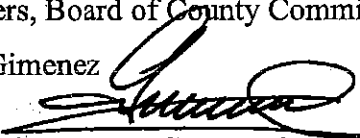


# Memorandum



**Date:** February 19, 2020

**To:** Honorable Chairwoman Audrey M. Edmonson  
and Members, Board of County Commissioners

**From:** Carlos A. Gimenez  
Mayor 

**Subject:** Fifth Amendment to a Contract between Miami-Dade County and Kimley-Horn and Associates for the People's Transportation Plan Project Entitled Advanced Traffic Management System Increasing the Contract Amount by \$2,500,000 and Authorizing the Use of Charter County Transportation Surtax Funds for Such Purposes

Agenda Item No. 8(N)(3)

## **Recommendation**

It is recommended that the Board of County Commissioners (Board) approve the attached resolution authorizing the fifth amendment to a contract between Miami-Dade County (County) and Kimley-Horn and Associates (KHA) increasing the contract amount by \$2.5 million to provide support to traffic signal timing engineering, active traffic management, transit signal priority and continued software maintenance and support services for the countywide Advanced Traffic Management System Project (ATMS). This project is funded in part through the Charter County Transportation Surtax; therefore, approval by the Board and the Citizens' Independent Transportation Trust (CITT) is required.

This contract award recommendation is placed for Committee review pursuant to County Code Section 29-124(f). This request may only be considered by the Board of County Commissioners (Board) if the Citizens' Independent Transportation Trust (CITT) has forwarded a recommendation to the Board prior to the date scheduled for Board consideration or 45 days have elapsed since the filing with the Clerk of the Board of this contract award recommendation. If the CITT has not forwarded a recommendation and 45 days have not elapsed since the filing of this award recommendation, a request a withdrawal of this item will be submitted.

## **Scope**

This project is countywide; therefore, it benefits all Commission Districts. The ATMS is listed in Exhibit 1 of the original PTP Ordinance under Major Highway and Roadway Improvement Projects.

## **Fiscal Impact/Funding Source**

This contract amendment increases the total compensation by \$2.5 million to a total of \$21.41 million. Funding is available from Charter County Transportation Surtax Bond Proceeds and Road Impact Fees as programmed within the Department of Transportation and Public Works (DTPW) Multi-Year Capital Budget (FY 2019-20 Adopted Capital Project No. 608400). There are no recurring operation or maintenance costs anticipated through the amendment of this agreement.

### **Track Record/Monitor**

The County is supervising, monitoring and inspecting all aspects of the ATMS's implementation, deployment and administration. Mr. Frank Aira, P.E., Chief, Traffic Signals & Signs Division, DTPW, is responsible for this project.

### **Background**

Traffic Control or Traffic Management Systems are powerful tools for effective and efficient management and coordination of traffic signals, allowing for the more efficient use of an existing roadway's capacity. The goal of coordinating traffic signals is to create a progression of vehicle platoons through a corridor at the prevailing speed and have the traffic signals "cascade" in sequence so that the platoons do not need to stop or slow down. In November 2002, as part of the People's Transportation Plan, the voters of Miami-Dade County approved the development and implementation of a new and modern Traffic Management System to replace the Urban Traffic Control System (UTCS) implemented in 1975. In 2004, DTPW determined that identifying and purchasing a product that was already successfully operating in a major metropolitan area over a period of a few years would be the most practical and expeditious approach. As a result, DTPW conducted an extensive study of existing traffic management system products including reviewing responses to a Request for Information, lengthy telephone interviews and field-visits to jurisdictions around the country with similar systems already installed. The system known as KITS®, developed and owned by KHA, was determined to be the best system available.

On July 7, 2005, the Board approved a contract with KHA to replace the obsolete UTCS with a modern ATMS platform and to migrate all of the County's traffic signals to the new system. Under this effort, the County has invested nearly \$46 million upgrading the traffic signals and traffic management systems. While KITS is still an effective and powerful traffic management system, traffic signals and management systems have experienced significant technological improvements in the last seven years, with many new technologies like adaptive traffic signal controls and connected vehicles still emerging and evolving. The continued growth of the County and the evolution of technology, specifically in adaptive traffic control and SMART technologies, has resulted in the DTPW exploring and implementing new systems.

