

**RESOLUTION NO. 2010-94**

**A RESOLUTION OF THE MAYOR AND VILLAGE COUNCIL OF THE VILLAGE OF PALMETTO BAY, FLORIDA, RELATING TO TRAFFIC CALMING ON SW 144<sup>TH</sup> STREET IN THE VILLAGE OF PALMETTO BAY; AUTHORIZING THE VILLAGE MANAGER TO PROCEED WITH IMPLEMENTING PERMANENT TRAFFIC CALMING DEVICES AT THE INTERSECTION OF SW 84<sup>TH</sup> AVE. AND SW 74<sup>TH</sup> AVE. ON SW 144<sup>TH</sup> ST.; FURTHER AUTHORIZING THE VILLAGE MANAGER TO NEGOTIATE CONSTRUCTION AND CONSTRUCTION SUPPORT MANAGEMENT SERVICES FOR PERMANENT TRAFFIC CALMING DEVICES THAT WILL SUBSTANTIALLY IMPROVE THE FLOW OF TRAFFIC; AND PROVIDING FOR AN EFFECTIVE DATE.**

**WHEREAS**, Resolution No. 07-03, dated January 8, 2007 authorized the Village Manager to contract with Marlin Engineering, Inc. for the design of a traffic calming project on SW 144<sup>th</sup> Street at the intersection off SW 87<sup>th</sup> Ave., SW 84<sup>th</sup> Ave., SW 79<sup>th</sup> Ave., and SW 74<sup>th</sup> Ave.; and

**WHEREAS**, Marlin Engineering, Inc., provided planning and design services to the Village for Traffic Calming Improvements on SW 144<sup>th</sup> Street; and

**WHEREAS**, the Village issued bid # 2007-PW-104 on June 26, 2007 to construct permanent traffic calming devices on SW 144<sup>th</sup> Street; and

**WHEREAS**, since the completion of the traffic calming design, FPL replaced wooden poles with larger poles as part of a utility pole harden project on the south side of SW 144<sup>th</sup> St; and

**WHEREAS**, the Village would like to negotiate a contract with one of the three (3) pre-qualified firms currently contracted to provide additional Transportation Planning and Engineering services for limited design and construction support services as part of the SW 144<sup>th</sup> Street Traffic Calming Improvements; and

**WHEREAS**, the consultant will evaluate the impact of utility poles on the current design plan and perform limited design and construction engineering inspections in accordance with the negotiated project agreement; and,

**WHEREAS**, the Administration is requesting authorization to proceed with procuring a contractor to construct two (2) of the four (4) permanent traffic calming devices identified to reduce travel speeds, minimize cut-through traffic and improve the safety and condition of the pavement on SW 144<sup>th</sup> Street; and,

**NOW, THEREFORE, BE IT RESOLVED BY THE MAYOR AND VILLAGE COUNCIL OF THE VILLAGE OF PALMETTO BAY, FLORIDA, AS FOLLOWS:**

**Section 1:** Village Manager is authorized to negotiate a contract with one of the three pre-qualified firms currently contracted to provide Transportation Planning and Engineering services for limited design and construction support services as part of the SW 144<sup>th</sup> Street Traffic Calming Improvements.

**Section 2:** Staff will follow a competitive bid process for procuring construction services for permanent traffic calming devices with the issuance of an Invitation to Bid: Traffic Calming Improvements at the Intersection of SW 84<sup>TH</sup> Avenue and SW 74<sup>TH</sup> Avenue on SW 144<sup>TH</sup> Street.

**Section 3. Effective Date.** This Resolution shall take effect immediately upon adoption.

**PASSED and ADOPTED** this 4 day of October, 2010.

ATTEST:   
Meighan Alexander  
Village Clerk

  
Eugene P. Flinn Jr.  
Mayor

**READ AND APPROVED AS TO FORM:**

  
Eve Boutsis  
Village Attorney

**FINAL VOTE AT ADOPTION:**

Council Member Ed Feller	<u>YES</u>
Council Member Howard J. Tendrich	<u>YES</u>
Council Member Shelley Stanczyk	<u>YES</u>
Vice-Mayor Brian W. Pariser	<u>YES</u>
Mayor Eugene P. Flinn Jr.	<u>YES</u>

