over

389 Parking Spaces provided as required by Zoning District #4. Issued in accordance with Par.1.02.02.07 Bldg. Code as foundation permit with plans for superstructure forthcoming. Permit does not include bulkhead, groynes, pool.

**Owner** MARLBOROUGH HOUSE (Cosmopolitan Corp.) **Permit No.** 64098 **Cost** $1,300,000.00

OK BLDG. Saperstein 10/15/62

**Lot** 10-12 **Block** 1 **Subdivision** SECOND OCEAN FRONT **Address** 5775 Collins Avenue

**General Contractor** ~~Herman Geller Construction Co.~~ transferred to Cal Koven Const. Co. - 5/4/61 **Bond No.** 6776 3211-16.000

21002

**Architect** Giller, Payne & Waxman **Engineer** D. L. Briegel (Chas. Giller & Assoc.)

**Zoning Regulations:** **Use** REA **Area** 70 **Lot Size** 225' x 278' apprx.

**Building Size:** **Front** 73' **Depth** 152'8" **Height** 111' **Stories** 12

**Certificate of Occupancy No.** Temporary C.O. #3862 dated 2/28/62 Temporary C.O. #3868 dated 4/3/62 FINAL C.O. #3911 dated November 8, 1962 **Use** APT. BLDG.: 22 2-bdrm,2 bath; 103 1-bdrm, 1 bath apts. - Total 125 units.

**Type of Construction** CBS I **Foundation** Piling **Roof** Flat **Date** JAN. 20, 1961

Engr. Let. 11/6/62 filed Marlb. folder file

**PLUMBING Contractor** Cole Plbg. - Murray's Plumbing, #42987 **Sewer Connection** 1-3" - 1 (8") (#42780, 1/27/61) **Date** July 31, 1961

#7318 thru 20

**Temporary Water Closet**

| | | | |
|---|---|---|---|
| Water Closets | 176 | Swimming Pool Traps | 1 - #43178, McCann Plbg. 12/4/61 ... OK Rothman 6/1/62 |
| Lavatories | 1 163 | Steam or Hot Water Boilers | Down Spouts |
| Bath Tubs | 111 | | Wells |
| Showers | 52 | | |
| Urinals | 2 | | |
| Sinks | 113 Slop Sinks - 13 | | |
| Dish Washing Machine | 24 | | |
| Laundry Trays | | | |
| Laundry Washing Machines | Elec. | | |
| Drinking Fountains | | | |
| Floor Drains | 50 | | |
| Grease Traps | | | |
| Safe Wastes | | | |

ROUGH APPROVAL

FINAL APPROVAL OK ROTHMAN 5/28/62

**GAS Contractor** **Date**

| | |
|---|---|
| Gas Ranges | Gas Frylators |
| ~~Gas~~ Water Heaters 111 | Gas Pressing Machine |
| Gas Space Heaters | Gas Vents for Stove |
| Gas Refrigerators | |
| Gas Steam Tables | |
| Gas Broilers | |

GAS Rough APPROVAL

GAS FINAL APPROVAL

**AIR CONDITIONING Contractor** #65784 Miami Air Cond. Co. - Install a 309 ton built up system air cond. unit - $92,700. - 9/5/61 OK PLAAG 4/23/62

**SEPTIC TANK Contractor**

**OIL BURNER Contractor**

**SPRINKLER Contractor**

OK Survey TJF

**ELECTRICAL Contractor** #57081 Kammer & Wood, Inc. **Date** July 26, 1961

| | | | | |
|---|---|---|---|---|
| OUTLETS | Switches 1350 | Ranges 110 | Temporary Service | 1 Jones Elec. #56303 .. 1/26/61 OK 1/30/61 Fidler |
| | Lights 1926 | Irons 111 | Neon Transformers | 1 Jones Elec. #56943 .. 6/30/61 OK 7/6/61 Fidler |
| | Receptacles 2215 | Refrigerators 111 | Sign Outlets | |
| | | Fans | Meter Change | |
| | | Motors | Centers of Distributions | 132 |
| HEATERS | Water 110 | Appliances | Service | 1 |
| | Space | | Violations | |
| FIXTURES | 1926 | Electrical Contractor | Date | |

FINAL APPROVAL By Scarborough Date 6/5/62

**Building Permits:**

11256-Sego Industries-Replace old ~~xxxxx~~x4 windows-$315-~~4~~ 5-3-77

#13890-SeGo Indstures-Secuity Windows-Remove 4 windows and replace with 4 alum. single hung windows0-$300-9-20-78

M04383-McConnell A/C, Inc.- 1 cooling tower rpplacement-5-4-79

#21244 11/20/81 Se-Go Ind. - furnish and install 5 single hung windows $750.

#23370 2/1/83 Se-go Ind/Security Wind - install 2 awning type windows $250.

#25066 2/22/84 Se-go Ind - install 6 double hung and 6 single hung windows $1,986.

#26455 1/25/85 Gothelf Seymour remove and rplace 10 windows in exist openings, no structural change $1,635.

#MO7335 5/29/85 Southern Atlantic Serv - 1-2 ton air cond central, replace exist

#MO7431 7/1/85 Southern Atlantic Serv - 1-34,000 air cond central, replace exist

#27281 8/12/85 Group III Gen Cont - new kitchen cabinets, vanities, retile bathrooms, new bathroom fixtures apt 501 $10,000.

#27834 12/30/85 Paul Chavez exterior pressure cleaning and painted $22,000

#91706 1/21/86 Serse Taieb repair to balcony railings under engineers supervision $54,000.

#27913 1/22/86 Abraham Levine Roof - repair roofing $5,000.

#MO8586 11/13/86 Acme Chute Co - chute repair door

#MO8720 1/26/87 Southern Atlantic 1-2½ ton air cond central

#MO8722 1/26/87 Southern Atlantic 1-3½ ton air cond central

**Plumbing Permits:** #62251 9/12/85 Del Amo Plumbing Inc - 1 rgh, 1 set dishwasher, 2 set lavatory, 1 rgh, 1 set shower, 1 set sink slop, 2 set urinal, 1 rgh, 1 set ice maker

#52189-South End Plumbing- 1 dishwasher-3-5-75
#52501-Brooks American Sprinkler- lawn sprinkler system-5-19-75
#55331-Greens Pool Service- 1 filter replace pool-10-11-77

# 57344-Phil Palm Plumbing-$500 material and labor, 1 water service-6-12-79
#57623- A.C. Hill Plumbing- ; Soakage Pit and piping. 8-30-79

7/29/80 #58711 Al Hill Plumbing ice maker
3-16-81/#59342/replace section of pipe/S&R Plumbing Inc/$25
#59355--S & R Plumbing--Pipeline Riser--3/19/81

**Electrical Permits:** #56341 Jones Elec. - MODEL APT. 1 Temp. Service: 11 switch outlets, 19 receptacles, 9 light outlets, 1 sign outlet, 1 motor (1HP) - 2/9/61 OK Newbold 3/9/61
#57685 Otis Elevator: 2 motors, 0-1 hp; 2 motors, 11-25 hp - 12/1/61 (Bldg. Permit #66468)
#57981 Kammer & Wood: 1 television antenna - 3/8/62

#75560-Breig Electric- 1 motors,over 8-10HP-6-20-79

#79421 5/23/84 Leonard Elect - 11 light outlets, 11 fixtures, 1 pool lites

BUILDING PERMITS: #M8801338 - Southern Atlantic - 1-2ton A/C change out existing unit- 8-19-88-#1008
#M8800104 - Alltemp, Inc. - 3ton A/C central - 10-26-88 - Apt#601
#M8900309 - Southern Atlantic - A/C change out exact condensing unit - 1-12-89 #406
#BM890877 - Southern Atlantic - 1-3ton a/c change out condensing unit - 6-29-89-#806
#BM891185 - Southern Atlantic - 1-21/2ton a/c central - 9-8-89 - #207

PLUMBING PERMITS: #P8900320 - Ceballos Inc. - Kitchen sink (Apt. 1206) - 1-23-89

## Building Permits:

ON MAY 17, 1961, COUNCIL GRANTED PERMIT FOR CONSTRUCTION OF BULKHEAD SUBJECT TO PROVISION THAT BULKHEAD NOT BE PLACED EASTERLY OF THE MEAN HIGH WATER LINE OF THE ATLANTIC OCEAN AS IT MAY EXIST AS OF THE TIME CONSTRUCTION BEGINS, NOR EASTERLY OF THE ESTABLISHED HARBOR LINE, AND SUBJECT TO COMPLIANCE WITH ALL GOVERNING REGULATIONS.

