.0	90.0	
Actuated g/C Ratio	0.15	0.15	0.79	0.79	0.67	
Clearance Time (s)	5.0	5.0	3.0	5.0	5.0	
Vehicle Extension (s)	3.0	3.0	3.0	3.0	3.0	
Lane Grp Cap (vph)	532	245	201	3993	3341	
v/s Ratio Prot	0.12		c0.10	0.43	0.54	
v/s Ratio Perm		0.20	c0.87			
v/c Ratio	0.76	0.83	1.25	0.55	0.80	
Uniform Delay, d1	54.1	54.8	46.2	5.4	15.5	
Progression Factor	1.00	1.00	1.00	1.00	1.00	
Incremental Delay, d2	6.1	21.1	146.3	0.6	2.1	
Delay (s)	60.2	75.9	192.5	6.0	17.7	
Level of Service	E	E	F	A	B	
Approach Delay (s)	67.2			25.0	17.7	
Approach LOS	E			C	B	

Intersection Summary			
HCM Average Control Delay	26.8	HCM Level of Service	C
HCM Volume to Capacity ratio	1.24		
Actuated Cycle Length (s)	133.7	Sum of lost time (s)	8.0
Intersection Capacity Utilization	82.6%	ICU Level of Service	E
Analysis Period (min)	15		

