

REQUEST FOR PROPOSALS FOR
RFP No. 21-03
Parking Access and Revenue Control Equipment
Center City Garages 2021

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PART I

GENERAL INFORMATION TO OFFERORS

SUMMARY	
When:	Proposals must be submitted by Friday, June 25, 2021 no later than 2:00 PM.
Where:	Philadelphia Parking Authority Attention: Mary Wheeler, Manager Contract Administration 701 Market Street, Suite 5400 Philadelphia, PA 19106
How:	Proposals must be delivered by emailing one pdf file that is password protected to Mary Wheeler, mwheeler@philapark.org by Friday, June 25, 2021 no later than 2:00 PM. The subject line of the e-mail must be "RFP No. 21-03 Parking Access and Revenue Control Equipment - Center City 2021." A hard copy will also be required and will be accepted after the due date as long as the proposal is received via email prior to June 25, 2021 at 2:00 PM.
Mandatory Pre-Proposal Meeting and Site Visit	<p>A mandatory Pre-Proposal Meeting will be held on Monday, May 17, 2021 at 11:00 AM. This meeting will be virtual through GoToMeeting. Information is below:</p> <p>Pre-Bid/Pre-Proposal Meeting</p> <p>Please join my meeting from your computer, tablet or smartphone. https://global.gotomeeting.com/join/763758101</p> <p>You can also dial in using your phone. United States (Toll Free): 1 866 899 4679 United States: +1 (312) 757-3117</p> <p>Access Code: 763-758-101</p> <p>New to GoToMeeting? Get the app now and be ready when your first meeting starts: https://global.gotomeeting.com/install/763758101</p> <p>Offerors must attend the pre-proposal meeting in order to be eligible to participate in this solicitation.</p>
Anticipated Schedule of Events*	<p>Thursday, May 6, 2021 RFP Released</p> <p>Monday, May 17, 2021 at 11:00 AM Mandatory Pre-Proposal Meeting</p> <p>Monday, June 7, 2021 at 2:00 PM Offeror Questions Due</p> <p>Friday, June 11, 2021 Final Addendum Issued</p> <p>Friday, June 25, 2021 at 2:00 PM Proposals Due</p> <p>Week of July 19, 2021 Offeror Presentations</p> <p>Tuesday, August 24, 2021 Recommendation for Contract Award</p> <p>*All times and dates are subject to change.</p>

I-1. Introduction.

This Request for Proposals (“RFP”) is being issued by the Philadelphia Parking Authority, (“Authority”), a body corporate and politic created under the laws of the Commonwealth of Pennsylvania in accordance with the Act of June 19, 2001, P.L. 287, No. 22, as amended, known as the “Parking Authority Law”. The Authority is soliciting written proposals from qualified Offerors for the procurement of an integrated Parking Access and Revenue Control System (PARCS) for all Off-Street parking garages owned and operated by the Authority. As a Request for Proposals, this is not an invitation to bid and although price is important, other pertinent factors will be taken into consideration.

I-2. Mission Statement.

The mission of the Authority is to contribute to the economic vitality of Philadelphia and the surrounding region by effectively managing and providing convenient parking on the street, at the airport, and in garages and lots; effectively operating a system of red-light camera enforcement; regulating taxicabs, limousines and transportation network companies; and other transportation-related activities.

A number of customer-focused actions flow from the Authority’s mission:

- Improving cooperation and planning with Authority stakeholders, including state and local transportation partners,
- Implementing cutting-edge technology to improve the customer experience and enhance overall management and agency efficiency,
- Emphasizing employee training on industry best practices,
- Maximizing transparency in hiring and procurement,
- Implementing on-street parking management policies that address neighborhood needs throughout the City,
- Encouraging reasonably priced off-street parking through rate setting policies at seven Authority Center City facilities,
- Maintaining and improving neighborhood parking lots to address both residential and commercial demand,
- Providing leadership in partnering with private and public hospitality and tourism entities to enhance the visitor experience,
- Applying the latest technology for a superior customer experience at the parking facilities at Philadelphia International Airport in support of this important regional economic engine,
- Encouraging safe, clean, reliable taxicab, limousine and transportation network company service through sound regulations and consistent enforcement,
- Improving vehicle and pedestrian safety at targeted intersections through automated red light enforcement,
- Applying latest technology and continuing staff development to provide the highest quality public service with maximum efficiency.

I-3. Procurement Questions.

Prospective Offerors are encouraged to submit questions concerning the RFP in writing no later than 2:00 PM on Monday, June 7, 2021. Questions concerning this RFP are to be submitted via email to Mary Wheeler at mwheeler@philapark.org with “RFP No. 21-03 Parking Access and Revenue Control Equipment - Center City” listed in the subject line. Only questions submitted in writing will be addressed. The Authority will answer all questions in writing to all prospective Offerors. Any furnished answers will not be official until they have been verified, in writing, by the Authority. The Authority will not be bound by any verbal information or will it be bound by any written information that is not contained within the RFP or formally issued as an addendum by the Authority. The Authority does not consider questions to be a protest of the specifications or of the solicitation.

I-4. Clarification of Instructions.

Should the prospective Offeror find a discrepancy in or an omission from the RFP, or should they be in doubt as to the meaning of any term contained therein, the Offeror may notify Mary Wheeler, Manager of Contract Administration via email at mwheeler@philapark.org prior to the question deadline. All questions and clarification requests will be

responded to via written addendum that will be emailed to all prospective Offerors. Addenda will also be posted to the Authority's website, www.philapark.org.

I-5. Restrictions of Contact.

From the issue date of this RFP until the Authority's Board approves the awarding of the contract, **Mary Wheeler is the sole point of contact concerning this RFP.** Any violation of this condition may be cause for the Authority to reject the offending Offeror's proposal. If the Authority later discovers that the Offeror has engaged in any violations of this condition, the Authority may reject the offending Offeror's proposal or rescind its award. Offerors must agree not to distribute any part of their proposals beyond the Authority. An Offeror who shares information contained in its proposal with other Authority personnel and/or competing Offeror personnel may be disqualified.

I-6. Proposal Conditions.

Proposals must be delivered by emailing one pdf file that is password protected to Mary Wheeler, mwheeler@philapark.org by Friday, June 25, 2021 no later than 2:00 PM. The subject line of the e-mail must be "RFP No. 21-03 Parking Access and Revenue Control Equipment - Center City 2021." A hard copy will also be required and will be accepted after the due date as long as the proposal is received via email prior to June 25, 2021 at 2:00 PM.

I-7. Small and Small Diverse Business Requirements.

The Authority is continually looking for opportunities available for growth and advancement among small and small diverse businesses through contracts to provide products, services or construction to the Authority. Offerors must identify their status as a small and/or small diverse business by completing the Small and Small Diverse Business Participation Submittal form included in the Proposal Form along with a copy of their Small Business Procurement Initiative certificate issued from the Pennsylvania Department of General Services. Offerors and subcontractors can self-certify by following the links below:

<http://www.dgs.pa.gov/Businesses/Small%20Business%20Contracting%20Program/Pages/default.aspx>,
<http://www.dgs.pa.gov/Businesses/Small%20Diverse%20Business%20Program/Small-Diverse-Business-Verification/Pages/default.aspx>.