#64946 Atlantic Foundation: Construction of 225' approx. of bulkhead located west of high water mark line and return wall. Approved as to location by Engr.Dept. 5/23/61 in a.m.; approved by City Council on May 17, 1961 subject to above. - $30,000. - May 23, 1961 Compl. Saperstein 4/18/62

#66215 Edwin M. Green, Inc.: 30' x 50' concrete pool - approved by Dade Co. Health Dept. Serial #SP 1-310 10/25/61 - $15,000. - 10/25/61 OK Saperstein 4/13/64

#66468 Otis Elevator: Installation of 2 passenger elevators--2500 lb. cap. 250 FPM - Fla. Ind. Commission #2592, 2593 - $60,000. - 12/1/61

#66744 Atlantic Foundation Co., Inc.: 100' groin steel sheet piles - $9,000. - 1/26/62 OK Saperstein 10/15/62

#71402 Metro Sandblasting: Sandblast guard rails, parking area - $500. - 4/16/64

#71408 Basker Bldg. Corp.: Minor repairs, painting, paperhanging - $5,000. - 4/16/64

#71859 Palmer Roofing Co.: Reroof - 950 sq. ft. - $482. - 6/22/64

#73433 Provident Home Impr. Co.: 9' x 13' alum. framed glass enclosure for balcony; glass as per So. Bldg.Code - $950,1/21/65 Apt501 See letter in Marlborough House folder

#73622 Provident Home Impr. (for Mavrogenis Apt.601): 9' x 13' alum. framed glass encl. for balcony; glass as per So. Fla. Bldg. Code - $950 - 2/25/65

#73662 Yale Ogron: Enclose balcony Apt. 401 - $1,000 - 3/4/65 (See sketch filed in Marlborough House folder) OK Beck 3/26/65

#73734 Provident Home Improvement Co.: Enclose balcony Apt. 1101 - $950 - 3/22/65 OK Beck 5/6/65

#73845 Yale Ogron: Enclose balcony apt. 1001 - sketch and letter in Marlborough House folder) - $1,000 - 4/8/65 OK Beck 5/6/65

#78194 Porterfield Industries: Replace eight windows - $800 - 5/2/67

#78746 Owner, Marlborough House: Retaining walls at drive - $200 - 8/14/67 1/31/ CP (HW)

#80970 Goddard Painting Co. Clean, Caulk and paint Exterior only must comply with ord. #1060 9/4/68

#00549 - Richard Waterproofing Inc. - Window Caulking - $1200.00 2/9/72

#12872-Se Go Industries-apt.1008-Replace existing terrace with 6 alum. single hung windows and 6 fixed glasses- $900-3-14-78

#12871-apt. 1001-Se Go Industries-Remove 9 picture windows and replace with 9 alum. single hung windows-$700-3-14-78

#13155-Asher Waterproofing-Painting-$22000-5-8-78

#Se-Go Ind. - replacing jalousie windows with awning type windows $240. 2/14/80

#21314 12/7/81 Se-Go Ind. Security Windows install 2 single hung windows $330.

#91173 1/18/84 Serge Taieb - construction fence wall 850' lf, replace deck, construct 1 shower, parking bumpers only $120,000.

#25029 2/15/84 Se-go Ind/Security Windows - install 2 awning type windows $273.

## Plumbing Permits:

**Electrical Permits:**

#70722-Miami Fire Alarm Equip- Fire alarm syste; 54 outlets-8-6-73

**Traf Tech**
ENGINEERING, INC.

April 5, 2017

Mr. Cassiano Lopes de Goulart Almeida
Manager – Miami Beach Associates, LLC
1450 Brickell Avenue, Suite 1560
Miami, Florida 33131

**Re: 5775 Collins Avenue – Traffic Study**

Dear Mr. Lopes de Goulart Almeida:

Traf Tech Engineering, Inc. is pleased to provide you with the results of the traffic study conducted for the proposed re-development of the existing residential development located at 5775 Collins Avenue in the City of Miami Beach in Miami-Dade County, Florida. Figure 1 depicts the location of the project site and the nearby transportation network. The existing residential development will be replaced with a less-intense residential building consisting of 83 high-rise residential units. Since the existing residential development currently has 10 residential units currently occupied, the new project impacts associated with 73 high-rise units will be assessed herein. It is important to note that the current residential development is more intense (more residential units) than the proposed building and the current building can be fully occupied without the need for a traffic study. However, as discussed with the City of Miami Beach, the future traffic impacts with the 73 high-rise units are documented herein.

This following section addresses the existing roadway system located in the vicinity of the project site, nearby U-turn locations, traffic counts, trip generation and trip distribution.

**Existing Roadway Conditions**

The roadway system located near the project site includes Collins Avenue. Collins Avenue is a six-lane divided arterial roadway with a one-lane frontage road on the east side of the roadway. The driveway to the future high-rise development will remain unchanged (right-turns only).

**Nearby U-Turn Locations**

For ingress and egress purposes, U-turns are expected at the signalized U-turn location at the 5800 block (north of the project site) and at a directional median opening located south of the 5775 Collins project.

Figure 2 shows the existing lane geometry of the two U-turn locations.

**Traffic Counts**

Traf Tech Engineering, Inc., in association with Video Data Solutions, Inc., collected traffic data at the two U-turn locations. These traffic counts were collected for information purposes.

The intersection turning movement counts were collected on Friday, March 10, 2017 during the PM peak period (4:00 PM to 7:00 PM). As indicated in the traffic counts, the amount of U-turn currently occurring at the two U-turn locations is minimal (less than one vehicle per minute). The existing PM peak hour traffic counts are contained in Appendix B.

**Trip Generation Estimation**

The trip generation for the project was based on information contained in the Institute of Transportation Engineer's (ITE) *Trip Generation Manual (9th Edition)*. According to the subject ITE manual, the most appropriate "land use" category for the proposed land use is: Land Use 232 – High Rise Residential Condominium/Townhouse. Table 1 below summarizes the external trips associated with the proposed 5775 Collins residential development.

**TABLE 1**
**Trip Generation Summary**
**5775 Collins**

| Land Use | Size[1] | Daily Trips | PM Peak Hour | | |
|---|---|---|---|---|---|
| | | | Ins | Out | Total |
| High-Rise | 73 | 305 | 17 | 11 | 28 |

*SOURCE: ITE Trip Generation Manual (9th Edition)*

As indicated in Table 1, the proposed development is anticipated to generate approximately 305 new daily trips and approximately 28 new trips (17 inbound and 11 outbound) during the typical PM peak hour. Hence, the new trips generated by the 5775 Collins development are considered insignificant from a traffic engineering standpoint (one new peak hour trip every two minutes).

*ITE Land Use 232 – High Rise Residential Condominium/Townhouses*

Weekday Trip Generation
T = 4.18 (X)
Where T = number of weekday trips and
X = number of units

[1] 83 New Units minus 10 existing units currently occupied

Weekday PM Peak Hour of Adjacent Street
T = 0.38 (X) (62% inbound and 38% outbound)
Where T = number of weekday PM peak hour trips and
X = number of units

**Trip Distribution and Traffic Circulation**

The trip distribution and traffic assignment for the project were based on Miami-Dade County's Cardinal Distribution information for the study area. Table 2 summarizes the County's cardinal distribution data for Traffic Analysis Zone 527, which is applicable to the project site from the latest SERPM data published by Miami-Dade County.

**TABLE 2**
**Project Trip Distribution**
**5775 Collins**

| Direction | | % of Total Trips |
|---|---|---|
| North: | Northwest | 14.0 |
| | Northeast | 13.7 |
| South: | Southwest | 13.3 |
| | Southeast | 9.8 |
| East: | Northeast | 7.0 |
| | Southeast | 3.7 |
| West: | Northwest | 18.1 |
| | Southwest | 20.5 |
| | **Total** | 100.00% |

*Source: Miami-Dade County (2040 SERPM)*

Based on the above, the following traffic assignment was assumed for the proposed restaurant development:

- 55% to/from the north via Collins Avenue
- 45% to/from the south via Collins Avenue

The new peak hour traffic generated by the project was assigned to the nearby transportation network using the traffic assignment documented above. The new project traffic assignment is summarized in Figure 3. As depicted in Figure 3, the projected U-turns at the north and south median openings are minimal (less than one new vehicle trip every six minutes).

The traffic circulation within the site consists of the following:

- All inbound vehicles will enter via the south driveway from the Collins Avenue frontage road and drop-off at the porte-cochere area near the center of the site. The south driveway is restricted to right-turns-in only. Vehicles will be parked by entering via the north ramp that leads to the underground parking garage.

Vehicles are retrieved from the underground parking garage and returned to the porte-cochere via the south ramp. From the porte-cochere all exiting vehicles exit onto the Collins Avenue frontage road via the north driveway which is restricted to right-turns-out only.

**Pedestrian Circulation**

A 9-foot four-inch sidewalk is located in front of the 5775 Collins Avenue site (east side of Collins Avenue/frontage road). The wide-sidewalk provides north-south pedestrian mobility within the immediate area of the project. From the sidewalk, access to the subject residential development is provided via a pedestrian access path/stairs located between the sidewalk and the porte-cochere. Moreover, a signalized pedestrian crossing is provided at the 5800 block approximately 625 feet north of the site.

**Pedestrian Facilities Analysis (Sidewalks and Crosswalks)**

Based on the traffic counts contained in Appendix B, approximately 22 pedestrians used the signalized pedestrian crosswalk located at the 5800-block during the peak pedestrian hour. As shown in the signal timing plans contained in Appendix C for the signalized located at the 5800 block (timing plan refers to the location as the 5875 block, but the street sign indicates 5800 block), the subject pedestrian crossing operates with a signal cycle of 140 seconds, which results in approximately 25 pedestrian crossing opportunities per hour. Hence, the signalized pedestrian crossing at the 5800 block has 25 opportunities per hour to accommodate 22 pedestrians per hour (sufficient pedestrian capacity is available at the subject signalized pedestrian crossing).

The traffic counts contained in Appendix B show a maximum of 27 pedestrians during the peak 15-minute period using the sidewalk located on the east side of Collins Avenue/frontage road (west of the site, refer to ped column on westbound approach at Collins Ave at 5701 Block). With a sidewalk width of 9.33 feet (9 feet, 4 inches), the resulting pedestrian flow rate is approximately 0.193 pedestrians/minute/foot of sidewalk width (27 pedestrians per peak 15-minute period divided by 15 divided by 9.33). According the 2010 Highway Capacity Manual (refer to Appendix D), the resulting level of service of the sidewalk adjacent to the site is “A”.

**Summary**

The proposed 5775 residential development is anticipated to generate approximately 305 new daily trips and approximately 28 new trips (17 inbound and 11 outbound) during the typical PM peak hour. Hence, the new trips generated by the 5775 Collins development are considered insignificant from a traffic engineering standpoint (one new peak hour trip every two minutes). The projected U-turns at the north and south median openings are minimal (less than one new vehicle trip every six minutes).

