

R7 C A RESOLUTION OF THE MAYOR AND CITY COMMISSION OF THE CITY OF MIAMI BEACH, FLORIDA, ACCEPTING THE WRITTEN RECOMMENDATION OF THE CITY MANAGER AND WAIVING BY 5/7TH VOTE, THE FORMAL COMPETITIVE BIDDING REQUIREMENT, AS PERMITTED IN SECTION 2-367(E) OF THE CITY CODE, FINDING SUCH WAIVER TO BE IN THE BEST INTEREST OF THE CITY, AND APPROVING, IN SUBSTANTIAL FORM, A PROFESSIONAL SERVICES AGREEMENT WITH PAVE MOBILITY, INC. TO CONDUCT A ONE (1) YEAR PILOT PROGRAM FOR THE IMPLEMENTATION OF AN AUTOMATED PARKING ENFORCEMENT SYSTEM, PURSUANT TO THE RECOMMENDATION OF THE FINANCE AND ECONOMIC RESILIENCY COMMITTEE, AT ITS APRIL 19, 2024 MEETING, AT THE FOLLOWING FOUR (4) MUNICIPAL PARKING LOTS: P-12 (900 WASHINGTON AVENUE), P-13 (1000 WASHINGTON AVENUE), P-16 (1262 COLLINS AVENUE), AND P-71 (4621 COLLINS AVENUE).

Applicable Area:

# MIAMI BEACH

## COMMISSION MEMORANDUM

TO: Honorable Mayor and Members of the City Commission

FROM: Eric Carpenter, City Manager

DATE: March 19, 2025

TITLE: A RESOLUTION OF THE MAYOR AND CITY COMMISSION OF THE CITY OF MIAMI BEACH, FLORIDA, ACCEPTING THE WRITTEN RECOMMENDATION OF THE CITY MANAGER AND WAIVING BY 5/7TH VOTE, THE FORMAL COMPETITIVE BIDDING REQUIREMENT, AS PERMITTED IN SECTION 2-367(E) OF THE CITY CODE, FINDING SUCH WAIVER TO BE IN THE BEST INTEREST OF THE CITY, AND APPROVING, IN SUBSTANTIAL FORM, A PROFESSIONAL SERVICES AGREEMENT WITH PAVE MOBILITY, INC. TO CONDUCT A ONE (1) YEAR PILOT PROGRAM FOR THE IMPLEMENTATION OF AN AUTOMATED PARKING ENFORCEMENT SYSTEM, PURSUANT TO THE RECOMMENDATION OF THE FINANCE AND ECONOMIC RESILIENCY COMMITTEE, AT ITS APRIL 19, 2024 MEETING, AT THE FOLLOWING FOUR (4) MUNICIPAL PARKING LOTS: P-12 (900 WASHINGTON AVENUE), P-13 (1000 WASHINGTON AVENUE), P-16 (1262 COLLINS AVENUE), AND P-71 (4621 COLLINS AVENUE).

### **RECOMMENDATION**

The City Administration ("Administration") recommends that the Mayor and City Commission ("City Commission") adopt the Resolution.

### **BACKGROUND/HISTORY**

On December 14, 2022, the City Commission referred an agenda Item (C4 F) to the Finance and Economic Resiliency Committee ("FERC" or "Committee") for discussion regarding the use of technological capabilities to complement and enhance the operations of the City of Miami Beach ("City") Parking Department, including the issuance of citations and preventing the abuse of disabled parking permits.

On February 17, 2023, the FERC discussed an item regarding technological capabilities to complement and enhance the operations of the Parking Department including the issuance of citations and preventing the abuse of disabled parking permits. Representatives of PAVE Mobility, Inc. ("PAVE Mobility"), a technology company that offers a camera-based license plate recognition ("LPR") system for data collection and parking payment enforcement, were recognized to speak and presented information about their system. The PAVE Mobility LPR System (PAVE System") employs cameras placed at parking lot entrances and exits to track vehicle entry and exit times by license plate and compares this information to payment records. The PAVE System helps correlate parking activity with payment activity and can generate data regarding uncollected parking fees as well as issue electronic citations to violators.

