# TRAFFIC StuDY 

# HALLANDALE BEACH TOWNHOMES HALLANDALE BEACH, FLORIDA 

## Prepared for:

99 Hallandale Manager, LLC
2875 NE 191 ${ }^{\text {st }}$ Street, Suite 801
Aventura, Florida 33180
Job No. 15-010
Date: June 12, 2015
Revised: October 13, 2016


Revised: January 8, 2018

Bryan G. Kelley, P.E. FL Reg. No. 74006

### 1.0 SITE DATA

The subject parcels are located at 901-925 SW 9th Street and 920 SW $9^{\text {th }}$ Street in the City of Hallandale Beach, Florida and contains approximately 1.61 acres. 901-925 SW 9 ${ }^{\text {th }}$ Street is currently vacant while 920 SW $9^{\text {th }}$ Street currently contains a single family dwelling unit. The proposed plan of development consists of 20 townhouse dwelling units; 8 dwelling units are to be located at 920 SW $9^{\text {th }}$ Street and 12 dwelling units are to be located at 901-925 SW $9^{\text {th }}$ Street. Site access is proposed via full access driveway connections to SW 9 ${ }^{\text {th }}$ Street and SW $9^{\text {th }}$ Avenue. For additional information on site layout, please refer to the site plan prepared by Joseph. B. Kaller and Associates PA.

### 2.0 TRAFFIC DATA

SW $9^{\text {th }}$ Street is an east-west two-lane undivided local roadway that provides direct access to several residential properties west of SW $8^{\text {th }}$ Avenue. SW $8^{\text {th }}$ Avenue in the vicinity of the project is a north-south two-lane undivided collector roadway that provides connections to SW $11^{\text {th }}$ Street to the south and Hallandale Beach Boulevard to the north. Speed humps and a school speed zone are present on SW $8^{\text {th }}$ Avenue.

Turning movement counts were collected from 7:00 to 9:00 A.M. and from 4:00 to 6:00 P.M. on Tuesday, June 2, 2015 at the intersection of Hallandale Beach Boulevard and SW $8^{\text {th }}$ Avenue. A peak season correction factor (PSCF) of 1.06 obtained from the FDOT was applied to the traffic counts to adjust for seasonal factors.

A review of the Broward County MPO 5-Year Transportation Improvement Program revealed that no capacity improvements are programmed in the study area.

### 3.0 TRAFFIC GENERATION

The traffic to be generated is calculated in accordance with the rates provided in the ITE Trip Generation Manual, 9th Edition as shown on Table 1, Table 2, and Table 3 attached with this report. Table 1 shows the daily traffic generation associated with the proposed use. Tables 2 and 3 show the A.M. and P.M. peak hour traffic generation, respectively. The traffic generation associated with the proposed 20 townhouse dwelling units may be summarized as follows:

| Daily Traffic Generation | $=159 \mathrm{tpd}$ |
| :--- | :--- | :--- |
| A.M. Peak Hour Traffic Generation | $=14 \mathrm{pht}(2 \ln / 12$ Out $)$ |
| P.M. Peak Hour Traffic Generation | $=16 \mathrm{pht}(11 \ln / 5$ Out $)$ |

The traffic assigned with the proposed plan of development was distributed to the local roadway network based on existing land uses and travel patterns. The Trip Distribution figure is attached to this report.

### 4.0 FUTURE CONDITION ANALYSIS

FDOT historical AADT's were reviewed on the surrounding roadway network to determine the background growth rate. The results as shown in Table 4 showed an average area wide growth rate of $2.06 \%$. Therefore, a growth rate of $2.06 \%$ was utilized for background growth to project traffic to 2021. The traffic volume development worksheet for the study intersection is included in Appendix C.

An intersection operational analysis was performed using Synchro 10 software with the corresponding Highway Capacity (HCM) results. The analysis was performed for both the buildout without project traffic and buildout with project traffic during both the A.M. and P.M. peak hours to determine the project impact on the intersection. A default heavy vehicle percentage (HV\%) of $2.0 \%$ was used and the collected overall intersection peak hour factors (PHF) were used in the analysis.

The signal timing was optimized in all scenarios. However, the signal phasing, yellow and red timing, and overall cycle length were not modified. The results of the analysis are shown below.

Hallandale Beach Boulevard and SW 8 ${ }^{\text {th }}$ Avenue - 2021 Operational Analysis

| APPROACH | AM PEAK HOUR |  |  |  | PM PEAK HOUR |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | WITHOUT PROJECT |  | WITH PROJECT |  | WITHOUT PROJECT |  | WITH PROJECT |  |
|  | $\begin{aligned} & \text { AVG } \\ & \text { DELAY } \\ & \text { (S/VEH) } \end{aligned}$ | LOS | AVG DELAY (S/VEH) | LOS | $\begin{aligned} & \text { AVG } \\ & \text { DELAY } \\ & \text { (S/VEH) } \end{aligned}$ | LOS | $\begin{aligned} & \hline \text { AVG } \\ & \text { DELAY } \\ & \text { (S/VEH) } \end{aligned}$ | LOS |
| EASTBOUND | 50.4 | D | 50.8 | D | 66.6 | E | 67.0 | E |
| WESTBOUND | 32.5 | C | 32.5 | C | 108.9 | F | 108.9 | F |
| NORTHBOUND | 78.4 | E | 79.5 | E | 130.4 | F | 131.8 | F |
| SOUTHBOUND | 91.9 | F | 91.9 | F | 120.9 | F | 122.6 | F |
| TOTAL | 51.5 | D | 51.9 | D | 94.8 | F | 95.4 | F |

As shown above, the proposed project will have a negligible impact to the intersection of Hallandale Beach Boulevard and SW $8^{\text {th }}$ Avenue.

Tables 4 and 5 attached to the report document the peak direction project assignment on the surrounding roadway network. As shown, the project will have an insignificant impact to the roadway links within the study area.

### 5.0 CONCLUSION

The propose plan of development of 20 townhouse dwelling units will generate 159 daily trips, 14 A.M. peak hour trips and 16 P.M. peak hour trips. Based on the findings of this report, the proposed development will have a negligible traffic impact on the surrounding roadway network.
bk: $\quad$ : $:$ Documents 1 Traffic Drainage\&Structural/ts.15010.rev

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Figure 1 - Site Location Map Hallandale Beach Townhomes
Project \# 15-010
HALLANDALE BEACH TOWNHOMES
PROPOSED DEVELOPMENT - 20 TOWNHOUSE UNITS

| Landuse | ITE | Intensity |  | Rate/Equation | $\begin{array}{l\|l\|} \hline \text { Dir Split } \\ \text { In } & \text { Out } \\ \hline \end{array}$ |  | Gross Trips | Internalization |  | External Trips | Pass-by |  | Net Trips |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Code |  |  | \% |  |  | Total | \% | Trips |  |  |
| Condo/Townhouse | 230 | 20 | Dwelling Units |  | $\operatorname{Ln}(\mathrm{T})=0.87 \operatorname{Ln}(\mathrm{X})+2.46$ |  |  |  | 159 |  | 0 | 159 | 0\% | 0 | 159 |
|  |  |  | Grand Totals: |  |  |  | 159 | 0.0\% | 0 | 159 | 0\% | 0 | 159 |


TABLE 3 - PM Peak Hour Traffic Generation

| Landuse | $\begin{array}{\|c\|} \hline \text { ITE } \\ \text { Code } \\ \hline \end{array}$ | Intensity |  | Rate/Equation | Dir Split |  | Gross Trips |  |  | Internalization |  |  |  | External Trips |  |  | Pass-by |  | Net Trips |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | In | Out | In | Out | Total | \% | In | Out | Total | In | Out | Total | \% | Trips | In | Out | Total |
| Condo/Townhouse | 230 | 20 | Dwelling Units |  | $\operatorname{Ln}(\mathrm{T})=0.82 \operatorname{Ln}(\mathrm{X})+0.32$ | 0.67 | 0.33 | 11 | 5 | 16 | 0.0\% | 0 | 0 | 0 | 11 | 5 | 16 | 0\% | 0 | 11 | 5 | 16 |
|  |  |  | Grand Totals: |  |  |  | 11 | 5 | 16 | 0.0\% | 0 | 0 | 0 | 11 | 5 | 16 | 0\% | 0 | 11 | 5 | 16 |


HALLANDALE BEACH TOWNHOMES
TEST 1 - PROJECT TABLE 4
TEST 1 - PROJECT SIGNIFICANCE CALCULATION AM PEAK HOUR M PEAK HOUR


HALLANDALE BEACH TOWNHOMES
01/08/2018


## APPENDIX "A"

## TRAFFIC COUNTS

KMF Traffic Group, LLC
1669 SW College St., Stuart, FL
(772) 221-7971
www.kmftraffic.com

Manual Traffic Count - All Traffic
File Name: PK
W Hallandale Beach Blvd and NW 8th Ave Hallandale Beach, FL

| Site Code | $:$ SW1511 |
| :--- | :--- |
| Start Date | $: 6 / 2 / 2015$ |
| Page No | $: 1$ |