I-8. Signatures Required.

The proposals *must* be signed in all spaces where signatures are required in the original copy. In cases of corporation, the signature must be that of a duly authorized officer of the corporation and officer's title must be stated. In cases of partnerships, the signature of a general partner must follow the firm name, using the term "A Member of Firm." In cases of an individual use the term "dba" (Company Name) or as sole owner.

I-9. Instructions for Affidavit of Non-Collusion.

1. The Non-Collusion Affidavit is material to any contract awarded through a public solicitation.
2. This Non-Collusion Affidavit must be executed by the member, officer or employee of the Offeror who makes the final decision on terms and prices identified in the proposal.
3. Bid rigging or collusion and other efforts to restrain competition, and the making of false sworn statements in connection with the submission of bids are unlawful and may be subject to criminal prosecution. The person who signs the Affidavit below should examine it carefully before signing and assure himself or herself that each statement is true and accurate, making diligent inquiry, as necessary, of all other persons employed by or associated with the Offeror with responsibilities for the preparation, approval or submission of the proposal.
4. In the case of a proposal submitted by a joint venture, each party to the venture must be identified in the proposal documents, and an Affidavit must be submitted separately on behalf of each party.
5. The term "complementary proposal" as used in the Affidavit has the meaning commonly associated with that term in the request for proposal process, and includes the knowing submission of proposals higher

than the proposal of another firm, any intentionally high or noncompetitive proposal, and any other form of proposal submitted for the purpose of giving a false appearance of competition.

6. Failure to file an Affidavit in compliance with these instructions will result in disqualification of the proposal.

I-10. Executed Contract Required.

By submitting a proposal in response to this RFP the Offeror agrees that the Authority will not be bound to any contract, performance or payment obligation until the Authority's Board votes to award a contract to the successful Offeror and the Authority's Executive Director signs the written contract.

I-11. Business Licenses:

The proposal must include the Offeror's Philadelphia Commercial Activity License (formerly Business Privilege License) number and the Offeror's Federal Tax ID number. If the Offeror does not currently have a Philadelphia Commercial Activity License, it must obtain one within five days of being notified of selection. If the Offeror does not believe that it needs a Philadelphia Activity License, an explanation with references to statute and/or the Philadelphia Code should be included with the proposal.

I-12. Rejection or Acceptance of Proposals.

An Evaluation Committee comprised of Authority employees will review all proposals. Discussions may be conducted with responsible Offerors for the purpose of clarification and of obtaining best and final offers. Responsible Offerors will be accorded fair and equal treatment with respect to any opportunity for discussion and revision of proposals. In conducting discussions, there will be no disclosure of any information derived from proposals submitted by competing Offerors.

The responsible Offeror whose proposal is the highest ranking, taking into consideration price and all evaluation factors, will be selected for contract negotiation. In the event the negotiations reveal that the proposal selected for negotiation is not the most advantageous or the Offeror selected for negotiation defaults or withdraws from negotiation, the Evaluation Committee may select the next highest ranking proposal, taking into consideration price and all evaluation factors, for contract negotiation. The Authority may cancel the RFP and reject all proposals at any time prior to award by the Board.

The Authority reserves the right to waive any irregularities in the completion of the forms and papers enclosed in this schedule; to accept or reject any or all proposals; to re-advertise for proposals if desired, and to accept any proposal which, in the judgment of the Authority, will be in the Authority's best interest.

Any form which is required to be submitted and which is incomplete, conditional, obscure, contains additions not called for and not approved by the Authority, or which contains irregularities of any kind, may be cause for rejection of the proposal, in the sole discretion of the Authority. At any time up to the hour and date set for opening of proposals, an Offeror may withdraw its proposal. Such withdrawal must be in writing and sent to the Authority at the address set forth herein by a nationally recognized overnight courier service, certified mail, return receipt requested, or delivered in person. Such withdrawal will be effective only upon receipt by the Authority evidenced by written confirmation of such receipt and will preclude the submission of another proposal by such Offeror. After the scheduled time for opening of proposals, no Offeror will be permitted to withdraw their proposal, and each Offeror hereby agrees that their proposal will remain firm for the contract period. A proposal made and opened may be withdrawn with the written permission of the Authority, if the Authority determines in its sole discretion that the proposal is inconsistent with the best interest of the Authority.

I-13. Unacceptable Proposals.

No proposal will be accepted from or selection made of any person, firm or corporation that is in arrears or in default to the Authority upon any debt or contract, or whose insurer or banking institution is in default as surety or otherwise upon any obligation to the Authority, or has failed in the sole opinion of the Authority to faithfully perform any previous contract with the Authority.

I-14. Subcontracting, Key Personnel, and Experts.

Subcontracting, assignment, or transfer of all or part of the interest of the company that is awarded a Contract or in the work covered by this Contract is prohibited and void without the prior written approval of the Authority. In the event such consent is given, the terms and conditions of this Contract will apply to and bind the party or parties to whom such work is subcontracted, assigned, or transferred as fully and completely as the awarded Offeror is hereby bound and obligated and the awarded Offeror must obtain written acknowledgement thereof from all subcontractors.

I-15. Notification of Offeror Selection.

The Authority will study and evaluate all proposals which are received in accordance with the instructions set forth in the RFP and may select an Offeror and notify all other Offerors of the selection within sixty (60) days after the date the proposals are opened. Such notice must be in writing and mailed (or emailed) to the address furnished by each respective Offeror in the Transmittal Letter. The selected Offeror will not start the performance of any work prior to the effective date of the Contract and the Authority will not be liable to pay the selected Offeror for any service or work performed or expenses incurred before the effective date of the Contract. Costs incurred by the Offeror in the preparation of the proposal or during any review or negotiations will be born exclusively by the Offeror.

I-16. Standard Practices.

All work performed under the contract will be subject to inspection and final approval by the Authority, through the Executive Director or his designee.

I-17. Document Disclosure.

While documents exchanged by or with the Authority or its agents during this process may be protected from public release by certain terms of Pennsylvania's Right to Know Law (65 P.S. §§67.101–67.3104), Pennsylvania's Procurement Code, or other laws, many documents may not be protected. All Offerors are advised to seek counsel or otherwise educate themselves regarding open records requirements in Pennsylvania.

The Offeror(s) selected for contract negotiation are required to submit to the Authority a redacted proposal pursuant to Pennsylvania's Right to Know Law. The redacted proposal will be available to the public prior to presentation to the Authority's Board of Directors for award.

I-18. Statement of No Proposal.

All Prospective Offerors that do not intend to submit a proposal are asked to complete the Proposal Decline Form enclosed in the proposal documents. This document must be emailed to the attention of Mary Wheeler, Manager of Contract Administration at mwheeler@philapark.org. Specific comments and observations are encouraged.