Adequate traffic and pedestrian circulation is provided for the 5775 Collins re-development project. Sufficient pedestrian capacity is available at the signalized pedestrian crossing located at the 5800 block (within walking distance from the site). Finally, the sidewalk located adjacent to the site is currently operating at level of service "A".

It has been a pleasure working with you on this project.

Sincerely,

**TRAF TECH ENGINEERING, INC.**

Joaquin E. Vargas, P.E.
Senior Transportation Engineer

JOAQUIN E. VARGAS LICENSE No 44174 STATE OF FLORIDA PROFESSIONAL ENGINEER

April 5, 2017


Traf Tech
ENGINEERING, INC.

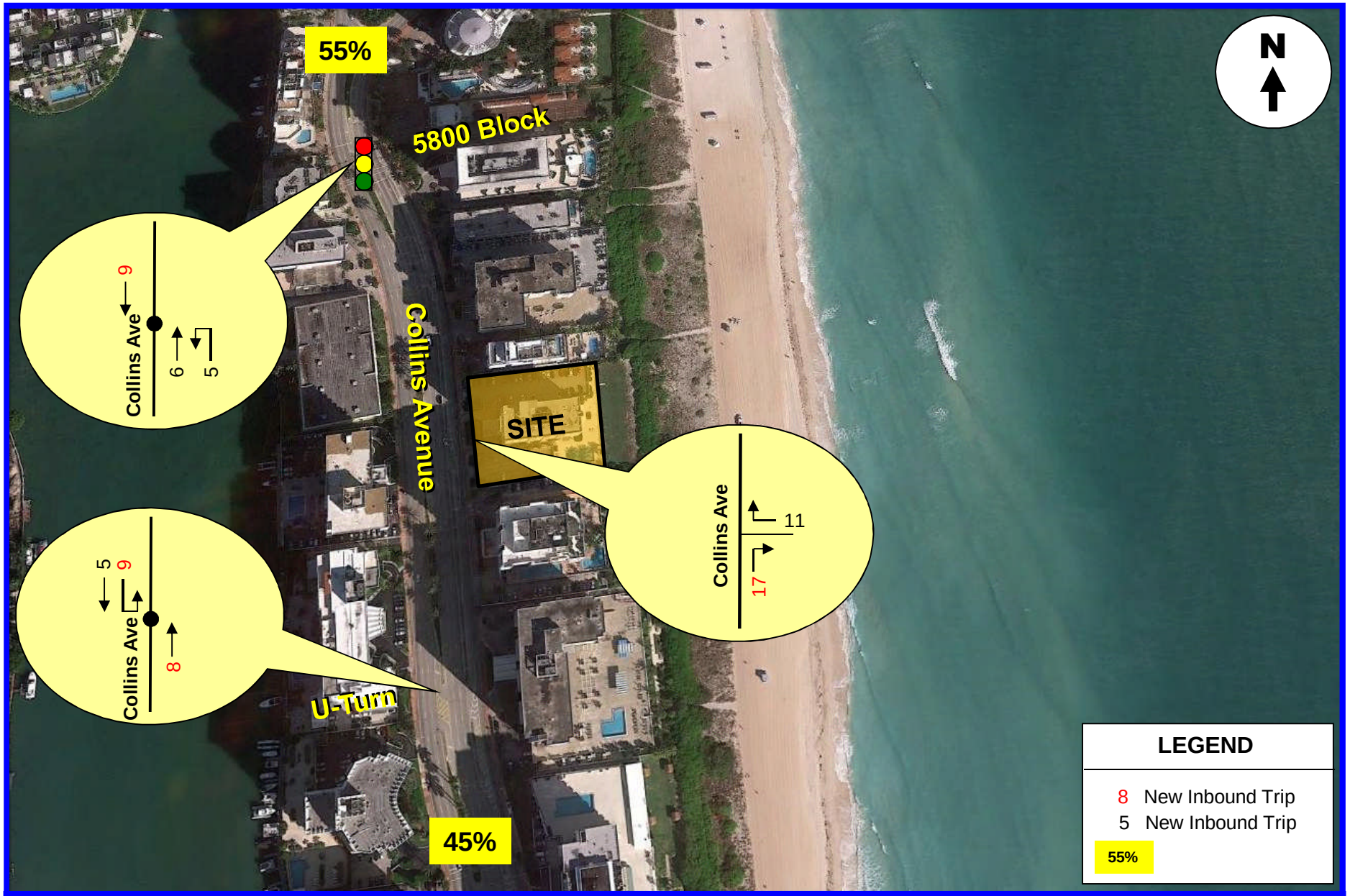
**PROJECT LOCATION MAP**

**FIGURE 1**
5775 Collins
Miami Beach, Florida


Traf Tech
ENGINEERING, INC.

**EXISTING LANE GEOMETRY**

**FIGURE 2**
5775 Collins
Miami Beach, Florida



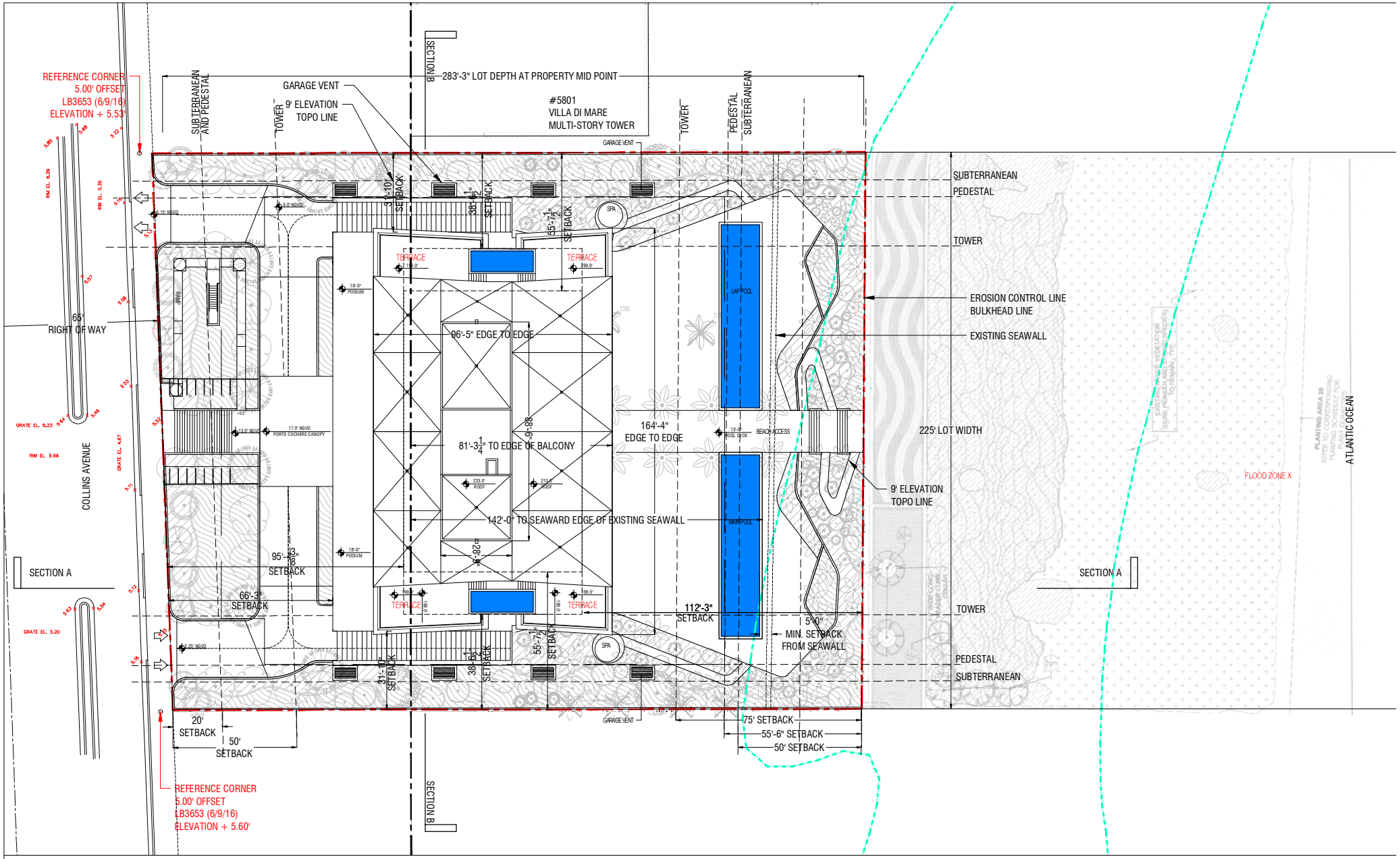

Traf Tech
ENGINEERING, INC.

**NEW PROJECT TRIPS**
**PM Peak Hour**

**FIGURE 3**
5775 Collins
Miami Beach, Florida

# APPENDIX A

## Site Plan – 5775 Collins




**ARQUITECTONICA**
2900 Oak Avenue, Miami, FL 33133
T 305.372.1812 F 305.372.1175



# 5775 COLLINS AVE

MIAMI BEACH, FL 33140

**SITEPLAN**

SCALE: 1/16"= 1'-0"

0 5 20

Date

*03.20.2017*

Sheet no.