c Critical Lane Group

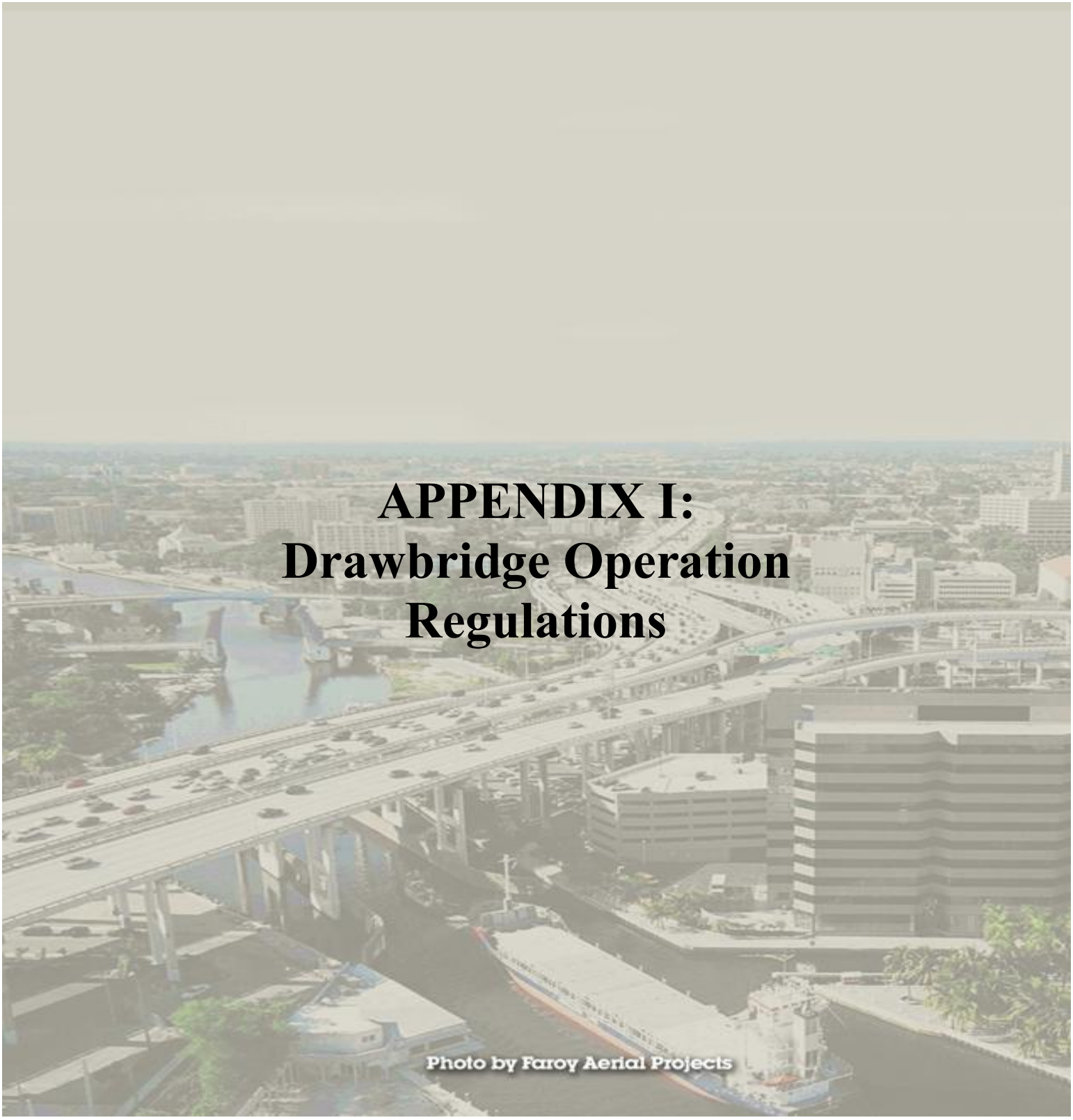


Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)	4.0	4.0	4.0	4.0	4.0		4.0	4.0	4.0	4.0	4.0	
Lane Util. Factor	1.00	0.95	1.00	0.97	0.95		1.00	0.91	1.00	1.00	0.91	
Frt	1.00	1.00	0.85	1.00	0.97		1.00	1.00	0.85	1.00	1.00	
Flt Protected	0.95	1.00	1.00	0.95	1.00		0.95	1.00	1.00	0.95	1.00	
Satd. Flow (prot)	1770	3539	1583	3433	3450		1770	5085	1583	1770	5076	
Flt Permitted	0.95	1.00	1.00	0.95	1.00		0.07	1.00	1.00	0.08	1.00	
Satd. Flow (perm)	1770	3539	1583	3433	3450		138	5085	1583	143	5076	
Volume (vph)	31	623	569	445	803	162	265	1679	365	122	1651	20
Peak-hour factor, PHF	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Adj. Flow (vph)	34	677	618	484	873	176	288	1825	397	133	1795	22
RTOR Reduction (vph)	0	0	125	0	11	0	0	0	171	0	1	0
Lane Group Flow (vph)	34	677	493	484	1038	0	288	1825	226	133	1816	0
Turn Type	Prot		Perm	Prot			pm+pt		Perm	pm+pt		
Protected Phases	7	4		3	8		5	2		1	6	
Permitted Phases			4				2		2	6		
Actuated Green, G (s)	5.6	39.2	39.2	17.0	50.6		66.1	53.1	53.1	61.9	51.0	
Effective Green, g (s)	4.6	40.2	40.2	16.0	51.6		66.1	54.1	54.1	61.9	52.0	
Actuated g/C Ratio	0.03	0.30	0.30	0.12	0.38		0.49	0.40	0.40	0.45	0.38	
Clearance Time (s)	3.0	5.0	5.0	3.0	5.0		3.0	5.0	5.0	3.0	5.0	
Vehicle Extension (s)	3.0	3.0	3.0	3.0	3.0		3.0	3.0	3.0	3.0	3.0	
Lane Grp Cap (vph)	60	1045	467	403	1307		211	2020	629	183	1938	
v/s Ratio Prot	0.02	0.19		c0.14	0.30		c0.12	0.36		0.05	0.36	
v/s Ratio Perm			0.39				c0.54		0.25	0.28		
v/c Ratio	0.57	0.65	1.06	1.20	0.79		1.36	0.90	0.36	0.73	0.94	
Uniform Delay, d1	64.8	41.8	48.0	60.1	37.6		41.5	38.6	28.9	29.9	40.5	
Progression Factor	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	
Incremental Delay, d2	11.7	1.4	57.3	112.0	3.4		191.6	7.2	1.6	13.4	10.2	
Delay (s)	76.5	43.2	105.3	172.1	41.0		233.1	45.8	30.5	43.3	50.7	
Level of Service	E	D	F	F	D		F	D	C	D	D	
Approach Delay (s)		72.9			82.4			64.8			50.2	
Approach LOS		E			F			E			D	

Intersection Summary			
HCM Average Control Delay	66.1	HCM Level of Service	E
HCM Volume to Capacity ratio	1.35		
Actuated Cycle Length (s)	136.2	Sum of lost time (s)	16.0
Intersection Capacity Utilization	91.1%	ICU Level of Service	F
Analysis Period (min)	15		

c Critical Lane Group

APPENDIX I:
Drawbridge Operation Regulations



[Code of Federal Regulations]
[Title 33, Volume 1]
[Revised as of July 1, 2006]
From the U.S. Government Printing Office via GPO Access
[CITE: 33CFR117]

TITLE 33--NAVIGATION AND NAVIGABLE WATERS

CHAPTER I--COAST GUARD, DEPARTMENT OF HOMELAND SECURITY

PART 117_DRAWBRIDGE OPERATION REGULATIONS--Table of Contents

Subpart B_Specific Requirements

Sec. 117.305 Miami River.