I-19. Shipping and Delivery.

The Offeror will be responsible for all shipping and delivery costs of the specified items required to support the proposal.

I-20. Performance Bond and Labor and Materials Bond.

The successful Offeror, prior to the commencement of work under the contract, will be required to furnish a faithful Performance Bond in an amount equal to one hundred percent (100%) of the Contract Amount and a Labor and Material Payment Bond equal to one hundred percent (100%) of the Contract Amount; said bonds must be from a surety company satisfactory to the Philadelphia Parking Authority and qualified to do business in Pennsylvania. The surety executing the bonds must be included in the listing of acceptable sureties contained in Treasury Department Circular 570, as most recently revised, and the amount of the bond must not exceed the underwriting risk of such surety forth in said circular or revision thereof.

The Surety executing the bonds shall have a minimum A.M. Best Rating of A-; Class VII or higher.

Should any surety upon such bonds become unsatisfactory to the Philadelphia Parking Authority, the contractor must promptly furnish such additional security as may be required from time to time to protect the interests of the Philadelphia Parking Authority.

Performance Bond and Labor and Material Bonds will be executed on Standard AIA Document A312 (Version 2010) in accordance with the terms of the contract. Each set of bonds executed must include a Power of Attorney evidencing to the Philadelphia Parking Authority of the Attorney-In-Fact to execute bonds and the latest statement of assets and liabilities with an authorized signature from Surety Company.

I-21. Prevailing Wages and Benefits.

Current prevailing wages and benefits for the industry and trade will be paid at all times for the duration of this project. Upon an award, the Prime Contractor is required to obtain current prevailing wage rate determinations applicable to this project (Serial # 21-00284) from the PA Department of Labor and Industry Enterprise Portal at:

https://linkprotect.cudasvc.com/url?a=https%3a%2f%2fwww.dlsecureweb.pa.gov%2fPrevWage%2fPages%2fProject.aspx%3fid%3d140794%26PageType%3d&c=E,1,-fJAfdhplVltsknyH1bKAvdK3CaHglG01ympamFR8YuaS-nUENneztQe7nooRp5OLLh3husS1_X2oxlZPClcvLYe9rJ078kRaeSpwQpc0-DJ9U2AKOP0uA,,&typo=1

I-22. Certified Apprenticeship Program Participation.

All bidders must meet the qualification standards by certifying that it participates, directly or through its labor for each craft or trade, in an approved Apprenticeship Program which is currently registered with the U.S. Department of Labor or a state apprenticeship agency for each craft or trade that will be engaged in the Work.

The Philadelphia Parking Authority will rely on the U.S. Department of Labor personnel assigned to oversee apprenticeship programs in Pennsylvania and, if necessary, on the appropriate Pennsylvania Department of Labor personnel assigned to the relevant apprenticeship programs.

PART II

INFORMATION REQUIRED FROM OFFERORS

II-1. Proposal Format.

All proposals submitted must conform to the following format requirements. A transmittal letter signed by a person authorized to engage the Offeror in a contract must be included in your proposal. Proposals must be submitted on letter size (8 ½" x 11") paper. The point size font for text must be 10 to 12, and 6 to 8 for exhibits. All documents must contain a one-inch margin. For exhibits, 11x17 paper is acceptable. An electronic version of the Proposal Form can be provided to all prospective Offerors upon request. Forms that are altered by the Offeror may be grounds for rejection of the Offeror's response.

The tab requirements are as follows:

- Tab A Transmittal Letter
- Tab B Qualifications and Experience
- Tab C Technical Response
- Tab D Key Personnel
- Tab E Proposal Form
- Tab F Certificate of Insurance
- Tab G Financial Statements
- Tab H Proposed Amendments to Contract Terms
- Tab I Proposed Installation Schedule
- Tab J PCI DSS Attestation of Compliance
- Tab K Consent of Surety for Performance Bonds and Labor and Materials Bonds

II-2. Transmittal Letter (Tab A).

Submit a cover letter, signed by an authorized principal or agent of the Offeror, which provides an overview of the respondent's proposal, as well as the name, title, email address and phone number of the person to whom the Authority may direct questions concerning the proposal. Include a statement by the Offeror accepting all terms and conditions contained in this RFP, signed by an officer or individual with authority to bind the company.

The letter must also include any projects that were not completed with an explanation of the circumstances that lead to the non-completion.

II-3. Qualifications and Experience (Tab B).

A. Proposer's Minimum Qualifications:

1. In continuous operations for previous five (5) years.
2. Primary components installed in three (3) or more local parking facilities of similar size and complexity in the past three (3) years. Provide the following for each installation.
 - a. Name of project.
 - b. Location.
 - c. Contact name, title, telephone number and email address.
 - d. Date of installation.
 - e. Number of lanes.
 - f. Description of equipment and quantities.
3. Proven ability to install equipment and provide appropriate and required service and

- support after installation.
- 4. Continuously worked with equipment manufacturer, including providing installations and maintenance, for minimum of three (3) years.
- 5. Approved in writing by PARCS manufacturer(s).
- 6. Documentation of manufacturer's installation training within previous two (2) years.
- 7. Manufacturer approved service center located within two hours driving distance of site.

II-4. Technical Response (Tab C).

Provide a detailed explanation of the Offeror's ability to provide the goods and services detailed in the Work Statement. Each line item of the Work Statement must be addressed either with "compliant", "non-compliant" or with a written response. Any item that is "non-compliant" should have a written explanation or an alternative to the requirement. All exceptions and/or alternatives will be clearly identified and the written explanation will include the scope of the exception, the ramification of the exception for the Authority and a description of the advantages to be gained by the Authority as a result of any exception and/or alternative.

Although the Work Statement in this RFP represents the Authority's anticipated needs, there may be instances in which it is in the Authority's best interests to permit exceptions to the Work Statement and accept alternatives.

II-5. Key Personnel (Tab D).

Provide an Organizational Chart and resumes showing key members of the project team, including all sub-contractors. Provide the names and functions of key project staff that will be assigned to perform the work.

II-6. Proposal Form (Tab E).

The Proposal Form attached as *Appendix A* must be submitted in its entirety (with the exception of the Proposal Decline Form).

II-7. Insurance Requirements (Tab F).

The successful Offeror will be required to submit insurance coverage as outlined in *Appendix C*. Each proposal must include a sample certificate of insurance from a recent project that meets the requirements or a letter from its insurance broker indicating that they will provide the required insurances as outlined in this RFP if awarded a contract. Any objections to or requests for relief from the insurance requirements must be made during the question period.

Insurance Requirements will not be negotiated after proposals are received.

II-8. Financial Statements (Tab G).

Offeror must provide complete financial statements for the last three years, which have been audited or reviewed by an independent Certified Public Accountant who is not an employee of the Offeror. Complete financial statements must include, at a minimum, a balance sheet, income statement, reconciliation of equity, and a cash flow statement. Offeror may only submit one copy of their financial statements either with the original proposal or in a separate envelope marked "confidential".