# APPENDIX B

## Traffic Counts

# Video Data Solutions, Inc.

A Traffic Data Collection Company
O.(305)253-1553 F.(305)235-7703

CLIENT : TRAF TECH Engineering
JOB NO : 2017-26
PROJECT: Collins Ave
COUNTY : Miami-Dade

File Name : 1- Collins Ave at 5800 Block
Site Code : 00000000
Start Date : 3/10/2017
Page No : 1

Groups Printed- Auto - Heavy Vehicles

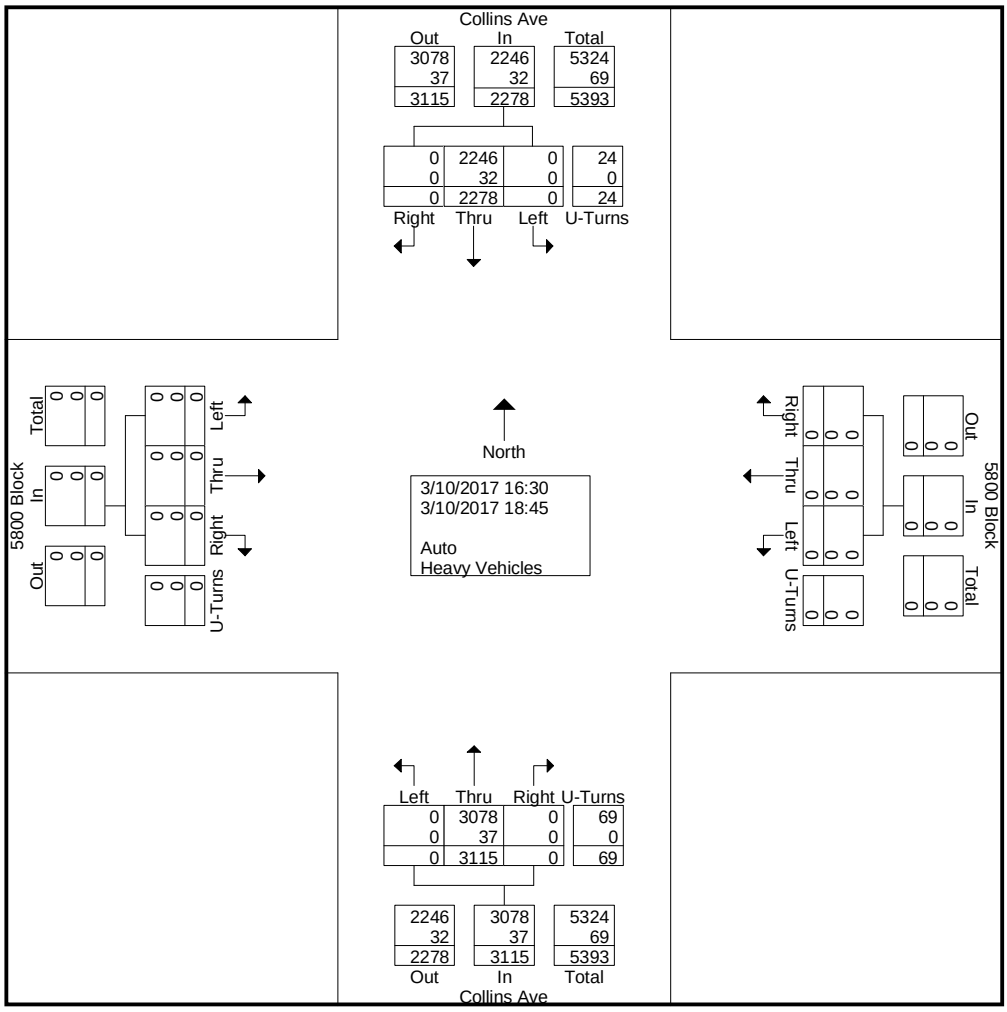
| | Collins Ave Southbound | | | | | 5800 Block Westbound | | | | | Collins Ave Northbound | | | | | 5800 Block Eastbound | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Right | Thru | Left | U-Turns | App. Total | Right | Thru | Left | U-Turns | App. Total | Right | Thru | Left | U-Turns | App. Total | Right | Thru | Left | U-Turns | App. Total | Int. Total |
| 16:30 | 0 | 230 | 0 | 1 | 231 | 0 | 0 | 0 | 0 | 0 | 0 | 279 | 0 | 15 | 294 | 0 | 0 | 0 | 0 | 0 | 525 |
| 16:45 | 0 | 235 | 0 | 3 | 238 | 0 | 0 | 0 | 0 | 0 | 0 | 295 | 0 | 9 | 304 | 0 | 0 | 0 | 0 | 0 | 542 |
| Total | 0 | 465 | 0 | 4 | 469 | 0 | 0 | 0 | 0 | 0 | 0 | 574 | 0 | 24 | 598 | 0 | 0 | 0 | 0 | 0 | 1067 |
| 17:00 | 0 | 234 | 0 | 6 | 240 | 0 | 0 | 0 | 0 | 0 | 0 | 300 | 0 | 7 | 307 | 0 | 0 | 0 | 0 | 0 | 547 |
| 17:15 | 0 | 246 | 0 | 3 | 249 | 0 | 0 | 0 | 0 | 0 | 0 | 325 | 0 | 8 | 333 | 0 | 0 | 0 | 0 | 0 | 582 |
| 17:30 | 0 | 255 | 0 | 4 | 259 | 0 | 0 | 0 | 0 | 0 | 0 | 339 | 0 | 6 | 345 | 0 | 0 | 0 | 0 | 0 | 604 |
| 17:45 | 0 | 242 | 0 | 2 | 244 | 0 | 0 | 0 | 0 | 0 | 0 | 340 | 0 | 9 | 349 | 0 | 0 | 0 | 0 | 0 | 593 |
| Total | 0 | 977 | 0 | 15 | 992 | 0 | 0 | 0 | 0 | 0 | 0 | 1304 | 0 | 30 | 1334 | 0 | 0 | 0 | 0 | 0 | 2326 |
| 18:00 | 0 | 215 | 0 | 2 | 217 | 0 | 0 | 0 | 0 | 0 | 0 | 329 | 0 | 8 | 337 | 0 | 0 | 0 | 0 | 0 | 554 |
| 18:15 | 0 | 221 | 0 | 3 | 224 | 0 | 0 | 0 | 0 | 0 | 0 | 314 | 0 | 7 | 321 | 0 | 0 | 0 | 0 | 0 | 545 |
| 18:30 | 0 | 205 | 0 | 0 | 205 | 0 | 0 | 0 | 0 | 0 | 0 | 305 | 0 | 0 | 305 | 0 | 0 | 0 | 0 | 0 | 510 |
| 18:45 | 0 | 195 | 0 | 0 | 195 | 0 | 0 | 0 | 0 | 0 | 0 | 289 | 0 | 0 | 289 | 0 | 0 | 0 | 0 | 0 | 484 |
| Total | 0 | 836 | 0 | 5 | 841 | 0 | 0 | 0 | 0 | 0 | 0 | 1237 | 0 | 15 | 1252 | 0 | 0 | 0 | 0 | 0 | 2093 |
| Grand Total | 0 | 2278 | | | | | | | | | | 3115 | 0 | 69 | 3184 | 0 | 0 | 0 | 0 | 0 | 5486 |
| Apprch % | 0 | 99 | 0 | 1 | | 0 | 0 | 0 | 0 | | 0 | 97.8 | 0 | 2.2 | | 0 | 0 | 0 | 0 | | |
| Total % | 0 | 41.5 | 0 | 0.4 | 42 | 0 | 0 | 0 | 0 | 0 | 0 | 56.8 | 0 | 1.3 | 58 | 0 | 0 | 0 | 0 | 0 | |
| Auto | 0 | 2246 | 0 | 24 | 2270 | 0 | 0 | 0 | 0 | 0 | 0 | 3078 | 0 | 69 | 3147 | 0 | 0 | 0 | 0 | 0 | 5417 |
| % Auto | 0 | 98.6 | 0 | 100 | 98.6 | 0 | 0 | 0 | 0 | 0 | 0 | 98.8 | 0 | 100 | 98.8 | 0 | 0 | 0 | 0 | 0 | 98.7 |
| Heavy Vehicles | | | | | | | | | | | | | | | | | | | | | |
| % Heavy Vehicles | 0 | 1.4 | 0 | 0 | 1.4 | 0 | 0 | 0 | 0 | 0 | 0 | 1.2 | 0 | 0 | 1.2 | 0 | 0 | 0 | 0 | 0 | 1.3 |

# Video Data Solutions, Inc.

A Traffic Data Collection Company
O.(305)253-1553 F.(305)235-7703

CLIENT : TRAF TECH Engineering
JOB NO : 2017-26
PROJECT: Collins Ave
COUNTY : Miami-Dade

File Name : 1- Collins Ave at 5800 Block
Site Code : 00000000
Start Date : 3/10/2017
Page No : 2