Groups Printed- All Traffic

|  | NW 8th aVE Southbound |  |  |  | W Hallandale Beach Bivd Westbound |  |  |  |  | NW 8th aVE Northbound |  |  |  | W Hallandale Beach Blvd Eastbound |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Start Time | Right | Thru | Left | App. Total | Right | Thru | Left | UTums | App. Total | Right | Thru | Left | App. Total | Right | Thru | Left | UTurns | App. Total | Int. Total |
| 07:00 AM | 36 | 24 | 7 | 67 | 4 | 231 | 6 | 0 | 241 | 2 | 9 | 90 | 101 | 30 | 258 | 25 | 7 | 320 | 729 |
| 07:15 AM | 46 | 47 | 10 | 103 | 6 | 201 | 18 | 0 | 225 | 3 | 34 | 95 | 132 | 36 | 262 | 46 | 2 | 346 | 806 |
| 07:30 AM | 21 | 30 | 8 | 59 | 0 | 215 | 25 | 0 | 240 | 2 | 41 | 80 | 123 | 54 | 325 | 93 | 7 | 479 | 901 |
| 07:45 AM | 39 | 55 | 13 | 107 | 1 | 203 | 22 | 0 | 226 | 6 | 33 | 76 | 115 | 64 | 295 | 53 | 5 | 417 | 865 |
| Total | 142 | 156 | 38 | 336 | 11 | 850 | 71 | 0 | 932 | 13 | 117 | 341 | 471 | 184 | 1140 | 217 | 21 | 1562 | 3301 |
| 08:00 AM | 41 | 47 | 12 | 100 | 1 | 260 | 18 | 0 | 279 | 6 | 58 | 85 | 149 | 56 | 410 | 32 | 4 | 502 | 1030 |
| 08:15 AM | 26 | 38 | 10 | 74 | 2 | 270 | 20 | 0 | 292 | 7 | 36 | 71 | 114 | 62 | 465 | 27 | 2 | 556 | 1036 |
| 08:30 AM | 15 | 38 | 18 | 71 | 1 | 317 | 21 | 0 | 339 | 7 | 38 | 86 | 131 | 77 | 443 | 21 | 6 | 547 | 1088 |
| 08:45 AM | 16 | 24 | 15 | 55 | 0 | 304 | 11 | 0 | 315 | 6 | 28 | 86 | 120 | 58 | 472 | 32 | 4 | 566 | 1056 |
| Total | 98 | 147 | 55 | 300 | 4 | 1151 | 70 | 0 | 1225 | 26 | 160 | 328 | 514 | 253 | 1790 | 112 | 16 | 2171 | 4210 |
| *** BREAK *** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 04:00 PM | 37 | 21 | 21 | 79 | 10 | 471 | 11 | 2 | 494 | 8 | 15 | 88 | 111 | 51 | 385 | 34 | 5 | 475 | 1159 |
| 04:15 PM | 23 | 19 | 10 | 52 | 6 | 435 | 17 | 4 | 462 | 8 | 30 | 88 | 126 | 40 | 370 | 47 | 9 | 466 | 1106 |
| 04:30 PM | 31 | 20 | 20 | 71 | 19 | 407 | 6 | 3 | 435 | 10 | 39 | 105 | 154 | 62 | 323 | 37 | 6 | 428 | 1088 |
| 04:45 PM | 26 | 26 | 10 | 62 | 15 | 398 | 11 | 2 | 426 | 1 | 32 | 98 | 131 | 60 | 393 | 55 | 5 | 513 | 1132 |
| Total | 117 | 86 | 61 | 264 | 50 | 1711 | 45 | 11 | 1817 | 27 | 116 | 379 | 522 | 213 | 1471 | 173 | 25 | 1882 | 4485 |
| 05:00 PM | 51 | 36 | 18 | 105 | 11 | 338 | 22 | 3 | 374 | 6 | 37 | 133 | 176 | 37 | 360 | 58 | 4 | 459 | 1114 |
| 05:15 PM | 38 | 29 | 24 | 91 | 10 | 465 | 19 | 4 | 498 | 6 | 40 | 142 | 188 | 58 | 423 | 47 | 7 | 535 | 1312 |
| 05:30 PM | 31 | 29 | 5 | 65 | 13 | 434 | 13 | 0 | 460 | 5 | 33 | 107 | 145 | 46 | 367 | 51 | 7 | 471 | 1141 |
| 05:45 PM | 38 | 27 | 10 | 75 | 10 | 360 | 23 | 3 | 396 | 6 | 38 | 138 | 182 | 51 | 365 | 41 | 4 | 461 | 1114 |
| Total | 158 | 121 | 57 | 336 | 44 | 1597 | 77 | 10 | 1728 | 23 | 148 | 520 | 691 | 192 | 1515 | 197 | 22 | 1926 | 4681 |
| Grand Total | 515 | 510 | 211 | 1236 | 109 | 5309 | 263 | 21 | 5702 | 89 | 541 | 1568 | 2198 | 842 | 5916 | 699 | 84 | 7541 | 16677 |
| Apprch \% | 41.7 | 41.3 | 17.1 |  | 1.9 | 93.1 | 4.6 | 0.4 |  | 4 | 24.6 | 71.3 |  | 11.2 | 78.5 | 9.3 | 1.1 |  |  |
| Total \% | 3.1 | 3.1 | 1.3 | 7.4 | 0.7 | 31.8 | 1.6 | 0.1 | 34.2 | 0.5 | 3.2 | 9.4 | 13.2 | 5 | 35.5 | 4.2 | 0.5 | 45.2 |  |

# KMF Traffic Group, LLC <br> 1669 SW College St., Stuart, FL <br> (772) 221-7971 <br> www.kmftraffic.com 

Manual Traffic Count - All Traffic
File Name: PK
W Hallandale Beach Blvd and NW 8th Ave Hallandale Beach, FL

Site Code : SW1511
Start Date : 6/2/2015
Page No : 2

|  | NW 8th aVE Southbound |  |  |  | W Hallandale Beach Blvd Westbound |  |  |  |  | NW 8th aVE Northbound |  |  |  | W Hallandale Beach Blvd Eastbound |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Start Time | Right | Thru | Left | App. Total | Right | Thru | Left | UTurns | App. Total | Right | Thru | Left | App. Total | Right | Thru | Left | UTurns | App. Total | Int. Total |
| Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Peak Hour for Entire Intersection Begins at 08:00 AM |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 08:00 AM | 41 | 47 | 12 | 100 | 1 | 260 | 18 | 0 | 279 | 6 | 58 | 85 | 149 | 56 | 410 | 32 | 4 | 502 | 1030 |
| 08:15 AM | 26 | 38 | 10 | 74 | 2 | 270 | 20 | 0 | 292 | 7 | 36 | 71 | 114 | 62 | 465 | 27 | 2 | 556 | 1036 |
| 08:30 AM | 15 | 38 | 18 | 71 | 1 | 317 | 21 | 0 | 339 | 7 | 38 | 86 | 131 | 77 | 443 | 21 | 6 | 547 | 1088 |
| 08:45 AM | 16 | 24 | 15 | 55 | 0 | 304 | 11 | 0 | 315 | 6 | 28 | 86 | 120 | 58 | 472 | 32 | 4 | 566 | 1056 |
| Total Volume \% App. Total | 98 | 147 | 55 | 300 | 4 | 1151 | 70 | 0 | 1225 | 26 | 160 | 328 | 514 | 253 | 1790 | 112 | 16 | 2171 | 4210 |
| PHF | . 598 | . 782 | . 764 | . 750 | . 500 | . 908 | . 833 | . 000 | . 903 | . 929 | . 690 | . 953 | . 862 | . 821 | . 948 | . 875 | 667 | . 959 | . 967 |



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File Name: PK
Site Code : SW1511
Start Date : 6/2/2015
Page No : 3

|  | NW 8th aVE Southbound |  |  |  | W Hallandale Beach Blvd Westbound |  |  |  |  | NW 8th aVE Northbound |  |  |  | W Hallandale Beach Blvd Eastbound |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Start Time | Right | Thru | Left | App. Total | Right | Thru | Left | UTurns | App. Total | Right | Thru | Left | App. Total | Right | Thru | Left | UTurns | App. Total | Int. Total |
| Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Peak Hour for Entire Intersection Begins at 04:45 PM |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 04:45 PM | 26 | 26 | 10 | 62 | 15 | 398 | 11 | 2 | 426 | 1 | 32 | 98 | 131 | 60 | 393 | 55 | 5 | 513 | 1132 |
| 05:00 PM | 51 | 36 | 18 | 105 | 11 | 338 | 22 | 3 | 374 | 6 | 37 | 133 | 176 | 37 | 360 | 58 | 4 | 459 | 1114 |
| 05:15 PM | 38 | 29 | 24 | 91 | 10 | 465 | 19 | 4 | 498 | 6 | 40 | 142 | 188 | 58 | 423 | 47 | 7 | 535 | 1312 |
| 05:30 PM | 31 | 29 | 5 | 65 | 13 | 434 | 13 | 0 | 460 | 5 | 33 | 107 | 145 | 46 | 367 | 51 | 7 | 471 | 1141 |
| Total Volume \% App. Total | 146 | 120 | 57 | 323 | 49 | 1635 | 65 | 9 | 1758 | 18 | 142 | 480 | 640 | 201 | 1543 | 211 | 23 | 1978 | 4699 |
| PHF | . 716 | . 833 | . 594 | . 769 | . 817 | . 879 | . 739 | . 563 | . 883 | . 750 | . 888 | . 845 | . 851 | . 838 | . 912 | . 909 | . 821 | . 924 | . 895 |