Provide a summary and the current status of any legal actions, suits, proceedings, claims or investigations with which the Offeror has had or currently has a contractual relationship. The existence of any such pending actions, suits, proceedings, claims or investigations may be a factor considered by the Authority in determining which Offeror should be awarded that contract but will not automatically disqualify the Offeror from consideration. Should there be no legal actions, suits, proceedings, claims or investigations pending with any governmental agency with which the Offeror has had or currently has a contractual relationship, a statement to that effect will be included.

II-9. Proposed Amendments to Contract Terms (Tab H).

If successful, this procurement process will result in the presentation of a completed final-form contract to the Authority's Board for approval at a public meeting. To advance that goal, a sample contract is included in the *Appendix B* section of this solicitation. Please review the sample contract carefully. Any exceptions or requested changes to the contract **must be clearly noted in the proposal** in order to be considered.

Exceptions or requested changes to the sample contract will be considered a **part of the response**. Exceptions or requested changes to the sample contract should be made with great care. The Authority may reject all or some of those changes or exceptions, in its sole discretion.

II-10. Proposed Installation Schedule (Tab I).

1. A detailed schedule of project requirements including milestones for shop drawings, fabrication, delivery, installation, training, transition plan and testing. Milestones include special project requirements related to coordination with work by others and phasing.
2. As a separate sub section, provide a Data Conversion Plan detailing how and in what sequence old components of the existing system will be phased-out and how components of the new system phased-in. Discuss how both systems (new & existing) will operate together until such time that the new system is fully integrated.

II-11 PCI DSS Attestation of Compliance (Tab J).

PCI-DSS Compliant Systems: For all devices and systems that are in scope of PCI-DSS compliance as defined within the latest version of PCI-DSS, provide proof that all such devices are either:

1. A currently validated PA-DSS Application, suitable for new installations, as listed at the PCI-SSC web site.
2. Part of a Level-1 Audited Service Provider payment system. Suitable proof must be a listing on the VISA or MasterCard Service Provider web site, or an audited and signed Attestation of Compliance (AOC) showing a successful Service Provider Audit performed by a Qualified Security Assessor (QSA).

II-12 Consent of Surety for Performance Bonds and Labor and Materials Bonds (Tab K).

Provide consent of surety as described in section I-20.

PART III

CRITERIA FOR SELECTION

III-1. Mandatory Responsiveness Requirements. To be eligible for selection, a proposal must be (a) submitted by an Offeror who was represented at the mandatory pre-proposal meeting; (b) timely received from an Offeror; and (c) properly signed by the Offeror.

III-2. Technical Nonconforming Proposals. The three (3) Mandatory Responsiveness Requirements set forth in Section III-1 above are the only RFP requirements that the Authority will consider to be non-waivable. The Authority reserves the right, in its sole discretion, to waive any other technical or immaterial nonconformities in the proposal or consider the nonconformity in the evaluation of the proposal.

III-3. Proposal Evaluation. Proposals will be reviewed, evaluated and scored by an Evaluation Committee consisting of Authority employees. The Authority will select the Offeror with the highest ranking proposal as determined by the criteria listed below for contract negotiation.

During the evaluation process, the Authority may require an Offeror to answer questions with regard to the proposal. Additionally, the Authority may require Offerors to provide an on-site product demonstration of all equipment and software proposed. The Philadelphia Parking Authority will provide a location for this demonstration at one of its offices. The Offeror will be required to identify their requirements for power upon scheduling of this demonstration. The Authority will not be responsible for any type of payment for this demonstration related to travel, subsistence or any other related cost for the Offeror to demonstrate their equipment for evaluation.

III-4. Evaluation Criteria. The Authority determined that it was not advantageous for it to use a bidding process for this procurement because it wished to consider criteria other than price in the award process, in particular, the Offeror's proposed PARCS features, capabilities, support services, innovations and value added components .

Proposals will be evaluated consistent with the requirements of this RFP as follows:

CATEGORY	DESCRIPTION	WEIGHT
Technical Solution	Best technical solution, system architecture, features, concept, design, flexibility, security (physical and data)	20%
Provider Qualifications	Quality of key personnel, resources committed to the project, references, experience of personnel and subcontractors participating in the work, resources and experience for integrations/interfaces, experience similarity in size and scope of Authority PARCS, training approach and resources, installation and post-installation level of support and financial stability Level and quality of resources, commitment to Authority and US market, willingness to develop, innovation and financial stability	20%
Cost	The Authority is not bound to select the Offeror who proposes the lowest cost	25%
Project	Installation timeline, schedule comprehensiveness, project sequencing, implementation plan, ability to meet the design and installation schedule/integrations/interfaces	20%
Responsiveness of the proposal	Adherence to the requirements set forth in the RFP	5%
Small and Small Diverse Business	Submitted Small Business Procurement Initiative certificates by either the Offeror or subcontractors	10%

PART IV

WORK STATEMENT

IV-1. Objectives

A. General

The Philadelphia Parking Authority is issuing this Request for Proposals (RFP) for the procurement of an integrated Parking Access and Revenue Control System (PARCS) for all Off-Street parking garages owned and operated by the Authority. The Authority expects this complete parking conversion to improve overall parking efficiency, increase system productivity, reduce system downtime and enhance customer service.

Background & Current Environment

The Philadelphia Parking Authority currently uses HUB/ZEAG Parking Access and Revenue Control System (PARCS) in all of its Off-Street parking facilities. Each garage has its own LAN that does not communicate with any outside resources. The system has ticket issuing mag-stripe readers, entry and exit terminals with RFID pads for HID cards. The system also has “V-ticket” capability which allows patrons to enter and exit with the same credit card. The PARCS system is hosted locally on a Windows Server at each garage. All servers are physical with serial connections to all garage PARCS equipment. All reporting is done onsite via VPN/RDP or a local workstation. The system includes all hardware and software needed to provide an operational parking management system. However, this system is outdated and needs to be replaced as soon as possible.

In addition to the current antiquated PARCS, there are several short-term and long-term concerns for the Authority that need to be addressed by the future manufacturer/distributor. Some of these concerns include:

1. Software support, preventive and required maintenance, and ongoing training.
2. Compliance with statutory and financial institutions requirements (e.g., PCI & EMV).
3. Service calls (hardware and software) especially after the end of the equipment warranty period.
4. Spare parts kept on PPA site(s). Recommended spare parts will be identified as an add/alternate.
5. System upgrade needs due to constantly changing parking industry requirements.
6. System and feature upgrades needed to support changes in payment industry and related demands/expectations from users/parkers.
7. Technology improvements and enhancements.
8. Protection of parking system from hackers. In recent years, the Parking and IT industries have experienced an increase in system break-ins from hackers.
9. Potential loss of equipment value due to lack or absence of proper and well-maintained PARCS operating system.