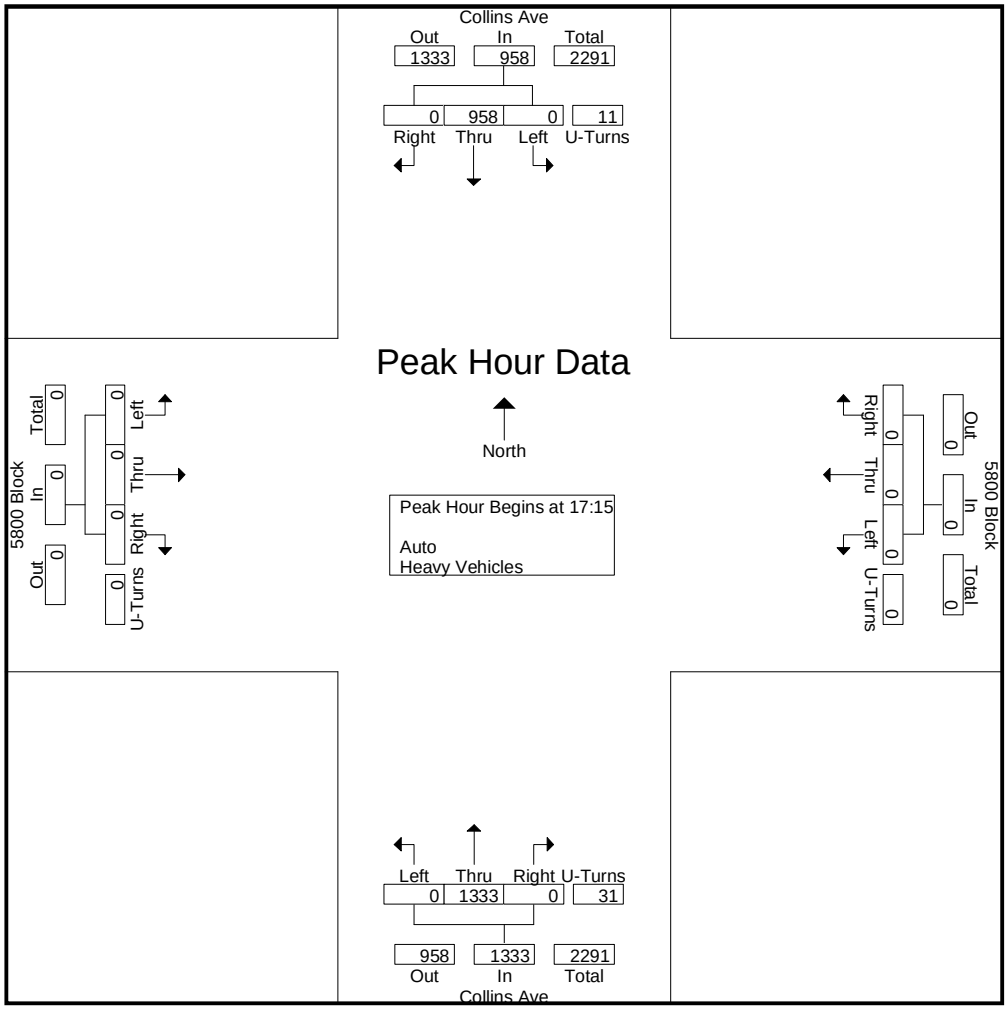
# Video Data Solutions, Inc.

A Traffic Data Collection Company
O.(305)253-1553 F.(305)235-7703

CLIENT : TRAF TECH Engineering
JOB NO : 2017-26
PROJECT: Collins Ave
COUNTY : Miami-Dade

File Name : 1- Collins Ave at 5800 Block
Site Code : 00000000
Start Date : 3/10/2017
Page No : 4

| | Collins Ave Southbound | | | | | 5800 Block Westbound | | | | | Collins Ave Northbound | | | | | 5800 Block Eastbound | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Right | Thru | Left | U-Turns | App. Total | Right | Thru | Left | U-Turns | App. Total | Right | Thru | Left | U-Turns | App. Total | Right | Thru | Left | U-Turns | App. Total | Int. Total |
| Peak Hour Analysis From 16:30 to 18:45 - Peak 1 of 1 | | | | | | | | | | | | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 17:15 | | | | | | | | | | | | | | | | | | | | | |
| 17:15 | 0 | 246 | 0 | 3 | 249 | 0 | 0 | 0 | 0 | 0 | 0 | 325 | 0 | 8 | 333 | 0 | 0 | 0 | 0 | 0 | 582 |
| 17:30 | 0 | 255 | 0 | 4 | 259 | 0 | 0 | 0 | 0 | 0 | 0 | 339 | 0 | 6 | 345 | 0 | 0 | 0 | 0 | 0 | 604 |
| 17:45 | 0 | 242 | 0 | 2 | 244 | 0 | 0 | 0 | 0 | 0 | 0 | 340 | 0 | 9 | 349 | 0 | 0 | 0 | 0 | 0 | 593 |
| 18:00 | 0 | 215 | 0 | 2 | 217 | 0 | 0 | 0 | 0 | 0 | 0 | 329 | 0 | 8 | 337 | 0 | 0 | 0 | 0 | 0 | 554 |
| Total Volume | 0 | 958 | 0 | 11 | 969 | 0 | 0 | 0 | 0 | 0 | 0 | 1333 | 0 | 31 | 1364 | 0 | 0 | 0 | 0 | 0 | 2333 |
| % App. Total | | | | | | | | | | | | | | | | | | | | | |
| PHF | .000 | .939 | .000 | .688 | .935 | .000 | .000 | .000 | .000 | .000 | .000 | .980 | .000 | .861 | .977 | .000 | .000 | .000 | .000 | .000 | .966 |



# Video Data Solutions, Inc.

A Traffic Data Collection Company
O.(305)253-1553 F.(305)235-7703

CLIENT : TRAF TECH Engineering
JOB NO : 2017-26
PROJECT: Collins Ave
COUNTY : Miami-Dade

File Name : 1- Collins Ave at 5800 Block
Site Code : 00000000
Start Date : 3/10/2017
Page No : 1

Groups Printed- Peds

| | Collins Ave Southbound | | | | 5800 Block Westbound | | | | Collins Ave Northbound | | | | 5800 Block Eastbound | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Right | Thru | Left | Peds | Right | Thru | Left | Peds | Right | Thru | Left | Peds | Right | Thru | Left | Peds | Int. Total |
| 16:30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 |
| 16:45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 3 |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 4 |
| 17:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 0 | 0 | 0 | 0 | 9 |
| 17:15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 5 |
| 17:30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 4 |
| 17:45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 4 |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 22 | 0 | 0 | 0 | 0 | 22 |
| 18:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 5 |
| 18:15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 5 |
| 18:30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 6 |
| 18:45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 2 |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 18 | 0 | 0 | 0 | 0 | 18 |
| Grand Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 44 | 0 | 0 | 0 | 0 | 44 |
| Apprch % | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 100 | 0 | 0 | 0 | 0 | |
| Total % | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 100 | 0 | 0 | 0 | 0 | |

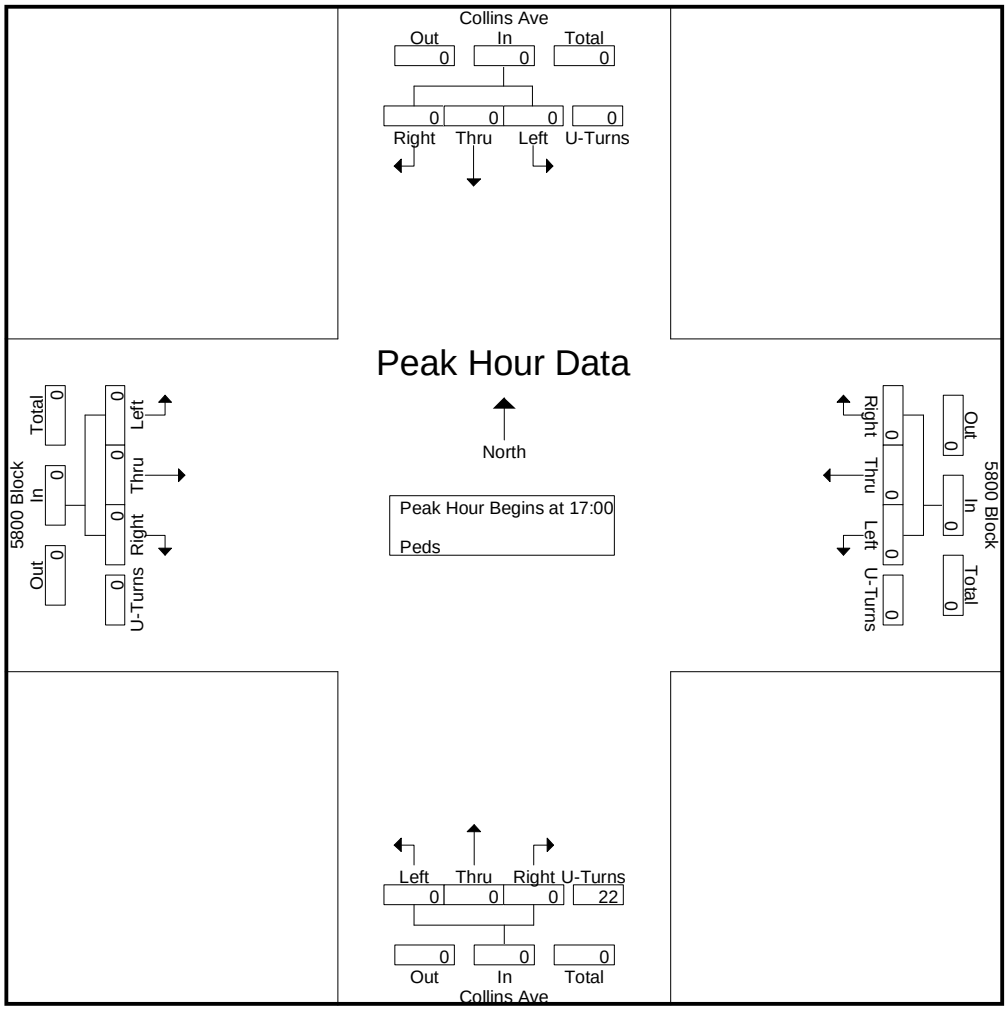
# Video Data Solutions, Inc.