At the FERC meeting, the Committee approved a motion to bring before the City Commission a resolution to allow a pilot program with PAVE Mobility for the collection of parking payment data at five (5) municipal parking lots – of which three (3) are in commercial corridors and two (2) in residential areas. The PAVE System was to be installed at the municipal lot located at 4621

Collins Avenue (P-71) as one of the selected lots in a commercial corridor, with the remainder of the lots to be selected by the Parking Department. The pilot program was to be at no cost to the City and PAVE Mobility would cover all costs including, but not limited to, installation, equipment, and integration costs. The City would assist PAVE Mobility with securing permits, as appropriate, and share data to allow the integration with the City's electronic payment systems.

Data collected by the PAVE System during the pilot program was to be shared with the City as the data would be helpful in determining the loss of parking revenue, detecting disabled placard parking permit abuse, scofflaws, and stolen vehicles, and assist the City in making decisions to improve parking enforcement operations and revenue collections. During the pilot program, the data collected would not be used to issue parking citations or fines to violators.

On March 27, 2023, the City Commission adopted Resolution No. 2023-32532 accepting the recommendation of the FERC, at its February 17, 2023 meeting, directing the Administration to implement a limited pilot program with PAVE Mobility with the following parameters established by the FERC: 1) no cost to the City; 2) minimum of three (3) months and a maximum of six (6) months duration; and 3) test the PAVE System to detect payment compliance, disabled placard parking permit abuse, scofflaws, and stolen vehicles at five (5) municipal parking lots - three (3) lots to be located in commercial corridors, including Lot P-71 located at 4621 Collins Avenue, and two (2) lots to be located in residential areas.

On August 10, 2023, a Professional Services Agreement ("Agreement") between the City and PAVE Mobility was executed. Subsequently, on November 13, 2023, Amendment No. 1 to the Agreement was executed, amending Section 3 of the Agreement which required the PAVE LPR Systems to be installed not later than November 15, 2023. The Amendment set the commencement date of the Agreement to the date of the installation of the last LPR System, however, not later than January 1, 2024, and set the end date of the Agreement to not later than June 30, 2024.

On April 3, 2024, the City Commission referred an agenda Item (C4 I) to the FERC requesting the Administration provide an update on the pilot program with Pave Mobility. At the April 19, 2024, FERC meeting, the Administration and a PAVE Mobility representative provided an update on the status of the pilot program. PAVE reported that the PAVE System had been fully installed at the five (5) selected municipal parking lots and was detecting violations and performing as intended. The average payment compliance rate for the five (5) municipal parking lots in the pilot program for the months of February 2024 and March 2024 was approximately 70%. Per PAVE Mobility, the potential citation revenue based on the number of customers who did not pay for parking at the lots during this two (2) month period was estimated to be approximately \$1.9 million. It is important to note that the violations detected by the PAVE System included residents as well as disabled placard parking permit holders. During the meeting, the FERC unanimously passed a motion recommending to extend the pilot program with PAVE Mobility for one (1) year to include up to four (4) municipal parking lots throughout the City. The new pilot program would include issuing electronic citations and charging fees for detected parking violations/non-payments. The FERC also recommended that during the new one (1) year pilot program, City residents not be issued citations for violations/non-payment; however, registered residents would be charged the \$1.00 per hour resident rate for the duration of the violation/non-payment period.

Given the Agreement with PAVE Mobility for the initial six (6) month pilot program expired on June 30, 2024, City Commission approval of a waiver of the formal competitive bidding requirement is required to re-engage PAVE Mobility under a new Agreement for a new pilot program.

Several meetings have been held among the Parking Department staff, City Attorney's Office, and PAVE Mobility to discuss the scope, operational parameters, and pricing options for a new

one (1) year pilot program, as recommended by the FERC. Attachment A includes the Draft Term Sheet provided by PAVE Mobility for a new pilot program. Attachment B includes the Professional Services Agreement with PAVE Mobility, in substantial form.