(a) General. Public vessels of the United States, tugs, tugs with tows, and vessels in a situation where a delay would endanger life or property shall, upon proper signal, be passed through the draw of each bridge listed in this section at any time.

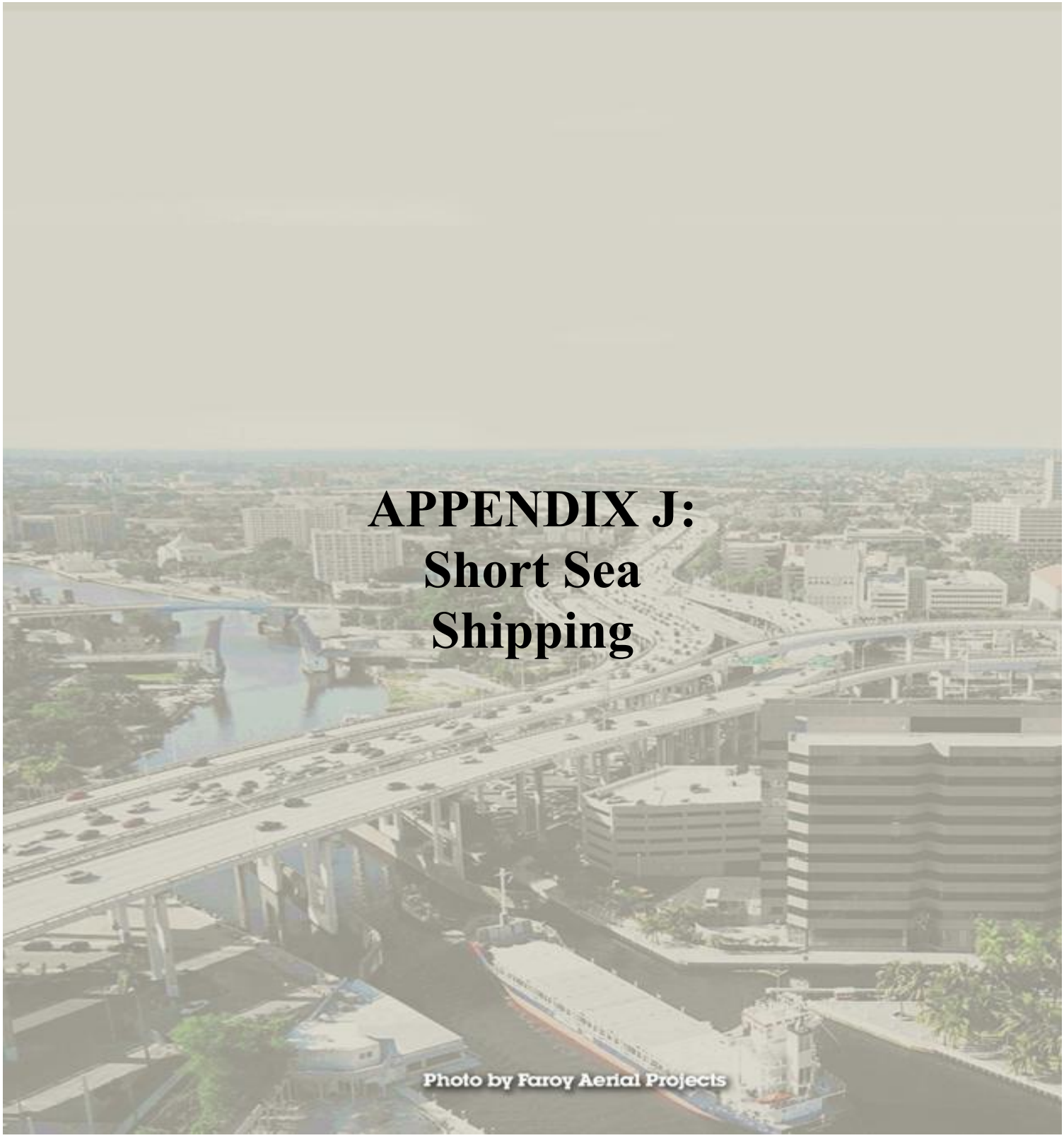
(b) The draws of the S.W. First Street Bridge, mile 0.9, up to and including the N.W. 27th Avenue Bridge, mile 3.7 at Miami, shall open on signal; except that, from 7:35 a.m. to 8:59 a.m. and 4:45 p.m. to 5:59 p.m., Monday through Friday, except Federal holidays, the draws need not open for the passage of vessels.