It is important for the Authority to procure and maintain a solution that will allow for scalability for the growth in size and complexity into the future, as well as a system that can be deployed effectively and expeditiously in the current environment. The Offerors will be required to integrate equipment communication systems and use one back-end management system, as

defined in the following specifications. The Work of this Section will include furnishing all material, equipment, labor and supervision (Design-Build) to install in place a fully turnkey and completely functional Parking Access and Revenue Control System (PARCS) as specified herein. The removal and proper environmental disposal of all existing equipment will be the responsibility of the Offeror. Included will be the supply, delivery, unloading, setting, anchoring, electrical and control wiring installation, electrical and control wiring termination, start up and testing the system, and all associated equipment. Also included will be on-site training for Authority staff as described further in this RFP.

The Authority is the current operator at all garages for which this RFP addresses. The current monthly parking A/R system is Authority custom code that will require integration. The Authority's custom code is under review and the new systems must be able to script an EXPORT of CSV revenue data that will be ingested by a custom system currently undergoing a re-write.

The Authority currently uses Parkmobile for its pay-by-phone services for on-street metered parking.

The Authority currently uses Heartland Payment Systems. The Authority is and will continue to be Merchant of Record.

The Authority is not currently contracted or utilizing parking pre-purchase services, but this service is in fact a requirement of this RFP.

Parking Facility Information (all locations are equipped with one office terminal for non-regular transactions)

- **Autopark at Olde City – Five (5) Levels; Business Hours: Open 24/7**
 - 125 South 2nd Street – 615 Spaces
 - 3 Ticket dispensers with HID and Intercom
 - 2 Express exits with HID and Intercom
 - 3 Cash/Credit/Coin pay stations with Intercom
 - Oversize Vehicle area with 1 ticket dispenser with HID and Intercom and 1 express exit with HID and Intercom
- **Autopark at Independence Mall – Three (3) levels underground; Business Hours: Open 24/7**
 - 41 North 6th Street – 612 Spaces
 - 2 Ticket dispensers with HID and Intercom
 - 2 Express exits with HID and Intercom
 - 4 Cash/Credit/coin pay stations with Intercom
 - 6th Street pedestrian door HID/MAG stripe reader - Inactive but hardware still present. To be replaced per Door Reader specification and made fully functional (turnkey) by offeror.
- **Parkade on 8th – Six (6) levels; Business Hours: Open 24/7**
 - 801 Filbert Street – 1,222 Spaces
 - 4 Ticket dispensers with AVI, HID and Intercom
 - 4 Express exits with AVI, HID and Intercom
 - 1 Express exit with reversible AVI, HID and Intercom (8th Street exit)
 - 3 Cash/Credit/Coin pay stations with Intercom
 - 2 AVI, HID and Intercom nested lanes

- 1 reserved area without PARCs equipment/infrastructure (No entry and exit TIM, AVI, HID or Intercom)
- Van accessible
- **Autopark at The Fashion District (Gallery Mall) – Eight (8) levels; Business Hours: Mon – Sun, 6am to Midnight**
 - 44 North 9th Street – 850 Spaces
 - 2 Ticket dispensers with AVI, HID and Intercom
 - 3 Express exits with AVI, HID and Intercom
 - 4 Cash/Credit pay stations with Intercom
- **Autopark at Jefferson (10th Streets and Ludlow) – Five (5) levels; Business Hours: Daily, 5am to 11pm (price as add/alternate)**
 - 14-18 South 10th Street - 450 Spaces
 - 1 Entry lane with 2 TIMS (Redundant) with HID and Intercom
 - 2 Express exits with HID, Intercom and redundancy
 - 2 Cash/Credit/Coin pay stations with Intercom
 - 1 Door reader for lobby (west side door) Filbert Street side
- **The Family Courthouse Garage – Three (3) levels underground; Business Hours: Mon – Fri, 5:30am to 11pm; Sat and Sun, 6am to 10pm**
 - 1503-11 Arch Street - 265 Spaces
 - 1 Ticket dispensers with AVI, HID and Intercom
 - 1 Express exit with AVI, HID and Intercom
 - 1 reversible middle lane with AVI, HID and Intercom
 - 2 nested lanes with roll down gate. AVI, HID and Intercom hardware but HID inactive/not functioning
 - 2 Cash/Credit/Coin pay stations with Intercom
 - AVI, HID and Intercom at garage door (roll down gate) with security system/PARCs - HID usage for entry only, cannot exit using HID
- **The Gateway Garage – Grade plus Eleven and One-half (11.5) levels; Business Hours: 24/7/365 (price as add/alternate)**
 - 3 entry lanes with 3 gates, 3 ticket dispensers and 3 proximity card readers
 - 3 exit lanes with 3 gates, 3 exit verifiers and 3 proximity card readers

B. Specific

The Authority desires to properly collect parking revenues from its parking facilities based on best industry practices, maintain its PARCS hardware and software on a long-term basis, and provide a high level of customer service to its current and future customers. The Authority has initiated a replacement program of all existing off-street PARCS. The Offerors will provide all necessary PARCS hardware, software, installation and related services for the Authority. In addition to the architecture considerations and functionality noted below, the new PARCS solution must be ADA compliant, flexible and scalable to allow for the changing nature of the Authority's environment. The desired PARCS will operate via web browser, function on all mobile platforms, possess intuitive user management, accommodate location-based and on-line sales, include interactive reporting, and provide multiple media access, such as barcode, HID, AVI, Smart Phone, NFC Access, QR Code, LPR, all third-party online reservations, The Offeror's system will seamlessly accommodate third-party payment

options such as SpotHero, Park Whiz, Park Mobile, *the PPA's website*, etc. Include remote programming for holidays, special events, dynamic rates, or other changes via a web-based management system that is easily used/changed. Programming for flat rate payment, such as for special events. The capability for demand-based pricing structures is strongly desired. Ability for the display to include rates per hour and other customizable messages and graphics.

Cash Acceptor at Pay-on-Foot (POF) stations, at minimum, must accept \$1, \$5, \$10, and \$20's. POF stations must have a cash escrow to allow consumers to cancel the transaction at any time and have funds returned. POF stations must contain local memory that can record transactions when communications to the central server are lost. After communications are restored, POF stations will transmit cached data. POF stations should store card numbers for offline processing as allowed with PCI compliance. The software must allow for manual and automatic entry of credit cards into a bad credit card file. POF stations must automatically adjust their internal clocks for Daylight Savings Time changes. POF stations must possess ticket scanning technology as ticket ingestion is not acceptable.

Provide specifications and costs for POF stations to support RFID readers that accept contactless payments, including but not limited to Apple Pay, Google Pay, Visa PayWave and MasterCard Pay Pass credit cards to quickly, securely, and conveniently complete a parking transaction. The solution must have an option of paying for parking via mobile phone and QR code. Offeror must identify the Pay-by-Phone partner with which it integrates and the integration capabilities of that partnership. At a minimum, *Parkmobile* integration is expected. Online validation portal is expected for customers and business to validate tickets on external networks. Event management capabilities to include full function fee computers (central cashiering environment), handheld cashiering devices with PCI/EMV compliant credit card and receipt function, and pricing structure to allow for flat fees during events. All cashiering equipment, including handheld devices, must be able of generating a bar coded receipt for use in "lost ticket" and other similar situations such as a mutilated ticket.