A Traffic Data Collection Company
O.(305)253-1553 F.(305)235-7703

CLIENT : TRAF TECH Engineering
JOB NO : 2017-26
PROJECT: Collins Ave
COUNTY : Miami-Dade

File Name : 1- Collins Ave at 5800 Block
Site Code : 00000000
Start Date : 3/10/2017
Page No : 2

| | Collins Ave Southbound | | | | | 5800 Block Westbound | | | | | Collins Ave Northbound | | | | | 5800 Block Eastbound | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Int. Total |
| Peak Hour Analysis From 16:30 to 18:45 - Peak 1 of 1 | | | | | | | | | | | | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 17:00 | | | | | | | | | | | | | | | | | | | | | |
| 17:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 9 | 0 | 0 | 0 | 0 | 0 | 9 |
| 17:15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 5 | 0 | 0 | 0 | 0 | 0 | 5 |
| 17:30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 4 | 0 | 0 | 0 | 0 | 0 | 4 |
| 17:45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 4 | 0 | 0 | 0 | 0 | 0 | 4 |
| Total Volume | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 22 | 22 | 0 | 0 | 0 | 0 | 0 | 22 |
| % App. Total | 0 | 0 | 0 | 0 | | 0 | 0 | 0 | 0 | | 0 | 0 | 0 | 100 | | 0 | 0 | 0 | 0 | | |
| PHF | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .611 | .611 | .000 | .000 | .000 | .000 | .000 | .611 |



# Video Data Solutions, Inc.

A Traffic Data Collection Company
O.(305)253-1553 F.(305)235-7703

CLIENT : TRAF TECH Engineering
JOB NO : 2017-26
PROJECT: Collins Ave
COUNTY : Miami-Dade

File Name : 2- Collins Ave at 5701 Block
Site Code : 00000000
Start Date : 3/10/2017
Page No : 1

Groups Printed- Auto - Heavy Vehicles

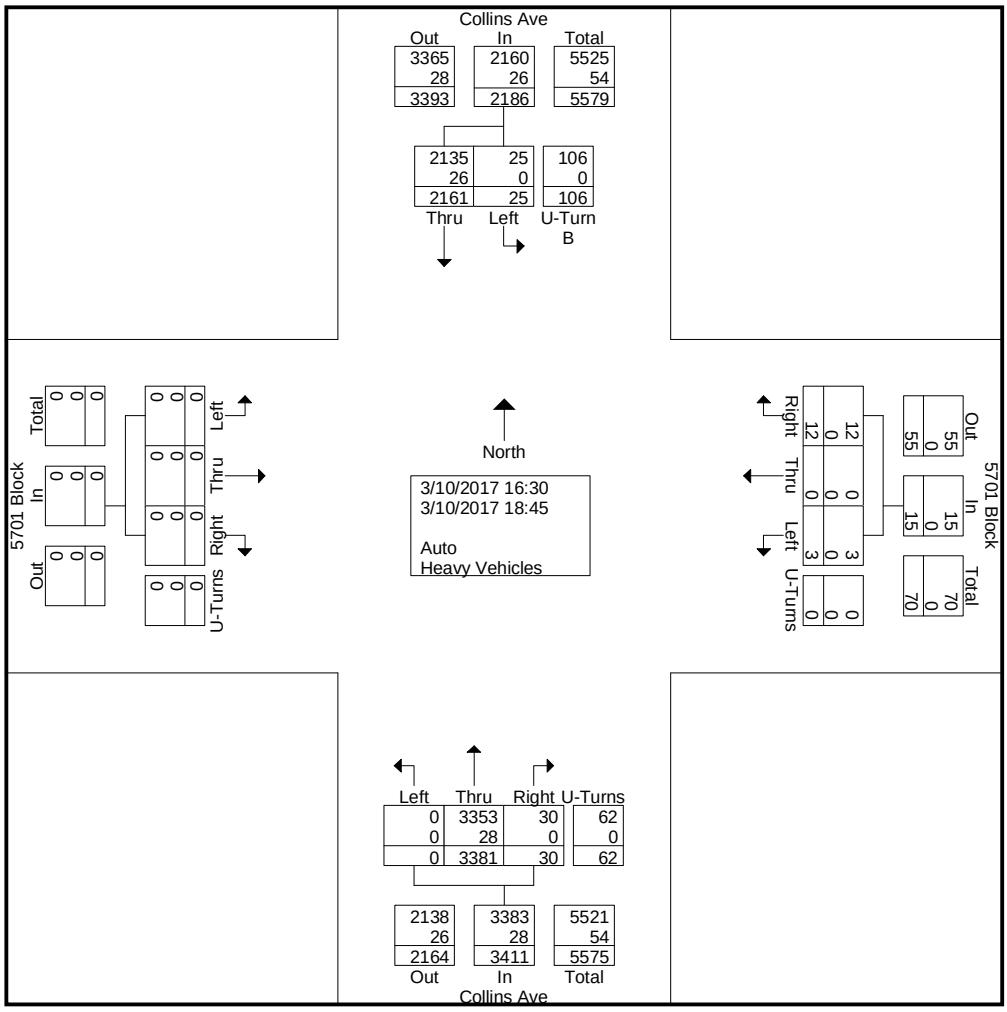
| | Collins Ave Southbound | | | | | 5701 Block Westbound | | | | | Collins Ave Northbound | | | | | 5701 Block Eastbound | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Thru | Left | U-Turn A | U-Turn B | App. Total | Right | Thru | Left | U-Turns | App. Total | Right | Thru | Left | U-Turns | App. Total | Right | Thru | Left | U-Turns | App. Total | Int. Total |
| 16:30 | 221 | 6 | 4 | 7 | 238 | 1 | 0 | 1 | 0 | 2 | 3 | 309 | 0 | 7 | 319 | 0 | 0 | 0 | 0 | 0 | 559 |
| 16:45 | 226 | 5 | 3 | 11 | 245 | 1 | 0 | 0 | 0 | 1 | 2 | 313 | 0 | 7 | 322 | 0 | 0 | 0 | 0 | 0 | 568 |
| Total | 447 | 11 | 7 | 18 | 483 | 2 | 0 | 1 | 0 | 3 | 5 | 622 | 0 | 14 | 641 | 0 | 0 | 0 | 0 | 0 | 1127 |
| 17:00 | 231 | 3 | 1 | 5 | 240 | 2 | 0 | 1 | 0 | 3 | 5 | 325 | 0 | 2 | 332 | 0 | 0 | 0 | 0 | 0 | 575 |
| 17:15 | 233 | 2 | 0 | 5 | 240 | 1 | 0 | 1 | 0 | 2 | 4 | 347 | 0 | 5 | 356 | 0 | 0 | 0 | 0 | 0 | 598 |
| 17:30 | 232 | 0 | 2 | 2 | 236 | 2 | 0 | 0 | 0 | 2 | 5 | 372 | 0 | 3 | 380 | 0 | 0 | 0 | 0 | 0 | 618 |
| 17:45 | 219 | 1 | 11 | 15 | 246 | 0 | 0 | 0 | 0 | 0 | 1 | 360 | 0 | 11 | 372 | 0 | 0 | 0 | 0 | 0 | 618 |
| Total | 915 | 6 | 14 | 27 | 962 | 5 | 0 | 2 | 0 | 7 | 15 | 1404 | 0 | 21 | 1440 | 0 | 0 | 0 | 0 | 0 | 2409 |
| 18:00 | 207 | 2 | 8 | 8 | 225 | 1 | 0 | 0 | 0 | 1 | 2 | 350 | 0 | 8 | 360 | 0 | 0 | 0 | 0 | 0 | 586 |
| 18:15 | 201 | 3 | 3 | 5 | 212 | 1 | 0 | 0 | 0 | 1 | 3 | 342 | 0 | 7 | 352 | 0 | 0 | 0 | 0 | 0 | 565 |
| 18:30 | 194 | 1 | 4 | 4 | 203 | 2 | 0 | 0 | 0 | 2 | 3 | 336 | 0 | 7 | 346 | 0 | 0 | 0 | 0 | 0 | 551 |
| 18:45 | 197 | 2 | 3 | 5 | 207 | 1 | 0 | 0 | 0 | 1 | 2 | 327 | 0 | 5 | 334 | 0 | 0 | 0 | 0 | 0 | 542 |
| Total | 799 | 8 | 18 | 22 | 847 | 5 | 0 | 0 | 0 | 5 | 10 | 1355 | 0 | 27 | 1392 | 0 | 0 | 0 | 0 | 0 | 2244 |
| Grand Total | 2161 | 25 | 39 | 67 | 2292 | 12 | 0 | 3 | 0 | 15 | 30 | 3381 | 0 | 62 | 3473 | 0 | 0 | 0 | 0 | 0 | 5780 |
| Apprch % | 94.3 | 1.1 | 1.7 | 2.9 | | 80 | 0 | 20 | 0 | | 0.9 | 97.4 | 0 | 1.8 | | 0 | 0 | 0 | 0 | | |
| Total % | 37.4 | 0.4 | 0.7 | 1.2 | 39.7 | 0.2 | 0 | 0.1 | 0 | 0.3 | 0.5 | 58.5 | 0 | 1.1 | 60.1 | 0 | 0 | 0 | 0 | 0 | |
| Auto | 2135 | 25 | 39 | 67 | 2266 | 12 | 0 | 3 | 0 | 15 | 30 | 3353 | 0 | 62 | 3445 | 0 | 0 | 0 | 0 | 0 | 5726 |
| % Auto | 98.8 | 100 | 100 | 100 | 98.9 | 100 | 0 | 100 | 0 | 100 | 100 | 99.2 | 0 | 100 | 99.2 | 0 | 0 | 0 | 0 | 0 | 99.1 |
| Heavy Vehicles | | | | | | | | | | | | | | | | | | | | | |
| % Heavy Vehicles | 1.2 | 0 | 0 | 0 | 1.1 | 0 | 0 | 0 | 0 | 0 | 0 | 0.8 | 0 | 0 | 0.8 | 0 | 0 | 0 | 0 | 0 | 0.9 |

# Video Data Solutions, Inc.

A Traffic Data Collection Company
O.(305)253-1553 F.(305)235-7703

CLIENT : TRAF TECH Engineering
JOB NO : 2017-26
PROJECT: Collins Ave
COUNTY : Miami-Dade

File Name : 2- Collins Ave at 5701 Block
Site Code : 00000000
Start Date : 3/10/2017
Page No : 2



