Legislative ID\# 130805


June $5^{\text {th }}$ City Commission Meeting

## Traffic Management System

## The Next Phase

是
Gainesville/Alachua County

Advanced Traffic Management System

## GiÄng ville Recap - TMS

## 4 Agency Partnership



UF ${ }^{\text {|jniverstriv of }}$
The Foundation for The Gator Nation

## GAINEVILle Recap - TMS



Gainesville/Alachua County
SMARTRRAFFIC
Advanced Traffic Management System


## Recap - TMS

- New cabinets and controllers at every intersection
- Communications backbone
- PTZ Cameras
- Construction (installing cabinets etc...)
- Consulting services
- Software (signal system, cameras, signal timing...)
- TMC Building
- Equipment for the TMC
- Emergency vehicle preemption/priority


## GAINÉSVILLE Cabinets \& Controllers

- Cabinet and controller change-out:
- In-house technicians swapped out cabinets



## GAINÉ VILLE <br> Communications



## GAINÉNVILLE FLORIDA <br> Communications



## GAINÉ VILLE

## Communications



## GAINE VILLE Traffic Cameras



## GAINE VILLE <br> Traffic Cameras

## Traffic Cameras (They Don’t Record)

- 200 Traffic Cameras
- 125+ in HD
- 33 Public Access



## GAINÉ VILLE <br> Traffic Management Center

- Opened in October, 2010;
- Also serves as the City's EOC;
- Built to withstand a Category 5 Hurricane and has a generator to run for 72 Hours;



## GAINE VILLE <br> Traffic Management

## - Remote TMC:

- Gainesville Police Department;
- University of Florida Police Department;
- Ben Hill Griffin Stadium (U of F);
- Combined Communications Center / ACSO



## GAIŃsville Traffic Management

## Saves Time and Money

We are able to diagnose and resolve issues without having to send a technician to the field


## GAINÉ VILLE <br> Traffic Management



## GAiNEVILE Incident Management



## GAINÉNVILLE Special Events



- Parades
- Funeral processions
- Police/Emergency Escorts



## GAINEVILLE Recent Additions



## GAINE VILle Flashing Yellow Arrow

- City-wide Flashing Yellow Arrow Deployment



# GAINÉ VILLE <br> GAC-SmarTraffic.com/ 

## Gainesville/Alachua County SmartTraffic



## GAINÉNVILLE Bus wrap



## GAINEVILLE Travel Time



## GAINE VILLE Travel Time

--LOS Thresholds--

| Road Class | A | B | C | D | E | F |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| FL_Arterial_I | 42.0 mph | 34.0 mph | 21.0 mph | 21.0 mph | 16.0 mph | 0.0 mph |

--Data--

| Day of week | Date | Time | Travel time (s) | Speed (mph) | LOS |
| :--- | :--- | :--- | :--- | :--- | :--- |
| Monday | $2012-05-21$ | $15: 00$ | 298.1 | 36.23 | B |
| Monday | $2012-05-21$ | $15: 15$ | 310.4 | 34.80 | B |
| Monday | $2012-05-21$ | $15: 30$ | 329.1 | 32.82 | C |
| Monday | $2012-05-21$ | $15: 45$ | 367.3 | 29.40 | C |
| Monday | $2012-05-21$ | $16: 00$ | 380.5 | 28.38 | C |
| Monday | $2012-05-21$ | $16: 15$ | 374.5 | 28.84 | C |
| Monday | $2012-05-21$ | $16: 30$ | 374.8 | 28.81 | C |
| Monday | $2012-05-21$ | $16: 45$ | 365.1 | 29.58 | C |
| Monday | $2012-05-21$ | $17: 00$ | 365.0 | 29.59 | C |
| Monday | $2012-05-21$ | $17: 15$ | 364.3 | 29.65 | C |
| Monday | $2012-05-21$ | $17: 30$ | 366.2 | 29.49 | C |
| Monday | $2012-05-21$ | $17: 45$ | 372.0 | 29.04 | C |

## GAINE



## GAINÉ VILLE <br> Travel Time

- "Speed Graph" highlighting drops in speed each morning; also includes raw data points:

- Comparison/Before \& After Report displaying travel-times from 5-10am on $5 / 13-5 / 14$ versus $5 / 20-5 / 21$ :


## Comparison Report



## Time To Destination

MUTCD - Conventional Roadway
Dimensions: $36^{\prime \prime} \times 54^{\prime \prime}$ (each sign) Text height: 6

34th Street


MIN

## MIN

## GAINÉNVILLE Adaptive Signal Timing



## GAińsville Adaptive Signal Timing

Dynamic Signalization Option


Leading Left with Overlap



Leading Lef with Overlap


TIME
FOR VEHICLES TO TRAVEL BETWEEN SEGMENTS

## GAINE VILLE Questions?

## *

Gainesville/Alachua County

## SMAR1/RAFFIC <br> Advanced Traffic Management System