Offerors must provide a description of innovative or unique features, specific to the proposed equipment or implementation approach, which set the Offeror's proposal apart from the other prospective offerings. This could include, but is not limited to add-on features, parking guidance system, video surveillance system, online customer portals, online special event reservations, unique interface components, advertising or marketing ability, etc.

The Offeror will provide a project schedule in GANTT chart format that depicts the start and completion dates and logical relationships for all tasks, and which indicates major project events and milestones by facility. The project schedule will begin upon written notification from the PPA or its Agents and will end upon final system acceptance. The project schedule will include tasks, resources, task durations, task responsibilities, and milestones. The project schedule will include all project tasks performed by all subcontractors. The Offeror will include all tasks that are the responsibility of the PPA, if any, as part of the implementation process.

The Offeror must provide a detailed system conversion plan explaining how the parking operation will convert from its existing system to the new system and accomplish all related conversion activities with minimal interruption to parking operations and PPA activities. It is anticipated that a great deal of this work can be completed during normal business hours (7:00 am until 5:00 p.m.).

All offerors must use prevailing wages labor for all work conducted under this project.

The PPA would like to limit the number of static signs currently present at the entry areas of each facility. These signs include the display of prevailing parking rates and the advertisement of local attractions in the area. The PPA would like to eliminate the static signage program and convert to a dynamic signage program that is capable of being programmed to display multiple messages either on demand or automatically based on time of day, day of week or special event. Signage should also be capable of scrolling between different messages if so desired by the PPA. The preferred vendor for this signage system is Daktronics or pre-approved equal. It is anticipated that all signage will be installed interior of the garage. Signage at the Independence Mall Garage will be handled as an add/alternate and should be indicated as such on the cost forms.

Each of the garages maintain a roll down gate system at the main entrance(s) to the facility. As an add/alternate, offerors are asked to investigate the current condition of the gates and their respective operational control system and propose upgrades to improve reliability. Additionally, the Parkade on 8th Garage presently maintains an area that the PPA would like to convert to premium 24-hr. access parking. This area maintains a roll down gate activated by a manual push button on the interior of the parking area. The PPA would like to convert this operation to an automatically operated roll down using transmitters and antenna/receivers and loops to ensure closure after use inbound or similar type operation. Any equipment offered that requires mounting on the exterior of a facility requires the approval of other agencies outside the PPA. As a result, if equipment is to be mounted on the exterior of the facility, the Offeror is required to work with the PPA to obtain approvals. As this could be a timely and labor-intensive process, it is in the best interest to offer solutions that do not require equipment installed on the exterior of any facility.

Each of the garages currently operates as a stand-alone entity and operational data is not currently sent to a main operational center in real-time. However, the PPA is currently working to establish reliable communication links from each garage to a main PPA monitoring station that will monitor each facility in real-time and have the capability to manually operate systems, including programming signage, from this station. Offerors must supply all hardware and software to accommodate this requirement. Pricing for individual workstation licenses and workstations with sufficient memory and speed will also be offered and identified in the pricing sheet on a per unit pricing basis.

It is the responsibility of the Offeror to conduct proper due diligence to supply a complete and turnkey PARCS system as described in this document. It is the Offerors responsibility to verify all project requirements and quantities required to meet the operational requirements identified by this document and any related addendum that may be issued.

It is the responsibility of each offeror to remove and/or properly terminate any unused or unneeded conduit system. Unneeded conduits will be terminated to a safe overhead location where possible and unneeded surface mounted conduit will be removed and terminated to prevent a tripping hazard as well as allow for deterioration of concrete surface to occur through water infiltration.

Any equipment installation that protrudes past the garage boundaries is subject to approval by the Superintendent of Independence National Historical Park. Based off their determination, further approval may be needed from the Philadelphia Streets Department, the Philadelphia Historical Commission, and the Philadelphia Arts Commission. A definitive letter stating L&I or other local agencies do not have jurisdiction for the project would be

beneficial if there are some issues regarding jurisdiction. If the scope of work does not protrude past our garage boundaries, the work should be permitted.

Costs associated with the approval process may include permits, etc. that is the responsibility of the PPA but will be added as a change order.

National Park Service approval only pertains to the AutoPark @ Olde City and the AutoPark @ Independence Mall.

To the greatest level possible, manufacturers should offer equipment that will be expandable to integrate with artificial intelligence and machine learning expandability as possible, as the PPA views the ability to remain current with its service and equipment over the course of the life of this equipment as critical.

1. Summary of Required PARCS Characteristics

Offeror will meet the following objectives:

- 1.1** Furnish and install a complete system for all off-street parking facilities referenced in this RFP.
- 1.2** Remove and properly environmentally dispose of all existing PARCS equipment prior to the installation of the new PARCS system. Provide a detailed description of how the Offeror will ensure the safe removal, transfer, conversion and sanitization of all data.
- 1.3** The PARCS will be a combination of equipment, sub-systems, and supporting infrastructure that allows a parking facility operator to accurately calculate, collect, track, and report revenues for parking within one or more facilities.
- 1.4** The PARCS must include an integrated accounts receivable (A/R) system capable of being hosted on a main server or in a cloud environment. Offerors must identify the cost of local server hosting as well as cloud-based hosting and provide the advantages of each approach clearly in their submission.
- 1.5** The system must utilize Pay-on-Foot (POF) technology at all facilities for transient parking. POF technology must be configurable to support a minimum of five (5) multiple languages. POF technology will support a variety of payment options, including but not limited to:
 - Cash and Coins
 - Credit Cards
 - Coupons/Validation
 - Pay-by-Phone (currently ParkMobile)
 - Electronic Commerce
- 1.6** The PARCS will also monitor and control entry and exit to and from each facility.
- 1.7** The PARCS will manage facilities that operate 24/7 for monthly and transient parkers, in both an attended (cashier) and unattended fashion.
- 1.8** The PARCS will be sufficiently robust to simultaneously manage facilities with nested areas and provide reporting independently for these areas.
- 1.9** The PARCS will ensure flexibility for any future need to update, upgrade, and/or expand the system readily (either additional lanes or additional facilities).
- 1.10** The PARCS will be fully protected against and not affected by weather/environmental conditions, including temperature extremes, humidity, rain, dust, RFI/EMI, and static electricity and electrical surges.