# APPENDIX "B" 

FDOT DATA
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COUNTY: 86 - BROWARD
FLORIDA DEPARTMENT OF TRANSPORTATIO
TRANSPORTATION STATISTICS OFFICE
2016 HISTORICAL AADT REPORT
$=F I R S T$ YEAR ESTIMATE


回 $\stackrel{y}{x}$ $\begin{array}{lr}=\text { MANUAL ESTIMATE; } \\ \text { ESTIMATE; } & \mathrm{T}=\text { THIRD } \\ \text { STIMATE; } & 6=\text { SIXTH }\end{array}$ $\begin{aligned} & S=\text { SECOND YEAR ESTIMATE; } \\ & \mathrm{V}=\text { FIFTH YEAR ESTIMATE; } \\ & \text { K FACTOR: STARTING WITH YEAR } 2011 \text { I }\end{aligned}$
FLORIDA DEPARTMENT OF TRANSPORTATION
TRANSPORTATION STATISTICS OFFICE
2016 HISTORICAI AADT REPORT 2016 HISTORICAL AADT REPORI


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2014 PEAK SEASON FACTOR CATEGORY REPORT - REPORT TYPE: ALL
CATEGORY: 8601 CEN.-W OF US1 TO SR7

| WEEK | DATES | SF | $\begin{aligned} & \text { MOCF: } \\ & \text { PSCF } \end{aligned}$ | $0.97$ |
| :---: | :---: | :---: | :---: | :---: |
| 1 | 01/01/2014-01/04/2014 | 0.97 | 1.00 |  |
| 2 | 01/05/2014-01/11/2014 | 0.99 | 1.02 |  |
| 3 | 01/12/2014-01/18/2014 | 1.01 | 1.04 |  |
| 4 | 01/19/2014-01/25/2014 | 1.00 | 1.03 |  |
| * 5 | 01/26/2014-02/01/2014 | 0.99 | 1.02 |  |
| * 6 | 02/02/2014-02/08/2014 | 0.98 | 1.01 |  |
| * 7 | 02/09/2014-02/15/2014 | 0.97 | 1.00 |  |
| * 8 | 02/16/2014-02/22/2014 | 0.96 | 0.99 |  |
| * 9 | 02/23/2014-03/01/2014 | 0.96 | 0.99 |  |
| *10 | 03/02/2014-03/08/2014 | 0.96 | 0.99 |  |
| *11 | 03/09/2014-03/15/2014 | 0.96 | 0.99 |  |
| *12 | 03/16/2014-03/22/2014 | 0.96 | 0.99 |  |
| *13 | 03/23/2014-03/29/2014 | 0.96 | 0.99 |  |
| *14 | 03/30/2014-04/05/2014 | 0.97 | 1.00 |  |
| *15 | 04/06/2014-04/12/2014 | 0.98 | 1.01 |  |
| *16 | 04/13/2014-04/19/2014 | 0.98 | 1.01 |  |
| *17 | 04/20/2014-04/26/2014 | 0.99 | 1.02 |  |
| 18 | 04/27/2014-05/03/2014 | 1.00 | 1.03 |  |
| 19 | 05/04/2014-05/10/2014 | 1.01 | 1.04 |  |
| 20 | 05/11/2014-05/17/2014 | 1.01 | 1.04 |  |
| 21 | 05/18/2014-05/24/2014 | 1.02 | 1.05 |  |
| 22 | 05/25/2014-05/31/2014 | 1.03 | 1.06 |  |
| 23 | 06/01/2014-06/07/2014 | 1.03 | 1.06 |  |
| 24 | 06/08/2014-06/14/2014 | 1.04 | 1.07 |  |
| 25 | 06/15/2014-06/21/2014 | 1.05 | 1.08 |  |
| 26 | 06/22/2014-06/28/2014 | 1.05 | 1.08 |  |
| 27 | 06/29/2014-07/05/2014 | 1.05 | 1.08 |  |
| 28 | 07/06/2014-07/12/2014 | 1.05 | 1.08 |  |
| 29 | 07/13/2014-07/19/2014 | 1.05 | 1.08 |  |
| 30 | 07/20/2014-07/26/2014 | 1.05 | 1.08 |  |
| 31 | 07/27/2014-08/02/2014 | 1.04 | 1.07 |  |
| 32 | 08/03/2014-08/09/2014 | 1.04 | 1.07 |  |
| 33 | 08/10/2014-08/16/2014 | 1.03 | 1.06 |  |
| 34 | 08/17/2014-08/23/2014 | 1.03 | 1.06 |  |
| 35 | 08/24/2014-08/30/2014 | 1.03 | 1.06 |  |
| 36 | 08/31/2014-09/06/2014 | 1.03 | 1.06 |  |
| 37 | 09/07/2014-09/13/2014 | 1.03 | 1.06 |  |
| 38 | 09/14/2014-09/20/2014 | 1.04 | 1.07 |  |
| 39 | 09/21/2014-09/27/2014 | 1.03 | 1.06 |  |
| 40 | 09/28/2014-10/04/2014 | 1.02 | 1.05 |  |
| 41 | 10/05/2014-10/11/2014 | 1.01 | 1.04 |  |
| 42 | 10/12/2014-10/18/2014 | 1.00 | 1.03 |  |
| 43 | 10/19/2014-10/25/2014 | 1.00 | 1.03 |  |
| 44 | 10/26/2014-11/01/2014 | 1.00 | 1.03 |  |
| 45 | 11/02/2014-11/08/2014 | 1.00 | 1.03 |  |
| 46 | 11/09/2014-11/15/2014 | 1.00 | 1.03 |  |
| 47 | 11/16/2014-11/22/2014 | 1.00 | 1.03 |  |
| 48 | 11/23/2014-11/29/2014 | 0.99 | 1.02 |  |
| 49 | 11/30/2014-12/06/2014 | 0.98 | 1.01 |  |
| 50 | 12/07/2014-12/13/2014 | 0.98 | 1.01 |  |
| 51 | 12/14/2014-12/20/2014 | 0.97 | 1.00 |  |
| 52 | 12/21/2014-12/27/2014 | 0.99 | 1.02 |  |
| 53 | 12/28/2014-12/31/2014 | 1.01 | 1.04 |  |

