

## MEMORANDUM

Agenda Item No. 11(A)(2)

**TO:** Honorable Chairwoman Rebeca Sosa  
and Members, Board of County Commissioners

**DATE:** April 8, 2014

**FROM:** R. A. Cuevas, Jr.  
County Attorney

**SUBJECT:** Resolution directing the County Mayor to conduct a study, in coordination with all Miami-County Departments involved in public improvements and having capital projects, industry professionals, regarding the effective use of geographic information consultants and engineers in connection with all public improvements and capital projects of the county and prepare a report for this Board within 90 days

Resolution No. R-348-14

The accompanying resolution was prepared and placed on the agenda at the request of Prime Sponsor Commissioner Bruno A. Barreiro.



R. A. Cuevas, Jr.  
County Attorney

RAC/Imp



**MEMORANDUM**  
(Revised)

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Please note any items checked.

- "3-Day Rule" for committees applicable if raised
- 6 weeks required between first reading and public hearing
- 4 weeks notification to municipal officials required prior to public hearing
- Decreases revenues or increases expenditures without balancing budget
- Budget required
- Statement of fiscal impact required
- Ordinance creating a new board requires detailed County Mayor's report for public hearing
- No committee review
- Applicable legislation requires more than a majority vote (i.e., 2/3's \_\_\_\_, 3/5's \_\_\_\_, unanimous \_\_\_\_ ) to approve
- Current information regarding funding source, index code and available balance, and available capacity (if debt is contemplated) required

Approved \_\_\_\_\_ Mayor  
Veto \_\_\_\_\_  
Override \_\_\_\_\_

Agenda Item No. 11(A)(2)  
4-8-14

RESOLUTION NO. R-348-14

RESOLUTION DIRECTING THE COUNTY MAYOR TO CONDUCT A STUDY, IN COORDINATION WITH ALL MIAMI-DADE COUNTY DEPARTMENTS INVOLVED IN PUBLIC IMPROVEMENTS AND HAVING CAPITAL PROJECTS, INDUSTRY PROFESSIONALS, REGARDING THE EFFECTIVE USE OF GEOGRAPHIC INFORMATION CONSULTANTS AND ENGINEERS IN CONNECTION WITH ALL PUBLIC IMPROVEMENTS AND CAPITAL PROJECTS OF THE COUNTY AND PREPARE A REPORT FOR THIS BOARD WITHIN 90 DAYS

**WHEREAS**, Miami-Dade County annually undertakes many public improvements including, but not limited to, constructing and repairing buildings, bridges, water and sewer lines, parking lots and garages, streets, traffic signals, water and sewage facilities, and other capital projects (“Capital Projects”); and

**WHEREAS**, Miami-Dade County sometimes lacks updated, accurate information regarding the precise location of underground utilities including water and sewer lines, telecommunications lines, power lines, gas lines, and other underground infrastructure (“Underground Information”); and

**WHEREAS**, by Resolution R-431-13, Miami-Dade County through its Seaport Department entered in a contract with Woolpert, Inc., a Geographic Information Survey (“GIS Information”) consultant, to provide Underground Information to the Seaport in connection with improvements planned to be constructed at the Port of Miami ; and

**WHEREAS**, Miami-Dade County is under a federal mandate to repair and/or replace certain sewer and water lines owned by the County; and

**WHEREAS**, GIS Consultants provide GIS Information at four differing degrees of cost and accuracy (collectively “GIS Service Levels”); and

**WHEREAS**, at times, the high density and congestion of subsurface utilities, or the presence of critical utility infrastructure, in areas such as downtown intersections, business districts, and heavily developed areas in the County, may make a determination of horizontal field identification desirable, using Subsurface Utility Engineering (“SUE”) in accordance with standards of the American Society of Civil Engineers Standards, such as CI/ASCE 3-02. Typically, the SUE standards require the use of three dimensional Radar Tomography (“SUE Standard B”), or, if conflicts between planned projects and existing utilities are known to be present, non-mechanical excavation techniques, such as hand digging and vacuum extraction, (“SUE Standard A”) may be utilized; and

**WHEREAS**, this Board finds it to be in the best interest of the County to study the utilization of GIS consultants to provide Underground Information in connection with Capital Projects in order to minimize construction disruptions and additional costs caused by having outdated and inaccurate Underground Information,

**NOW, THEREFORE, BE IT RESOLVED BY THE BOARD OF COUNTY**

**COMMISSIONERS OF MIAMI-DADE COUNTY, FLORIDA, that:**

**Section 1.** The foregoing recitals are incorporated in this Resolution and are approved.

**Section 2.** This Board finds that the use of surveys by GIS consultants on appropriate Capital Projects to be in the best interest of the County.

**Section 3.** This Board directs the County Mayor to work with County engineering and other technical staff in County Departments, as well as GIS professionals in the private

sector, to (1) conduct a study to determine (a) when it is economically efficient to use GIS consultants to obtain Underground Information, and (b) what GIS Service Level and/or SUE Service Level is appropriate considering all relevant factors including, but not limited to, the Project's overall estimated cost, the costs of the differing GIS and/or SUE Service Levels, the time needed to complete the Project, the quality and date of any as-built or other drawings the County may already have, and the density and complexity of any surrounding development, and to (2) draft a report to be given to this Board within 90 days of the effective date of this Resolution disclosing the results of the study.

The Prime Sponsor of the foregoing resolution is Commissioner Bruno A. Barreiro. It was offered by Commissioner **Sally A. Heyman**, who moved its adoption. The motion was seconded by Commissioner **Rebeca Sosa** and upon being put to a vote, the vote was as follows:

	Rebeca Sosa, Chairwoman		<b>aye</b>
	Lynda Bell, Vice Chair		<b>aye</b>
Bruno A. Barreiro	<b>aye</b>	Esteban L. Bovo, Jr.	<b>aye</b>
Jose "Pepe" Diaz	<b>absent</b>	Audrey M. Edmonson	<b>aye</b>
Sally A. Heyman	<b>aye</b>	Barbara J. Jordan	<b>aye</b>
Jean Monestime	<b>aye</b>	Dennis C. Moss	<b>aye</b>
Sen. Javier D. Souto	<b>aye</b>	Xavier L. Suarez	<b>aye</b>
Juan C. Zapata	<b>aye</b>		

The Chairperson thereupon declared the resolution duly passed and adopted this 8<sup>th</sup> day of April, 2014. This resolution shall become effective ten (10) days after the date of its adoption unless vetoed by the Mayor, and if vetoed, shall become effective only upon an override by this Board.



MIAMI-DADE COUNTY, FLORIDA  
BY ITS BOARD OF  
COUNTY COMMISSIONERS

HARVEY RUVIN, CLERK

By: **Christopher Agrippa**  
Deputy Clerk

Approved by County Attorney as  
to form and legal sufficiency.

A handwritten signature in black ink, appearing to read "Richard C. Seavey", written over a horizontal line.

Richard C. Seavey