- 1.11** The PARCS should include Bluetooth Low Energy capability.
- 1.12** The PARCS must include Credit Card In & Out (V-Ticket)
- 1.13** The PARCS must accurately count vehicles entering and exiting facilities, breaking down these counts based on mode used to enter or exit (monthly, transient, event, valet, etc.). Counts for nested areas must be identified separately as part of the total facility number.
- 1.14** The PARCS must have multiple validation offerings, providing the flexibility needed for Authority departments, merchants and other organizations to validate their patron's parking if so desired. Pricing for validation systems should be supplied and identified for online and offline systems.
- 1.15** The PARCS must be able to manage pre-paid special event parking operating in a "real-time" environment.
- 1.16** The PARCS must provide a robust reporting solution for a variety of reports, including a standard missing ticket report.
- 1.17** The PARCS transaction data should include at a minimum:
- Fee computer/TIM/PS, etc. ID number
 - Transaction number
 - Date and time of entrance
 - Date and time of exit
 - Rate structure applied
 - Fee amount
 - Exception transaction identification
 - Validation account identification
- 1.18** The PARCS software must provide the ability for remote access for Authority management.
- 1.19** The PARCS must have the ability to accept payments in an offline mode (ISP outage).
- 1.20** PARCS must comply with all prevailing Americans with Disabilities Act ("ADA") requirements including but not limited to reach ranges, visibility of display screens, clear floor or ground space, and operable parts.

2. Application and Data Servers

- 2.1** The system should include all applicable servers needed for a central reporting dashboard.
- 2.2** Illustrate in detailed nature both the functionality and design of the network.
- 2.3** Provide specifications and description of credit card reader/equipment/appliance which must be EMV chip compatible.
- 2.4** Encryption must occur at the point of interaction (POI) and must be certified PCI-P2PE.
- 2.5** Provide evidence of current PCI PS-DSS Service Provider Attestation of Compliance. This will have to be supplied annually throughout the term of the contract. *EMV compliance is to be offered as base offer.* Offeror must integrate with Heartland Payment Systems (clearinghouse). Offeror must supply all initial and long-term costs related to gateway costs. The Philadelphia Parking Authority will be the merchant of record. Each offeror shall also identify each gateway their system currently works/integrates with.
- 2.6** Provide a description of the redundancy setup as well as expected uptime.
- 2.7** Provide detailed descriptions and diagrams for ALL data transmissions including card and non-card data.

- 2.8** All data stored at any point on the reader/equipment/appliance must be encrypted.
- 2.9** PARCS servers to contain all PARCS application and database software that is associated with PARCS operation, data storage and reports. Software system must be Open Database Compliant.
- 2.10** Offeror will be fully responsible to import any existing customer databases, including but not limited to the existing employee accounts and Authority vehicle AVI accounts into the new PARCS. Should manual entry be required, Contractor will provide the staffing resources to fully complete the manual import.
- 2.11** Install and configure all necessary software on the servers and workstations with all required system software licenses registered to the Authority. Identify per unit price for workstation licenses. The Parking Authority operates on SQL 2019 and Windows based applications. Offerors must supply cost for Cloud based service as an add/alternate. All costs associated with Cloud services over the course of ten (10) years must be identified. Services included with Cloud services must also be identified. Location of Cloud (Amazon, Google, Microsoft, etc.) offered as part of this project must be identified. No on-site personnel solution is acceptable as a part of either on-site server or Cloud services.
- 2.12** Hybrid solution preferred (on-site server with cloud and on-site reporting).
- 2.13** Configure such that the following features and functionalities are attainable:
- 2.13.1** Maintain 24 months of on-line data of all PARCS data. All on-line data will be readily accessible without any delay in processing.
 - 2.13.2** Provide fault tolerance such that no server-level single point of failure causes disruption to the PARCS or corruption of PARCS data.
 - 2.13.3** Contractor will propose a redundancy/fail-safe solution for the entire PARCS environment.
 - 2.13.4** The PARCS will provide mirrored databases that are updated concurrently.
 - 2.13.5** Long Term Storage Media – Must archive all summary data for up to seven (7) years with simple retrieval capability.
- 2.14** The Authority will provide, maintain and monitor the PARCS communications network with the exception of new end of line network devices that are to be provided by the Contractor as specified herein.
- 2.15** The Authority requires Cisco switches L2 or L3 which will become the property of the Authority upon installation whether procured by Authority or Contractor.
- 2.16** The Authority requires SQL 2019/Windows servers which will become the property of the Authority upon installation whether procured by Authority or Contractor (if on-site server solution is chosen). Additionally, the Authority will maintain and monitor the PARCS servers per the Contractor's specifications. Servers must be the most current available compatible with proposed system.
- 2.17** The Authority will provide, maintain and monitor all PARCS workstations per the Contractor's specifications.

3. Reporting

- 3.1** The PARCS software will provide Authority staff, at various levels of access rights, the ability to generate and format custom reports. The PARCS must be able to generate/query reports which can be set by the management users. Please include samples and/or screen shots of all reports in

Proposals. Offerors must provide a minimum of thirty (30) unique customizable software reports used by the PPA now and during the life of the system.

3.2 Available online and on demand for Authority personnel who have proper level restricted password access.

3.3 Viewable, printable, and exportable from the Graphical User Interface (GUI).

3.4 Data compiled in an Open Database Connectivity (ODBC) compliant database with the ability to prepare custom reports using the PARCS data including Microsoft Excel, at a minimum, via a comma-separated-value (CSV) file format.

3.5 Provide the Contractor's PARCS standard reports including report descriptions, selectable data fields, and report layouts for all standard reports.

3.6 Coordinate with the Authority as required during the system design to address the specific reporting needs of the Authority. At a minimum, reports provided will include:

- Cashier Shift Reports detailed and summary.
- Detailed Revenue and Non-Revenue Transactions Reports – Reports of transactions processed through the PARCS by user selectable parameters including user type (ticketed customer or registered user), date/time range, and by device.
- Detailed and Summary Revenue Reports for daily, weekly, and monthly PARCS activity.
- Credit Card Reports – Reports of credit card transactions by user selectable parameters including date/time range, credit card terminal ID, customer last name, credit card type, transactions type (valid online transaction, declined transactions, offline transactions, etc.).
- Outstanding Ticket Reports – Report of parking tickets that have been issued but have not been processed or exited from the system.
- Validation Reports – Detailed and summary reports of validations issued, amount of validations, and when the validation was used, by user selectable parameters.
- System Event Reports – Reports for system generated events by user selectable parameters including PARCS device and date/time range.
- Gate Vend Report – Report showing each gate vend, the location, time, user ID, and sum total for a date/time range.
- Detailed Occupancy Reports with user selectable parameters.
- POF Station Reports.

3.6.11 Entry and Exit Lane Reports.

3.6.12 Validation Reports.

3.6.13 Exception Reports.

3.6.14 Alarm Reports.

3.6.15 Monthly AVI/Badge, etc. Activity Report.

3.6.16 Access Credential Reports – Detailed and summary reports of credential activity for individual credentials or by account number that include the credential number, account number, entry/exit date/time, lane ID, and transaction fee.

3.6.17 Robust ticket summary reports, with ability to query time ranges and detail all tickets and rates of queried tickets processed during that range.

- 3.6.18** Prepare up to 15 custom reports as defined by Authority requirements. Authority and Contractor to coordinate report design and finalize custom reports prior to the expiration of the warranty period.