(c) The draws of the Miami Avenue Bridge, mile 0.3, and the S.W. Second Avenue Bridge, mile 0.5, at Miami, shall open on signal; except that, from 7:35 a.m. to 8:59 a.m., 12:05 p.m. to 12:59 p.m. and 4:35 p.m. to 5:59 p.m., Monday through Friday, except Federal holidays, the draws need not open for the passage of vessels.

(d) The draw of the Brickell Avenue Bridge, mile 0.1, at Miami, shall open on signal; except that, from 7 a.m. to 7 p.m., Monday through Friday except Federal holidays, the draw need open only on the hour and half-hour. From 7:35 a.m. to 8:59 a.m., 12:05 p.m. to 12:59 p.m. and 4:35 p.m. to 5:59 p.m., Monday through Friday except Federal holidays, the draw need not open for the passage of vessels.

[CGD07-03-118, 69 FR 7688, Feb. 19, 2004]

APPENDIX J:
Short Sea Shipping



Short Sea Shipping developed by Miami River Marine Group in part with P&L Towing , is a nationally recognized initiative that promotes the use of our nation's waterways. Barges with cargo containers may be towed between the Port of Miami and facilities on in the marine industrial "upper" Port of Miami River. The facilities on the Miami River utilized for this operation would serve as distribution centers where containers could be picked up and trucked to their final destination; these same facilities could also be used for rail services.

It is estimated that short sea shipping may be put in service on the Miami River in 60 - 90 days. It is further estimated that within a short time (1 to 2 weeks) after initial start up, at least 200 containers a day may be transported from the Port of Miami to the Miami River. After the facilities and barges are up and running, we could begin using the same system to transport containers to the Port of Miami from the Miami River for export. This would result in at least 400 containers being moved off and on the Port of Miami per day, without using the streets in downtown Miami.

The amount of containers moved off and on the Port of Miami will increase even beyond the figures previously mentioned as the recommended potential short sea shipping operation becomes more streamlined. If the need exists, the service may expand to 1,200 containers per day, resulting in 1,200 less trucks every day, which would result in a significant reduction of 1,200 trucks on downtown streets every day. Barge traffic on the Miami River will be primarily during off peak vehicular traffic hours.

Short Sea Shipping would require that the containers being transported would have already been cleared by the officials (Customs, Coast Guard and Immigration) and scheduled for pick-up by truck or rail no more than 48 hours after leaving the Port of Miami. These requirements are necessary to keep the facilities working efficiently. Customs searching the containers at the Miami River shipping facilities would cause unwanted delays to operations. Furthermore, storing or holding containers in the relatively small Miami River terminals would not be desired. This general short sea shipping concept is based on careful coordination and input from all aspects of the Port of Miami River, including but not limited to P&L Towing, Miami River Marine Group, etc. an undertaking they are familiar with and practice every day.

This recommended service would also assist the truckers who use it by reducing the time and fuel wasted while stuck in downtown traffic. Congestion delays have generated many problems for truckers, the primary one being the fact that by spending hours on the Port and in downtown traffic, truckers reduce the amount of containers that they can move in one day. Most truckers are owner/operator and/or small businesses, and depend on the ability to move containers the most efficient way possible. In the past there have been trucker strikes and protests, which have caused the shipping community many problems and delays.

Benefits to the downtown area

- Less trucks traveling through the downtown to and from the Port creating traffic jams.
- Improved safety for vehicle and pedestrian traffic in the downtown corridor.
- Less vehicular generated air pollution in the downtown corridor.
- Improved quality of life for downtown residents by reducing noise and unsightly trucks in the downtown corridor.

Benefits to the Port of Miami

- Fewer security risks by removing trucks that have to be searched by port security.
- Reduced security costs by removing trucks that have to be searched from the Port.
- Improved efficiency for shippers on the port by allowing containers to be moved Quicker.
- Ability to grow with the expectations of the shipping industry.

Benefits to the Miami River Corridor and local residents.

- A minimum of eight or nine jobs per eight hour shift will be generated per landside facility, totaling 24 to 27 jobs per facility.
- Start up would include 1 facility for inbound (import) containers and if a need exists for outbound (export) containers, an outbound (export) facility.
- Waterborne jobs would total at least 14, depending on total amount of containers utilizing our service.
- Land-based annual income for employees would range from $22,000.00 to $45,000.00.
- Water-based annual income for employees would range from $25,000.00 to $65,000.00.
- Local businesses would also have positive impacts by bringing additional workers into the Miami River Corridor. The type of businesses impacted range from small restaurants to large industrial suppliers, including mechanics, stores, uniform companies, and so on.
- Increase the local tax base without displacing the blue-collar workforce.
- Will utilize off peak hours for operations"

Kimley-Horn
and Associates, Inc.

Photo by Faroy Aerial Projects