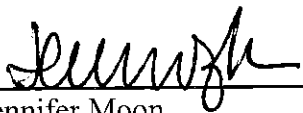
The original contract award of \$9 million was approved by the Board on July 7, 2005 through Resolution R-876-05. This amount was increased by \$2.16 million under Amendment #1, approved by the Board on January 21, 2010 through Resolution R-42-10, by \$3.9 million under Amendment #2, approved by the Board on January 26, 2012 through Resolution R-97-12 and by \$3.85 million under Amendment #4, approved by the Board on June 21, 2016 through Resolution R-575-16. Amendment #3, approved by the Board on July 1, 2014 through Resolution R-612-14 provided for a two (2) year extension of time with no additional funding. The fourth amendment was anticipated to be the final contract amendment to provide the DTPW with the ability to introduce new technologies and traffic management tools while maintaining and updating the KITS system for up to the next five (5) years.

After Hurricane Irma, KHA was utilized to supplement County staff in efforts to restore traffic signals and efficient traffic movement. KHA assisted the County in programming, coordinating and tracking restoration efforts with the Florida Department of Transportation (FDOT), Florida Power and Light (FPL) and contractors. As traffic signals were restored, KHA and County

Engineers continually inspected, monitored and adjusted traffic signal timing to accommodate reduced traffic capacity due to road and lane closures, power restoration and debris cleanup efforts. KHA invoiced the County \$1.7 million for this work, which is a portion of the expense submitted for reimbursement from FEMA.

KHA has also been utilized to support County Traffic Engineers with the Quality Assurance/Quality Control of the signal data migration and new equipment testing to assure a safe and seamless transition in the traffic signal operations as we implement the next phase of the ATMS. KHA was also tasked with a review of the traffic signal operation and adaptive configurations at critical intersections, including the South Dade Transitway, to assist in the implementation of Transit Signal Priority to fine tune the systems for improved traffic mobility. KHA invoiced the County \$1.6 million for this effort.

Through an audit of the project, it was discovered that the initial work orders for this contract from 2005 and 2006 in the amount of \$325,000 were not applied to this contract. The correction resulted in a reduction in the available contract capacity. Based on the above work and the audit adjustment, taking into account remaining capacity, an amendment for \$2.5 million is necessary.

  
\_\_\_\_\_  
Jennifer Moon  
Deputy Mayor



**MEMORANDUM**  
(Revised)

**TO:** Honorable Chairwoman Audrey M. Edmonson  
and Members, Board of County Commissioners

**DATE:** February 19, 2020

**FROM:** Arigail Price-Williams  
County Attorney

**SUBJECT:** Agenda Item No. 8(N)(3)

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
- \_\_\_\_\_ Statement of social equity 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 present \_\_\_\_, 2/3 membership \_\_\_\_, 3/5's \_\_\_\_, unanimous \_\_\_\_, CDMP 7 vote requirement per 2-116.1(3)(h) or (4)(c) \_\_\_\_, CDMP 2/3 vote requirement per 2-116.1(3)(h) or (4)(c) \_\_\_\_, or CDMP 9 vote requirement per 2-116.1(4)(c)(2) \_\_\_\_ ) 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. 8(N)(3)  
2-19-20

RESOLUTION NO. \_\_\_\_\_

RESOLUTION AUTHORIZING EXECUTION OF A FIFTH AMENDMENT TO THE CONTRACT BETWEEN MIAMI-DADE COUNTY AND KIMLEY-HORN AND ASSOCIATES TO PROVIDE ADDITIONAL FUNDING IN THE AMOUNT OF \$2,500,000.00 FOR THE PEOPLE'S TRANSPORTATION PLAN PROJECT ENTITLED ADVANCED TRAFFIC MANAGEMENT SYSTEM INCLUDED IN EXHIBIT ONE OF THE ORIGINAL PEOPLE'S TRANSPORTATION PLAN

**WHEREAS**, this Board desires to accomplish the purposes outlined in the accompanying memorandum, a copy of which is incorporated herein by reference,

**NOW, THEREFORE, BE IT RESOLVED BY THE BOARD OF COUNTY COMMISSIONERS OF MIAMI-DADE COUNTY, FLORIDA**, that this Board approves this contract amendment of the existing contract between Miami-Dade County and KHA providing an additional funding in the amount of \$2,500,000.00 for the continued support, maintenance, and enhancement of the Advanced Traffic Management System, in substantially the form attached hereto and made a part hereof; authorizing the County Mayor or County Mayor's designee to execute same for and on behalf of Miami-Dade County and to exercise the provisions contained therein; and authorizing the use of Charter County Transit Surtax funds.