* PEAK SEASON

12/18/12


## APPENDIX "C"

## TRAFFIC DEVELOPMENT SHEETS

AREA WIDE GROWTH RATE CALCULATION

$9.41 \%$
$11.64 \%$
$2.30 \%$
$-0.99 \%$
$4.00 \%$

2.06\%

$\mathbf{2 . 0 6 \%}$
11,000
9,600
45,500
49,500
900
116,500

RATE $=$
AREA WIDE GROWTH RATE

INTERSECTION VOLUME DEVELOPMENT WORKSHEET
HALLANDALE BEACH BOULEVARD AND SW 8TH AVENUE


## APPENDIX "D"

## SYNCHRO ANALYSIS

| Lane Group | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Lane Configurations | ${ }^{7}$ | 谷中 |  | \％ | 虫中 |  | \％ | F |  | \％ | p |  |
| Traffic Volume（vph） | 153 | 2144 | 303 | 84 | 1379 | 5 | 393 | 192 | 31 | 66 | 176 | 117 |
| Future Volume（vph） | 153 | 2144 | 303 | 84 | 1379 | 5 | 393 | 192 | 31 | 66 | 176 | 117 |
| Ideal Flow（vphpl） | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 |
| Storage Length（ft） | 215 |  | 0 | 180 |  | 0 | 150 |  | 0 | 300 |  | 0 |
| Storage Lanes | 1 |  | 0 | 1 |  | 0 | 2 |  | 0 | 1 |  | 0 |
| Taper Length（ft） | 100 |  |  | 100 |  |  | 100 |  |  | 100 |  |  |
| Lane Util．Factor | 1.00 | 0.91 | 0.91 | 1.00 | 0.91 | 0.91 | 0.97 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Frt |  | 0.981 |  |  | 0.999 |  |  | 0.979 |  |  | 0.940 |  |
| Fit Protected | 0.950 |  |  | 0.950 |  |  | 0.950 |  |  | 0.950 |  |  |
| Satd．Flow（prot） | 1816 | 5120 | 0 | 1816 | 5214 | 0 | 3523 | 1872 | 0 | 1816 | 1797 | 0 |
| Flt Permitted | 0.104 |  |  | 0.053 |  |  | 0.950 |  |  | 0.615 |  |  |
| Satd．Flow（perm） | 199 | 5120 | 0 | 101 | 5214 | 0 | 3523 | 1872 | 0 | 1176 | 1797 | 0 |
| Right Turn on Red |  |  | Yes |  |  | Yes |  |  | Yes |  |  | Yes |
| Satd．Flow（RTOR） |  | 23 |  |  |  |  |  | 5 |  |  | 18 |  |
| Link Speed（mph） |  | 45 |  |  | 45 |  |  | 30 |  |  | 30 |  |
| Link Distance（ft） |  | 628 |  |  | 672 |  |  | 660 |  |  | 560 |  |
| Travel Time（s） |  | 9.5 |  |  | 10.2 |  |  | 15.0 |  |  | 12.7 |  |
| Peak Hour Factor | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 |
| Adj．Flow（vph） | 158 | 2210 | 312 | 87 | 1422 | 5 | 405 | 198 | 32 | 68 | 181 | 121 |
| Shared Lane Traffic（\％） |  |  |  |  | － |  |  |  |  |  |  |  |
| Lane Group Flow（vph） | 158 | 2522 | 0 | 87 | 1427 | 0 | 405 | 230 | 0 | 68 | 302 | 0 |
| Enter Blocked Intersection | No | No | No | No | No | No | No | No | No | No | No | No |
| Lane Alignment | Left | Left | Right | Left | Left | Right | Left | Left | Right | Left | Left | Right |
| Median Width（ft） |  | 12 |  |  | 12 |  |  | 24 |  |  | 24 |  |
| Link Offset（ft） |  | 0 |  |  | 0 |  |  | 0 |  |  | 0 |  |
| Crosswalk Width（ft） |  | 16 |  |  | 16 |  |  | 16 |  |  | 16 |  |
| Two way Left Turn Lane |  |  |  |  |  |  |  |  |  |  |  |  |
| Headway Factor | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 |
| Turning Speed（mph） | 15 |  | 9 | 15 |  | 9 | 15 |  | 9 | 15 |  | 9 |
| Turn Type | pm＋pt | NA |  | pm＋pt | NA |  | Prot | NA |  | pm＋pt | NA |  |
| Protected Phases | 1 | 6 |  | 5 | 2 |  | 7 | 4 |  | 3 | 8 |  |
| Permitted Phases | 6 |  |  | 2 |  |  |  |  |  | 8 |  |  |
| Detector Phase | 1 | 6 |  | 5 | 2 |  | 7 | 4 |  | 3 | 8 |  |
| Switch Phase |  |  |  |  |  |  |  |  |  |  |  |  |
| Minimum Initial（s） | 4.0 | 4.0 |  | 4.0 | 4.0 |  | 4.0 | 4.0 |  | 4.0 | 4.0 |  |
| Minimum Split（s） | 10.5 | 28.5 |  | 10.5 | 28.5 |  | 10.0 | 34.0 |  | 10.0 | 34.0 |  |
| Total Split（s） | 22.0 | 86.0 |  | 14.0 | 78.0 |  | 26.0 | 49.0 |  | 11.0 | 34.0 |  |
| Total Split（\％） | 13．8\％ | 53．8\％ |  | 8．8\％ | 48．8\％ |  | 16．3\％ | 30．6\％ |  | 6．9\％ | 21．3\％ |  |
| Maximum Green（s） | 15.5 | 79.5 |  | 7.5 | 71.5 |  | 20.0 | 43.0 |  | 5.0 | 28.0 |  |
| Yellow Time（s） | 4.5 | 4.5 |  | 4.5 | 4.5 |  | 4.0 | 4.0 |  | 4.0 | 4.0 |  |
| All－Red Time（s） | 2.0 | 2.0 |  | 2.0 | 2.0 |  | 2.0 | 2.0 |  | 2.0 | 2.0 |  |
| Lost Time Adjust（s） | 0.0 | 0.0 |  | 0.0 | 0.0 |  | 0.0 | 0.0 |  | 0.0 | 0.0 |  |
| Total Lost Time（s） | 6.5 | 6.5 |  | 6.5 | 6.5 |  | 6.0 | 6.0 |  | 6.0 | 6.0 |  |
| Lead／Lag | Lead | Lag |  | Lead | Lag |  | Lead | Lag |  | Lead | Lag |  |
| Lead－Lag Optimize？ | Yes | Yes |  | Yes | Yes |  | Yes | Yes |  | Yes | Yes |  |
| Vehicle Extension（s） | 3.0 | 3.0 |  | 3.0 | 3.0 |  | 3.0 | 3.0 |  | 3.0 | 3.0 |  |
| Recall Mode | None | C－Min |  | None | C－Min |  | None | None |  | None | None |  |
| Act Effct Green（s） | 92.2 | 80.5 |  | 83.2 | 75.8 |  | 19.9 | 42.2 |  | 32.3 | 27.3 |  |


|  | 7 | $\rightarrow$ | \% | + | $\pm$ | 4 | , | ¢ | \% | ( | 1 | + |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Lane Group | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Actuated g/C Ratio | 0.58 | 0.50 |  | 0.52 | 0.47 |  | 0.12 | 0.26 |  | 0.20 | 0.17 |  |
| $\mathrm{v} / \mathrm{c}$ Ratio | 0.67 | 0.98 |  | 0.66 | 0.58 |  | 0.92 | 0.46 |  | 0.26 | 0.94 |  |
| Control Delay | 31.9 | 51.2 |  | 51.6 | 32.1 |  | 96.2 | 51.6 |  | 43.1 | 98.0 |  |
| Queue Delay | 0.0 | 0.0 |  | 0.0 | 0.0 |  | 0.0 | 0.0 |  | 0.0 | 0.0 |  |
| Total Delay | 31.9 | 51.2 |  | 51.6 | 32.1 |  | 96.2 | 51.6 |  | 43.1 | 98.0 |  |
| LOS | C | D |  | D | C |  | F | D |  | D | F |  |
| Approach Delay |  | 50.0 |  |  | 33.3 |  |  | 80.1 |  |  | 87.9 |  |
| Approach LOS |  | D |  |  | C |  |  | F |  |  | F |  |
| Queue Length 50th (ft) | 73 | 933 |  | 38 | 394 |  | 219 | 198 |  | 49 | 298 |  |
| Queue Length 95th (ft) | 130 | \#1064 |  | \#121 | 463 |  | \#319 | 285 |  | 88 | \#482 |  |
| Internal Link Dist (ft) |  | 548 |  |  | 592 |  |  | 580 |  |  | 480 |  |
| Turn Bay Length (ft) | 215 |  |  | 180 |  |  | 150 |  |  | 300 |  |  |
| Base Capacity (vph) | 273 | 2586 |  | 133 | 2470 |  | 440 | 506 |  | 257 | 329 |  |
| Starvation Cap Reductn | 0 | 0 |  | 0 | 0 |  | 0 | 0 |  | 0 | 0 |  |
| Spillback Cap Reductn | 0 | 0 |  | 0 | 0 |  | 0 | 0 |  | 0 | 0 |  |
| Storage Cap Reductn | 0 | 0 |  | 0 | 0 |  | 0 | 0 |  | 0 | 0 |  |
| Reduced v/c Ratio | 0.58 | 0.98 |  | 0.65 | 0.58 |  | 0.92 | 0.45 |  | 0.26 | 0.92 |  |
| Intersection Summary |  |  |  |  |  |  |  |  |  |  |  |  |
| Area Type: Other |  |  |  |  |  |  |  |  |  |  |  |  |
| Cycle Length: 160 |  |  |  |  |  |  |  |  |  |  |  |  |
| Actuated Cycle Length: 160 |  |  |  |  |  |  |  |  |  |  |  |  |
| Offset: $0(0 \%$ ), Referenced to phase 2:WBTL and 6:EBTL, Start of Green |  |  |  |  |  |  |  |  |  |  |  |  |
| Natural Cycle: 145 |  |  |  |  |  |  |  |  |  |  |  |  |
| Control Type: Actuated-Coordinated |  |  |  |  |  |  |  |  |  |  |  |  |
| Maximum v/c Ratio: 0.98 |  |  |  |  |  |  |  |  |  |  |  |  |
| Intersection Signal Delay: 51.5 |  |  |  | Intersection LOS: D |  |  |  |  |  |  |  |  |
| Intersection Capacity Utilization 99.2\% |  |  |  | ICU Level of Service F |  |  |  |  |  |  |  |  |
| Analysis Period (min) 15 |  |  |  |  |  |  |  |  |  |  |  |  |
| \# 95th percentile volume exceeds capacity, queue may be longer. |  |  |  |  |  |  |  |  |  |  |  |  |
| Queue shown is maximum after two cycles. |  |  |  |  |  |  |  |  |  |  |  |  |

Splits and Phases: 3: SW 8th Avenue \& Hallandale Beach Boulevard


HCM Signalized Intersection Capacity Analysis
3: SW 8th Avenue \& Hallandale Beach Boulevard
01/08/2018