## **ANALYSIS**

Off-street parking facilities within the City include parking garages and lots. Garages are gated, necessitating patrons to pay the parking fee for the gate arms to lift, allowing the vehicle to exit. Municipal parking lots, however, are not gated and thus are more vulnerable to parking violations. Parking Enforcement Specialists use either a handheld or vehicle-mounted LPR device to scan vehicle license plates and ascertain parking payment status. Non-payment of parking fees can result in the issuance of a \$36 parking citation. It is important to note that from each \$36 citation issued in Miami Beach, once paid, the City receives \$24 in revenue and Miami-Dade County receives \$12 in revenue.

Automated parking enforcement systems, such as PAVE Mobility, can significantly enhance the efficiency of parking enforcement operations and result in increased number of citations issued and increased revenues to the City. The PAVE System utilizes cameras positioned at parking lot entrances and exits, along with software that tracks vehicle entry and exit times via license plates, ascertains parking payment status, generates information regarding uncollected parking fees, and can electronically issue and mail citations to violators. The implementation of an automated parking enforcement system, such as the PAVE System, in municipal parking lots will allow the Parking Department to more efficiently reallocate its limited enforcement staffing resources from parking lots to other areas in need of greater enforcement throughout the City, including residential parking permit zones, freight loading zones, and on-street parking in commercial areas.

Under a new Agreement for a one (1) year pilot program, PAVE Mobility will conduct automated enforcement for non-payment of parking fees at the following four (4) municipal parking lots: P-12 (900 Washington Avenue); P-13 (1000 Washington Avenue); P-16 (1262 Collins Avenue); and P-71 (4621 Collins Avenue). The PAVE System seamlessly integrates with both the Miami-Dade County Clerk of Courts' citation issuance system and the City's virtual parking permit and electronic payment systems, and includes a comprehensive automated parking enforcement system with the following capabilities: vehicle license plate recognition, violation detection, Department of Motor Vehicle ("DMV") records search, electronic citation issuance and mailing, and real-time parking violation and lot utilization data reporting and analytics.

Specifically, the PAVE System is comprised of:

- **LPR Cameras:** High-resolution cameras will be strategically installed at parking lot entrances and exits to capture vehicle license plates.
- **Violation Detection Software:** PAVE Mobility software will automatically read and recognize license plates, cross-check them against all payment platforms and parking permit systems and databases to identify potential violations including non-payment, overstaying parking time limits, and expired or invalid parking permits.
- **DMV Records Search:** The PAVE System integrates with third parties and/or directly with the DMV to obtain accurate vehicle ownership information, ensuring citations are correctly issued and mailed to the registered owner of the vehicle in the event a violation is identified.
- **Parking Citation Issuance and Reporting:** Upon detecting a violation, the PAVE System will automatically generate a parking citation with all necessary details, including license plate number, vehicle description, date/time of violation with photos of vehicle entry/exit; location of violation, type of violation/statute violated, and citation amount.

- PAVE Mobility will perform DMV records searches and mail the parking citations.
- The PAVE System will integrate with the Miami-Dade County Clerk of Courts to record the citation in the Miami-Dade County system where it can be paid or disputed/adjudicated within the County Clerk's existing citation processing system.
- **Robust Reporting and Business Intelligence System:** PAVE Mobility will provide comprehensive reports and analytics to gain valuable insights into parking activity, violation trends, and revenue collection. Reports can be customized and generated on various metrics, including number of vehicles parked versus number of citations issued by location and violation type, revenue collected from transient payments as well as citation revenue, and parking space utilization rates.

PAVE Mobility will manage the full deployment and implementation process, including site surveys, camera installations, PAVE System configuration and integration with the DMV, Miami-Dade County Clerk of Courts, and City databases, and conduct user trainings for Parking Department staff on the operation of the PAVE System for real-time parking data, statistics, and trends, generating parking and violation reports and parking data analytics.