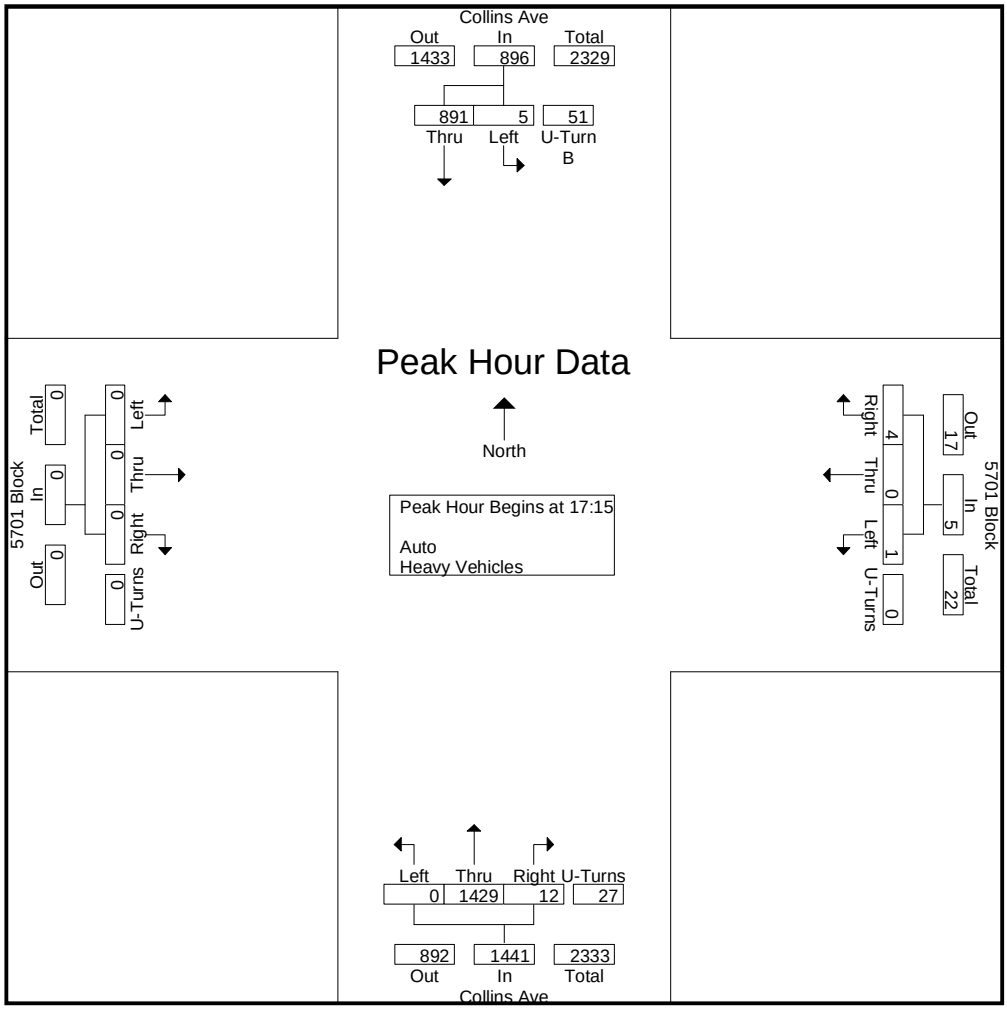
# Video Data Solutions, Inc.

A Traffic Data Collection Company
O.(305)253-1553 F.(305)235-7703

CLIENT : TRAF TECH Engineering
JOB NO : 2017-26
PROJECT: Collins Ave
COUNTY : Miami-Dade

File Name : 2- Collins Ave at 5701 Block
Site Code : 00000000
Start Date : 3/10/2017
Page No : 4

| | Collins Ave Southbound | | | | | 5701 Block Westbound | | | | | Collins Ave Northbound | | | | | 5701 Block Eastbound | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Thru | Left | U-Turn A | U-Turn B | App. Total | Right | Thru | Left | U-Turns | App. Total | Right | Thru | Left | U-Turns | App. Total | Right | Thru | Left | U-Turns | App. Total | Int. Total |
| Peak Hour Analysis From 16:30 to 18:45 - Peak 1 of 1 | | | | | | | | | | | | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 17:15 | | | | | | | | | | | | | | | | | | | | | |
| 17:15 | 233 | 2 | 0 | 5 | 240 | 1 | 0 | 1 | 0 | 2 | 4 | 347 | 0 | 5 | 356 | 0 | 0 | 0 | 0 | 0 | 598 |
| 17:30 | 232 | 0 | 2 | 2 | 236 | 2 | 0 | 0 | 0 | 2 | 5 | 372 | 0 | 3 | 380 | 0 | 0 | 0 | 0 | 0 | 618 |
| 17:45 | 219 | 1 | 11 | 15 | 246 | 0 | 0 | 0 | 0 | 0 | 1 | 360 | 0 | 11 | 372 | 0 | 0 | 0 | 0 | 0 | 618 |
| 18:00 | 207 | 2 | 8 | 8 | 225 | 1 | 0 | 0 | 0 | 1 | 2 | 350 | 0 | 8 | 360 | 0 | 0 | 0 | 0 | 0 | 586 |
| Total Volume | 891 | 5 | 21 | 30 | 947 | 4 | 0 | 1 | 0 | 5 | 12 | 1429 | 0 | 27 | 1468 | 0 | 0 | 0 | 0 | 0 | 2420 |
| % App. Total | | | | | | | | | | | | | | | | | | | | | |
| PHF | .956 | .625 | .477 | .500 | .962 | .500 | .000 | .250 | .000 | .625 | .600 | .960 | .000 | .614 | .966 | .000 | .000 | .000 | .000 | .000 | .979 |



# Video Data Solutions, Inc.

A Traffic Data Collection Company
O.(305)253-1553 F.(305)235-7703

CLIENT : TRAF TECH Engineering
JOB NO : 2017-26
PROJECT: Collins Ave
COUNTY : Miami-Dade

File Name : 2- Collins Ave at 5701 Block
Site Code : 00000000
Start Date : 3/10/2017
Page No : 1

Groups Printed- Peds

| | Collins Ave Southbound | | | | 5701 Block Westbound | | | | Collins Ave Northbound | | | | 5701 Block Eastbound | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Thru | Left | U-Turn A | U-Turn B | Right | Thru | Left | Peds | Right | Thru | Left | Peds | Right | Thru | Left | Peds | Int. Total |
| 16:30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 2 | 11 |
| 16:45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 7 | 14 |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 11 | 0 | 0 | 0 | 5 | 0 | 0 | 0 | 9 | 25 |
| 17:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 11 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 4 | 18 |
| 17:15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 16 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 2 | 19 |
| 17:30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 16 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 9 | 26 |
| 17:45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 13 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 3 | 18 |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 56 | 0 | 0 | 0 | 7 | 0 | 0 | 0 | 18 | 81 |
| 18:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 27 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 10 | 39 |
| 18:15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 23 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 7 | 31 |
| 18:30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 15 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 5 | 23 |
| 18:45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 13 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 3 | 17 |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 78 | 0 | 0 | 0 | 7 | 0 | 0 | 0 | 25 | 110 |
| Grand Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 145 | 0 | 0 | 0 | 19 | 0 | 0 | 0 | 52 | 216 |
| Apprch % | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 100 | 0 | 0 | 0 | 100 | 0 | 0 | 0 | 100 | |
| Total % | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 67.1 | 0 | 0 | 0 | 8.8 | 0 | 0 | 0 | 24.1 | |

# APPENDIX C

## Signal Timing Plan
### (Collins Avenue and 5800/5875 Block)

# TOD Schedule Report
## for 3923: Collins Av@5875 Blk

**Print Date:** 3/21/2017

**Print Time** 10:43 AM

| Asset | Intersection | TOD Schedule | Op Mode | Plan # | Cycle | Offset | TOD Setting | Active PhaseBank | Active Maximum |
|---|---|---|---|---|---|---|---|---|---|
| 3923 | Collins Av@5875 Blk | DOW-3 | TOD | [02] PRE-AM PEAK | 100 | 35 | N/A | 1 | Max 2 |

### Splits

| PH 1 | PH 2 | PH 3 | PH 4 | PH 5 | PH 6 | PH 7 | PH 8 |
|---|---|---|---|---|---|---|---|
| SBL | NBT | NWT | PED | - | SBT | - | - |
| 0 | 37 | 11 | 33 | 0 | 37 | 0 | 0 |


**Active Phase Bank:** Phase Bank 1

| Phase | Walk (Phase Bank 1 / 2 / 3) | Don't Walk (1 / 2 / 3) | Min Initial (1 / 2 / 3) | Veh Ext (1 / 2 / 3) | Max Limit (1 / 2 / 3) | Max 2 (1 / 2 / 3) | Yellow | Red |
|---|---|---|---|---|---|---|---|---|
| 1 SBL | 0 - 0 - 0 | 0 - 0 - 0 | 5 - 5 - 5 | 2 - 2 - 2 | 15 - 15 - 15 | 30 - 28 - 28 | 3.7 | 2.3 |
| 2 NBT | 0 - 0 - 0 | 0 - 0 - 0 | 16 - 16 - 16 | 1 - 1 - 1 | 30 - 30 - 30 | 0 - 0 - 0 | 4 | 2.3 |
| 3 NWT | 0 - 0 - 0 | 0 - 0 - 0 | 5 - 5 - 5 | 2 - 2 - 2 | 9 - 9 - 9 | 12 - 12 - 12 | 4 | 3.3 |
| 4 PED | 5 - 5 - 5 | 27 - 27 - 27 | 0 - 0 - 0 | 0 - 0 - 0 | 0 - 0 - 0 | 0 - 0 - 0 | 3.7 | 2.3 |
| 5 - | 0 - 0 - 0 | 0 - 0 - 0 | 0 - 0 - 0 | 0 - 0 - 0 | 0 - 0 - 0 | 0 - 0 - 0 | 0 | 0 |
| 6 SBT | 0 - 0 - 0 | 0 - 0 - 0 | 16 - 16 - 16 | 1 - 1 - 1 | 30 - 30 - 30 | 0 - 0 - 0 | 4 | 2.3 |
| 7 - | 0 - 0 - 0 | 0 - 0 - 0 | 0 - 0 - 0 | 0 - 0 - 0 | 0 - 0 - 0 | 0 - 0 - 0 | 0 | 0 |
| 8 - | 0 - 0 - 0 | 0 - 0 - 0 | 0 - 0 - 0 | 0 - 0 - 0 | 0 - 0 - 0 | 0 - 0 - 0 | 0 | 0 |