C Critical Lane Group

| Lane Group | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Lane Configurations | ${ }^{4}$ | 禹中 |  | 7 |  |  | 年 | F |  | 9 | F |  |
| Traffic Volume（vph） | 153 | 2144 | 304 | 84 | 1379 | 5 | 399 | 194 | 33 | 66 | 176 | 117 |
| Future Volume（vph） | 153 | 2144 | 304 | 84 | 1379 | 5 | 399 | 194 | 33 | 66 | 176 | 117 |
| Ideal Flow（vphpl） | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 |
| Storage Length（ft） | 215 |  | 0 | 180 |  | 0 | 150 |  | 0 | 300 |  | 0 |
| Storage Lanes | 1 |  | 0 | 1 |  | 0 | 2 |  | 0 | 1 |  | 0 |
| Taper Length（ft） | 100 |  |  | 100 |  |  | 100 |  |  | 100 |  |  |
| Lane Util．Factor | 1.00 | 0.91 | 0.91 | 1.00 | 0.91 | 0.91 | 0.97 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Frt |  | 0.981 |  |  | 0.999 |  |  | 0.978 |  |  | 0.940 |  |
| Fit Protected | 0.950 |  |  | 0.950 |  |  | 0.950 |  |  | 0.950 |  |  |
| Satd．Flow（prot） | 1816 | 5120 | 0 | 1816 | 5214 | 0 | 3523 | 1870 | 0 | 1816 | 1797 | 0 |
| Flt Permitted | 0.104 |  |  | 0.053 |  |  | 0.950 |  |  | 0.613 |  |  |
| Satd．Flow（perm） | 199 | 5120 | 0 | 101 | 5214 | 0 | 3523 | 1870 | 0 | 1172 | 1797 | 0 |
| Right Turn on Red |  |  | Yes |  |  | Yes |  |  | Yes |  |  | Yes |
| Satd．Flow（RTOR） |  | 23 |  |  |  |  |  | 5 |  |  | 18 |  |
| Link Speed（mph） |  | 45 |  |  | 45 |  |  | 30 |  |  | 30 |  |
| Link Distance（ft） |  | 628 |  |  | 672 |  |  | 660 |  |  | 560 |  |
| Travel Time（s） |  | 9.5 |  |  | 10.2 |  |  | 15.0 |  |  | 12.7 |  |
| Peak Hour Factor | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 |
| Adj．Flow（vph） | 158 | 2210 | 313 | 87 | 1422 | 5 | 411 | 200 | 34 | 68 | 181 | 121 |
| Shared Lane Traffic（\％） |  |  |  |  |  |  |  |  |  |  |  |  |
| Lane Group Flow（vph） | 158 | 2523 | 0 | 87 | 1427 | 0 | 411 | 234 | 0 | 68 | 302 | 0 |
| Enter Blocked Intersection | No | No | No | No | No | No | No | No | No | No | No | No |
| Lane Alignment | Left | Left | Right | Left | Left | Right | Left | Left | Right | Left | Left | Right |
| Median Width（ft） |  | 12 |  |  | 12 |  |  | 24 |  |  | 24 |  |
| Link Offset（ft） |  | 0 |  |  | 0 |  |  | 0 |  |  | 0 |  |
| Crosswalk Width（ft） |  | 16 |  |  | 16 |  |  | 16 |  |  | 16 |  |
| Two way Left Turn Lane |  |  |  |  |  |  |  |  |  |  |  |  |
| Headway Factor | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 |
| Turning Speed（mph） | 15 |  | 9 | 15 |  | 9 | 15 |  | 9 | 15 |  | 9 |
| Turn Type | pm＋pt | NA |  | pm＋pt | NA |  | Prot | NA |  | pm＋pt | NA |  |
| Protected Phases | 1 | 6 |  | 5 | 2 |  | 7 | 4 |  | 3 | 8 |  |
| Permitted Phases | 6 |  |  | 2 |  |  |  |  |  | 8 |  |  |
| Detector Phase | 1 | 6 |  | 5 | 2 |  | 7 | 4 |  | 3 | 8 |  |
| Switch Phase |  |  |  |  |  |  |  |  |  |  |  |  |
| Minimum Initial（s） | 4.0 | 4.0 |  | 4.0 | 4.0 |  | 4.0 | 4.0 |  | 4.0 | 4.0 |  |
| Minimum Split（s） | 10.5 | 28.5 |  | 10.5 | 28.5 |  | 10.0 | 34.0 |  | 10.0 | 34.0 |  |
| Total Split（s） | 22.0 | 86.0 |  | 14.0 | 78.0 |  | 26.0 | 49.0 |  | 11.0 | 34.0 |  |
| Total Split（\％） | 13．8\％ | 53．8\％ |  | 8．8\％ | 48．8\％ |  | 16．3\％ | 30．6\％ |  | 6．9\％ | 21．3\％ |  |
| Maximum Green（s） | 15.5 | 79.5 |  | 7.5 | 71.5 |  | 20.0 | 43.0 |  | 5.0 | 28.0 |  |
| Yellow Time（s） | 4.5 | 4.5 |  | 4.5 | 4.5 |  | 4.0 | 4.0 |  | 4.0 | 4.0 |  |
| All－Red Time（s） | 2.0 | 2.0 |  | 2.0 | 2.0 |  | 2.0 | 2.0 |  | 2.0 | 2.0 |  |
| Lost Time Adjust（s） | 0.0 | 0.0 |  | 0.0 | 0.0 |  | 0.0 | 0.0 |  | 0.0 | 0.0 |  |
| Total Lost Time（s） | 6.5 | 6.5 |  | 6.5 | 6.5 |  | 6.0 | 6.0 |  | 6.0 | 6.0 |  |
| Lead／Lag | Lead | Lag |  | Lead | Lag |  | Lead | Lag |  | Lead | Lag |  |
| Lead－Lag Optimize？ | Yes | Yes |  | Yes | Yes |  | Yes | Yes |  | Yes | Yes |  |
| Vehicle Extension（s） | 3.0 | 3.0 |  | 3.0 | 3.0 |  | 3.0 | 3.0 |  | 3.0 | 3.0 |  |
| Recall Mode | None | C－Min |  | None | C－Min |  | None | None |  | None | None |  |
| Act Effct Green（s） | 92.1 | 80.4 |  | 83.1 | 75.7 |  | 20.0 | 42.3 |  | 32.3 | 27.3 |  |


| Lane Group | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Actuated g/C Ratio | 0.58 | 0.50 |  | 0.52 | 0.47 |  | 0.12 | 0.26 |  | 0.20 | 0.17 |  |
| v/c Ratio | 0.67 | 0.98 |  | 0.66 | 0.58 |  | 0.93 | 0.47 |  | 0.27 | 0.94 |  |
| Control Delay | 31.9 | 51.5 |  | 51.6 | 32.2 |  | 97.7 | 51.8 |  | 43.1 | 98.0 |  |
| Queue Delay | 0.0 | 0.0 |  | 0.0 | 0.0 |  | 0.0 | 0.0 |  | 0.0 | 0.0 |  |
| Total Delay | 31.9 | 51.5 |  | 51.6 | 32.2 |  | 97.7 | 51.8 |  | 43.1 | 98.0 |  |
| LOS | C | D |  | D | C |  | F | D |  | D | F |  |
| Approach Delay |  | 50.3 |  |  | 33.3 |  |  | 81.1 |  |  | 87.9 |  |
| Approach LOS |  | D |  |  | C |  |  | F |  |  | F |  |
| Queue Length 50th (ft) | 73 | 934 |  | 38 | 394 |  | 223 | 201 |  | 49 | 298 |  |
| Queue Length 95th (ft) | 130 | \#1064 |  | \#121 | 463 |  | \#325 | 290 |  | 88 | \#482 |  |
| Internal Link Dist (ft) |  | 548 |  |  | 592 |  |  | 580 |  |  | 480 |  |
| Turn Bay Length (ft) | 215 |  |  | 180 |  |  | 150 |  |  | 300 |  |  |
| Base Capacity (vph) | 273 | 2583 |  | 133 | 2467 |  | 440 | 506 |  | 256 | 329 |  |
| Starvation Cap Reductn | 0 | 0 |  | 0 | 0 |  | 0 | 0 |  | 0 | 0 |  |
| Spillback Cap Reductn | 0 | 0 |  | 0 | 0 |  | 0 | 0 |  | 0 | 0 |  |
| Storage Cap Reductn | 0 | 0 |  | 0 | 0 |  | 0 | 0 |  | 0 | 0 |  |
| Reduced v/c Ratio | 0.58 | 0.98 |  | 0.65 | 0.58 |  | 0.93 | 0.46 |  | 0.27 | 0.92 |  |
| Intersection Summary |  |  |  |  |  |  |  |  |  |  |  |  |
| Area Type: Other |  |  |  |  |  |  |  |  |  |  |  |  |
| Cycle Length: 160 |  |  |  |  |  |  |  |  |  |  |  |  |
| Actuated Cycle Length: 160 |  |  |  |  |  |  |  |  |  |  |  |  |
| Offset: $0(0 \%)$, Referenced to phase 2:WBTL and 6:EBTL, Start of Green |  |  |  |  |  |  |  |  |  |  |  |  |
| Natural Cycle: 145 |  |  |  |  |  |  |  |  |  |  |  |  |
| Control Type: Actuated-Coordinated |  |  |  |  |  |  |  |  |  |  |  |  |
| Maximum v/c Ratio: 0.98 |  |  |  |  |  |  |  |  |  |  |  |  |
| Intersection Signal Delay: 51.8 |  |  |  |  | Intersection LOS: D |  |  |  |  |  |  |  |
| Intersection Capacity Utilization 99.4\% ICU Level of Service F |  |  |  |  |  |  |  |  |  |  |  |  |
| Analysis Period (min) 15 |  |  |  |  |  |  |  |  |  |  |  |  |
| \# 95th percentile volume exceeds capacity, queue may be longer. |  |  |  |  |  |  |  |  |  |  |  |  |