#### KEY TERMS

The City and PAVE Mobility have mutually agreed to the following proposed fee structure for a 12-month pilot program to be implemented at the aforementioned four (4) municipal parking lots:

- |   |                |
|---|----------------|
| ● Owner ID and mailing fee to PAVE Mobility per citation paid*: | \$ 1.85        |
| ● <u>Fee to PAVE Mobility per citation paid:</u>                | <u>\$ 8.20</u> |
| Total fee to PAVE Mobility per citation paid:                   | \$ 10.05       |

Based on the proposed fee structure, the City would be required to pay PAVE Mobility \$10.05 from the \$24 the City receives in revenue from each \$36 parking citation paid; thus, the City would keep \$13.95 in net revenue per \$36 citation paid. This represents a revenue share of approximately 58% City/42% PAVE Mobility.

PAVE Mobility shall be entitled to receive its fees ONLY for those citations that result in payment to the City. In addition, PAVE Mobility assumes the risk of loss of the Owner ID and mailing fee in the event of non-payment for any reason for any citation issued by PAVE Mobility.

PAVE Mobility shall not mail citations to owners of vehicles that (1) reflect a Miami Beach address on the vehicle registration; (2) are registered with the City's residential parking program; or (3) are registered with the City's Disabled Placard Parking Permit Registration Program. Instead, PAVE Mobility will provide all relevant information to the Parking Department regarding parking violations detected with respect to such resident vehicles and the City shall charge \$1.00 per hour (resident rate) for the duration of the violation/non-payment (except for individuals registered with the City's Disabled Placard Parking Permit Registration Program which are not charged for parking in municipal parking lots). PAVE Mobility shall not be entitled to receive the Owner ID and mailing fee or the fee per citation with respect to any charges imposed by the City to the owners of such vehicles.

#### FISCAL IMPACT STATEMENT

Adopting this Resolution authorizing the execution an Agreement with PAVE Mobility for a one (1) year pilot program for the installation of an automated parking enforcement system at four (4) municipal parking lots in the City is anticipated to generate additional revenue to the City. It should be noted that, while this Agreement will result in a revenue share with PAVE Mobility thereby

reducing the City's net revenue share per citation paid, the implementation of automated parking enforcement systems is expected to detect a higher volume of violations and generate an overall higher volume of citations paid as compared to conventional parking enforcement methods via enforcement officers; thus, total net revenue to the City is anticipated to increase as a result of this pilot program.

**Does this Ordinance require a Business Impact Estimate?**

(FOR ORDINANCES ONLY)

**If applicable, the Business Impact Estimate (BIE) was published on:**

**See BIE at:** <https://www.miamibeachfl.gov/city-hall/city-clerk/meeting-notices/>

**FINANCIAL INFORMATION**

N/A

**CONCLUSION**

Automated parking enforcement systems, such as PAVE Mobility, can significantly enhance the efficiency of parking enforcement operations and result in increased number of citations issued and increased revenues to the City. The PAVE System utilizes cameras positioned at parking lot entrances and exits, along with software that tracks vehicle entry and exit times via license plates, ascertains parking payment status, generates information regarding uncollected parking fees, and can electronically issue and mail citations to violators.

Under a new Agreement for a one (1) year pilot program, PAVE Mobility will conduct automated enforcement for non-payment of parking fees at the following four (4) municipal parking lots: P-12 (900 Washington Avenue); P-13 (1000 Washington Avenue); P-16 (1262 Collins Avenue); and P-71 (4621 Collins Avenue).

Residents would not be issued citations for violations/non-payment; however, registered residents would be charged the \$1.00 per hour resident rate for the duration of the violation/non-payment period, except for individuals registered with the City's Disabled Placard Parking Permit Registration Program which are not charged for parking in municipal parking lots.

The Administration recommends that the City Commission adopt the Resolution, waiving by 5/7<sup>th</sup> vote, the formal competitive bidding requirement, and approving, in substantial form, the Professional Services Agreement with PAVE Mobility, Inc. for a one (1) year pilot program for the implementation of an automated parking enforcement system, pursuant to the recommendation of the FERC at its April 19, 2024 meeting, at the aforementioned four (4) municipal parking lots.