**Last In Service Date:** unknown

**Permitted Phases**

| | 12345678 |
|---|---|
| Default | 1234-6-- |
| External Permit 0 | -------- |
| External Permit 1 | -------- |
| External Permit 2 | -------- |

# TOD Schedule Report
## for 3923: Collins Av@5875 Blk

**Print Date:** 3/21/2017

**Print Time** 10:43 AM

| Current TOD Schedule | Plan | Cycle | Green Time 1 SBL | 2 NBT | 3 NWT | 4 PED | 5 - | 6 SBT | 7 - | 8 - | Ring Offset | Offset |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 2 | 100 | ** | 37 | 11 | 33 | 0 | 37 | 0 | 0 | 0 | 35 |
| 0700 | 18 | 140 | ** | 77 | 11 | 33 | 0 | 77 | 0 | 0 | 0 | 101 |
| 0930 | 2 | 100 | ** | 37 | 11 | 33 | 0 | 37 | 0 | 0 | 0 | 35 |
| 1500 | 19 | 140 | ** | 77 | 11 | 33 | 0 | 77 | 0 | 0 | 0 | 11 |
| 2200 | 2 | 100 | ** | 37 | 11 | 33 | 0 | 37 | 0 | 0 | 0 | 35 |
| | 1 | 90 | ** | 30 | 8 | 33 | 0 | 30 | 0 | 0 | 0 | 79 |
| | 3 | 100 | ** | 37 | 11 | 33 | 0 | 37 | 0 | 0 | 0 | 49 |
| | 4 | 140 | ** | 78 | 10 | 33 | 0 | 78 | 0 | 0 | 0 | 59 |
| | 5 | 100 | ** | 37 | 11 | 33 | 0 | 37 | 0 | 0 | 0 | 44 |
| | 6 | 100 | ** | 37 | 11 | 33 | 0 | 37 | 0 | 0 | 0 | 44 |
| | 8 | 105 | ** | 42 | 11 | 33 | 0 | 42 | 0 | 0 | 0 | 6 |
| | 9 | 105 | ** | 42 | 11 | 33 | 0 | 42 | 0 | 0 | 0 | 8 |
| | 10 | 120 | ** | 58 | 10 | 33 | 0 | 58 | 0 | 0 | 0 | 62 |
| | 11 | 140 | ** | 78 | 10 | 33 | 0 | 78 | 0 | 0 | 0 | 6 |
| | 12 | 120 | ** | 57 | 11 | 33 | 0 | 57 | 0 | 0 | 0 | 84 |
| | 13 | 100 | ** | 37 | 11 | 33 | 0 | 37 | 0 | 0 | 0 | 44 |
| | 14 | 105 | ** | 42 | 11 | 33 | 0 | 42 | 0 | 0 | 0 | 59 |
| | 15 | 120 | ** | 57 | 11 | 33 | 0 | 57 | 0 | 0 | 0 | 84 |
| | 16 | 100 | ** | 37 | 11 | 33 | 0 | 37 | 0 | 0 | 0 | 45 |
| | 17 | 100 | ** | 37 | 11 | 33 | 0 | 37 | 0 | 0 | 0 | 35 |
| | 20 | 120 | ** | 58 | 10 | 33 | 0 | 58 | 0 | 0 | 0 | 62 |
| | 21 | 120 | ** | 58 | 10 | 33 | 0 | 58 | 0 | 0 | 0 | 62 |
| | 22 | 90 | ** | 28 | 10 | 33 | 0 | 28 | 0 | 0 | 0 | 55 |
| | 23 | 90 | ** | 28 | 10 | 33 | 0 | 28 | 0 | 0 | 0 | 55 |

### Local TOD Schedule

| Time | Plan | DOW |
|---|---|---|
| 0000 | 1 | Su S |
| 0000 | 2 | M T W Th F |
| 0700 | 18 | M T W Th F |
| 0930 | 2 | M T W Th F |
| 1000 | 2 | Su S |
| 1500 | 19 | M T W Th F |
| 2000 | 1 | Su S |
| 2200 | 2 | M T W Th F |

### Current Time of Day Function

| Time | Function | Settings * | Day of Week |
|---|---|---|---|
| 0000 | TOD OUTPUTS | -------- | SuM T W ThF S |

### Local Time of Day Function

| Time | Function | Settings * | Day of Week |
|---|---|---|---|
| 0000 | TOD OUTPUTS | -------- | SuM T W ThF S |

### * Settings

Blank - FREE - Phase Bank 1, Max 1
Blank - Plan - Phase Bank 1, Max 2
1 - Phase Bank 2, Max 1
2 - Phase Bank 2, Max 2
3 - Phase Bank 3, Max 1
4 - Phase Bank 3, Max 2
5 - EXTERNAL PERMIT 1
6 - EXTERNAL PERMIT 2
7 - X-PED OMIT
8 - TBA

# TOD Schedule Report
## for 3923: Collins Av@5875 Blk

**Print Date:** 3/21/2017

**Print Time** 10:43 AM

### No Calendar Defined/Enabled

# APPENDIX D

## Pedestrian LOS
**(Source: 2010 HCM)**

parts of the walkway. In cross-flow locations, the LOS E–F threshold is 13 ft²/p, as indicated in the notes for Exhibit 23-1 and Exhibit 23-2.

**Exhibit 23-1**
Average Flow LOS Criteria for Walkways

| LOS | Average Space (ft²/p) | Related Measures: Flow Rate (p/min/ft)[a] | Related Measures: Average Speed (ft/s) | Related Measures: v/c Ratio[b] | Comments |
|---|---|---|---|---|---|
| A | >60 | ≤5 | >4.25 | ≤0.21 | Ability to move in desired path, no need to alter movements |
| B | >40–60 | >5–7 | >4.17–4.25 | >0.21–0.31 | Occasional need to adjust path to avoid conflicts |
| C | >24–40 | >7–10 | >4.00–4.17 | >0.31–0.44 | Frequent need to adjust path to avoid conflicts |
| D | >15–24 | >10–15 | >3.75–4.00 | >0.44–0.65 | Speed and ability to pass slower pedestrians restricted |
| E | >8–15[c] | >15–23 | >2.50–3.75 | >0.65–1.00 | Speed restricted, very limited ability to pass slower pedestrians |
| F | ≤8[c] | Variable | ≤2.50 | Variable | Speeds severely restricted, frequent contact with other users |

**Notes:** Exhibit 23-1 does not apply to walkways with steep grades (>5%). See the Special Cases section for further discussion.
[a] Pedestrians per minute per foot of walkway width.
[b] *v/c* ratio = flow rate/23. LOS is based on average space per pedestrian.
[c] In cross-flow situations, the LOS E–F threshold is 13 ft²/p.

**Exhibit 23-2**
Platoon-Adjusted LOS Criteria for Walkways

| LOS | Average Space (ft²/p) | Related Measure Flow Rate[a] (p/min/ft)[b] | Comments |
|---|---|---|---|
| A | >530 | ≤0.5 | Ability to move in desired path, no need to alter movements |
| B | >90–530 | >0.5–3 | Occasional need to adjust path to avoid conflicts |
| C | >40–90 | >3–6 | Frequent need to adjust path to avoid conflicts |
| D | >23–40 | >6–11 | Speed and ability to pass slower pedestrians restricted |
| E | >11–23[c] | >11–18 | Speed restricted, very limited ability to pass slower pedestrians |
| F | ≤11[c] | >18 | Speeds severely restricted, frequent contact with other users |

**Notes:** [a] Rates in the table represent average flow rates over a 5-min period. Flow rate is directly related to space; however, LOS is based on average space per pedestrian.
[b] Pedestrians per minute per foot of walkway width.
[c] In cross-flow situations, the LOS E–F threshold is 13 ft²/p.

## Stairways

Exhibit 23-3 provides the LOS criteria for stairways.

**Exhibit 23-3**
LOS Criteria for Stairways

| LOS | Average Space (ft²/p) | Related Measures: Flow Rate (p/min/ft)[a] | Related Measures: v/c Ratio[b] | Comments |
|---|---|---|---|---|
| A | >20 | ≤5 | ≤ 0.33 | No need to alter movements |
| B | >17–20 | >5–6 | >0.33–0.41 | Occasional need to adjust path to avoid conflicts |
| C | >12–17 | >6–8 | >0.41–0.53 | Frequent need to adjust path to avoid conflicts |
| D | >8–12 | >8–11 | >0.53–0.73 | Limited ability to pass slower pedestrians |
| E | >5–8 | >11–15 | >0.73–1.00 | Very limited ability to pass slower pedestrians |
| F | ≤5 | Variable | Variable | Speeds severely restricted, frequent contact with other users |

**Notes:** [a] Pedestrians per minute per foot of walkway width.
[b] *v/c* ratio = flow rate/15. LOS is based on average space per pedestrian.