The foregoing resolution was offered by Commissioner ,  
who moved its adoption. The motion was seconded by Commissioner and  
upon being put to a vote, the vote was as follows:

- |                                |                      |
|--------------------------------|----------------------|
| Audrey M. Edmonson, Chairwoman |                      |
| Rebeca Sosa, Vice Chairwoman   |                      |
| Esteban L. Bovo, Jr.           | Daniella Levine Cava |
| Jose "Pepe" Diaz               | Sally A. Heyman      |
| Eileen Higgins                 | Barbara J. Jordan    |
| Joe A. Martinez                | Jean Monestime       |
| Dennis C. Moss                 | Sen. Javier D. Souto |
| Xavier L. Suarez               |                      |

The Chairperson thereupon declared the resolution duly passed and adopted this 19<sup>th</sup> day of February, 2020. This resolution shall become effective upon the earlier of (1) 10 days after the date of its adoption unless vetoed by the County Mayor, and if vetoed, shall become effective only upon an override by this Board, or (2) approval by the County Mayor of this Resolution and the filing of this approval with the Clerk of the Board.

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

HARVEY RUVIN, CLERK

By: \_\_\_\_\_  
Deputy Clerk

Approved by County Attorney as  
to form and legal sufficiency.



Bruce Libhaber

**AMENDMENT NO. 5 TO THE MIAMI-DADE COUNTY ATMS SYSTEM INTEGRATOR  
CONTRACT**

This Amendment No. 5 to the contract is made and entered into this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_, by and between Miami-Dade County, a political subdivision of the State of Florida, hereinafter referred to as the "COUNTY," and KIMLEY-HORN AND ASSOCIATES, INC., hereinafter referred to as the "SYSTEM INTEGRATOR".

**WITNESSETH:**

WHEREAS, pursuant to Resolution No. R-876-05 approved by the Board of County Commissioners on July 07, 2005, the parties hereto entered into a Contract retaining the SYSTEM INTEGRATOR for the provision, installation, and implementation of a new Advanced Traffic Management System (ATMS), and providing a maximum compensation of \$9,000,000.00 for all professional services required during the implementation of the current phase of the project and a contract period of five (5) years and authorized the Director to extend this Agreement on a bi-annual basis for up to two (2) additional two-year periods;

WHEREAS, pursuant to Resolution No. R-42-10 approved by the Board of County Commissioners on January 21, 2010, the parties hereto entered into a Contract amendment extending the SYSTEM INTEGRATOR contract by two years to allow for the continued provision, installation, and implementation of the new Advanced Traffic Management System (ATMS), and providing for a maximum compensation of

**\$11,160,000.00 for all professional services required during the implementation of the current phase of the project;**

**WHEREAS, pursuant to Resolution No. R-97-12 approved by the Board of County Commissioners on January 24, 2012, the parties hereto entered into a Contract amendment extending the SYSTEM INTEGRATOR contract by two years to allow for the continued provision, installation, and implementation of the new Advanced Traffic Management System (ATMS), and providing for a maximum compensation of \$15,145,000.00 for all professional services required during the implementation of the current phase of the project;**

**WHEREAS, pursuant to Resolution No. R-612-14 approved by the Board of County Commissioners on July 1, 2014, the parties hereto entered into a Contract amendment extending the SYSTEM INTEGRATOR contract by two years to allow for the continued provision, installation, and implementation of the new Advanced Traffic Management System (ATMS);**

**WHEREAS, pursuant to Resolution No. R-575-16 approved by the Board of County Commissioners on January 26, 2016, the parties hereto entered into a Contract amendment extending the SYSTEM INTEGRATOR contract by five years to allow for the continued support, upgrades, and maintenance of the Advanced Traffic Management System (ATMS), and providing for a maximum compensation of \$18,910,000.00 for all professional services and software required;**

**WHEREAS, the County requires for the SYSTEM INTEGRATOR to provide continued system and operations support, project management, software updates, additional system functionality, integration with new equipment and systems, etc. these additional services being described in the accompanying memorandum, a copy of which is incorporated herein by reference;**



WHEREAS, Miami-Dade County is hosting Superbowl LIV in 2020 and requires for the SYSTEM INTEGRATOR to provide continued system and operations support, as well as traffic management and planning support for all related events;

WHEREAS, the successful completion of these additional services requires additional contract capacity in the amount of \$2,500,000.00;

NOW, THEREFORE, in consideration of the mutual desires of the parties hereto, the following modifications are made to the aforementioned Agreement:

**SECTION V – COMPENSATION**

**Subsection E. Maximum Compensation**

Shall read as follows:

Both parties agree that compensation will only be made for work specifically authorized in writing by the COUNTY. The total of all fee payments to the SYSTEM INTEGRATOR under this Agreement shall not exceed \$21,410,000.00. The COUNTY at its discretion may supplement this amount with additional funds as required.