**RESOLUTION NO. 07-03**

**A RESOLUTION OF THE MAYOR AND VILLAGE COUNCIL OF THE VILLAGE OF PALMETTO BAY, FLORIDA, RELATING TO PERMANENT TRAFFIC CALMING DEVICES IN THE AREA OF SW 144<sup>TH</sup> STREET FROM US-1 TO SW 67<sup>TH</sup> AVENUE IN THE VILLAGE OF PALMETTO BAY; AUTHORIZING THE VILLAGE MANAGER TO ENTER INTO CONTRACT WITH MARLIN ENGINEERING, INC. TO PROVIDE DESIGN AND CONSTRUCTION MANAGEMENT SUPPORT SERVICES FOR THIS AREA AND TO APPROVE EXPENDITURE OF FUNDS IN AN AMOUNT NOT TO EXCEED \$118,000 ON A PROJECT THAT WILL SUBSTANTIALLY IMPROVE THE FLOW OF TRAFFIC WITHIN THE VILLAGE OF PALMETTO BAY; AND PROVIDING FOR AN EFFECTIVE DATE.**

**WHEREAS**, the Village contracted with Marlin Engineering, Inc. per resolution no. 06-64 to provide a Traffic Calming Study in the area of SW 144<sup>th</sup> Street from US-1 to SW 67<sup>th</sup> Avenue in the Village of Palmetto Bay; and

**WHEREAS**, data collected as part of the Traffic Calming Study conducted by Marlin Engineering, Inc. identified the need for permanent traffic calming devices in the area of SW 144<sup>th</sup> Street from US-1 to SW 67<sup>th</sup> Avenue in the Village of Palmetto Bay; and

**WHEREAS**, based on the traffic calming analysis and field observations the report recommends the installation of traffic circles, medians, two way, and intersection realignment; and

**WHEREAS**, the traffic calming devices will be designed in accordance with the Village's Traffic Calming Study Plan and the design will provide for necessary right-of-way repairs; and,

**WHEREAS**, the traffic calming devices will address existing traffic conditions regarding speeding and traffic intrusion along SW 144<sup>th</sup> Street have a positive impact on the flow of traffic from US-1 to SW 67<sup>th</sup> Avenue; and,

**WHEREAS**, the Administration has determined that Marlin Engineering, Inc., is a very capable firm and qualified to provide traffic calming design and construction management support services for the implementation of traffic calming devices in the area of SW 144<sup>th</sup> Street from US-1 to SW 67<sup>th</sup> Avenue within the Village of Palmetto Bay; and

**WHEREAS**, the Administration desires to select, Marlin Engineering, Inc., to provide design and construction management support for the implementation of traffic calming devices in accordance with the Traffic Calming Study Plan for SW 144<sup>th</sup> Street

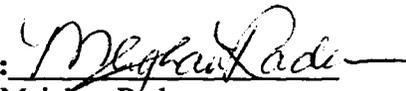
from US-1 to SW 67<sup>th</sup> Avenue and in accordance with the established guidelines and procedures utilized by Miami- Dade County Public Works Department, and the Florida Department of Transportation; and,

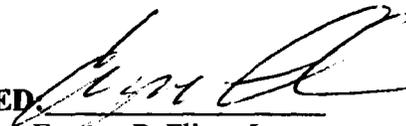
**NOW, THEREFORE, BE IT RESOLVED BY THE MAYOR AND VILLAGE COUNCIL OF THE VILLAGE OF PALMETTO BAY, FLORIDA, AS FOLLOWS:**

Section 1: Village Manager is authorized to contract for Traffic Engineering Services with Marlin Engineering, Inc. and approve expenditure of funds in an amount not to exceed \$118,000 for the design and construction management support of traffic calming devices to enhance the flow of traffic in the area of SW 144<sup>th</sup> Street from US-1 to SW 67<sup>th</sup> Avenue within the Village of Palmetto Bay.

Section 2: This Resolution shall take effect immediately upon approval.

**PASSED and ADOPTED** this 8th day of January, 2007.

**ATTEST:**   
Meighan Rader  
Village Clerk

**APPROVED:**   
Eugene P. Flinn, Jr.  
Mayor

**READ AND APPROVED AS TO FORM:**

  
Eve A. Bontsis  
Village Attorney

**FINAL VOTE AT ADOPTION:**

- |                                 |            |
|---------------------------------|------------|
| Council Member Ed Feller        | <u>YES</u> |
| Council Member Paul Neidhart    | <u>YES</u> |
| Council Member Shelley Stanczyk | <u>YES</u> |
| Vice-Mayor Linda Robinson       | <u>YES</u> |
| Mayor Eugene P. Flinn, Jr.      | <u>YES</u> |