**Applicable Area**

Citywide

**Is this a "Residents Right to Know" item, pursuant to City Code Section 2-17?**

Yes

**Is this item related to a G.O. Bond Project?**

No

**Was this Agenda Item initially requested by a lobbyist which, as defined in Code Sec. 2-481, includes a principal engaged in lobbying?** Yes

If so, specify the name of lobbyist(s) and principal(s): Rafael E. Andrade

**Department**

Parking

**Sponsor(s)**

Commissioner Tanya K. Bhatt

**Co-sponsor(s)**

**Condensed Title**

Waive Bidding/Approve PSA w/ PAVE Mobility, Enforce Non-Payment at (4) City Parking Lots.  
(Bhatt) PK 5/7

**Previous Action (For City Clerk Use Only)**

## ATTACHMENT A



### MIAMI BEACH PILOT PROGRAM TERM SHEET

Comprehensive License Plate Recognition (LPR) Parking Enforcement System with Violation Detection, DMV Lookup, Citation Mailing and Reporting

#### Introduction

This proposal outlines a comprehensive License Plate Recognition (LPR) parking enforcement system designed to streamline parking enforcement, increase violation detection, increase payment compliance for parking sessions and citations, and better allocate staff resources to areas that require manual enforcement (i.e. residential zones, freight-loading zones, etc.).

#### System Components

- LPR Cameras: At PAVE's sole cost and expense, high-resolution cameras will be strategically installed at parking lot entrances and exits to capture license plates.
- Violation Detection Software: PAVE's advanced software will automatically read and recognize license plates, cross-check them against all payment platforms and credentialed parkers to identify potential violations such as:
  - Non-payment
  - Overstaying parking time limits
  - Expired or invalid parking permits
- DMV Lookup: PAVE's system integrates with third parties and/or directly to Department Motor Vehicles (DMV) to obtain real-time vehicle ownership information, ensuring accurate citations are issued in the event of a violation is detected.
- Parking Citation Issuance and Reporting
  - Upon detecting a violation, PAVE's system will automatically generate a parking citation with all necessary details, including:
    - License plate number
    - Vehicle description
    - Date and time of violation with photos of vehicles' entries/exits
    - Location of violation
    - Type of violation/statute violated
    - Citation amount
  - PAVE will perform DMV lookup and mail citation.
  - PAVE's system will integrate with Miami-Dade County Clerk of Court to push the citation into the Clerk's system where it can be paid or disputed/adjudicated within the Clerk's existing citation processing system.





- Robust Reporting and Business Intelligence System:
  - PAVE will provide comprehensive reports and analytics to gain valuable insights into parking activity, violation trends, and revenue collection.
  - Reports can be customized and generated on various metrics such as:
    - Number of vehicles parked versus number of citations issued by location and violation type
    - Revenue collected from transient payments as well as citation revenue
    - Parking space utilization rates
  - These insights can be used to optimize parking operations, identify areas for improvement, and make data-driven decisions for enhanced enforcement strategies.

#### Implementation and Training

PAVE will handle the entire implementation process, including:

- Site survey and camera installation
- System configuration and integration with DMV database
- User training for Parking Department staff on the system operation

#### Costs (assumes only 4 parking lots)

<b><u>Option 1</u></b> <b>12 Month Pilot</b>	<b><u>Option 2</u></b> <b>24 Month Pilot</b>	<b><u>Option 3</u></b> <b>36 Month Pilot</b>
Owner ID & Mailing per citation - \$1.85	Owner ID & Mailing per citation - \$1.85	Owner ID & Mailing per citation - \$1.85
Total Per Paid Citation - \$8.20	Total Per Paid Citation - \$6.35	Total Per Paid Citation - \$5.73

#### Benefits of PAVE's LPR System

- Increased Efficiency: Automates the citation issuance process, freeing up staff time for other tasks.
- Improved Accuracy: Reduces human error in license plate recognition and citation issuance.
- Enhanced Revenue Collection: Streamlines the payment process and increases collection rates.
- Reduced Administrative Costs: Eliminates manual data entry and paperwork associated with citations.
- Real-Time 24/7 Enforcement: Enables real-time detection of violations, including scofflaws, for immediate action.
- Data-Driven Decisions: Provides valuable insights to optimize parking management strategies.