**EXHIBIT D – CATEGORY BILLING RATES**

Is deleted in its entirety and replaced with the new Exhibit D attached.

In all other respects, except as previously amended; the original Agreement shall remain unchanged and in full force and effect.

IN WITNESS THEREOF, the parties hereto have caused this Fifth Amendment to the Contract to be executed by their appropriate officials as of the date first entered above.

ATTEST:  
HARVEY RUVIN  
CLERK OF THE BOARD

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

BY: \_\_\_\_\_  
Deputy Clerk

BY: \_\_\_\_\_  
County Mayor or County Mayor's Designee

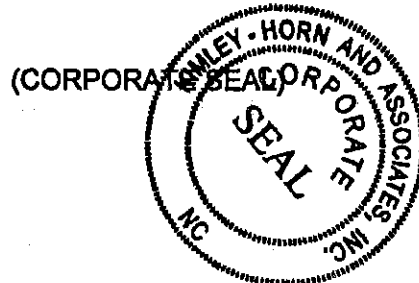
Approved by County Attorney  
as to form and legal sufficiency \_\_\_\_\_  
County Attorney

ATTEST:

KIMLEY-HORN AND ASSOCIATES, INC.  
a Corporation authorized to transact  
business in Florida

By: Stewart E. Robertson  
STEWART ROBERTSON

By: John W. McWilliams, Jr.  
JOHN W. McWILLIAMS, JR.



**EXHIBIT D- CATEGORY BILLING RATES**

**Miami-Dade County ATMS  
System Integrator Contract  
Amendment 5**

**Category Billing Rates**

	<b><u>Negotiated Hourly Billing Rate</u></b>
Analyst / Technical Support	\$ 98.88
CADD Designer	\$120.04
Program Manager	\$334.04
Project Manager	\$247.18
Software Programmer	\$134.18
ATMS/ITS Engineer	\$134.18
Senior Software Programmer	\$176.55
Senior Systems Specialist / Senior Engineer	\$183.63
Support Staff	\$ 77.67
Systems Specialist / Systems Engineer	\$127.11

These billing rates are effective for the FDOT Fiscal year 2019-2020. Escalation of 2% annually will be applicable for each successive FDOT Fiscal year.



Memorandum

**To:** Honorable Chairwoman Audrey M. Edmonson  
and Members, Board of County Commissioners

**From:** Javier A. Betancourt, Executive Director

**Date:** January 30, 2020

**Re: CITT AGENDA ITEM 5A:**  
RESOLUTION BY THE CITIZENS' INDEPENDENT TRANSPORTATION TRUST  
RECOMMENDING THE BOARD OF COUNTY COMMISSIONERS (BCC) AUTHORIZE  
EXECUTION OF A FIFTH AMENDMENT TO THE CONTRACT BETWEEN MIAMI-DADE  
COUNTY AND KIMLEY-HORN AND ASSOCIATES TO PROVIDE ADDITIONAL  
FUNDING IN THE AMOUNT OF \$2,500,000.00 FOR THE PEOPLE'S  
TRANSPORTATION PLAN PROJECT ENTITLED ADVANCED TRAFFIC  
MANAGEMENT SYSTEM INCLUDED IN EXHIBIT ONE OF THE ORIGINAL PEOPLE'S  
TRANSPORTATION PLAN; AND AUTHORIZE THE USE OF CHARTER COUNTY  
TRANSPORTATION SURTAX FUNDS FOR SUCH PURPOSES (DTPW – BCC  
Legislative File No. 193044) SURTAX FUNDS REQUESTED

On January 30, 2020, the CITT voted (9-0) to forward a favorable recommendation to the Board of County Commissioners (BCC) for the approval of the above referenced item, CITT Resolution No. 20-001. The vote was as follows:

Joseph Curbelo, Chairperson – Absent  
Alfred J. Holzman, 1<sup>st</sup> Vice Chairperson – Aye  
Oscar J. Braynon, 2<sup>nd</sup> Vice Chairperson – Aye

Glenn J. Downing, CFP® – Absent  
Prakash Kumar – Aye  
Jonathan Martinez – Absent  
Paul Schwiep, Esq. – Aye  
L. Elijah Stiers, Esq. – Aye

Jose Jimenez – Aye  
Hon. Anna E. Lightfoot-Ward, Ph.D. – Absent  
Miles E. Moss, P.E. – Aye  
Marilyn Smith – Aye  
Robert Wolfarth – Aye

c: Jennifer Moon, Deputy Mayor  
Bruce Libhaber, Assistant County Attorney