Splits and Phases: 3: SW 8th Avenue \& Hallandale Beach Boulevard


c Critical Lane Group

| Lane Group | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Lane Configurations | 1 | 中4\% |  | \% | 1中 |  | \% | t |  | ${ }^{*}$ | p |  |
| Traffic Volume (vph) | 280 | 1848 | 241 | 89 | 1958 | 59 | 575 | 170 | 22 | 68 | 144 | 175 |
| Future Volume (vph) | 280 | 1848 | 241 | 89 | 1958 | 59 | 575 | 170 | 22 | 68 | 144 | 175 |
| Ideal Flow (vphpl) | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 |
| Storage Length (ft) | 215 |  | 0 | 180 |  | 0 | 150 |  | 0 | 300 |  |  |
| Storage Lanes | 1 |  | 0 | 1 |  | 0 | 2 |  | 0 | 1 |  | 0 |
| Taper Length (ft) | 100 |  |  | 100 |  |  | 100 |  |  | 100 |  |  |
| Lane Util. Factor | 1.00 | 0.91 | 0.91 | 1.00 | 0.91 | 0.91 | 0.97 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Frt |  | 0.983 |  |  | 0.996 |  |  | 0.983 |  |  | 0.918 |  |
| Flt Protected | 0.950 |  |  | 0.950 |  |  | 0.950 |  |  | 0.950 |  |  |
| Satd. Flow (prot) | 1816 | 5130 | 0 | 1816 | 5198 | 0 | 3523 | 1879 | 0 | 1816 | 1755 | 0 |
| Flt Permitted | 0.059 |  |  | 0.065 |  |  | 0.950 |  |  | 0.625 |  |  |
| Satd. Flow (perm) | 113 | 5130 | 0 | 124 | 5198 | 0 | 3523 | 1879 | 0 | 1195 | 1755 | 0 |
| Right Turn on Red |  |  | Yes |  |  | Yes |  |  | Yes |  |  | Yes |
| Satd. Flow (RTOR) |  | 19 |  |  | 3 |  |  | 4 |  |  | 33 |  |
| Link Speed (mph) |  | 45 |  |  | 45 |  |  | 30 |  |  | 30 |  |
| Link Distance (ft) |  | 628 |  |  | 672 |  |  | 660 |  |  | 560 |  |
| Travel Time (s) |  | 9.5 |  |  | 10.2 |  |  | 15.0 |  |  | 12.7 |  |
| Peak Hour Factor | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 |
| Adj. Flow (vph) | 311 | 2053 | 268 | 99 | 2176 | 66 | 639 | 189 | 24 | 76 | 160 | 194 |
| Shared Lane Traffic (\%) |  |  |  |  |  |  |  |  |  |  |  |  |
| Lane Group Flow (vph) | 311 | 2321 | 0 | 99 | 2242 | 0 | 639 | 213 | 0 | 76 | 354 | 0 |
| Enter Blocked Intersection | No | No | No | No | No | No | No | No | No | No | No | No |
| Lane Alignment | Left | Left | Right | Left | Left | Right | Left | Left | Right | Left | Left | Right |
| Median Width(ft) |  | 12 |  |  | 12 |  |  | 24 |  |  | 24 |  |
| Link Offset(ft) |  | 0 |  |  | 0 |  |  | 0 |  |  | 0 |  |
| Crosswalk Width(ft) |  | 16 |  |  | 16 |  |  | 16 |  |  | 16 |  |
| Two way Left Turn Lane |  |  |  |  |  |  |  |  |  |  |  |  |
| Headway Factor | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 |
| Turning Speed (mph) | 15 |  | 9 | 15 |  | 9 | 15 |  | 9 | 15 |  | 9 |
| Turn Type | pm+pt | NA |  | pm+pt | NA |  | Prot | NA |  | pm+pt | NA |  |
| Protected Phases | 1 | 6 |  | 5 | 2 |  | 7 | 4 |  | 3 | 8 |  |
| Permitted Phases | 6 |  |  | 2 |  |  |  |  |  | 8 |  |  |
| Detector Phase | 1 | 6 |  | 5 | 2 |  | 7 | 4 |  | 3 | 8 |  |
| Switch Phase |  |  |  |  |  |  |  |  |  |  |  |  |
| Minimum Initial (s) | 4.0 | 4.0 |  | 4.0 | 4.0 |  | 4.0 | 4.0 |  | 4.0 | 4.0 |  |
| Minimum Split (s) | 10.5 | 28.5 |  | 10.5 | 28.5 |  | 10.0 | 34.0 |  | 10.0 | 34.0 |  |
| Total Split (s) | 27.0 | 80.0 |  | 15.0 | 68.0 |  | 31.0 | 54.0 |  | 11.0 | 34.0 |  |
| Total Split (\%) | 16.9\% | 50.0\% |  | 9.4\% | 42.5\% |  | 19.4\% | 33.8\% |  | 6.9\% | 21.3\% |  |
| Maximum Green (s) | 20.5 | 73.5 |  | 8.5 | 61.5 |  | 25.0 | 48.0 |  | 5.0 | 28.0 |  |
| Yellow Time (s) | 4.5 | 4.5 |  | 4.5 | 4.5 |  | 4.0 | 4.0 |  | 4.0 | 4.0 |  |
| All-Red Time (s) | 2.0 | 2.0 |  | 2.0 | 2.0 |  | 2.0 | 2.0 |  | 2.0 | 2.0 |  |
| Lost Time Adjust (s) | 0.0 | 0.0 |  | 0.0 | 0.0 |  | 0.0 | 0.0 |  | 0.0 | 0.0 |  |
| Total Lost Time (s) | 6.5 | 6.5 |  | 6.5 | 6.5 |  | 6.0 | 6.0 |  | 6.0 | 6.0 |  |
| Lead/Lag | Lead | Lag |  | Lead | Lag |  | Lead | Lag |  | Lead | Lag |  |
| Lead-Lag Optimize? | Yes | Yes |  | Yes | Yes |  | Yes | Yes |  | Yes | Yes |  |
| Vehicle Extension (s) | 3.0 | 3.0 |  | 3.0 | 3.0 |  | 3.0 | 3.0 |  | 3.0 | 3.0 |  |
| Recall Mode | None | C-Min |  | None | C-Min |  | None | None |  | None | None |  |
| Act Effct Green (s) | 88.5 | 73.7 |  | 69.8 | 61.5 |  | 25.0 | 48.0 |  | 33.0 | 28.0 |  |