# MEMORANDUM

**To:** Corrice Patterson  
Director of Public Works Department

**From:** Eric Penfield, P.E.

**CC:** Danny Casals (Public Works Department)  
Ramon Soria, P.E.

**Date:** 9/20/2010

**Re:** Prioritization of Traffic Calming Devices along SW 144<sup>th</sup> Street

Based upon the November 2006 traffic calming study prepared for the SW 144<sup>th</sup> Street corridor from US-1 to SW 67<sup>th</sup> Avenue, a number of traffic calming devices were identified to reduce travel speeds, minimize cut-through traffic, and improve traffic safety. In particular, four devices were recommended at the following locations:

- Roundabout/Traffic Circle at SW 144<sup>th</sup> Street and SW 87<sup>th</sup> Avenue
- Roundabout/Traffic Circle at SW 144<sup>th</sup> Street and SW 84<sup>th</sup> Avenue
- Realignment of Intersection to the south at SW 144<sup>th</sup> Street and SW 79<sup>th</sup> Avenue
- Roundabout/Traffic Circle at SW 144<sup>th</sup> Street and SW 74<sup>th</sup> Avenue

Since the completion of this traffic calming study, the poles carrying the overhead electrical lines were replaced with larger structures. Village staff expressed concern that these new, larger poles may affect the feasibility of constructing the four devices listed above as the cost to relocate these new poles is prohibitive. Further, Village staff requested that Marlin Engineering develop a prioritization plan to identify which device(s) should be constructed first to maximize the traffic calming benefit along the SW 144<sup>th</sup> Street corridor.

A field review was conducted with Village staff of the SW 144<sup>th</sup> Street corridor to visually assess the potential impact the new, larger overhead electrical line poles located along the south side of the corridor may have upon the proposed traffic calming devices. At SW 87<sup>th</sup> Avenue and SW 79<sup>th</sup> Avenue, the new, larger poles appeared to intrude upon the conceptual design of the traffic calming device. Further, possible intrusion within the limits of the device's design may occur at SW 84<sup>th</sup> Avenue and SW 74<sup>th</sup> Avenue. In the absence of a survey providing an exact location of these new, larger overhead electrical poles on the south side of the corridor, it is difficult to determine the extent of their impact if they would need to be relocated from their current position. Therefore, we recommend that a survey be conducted to locate the positions of these new, larger poles from east of US-1 to east of SW 74<sup>th</sup> Avenue. To provide the Village with a general estimate of this work effort, Marlin surveying crews would require approximately one day in the field. The equivalent fee for such an effort would be approximately \$2,000.

In addition to assessing the potential impact the new overhead electrical poles may have upon the implementation of the devices, a field assessment was performed to determine which location should have the highest implementation priority. Intersections near signalized locations enjoy a natural calming effect from the red light of the signal, which meters the traffic discharge upstream of the subject intersection. As a result, travel speeds tend to be lower than at an isolated location with no metering from an upstream traffic signal. Also, the elimination of long, tangent sections of corridor where motorists have the opportunity to increase their speed is typically the objective of most traffic calming projects. With these two concepts to guide prioritizing the implementation of the four traffic calming devices, it is recommended that the two devices located in the middle of the subject section (the intersection realignment at SW 79<sup>th</sup> Avenue and the roundabout at SW 84<sup>th</sup> Avenue) be constructed first, followed by the devices at the end of the corridor (the roundabout at SW 87<sup>th</sup> Avenue and the roundabout at SW 74<sup>th</sup> Avenue).

The prioritization of each of the four devices is listed below with the highest priority listed first.

- Priority #1: Realignment of Intersection to the south at SW 144<sup>th</sup> Street and SW 79<sup>th</sup> Avenue
- Priority #2: Roundabout/Traffic Circle at SW 144<sup>th</sup> Street and SW 84<sup>th</sup> Avenue
- Priority #3: Roundabout/Traffic Circle at SW 144<sup>th</sup> Street and SW 74<sup>th</sup> Avenue
- Priority #4: Roundabout/Traffic Circle at SW 144<sup>th</sup> Street and SW 87<sup>th</sup> Avenue

#### **CONCLUSIONS**

Since the completion of the traffic calming study for the SW 144<sup>th</sup> Street corridor in November 2006, the structures supporting the overhead electrical lines have been replaced with larger poles. Between SW 87<sup>th</sup> Avenue and SW 74<sup>th</sup> Avenue, these poles appear to possibly intrude within the footprint of four designed traffic calming devices. We recommend locating the position of these poles relative to the designed traffic calming devices via a professional survey. In addition, at Village staff's request, we have identified which of the four traffic calming devices should receive priority to be constructed. The numerical listing is noted above. While all four devices will provide some measure of traffic calming to reduce travel speeds and cut-through traffic along the corridor, the devices located within the middle of study corridor would provide the most benefit relative to the other devices.