Splits and Phases: 3: SW 8th Avenue \& Hallandale Beach Boulevard


c Critical Lane Group

|  | $\rangle$ | $\rightarrow$ |  | 1 |  | 4 | 4 | $\dagger$ | 7 | $t$ | $\frac{1}{*}$ | $\checkmark$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Lane Group | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations | \％ | 种爯 |  | ＊ | 中䩗 |  | \％${ }^{1 / 4}$ | F |  | \％ | F |  |
| Traffic Volume（vph） | 280 | 1848 | 246 | 91 | 1958 | 59 | 578 | 171 | 23 | 68 | 146 | 175 |
| Future Volume（vph） | 280 | 1848 | 246 | 91 | 1958 | 59 | 578 | 171 | 23 | 68 | 146 | 175 |
| Ideal Flow（vphpl） | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 |
| Storage Length（ft） | 215 |  | 0 | 180 |  | 0 | 150 |  |  | 300 |  | 0 |
| Storage Lanes | 1 |  | 0 | 1 |  | 0 |  |  | 0 | 1 |  | 0 |
| Taper Length（ft） | 100 |  |  | 100 |  |  | 100 |  |  | 100 |  |  |
| Lane Util．Factor | 1.00 | 0.91 | 0.91 | 1.00 | 0.91 | 0.91 | 0.97 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Frt |  | 0.982 |  |  | 0.996 |  |  | 0.982 |  |  | 0.918 |  |
| Flt Protected | 0.950 |  |  | 0.950 |  |  | 0.950 |  |  | 0.950 |  |  |
| Satd．Flow（prot） | 1816 | 5125 | 0 | 1816 | 5198 | 0 | 3523 | 1877 | 0 | 1816 | 1755 | 0 |
| Flt Permitted | 0.059 |  |  | 0.065 |  |  | 0.950 |  |  | 0.623 |  |  |
| Satd．Flow（perm） | 113 | 5125 | 0 | 124 | 5198 | 0 | 3523 | 1877 | 0 | 1191 | 1755 | 0 |
| Right Turn on Red |  |  | Yes |  |  | Yes |  |  | Yes |  |  | Yes |
| Satd．Flow（RTOR） |  | 20 |  |  | 3 |  |  | 4 |  |  | 33 |  |
| Link Speed（mph） |  | 45 |  |  | 45 |  |  | 30 |  |  | 30 |  |
| Link Distance（ft） |  | 628 |  |  | 672 |  |  | 660 |  |  | 560 |  |
| Travel Time（s） |  | 9.5 |  |  | 10.2 |  |  | 15.0 |  |  | 12.7 |  |
| Peak Hour Factor | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 |
| Adj．Flow（vph） | 311 | 2053 | 273 | 101 | 2176 | 66 | 642 | 190 | 26 | 76 | 162 | 194 |
| Shared Lane Traffic（\％） |  |  |  |  |  |  |  |  |  |  |  |  |
| Lane Group Flow（vph） | 311 | 2326 | 0 | 101 | 2242 | 0 | 642 | 216 | 0 | 76 | 356 | 0 |
| Enter Blocked Intersection | No | No | No | No | No | No | No | No | No | No | No | No |
| Lane Alignment | Left | Left | Right | Left | Left | Right | Left | Left | Right | Left | Left | Right |
| Median Width（ tt ） |  | 12 |  |  | 12 |  |  | 24 |  |  | 24 |  |
| Link Offset（ft） |  | 0 |  |  | 0 |  |  | 0 |  |  | 0 |  |
| Crosswalk Width（ft） |  | 16 |  |  | 16 |  |  | 16 |  |  | 16 |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| Headway Factor | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 |
| Turning Speed（mph） | 15 |  | 9 | 15 |  | ， | 15 |  | 9 | 15 |  | 9 |
| Turn Type | pm＋pt | NA |  | pm＋pt | NA |  | Prot | NA |  | pm＋pt | NA |  |
| Protected Phases | 1 | 6 |  | 5 | 2 |  | 7 | 4 |  | 3 | 8 |  |
| Permitted Phases | 6 |  |  | 2 |  |  |  |  |  | 8 |  |  |
| Detector Phase | 1 | 6 |  |  | 2 |  | 7 | 4 |  | 3 | 8 |  |
| Switch Phase |  |  |  |  |  |  |  |  |  |  |  |  |
| Minimum Initial（s） | 4.0 | 4.0 |  | 4.0 | 4.0 |  | 4.0 | 4.0 |  | 4.0 | 4.0 |  |
| Minimum Split（s） | 10.5 | 28.5 |  | 10.5 | 28.5 |  | 10.0 | 34.0 |  | 10.0 | 34.0 |  |
| Total Split（s） | 27.0 | 80.0 |  | 15.0 | 68.0 |  | 31.0 | 54.0 |  | 11.0 | 34.0 |  |
| Total Split（\％） | 16．9\％ | 50．0\％ |  | 9．4\％ | 42．5\％ |  | 19．4\％ | 33．8\％ |  | 6．9\％ | 21．3\％ |  |
| Maximum Green（s） | 20.5 | 73.5 |  | 8.5 | 61.5 |  | 25.0 | 48.0 |  | 5.0 | 28.0 |  |
| Yellow Time（s） | 4.5 | 4.5 |  | 4.5 | 4.5 |  | 4.0 | 4.0 |  | 4.0 | 4.0 |  |
| All－Red Time（s） | 2.0 | 2.0 |  | 2.0 | 2.0 |  | 2.0 | 2.0 |  | 2.0 | 2.0 |  |
| Lost Time Adjust（s） | 0.0 | 0.0 |  | 0.0 | 0.0 |  | 0.0 | 0.0 |  | 0.0 | 0.0 |  |
| Total Lost Time（s） | 6.5 | 6.5 |  | 6.5 | 6.5 |  | 6.0 | 6.0 |  | 6.0 | 6.0 |  |
| Lead／Lag | Lead | Lag |  | Lead | Lag |  | Lead | Lag |  | Lead | Lag |  |
| Lead－Lag Optimize？ | Yes | Yes |  | Yes | Yes |  | Yes | Yes |  | Yes | Yes |  |
| Vehicle Extension（s） | 3.0 | 3.0 |  | 3.0 | 3.0 |  | 3.0 | 3.0 |  | 3.0 | 3.0 |  |
| Recall Mode | None | C－Min |  | None | C－Min |  | None | None |  | None | None |  |
| Act Effct Green（s） | 88.5 | 73.7 |  | 69.8 | 61.5 |  | 25.0 | 48.0 |  | 33.0 | 28.0 |  |


| Lane Group | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | SBR

Cycle Length: 160
Actuated Cycle Length: 160
Offset: $0(0 \%)$, Referenced to phase 2:WBTL and 6:EBTL, Start of Green
Natural Cycle: 145
Control Type: Actuated-Coordinated
Maximum v/c Ratio: 1.17
Intersection Signal Delay: 91.0
Intersection Capacity Utilization 108.1\%
Analysis Period (min) 15
~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.
\# 95th percentile volume exceeds capacity, queue may be longer. Queue shown is maximum after two cycles.

Splits and Phases: 3: SW 8th Avenue \& Hallandale Beach Boulevard


| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Lane Configurations | \% | 性 |  | 4 | 4㷏 |  | ${ }^{4} 1$ | $\uparrow$ |  | 7 | t |  |
| Traffic Volume (vph) | 280 | 1848 | 246 | 91 | 1958 | 59 | 578 | 171 | 23 | 68 | 146 | 175 |
| Future Volume (vph) | 280 | 1848 | 246 | 91 | 1958 | 59 | 578 | 171 | 23 | 68 | 146 | 175 |
| Ideal Flow (vphpl) | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 |
| Total Lost time (s) | 6.5 | 6.5 |  | 6.5 | 6.5 |  | 6.0 | 6.0 |  | 6.0 | 6.0 |  |
| Lane Util. Factor | 1.00 | 0.91 |  | 1.00 | 0.91 |  | 0.97 | 1.00 |  | 1.00 | 1.00 |  |
| Frt | 1.00 | 0.98 |  | 1.00 | 1.00 |  | 1.00 | 0.98 |  | 1.00 | 0.92 |  |
| Flt Protected | 0.95 | 1.00 |  | 0.95 | 1.00 |  | 0.95 | 1.00 |  | 0.95 | 1.00 |  |
| Satd. Flow (prot) | 1816 | 5127 |  | 1816 | 5196 |  | 3523 | 1877 |  | 1816 | 1755 |  |
| FIt Permitted | 0.06 | 1.00 |  | 0.07 | 1.00 |  | 0.95 | 1.00 |  | 0.62 | 1.00 |  |
| Satd. Flow (perm) | 112 | 5127 |  | 124 | 5196 |  | 3523 | 1877 |  | 1191 | 1755 |  |
| Peak-hour factor, PHF | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 |
| Adj. Flow (vph) | 311 | 2053 | 273 | 101 | 2176 | 66 | 642 | 190 | 26 | 76 | 162 | 194 |
| RTOR Reduction (vph) | 0 | 11 | 0 | 0 | 2 | 0 | 0 | 3 | 0 | 0 | 27 | 0 |
| Lane Group Flow (vph) | 311 | 2315 | 0 | 101 | 2240 | 0 | 642 | 213 | 0 | 76 | 329 | 0 |
| Turn Type | pm+pt | NA |  | pm+pt | NA |  | Prot | NA |  | pm+pt | NA |  |
| Protected Phases | 1 | 6 |  | 5 | 2 |  | 7 | 4 |  | 3 | 8 |  |
| Permitted Phases | 6 |  |  | 2 |  |  |  |  |  | 8 |  |  |
| Actuated Green, G (s) | 88.5 | 73.7 |  | 69.8 | 61.5 |  | 25.0 | 48.0 |  | 33.0 | 28.0 |  |
| Effective Green, g ( s ) | 88.5 | 73.7 |  | 69.8 | 61.5 |  | 25.0 | 48.0 |  | 33.0 | 28.0 |  |
| Actuated g/C Ratio | 0.55 | 0.46 |  | 0.44 | 0.38 |  | 0.16 | 0.30 |  | 0.21 | 0.18 |  |
| Clearance Time (s) | 6.5 | 6.5 |  | 6.5 | 6.5 |  | 6.0 | 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) | 280 | 2361 |  | 141 | 1997 |  | 550 | 563 |  | 265 | 307 |  |
| $\mathrm{v} / \mathrm{s}$ Ratio Prot | c0.14 | c0.45 |  | 0.04 | 0.43 |  | c0.18 | 0.11 |  | 0.01 | c0.19 |  |
| v/s Ratio Perm | c0.47 |  |  | 0.27 |  |  |  |  |  | 0.05 |  |  |
| v/c Ratio | 1.11 | 0.98 |  | 0.72 | 1.12 |  | 1.17 | 0.38 |  | 0.29 | 1.07 |  |
| Uniform Delay, d1 | 55.4 | 42.4 |  | 37.8 | 49.2 |  | 67.5 | 44.2 |  | 52.6 | 66.0 |  |
| Progression Factor | 1.00 | 1.00 |  | 1.00 | 1.00 |  | 1.00 | 1.00 |  | 1.00 | 1.00 |  |
| Incremental Delay, d2 | 86.8 | 14.5 |  | 15.9 | 62.1 |  | 93.6 | 0.4 |  | 0.6 | 71.5 |  |
| Delay (s) | 142.3 | 56.9 |  | 53.7 | 111.4 |  | 161.1 | 44.7 |  | 53.2 | 137.5 |  |
| Level of Service | F | E |  | D | F |  | F | D |  | D | F |  |
| Approach Delay (s) |  | 67.0 |  |  | 108.9 |  |  | 131.8 |  |  | 122.6 |  |
| Approach LOS |  | E |  |  | F |  |  | F |  |  | F |  |
| Intersection Summary |  |  |  |  |  |  |  |  |  |  |  |  |
| HCM 2000 Control Delay |  |  | 95.4 |  | HCM 2000 | Level of | Service |  | F |  |  |  |
| HCM 2000 Volume to Capacity ratio |  |  | 1.14 |  |  |  |  |  |  |  |  |  |
| Actuated Cycle Length (s) |  |  | 160.0 |  | Sum of lost | time (s) |  |  | 25.0 |  |  |  |
| Intersection Capacity Utilization |  |  | 108.1\% |  | CU Level of | Service |  |  | G |  |  |  |
| Analysis Period (min) |  |  | 15 |  |  |  |  |  |  |  |  |  |

c Critical Lane Group

## APPENDIX "E"

## SIGNAL TIMING

Station : 3089 - Hallandale Beach Blvd \& W 8 Ave ( Standard File )

| Phase | $\begin{gathered} 1 \\ (\mathrm{EL}) \end{gathered}$ | 2 (WT) | $\begin{gathered} 3 \\ (\mathrm{SL}) \end{gathered}$ | $\begin{gathered} 4 \\ (\mathrm{NT}) \end{gathered}$ | 5 $(W L)$ | $\begin{gathered} 6 \\ (\mathrm{ET}) \end{gathered}$ | $\begin{gathered} 7 \\ (\mathrm{NL}) \end{gathered}$ | $\begin{gathered} 8 \\ (\mathrm{ST}) \end{gathered}$ | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Walk |  | 7 |  | 7 |  | 7 |  | 7 |  |  |  |  |  |  |  |  |
| Ped Clearance |  | 15 |  | 21 |  | 15 |  | 21 |  |  |  |  |  |  |  |  |
| Min Green | 4 | 12 | 4 | 6 | 4 | 12 | 5 | 6 |  |  |  |  |  |  |  |  |
| Gap Ext | 1.5 | 3 | 1.5 | 2 | 1.5 | 3 | 1.5 | 2 |  |  |  |  |  |  |  |  |
| Max1 | 12 | 50 | 12 | 25 | 12 | 50 | 12 | 25 |  |  |  |  |  |  |  |  |
| Max2 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Yellow Clr | 4.5 | 4.5 | 4 | 4 | 4.5 | 4.5 | 4 | 4 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 |
| Red Clr | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 |
| Red Revert |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Added Initial |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Max Initial |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Time Before Reduce |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Cars Before Reduce |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Time To Reduce |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Reduce By |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Min Gap |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Dynamic Max Limit |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Dynamic Max Step |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Enable | ON | ON | ON | ON | ON | ON | ON | ON |  |  |  |  |  |  |  |  |
| Auto Flash Entry |  |  |  | ON |  |  |  | ON |  |  |  |  |  |  |  |  |
| Auto Flash Exit |  | ON |  |  |  | ON |  |  |  |  |  |  |  |  |  |  |
| Non-Actuated 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Non-Actuated 2 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Lock Call |  |  |  |  |  |  |  |  | ON | ON | ON | ON | ON | ON | ON | ON |
| Min Recall |  | ON |  |  |  | ON |  |  |  |  |  |  |  |  |  |  |
| Max Recall |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Ped Recall |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Soft Recall |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Dual Entry |  |  |  | ON |  |  |  | ON |  |  |  |  |  |  |  |  |
| Sim Gap Enable |  |  |  |  |  |  |  |  | ON | ON | ON | ON | ON | ON | ON | ON |
| Guar Passage |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Rest In Walk |  | ON |  |  |  | ON |  |  |  |  |  |  |  |  |  |  |
| Cond Service |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Add Init Calc |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Concurrent Ps | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 |  |  |  |  |  |  |  |  |

Preemption

| Channel | $\mathbf{1}$ | $\mathbf{2}$ | $\mathbf{3}$ | $\mathbf{4}$ | $\mathbf{5}$ | $\mathbf{6}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Lock Input | ON | ON | ON | ON | ON | ON |
| Override Auto Flash |  |  |  |  |  |  |
| Override Higher Preempt |  |  |  |  |  |  |
| Flash in Dwell |  |  |  |  |  |  |
| Link to Preempt |  |  |  |  |  |  |
| Delay |  |  |  |  |  |  |
| Min Duration |  |  |  |  |  |  |
| Min Green | 6 | 6 | 6 | 6 | 6 | 6 |
| Min Walk |  |  |  |  |  |  |
| Ped Clear |  |  |  |  |  |  |
| Track Green |  |  |  |  |  | 1 |
| Min Dwell | 8 | 8 | 8 | 8 | 8 | 8 |
| Max Presence | 180 | 180 | 180 | 180 | 180 | 180 |
| Track Veh 1 |  |  |  | 9 |  |  |
| Track Veh 2 |  |  |  |  |  |  |
| Track Veh 3 |  |  |  |  |  |  |
| Track Veh 4 |  |  |  |  |  |  |
| Dwell Cyc Veh 1 | 4 | 2 | 3 | 2 | 4 | 1 |
| Dwell Cyc Veh 2 | 8 | 6 | $\mathbf{8}$ | 5 | $\mathbf{7}$ | 6 |
| Dwell Cyc Veh 3 |  |  |  |  |  |  |
| Dwell Cyc Veh 4 |  |  |  |  |  |  |
| Dwell Cyc Veh 5 |  |  |  |  |  |  |
| Dwell Cyc Veh 6 |  |  |  |  |  |  |
| Dwell Cyc Veh 7 |  |  |  |  |  |  |
| Dwell Cyc Veh 8 |  |  |  |  |  |  |
| Dwell Cyc Veh 9 |  |  |  |  |  |  |
| Dwell Cyc Veh 10 |  |  |  |  |  |  |
| Dwell Cyc Veh 11 |  |  |  |  |  |  |
| Dwell Cyc Veh 12 |  |  |  |  |  |  |
| Dwell Cyc Ped1 |  |  |  |  |  |  |
| Dwell Cyc Ped2 |  |  |  |  |  |  |
| Dwell Cyc Ped3 |  |  |  |  |  |  |
| Dwell Cyc Ped4 |  |  |  |  |  |  |
| Dwell Cyc Ped5 |  |  |  |  |  |  |
| Dwell Cyc Ped6 |  |  |  |  |  |  |
|  |  |  |  |  |  |  |

Preempt LP

| Channel | $\mathbf{1}$ | $\mathbf{2}$ | $\mathbf{3}$ | $\mathbf{4}$ |
| :---: | :---: | :---: | :---: | :---: |
| Min |  |  |  |  |
| Max |  |  |  |  |
| Enable |  |  |  |  |
| Lock Mode | MAX | MAX | MAX | MAX |
| Coord in Preempt |  |  |  |  |
| No Skip |  |  |  |  |
| Priority P1 |  |  |  |  |
| Priority P2 |  |  |  |  |
| Priority P3 |  |  |  |  |
| Priority P4 |  |  |  |  |
| Lock |  |  |  |  |
| Hradway |  |  |  |  |
| Group Lock |  |  |  |  |
| Queue Jump |  |  |  |  |
| Free Mode |  |  |  |  |
| Alt Table |  |  |  |  |

Station : 3089-Hallandale Beach Blvd \& W 8 Ave ( Standard File )
Coordination



Station ： 3089 －Hallandale Beach Blvd \＆W 8 Ave（Standard File）

| 或 | 高 |  | 器 | － | ¢ ${ }_{\text {B }}^{\text {¢ }}$ | 咎 | 旁 | 易 | 熍 | 릴 | 窘 | 家 | 吕 | 宫 | 乐 | 家 |  | 宮 |  | 帘 | 宫 | 豆 | 気 | 㖆 | 产 | 皆 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Day P |  |  |  |  |  |  |  |  |  |  | asy |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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## Scheduler



## User Comments：