4. Mode of Operation

4.1 Monthly Parking

- 4.1.1** Monthly patrons will gain access into and out of a gated facility by utilizing their Authority-issued access proximity card, employee ID, or AVI credential. PPA issued employee IDs should be integrated with new HID prox readers mounted on entry and exit devices. An LPR solution should also be offered by Offerors as an add/alternate. It is the responsibility of the Offeror to verify the dimensions and infrastructure required (e.g. island platform lengths, etc.) This credential information will be automatically imported into the PARCS in real time. Access levels will be maintained in the PARCS. The ability to fully automate credential data import and access level controls from an external system should be included in this proposal.
- 4.1.2** Each credential will have a unique ID that allows it to be administered remotely. The Authority's management must be able to access and change the account profile.
- 4.1.3** Each credential will be associated with an account, whereby the account's profile controls the allowable use of the credential.
- 4.1.4** The PARCS will provide the appropriate tools to program and administer credentials from any workstation that can access PARCS, assuming the user has the correct privileges.

4.2 Transient Parking

Describe the process by which daily transient patrons will enter and exit the parking facility. Include methods of payment, validation types and reader capabilities.

4.3 Event Parking

Describe the process the proposed system will utilize to handle Event Parking as described below:

- Standard Operation
- Validated Parking
- Online Reservation/Unmanned Entry
- Pre-pay at Staffed Entry

4.4 Parking Validations - System must have the ability to offer the following forms of validation:

- 4.4.1 On-Line Web Validation** – On-line web validation offers the ability for management to login to a web portal and apply an electronic validation to the patron's barcoded ticket they received upon entering the facility. Upon exiting the facility, the patron uses the barcoded ticket and, upon being read, the system recognizes that an electronic validation has been applied to the ticket.
- 4.4.2 Mobile Device Validation** – The ability for management to issue a parking validation by scanning the barcode on the patron's barcode ticket they received upon entering the facility with management's mobile device (Android and iOS), linked in live-time to the PARCS system via mobile app.
- 4.4.3 Off-Line Validator** – The ability to apply a validation to a barcode ticket received by the patron upon entering the facility by printing a secondary barcode on the ticket, which includes the encoding of that particular validation. Upon exiting, the system scans the ticket barcode,

calculates the fee, then reads the secondary validation barcode on the same ticket and applies the necessary validation. Validation issuance can be tracked by downloading the data from the off-line validator into the PARCS system. Upon downloading, the system will show which validations have been used and which are still outstanding.

In any type of validation process, validations can be in the form of hourly discount, monetary discount, percentage discount or full validation. Generation of and redemption of the validations must be tracked in system in real-time (with the exception of the off-line validator) with the ability to monitor how many validations have been generated or redeemed at any time and reports that give management the ability to bill-back to a department or group if needed.

5. Other Required Features:

5.1 Voice-over-IP (VoIP) intercoms at each device that integrates seamlessly into the Authority's facility management offices.

5.2 All lane devices should be IP addressable for scalability, functionality and control.

5.3 Custom graphic face panels on field equipment (entry stations, exit stations, card reader stations & POF stations) that include Philadelphia Parking Authority specific instructions and branding. PPA will identify the required color of equipment and PPA logo placement on all devices.

5.4 Barcode scanners in entry & exit lanes that provide the ability to scan pre-printed passes, barcode tickets or barcodes from smart phones.

5.5 New embedded vehicle detector loops.

5.6 Two-way, in-lane video intercom. When a monthly credential is used within 5-days before (programmable) an audio announcement must be made to remind user to pay for their credential. The audio announcement must be fully programmable as it relates to content and period of use.

5.7 New communication wiring throughout facilities as applicable.

5.8 New LED lit barrier gates are preferred.

5.9 Marketing Opportunities (sell space for Merchant & Company advertising)

5.10 MeterUp(Authority's mobile payment application)

6. Warranty, Maintenance & Support

6.1 The PARCS will include a factory warranty that equipment is free from defects in design, material, manufacturing and operation. During this period, Offeror will cover all parts & labor costs associated with any defects due to normal operations.

Offerors are asked to provide innovative methods of reducing the cost to the PPA of the extended warranty period over the life cycle of the system in their proposal and related pricing sheets.

6.2 Factory warranty period will be for 24 months from date of documented project substantial completion / sign-off.

6.3 The Installing PARCS Contractor will guarantee the equipment, wire, cable, and installation for 24 months from date of project completion / sign-off.

6.4 The installing PARCS Contractor will provide a quarterly preventive maintenance program on supplied hardware and software for the duration of the manufacturer warranty period. This includes software & firmware updates at no additional charge.

- 6.5** The PARCS Manufacturer will guarantee availability of parts, for minimum of ten (10) years from date of project completion/sign-off.
- 6.6** Offeror will provide an initial 2-year full warranty including all parts and labor and software upgrades at no cost. An option for extended full parts & labor hardware and software coverage for years 3 through 5, year 6, year 7, year 8, year 9 and year 10 will be offered as an add/alternate. This will include a preventative maintenance program and software and firmware updates at no additional charge.
- 6.7** Contractor will provide a 24/7, 365 technical hardware and software support via phone, email and web portal.
- 6.8** Contractor must notify operator a minimum of five (5) business days in advance of any scheduled service interruptions.
- 6.9** Contractor must guarantee a one (1) hour response time to provide notice to the Authority of the discovery or acknowledge receipt of the Authority's notice to Contractor.
- 6.10** Once the parties have been notified, Contractor must within (2) hours provide the Authority with an action plan and, if necessary, conduct an on-site investigation, subject to the Authority's approval, and notice of the point of contact assigned to resolve the issue.
- 6.11** Contractor must guarantee a 24-hour service restoration time to repairing any issue that arises. No hardware or software component will be down longer than 24 hours.
- 6.12** Contractor will utilize a clear service escalation process.
- 6.13** Contractor will provide a detailed list of replacement parts stock which are recommended for Authority to keep on-hand.

7. Training

- 7.1** Contractor will provide both written and on-line training documentation.
- 7.2** The Contractor will conduct on-site training (to be delivered by factory trained personnel) for up to 20 persons employed by the Authority or parking contractor. The class duration will be at least 40 hours in length and will include practical operation and use of installed equipment and project-specific features and options.
- 7.3** Contractor will provide a dedicated manufacturer-trained technician on-site for the first seven (7) days of system go-live, to provide any last-minute training, programming or configuration of system.
- 7.4** The Contractor will conduct up to 40 hours of on-site refresher training within the first year of project sign-off.
- 7.5** The Contractor will conduct technical training sessions once a year for eight (8) hours and make them available to those responsible for on-going system operations.

8. Technical Specifications

- A. Accuracy: Provide the following minimum accuracy levels.
 - 1. Ticket reading: 99%
 - 2. Fee calculation: 99%
 - 3. Transaction counts: 99%
 - 4. Exception counts: 99%
 - 5. Revenue amounts: 99%
 - 6. LPR read rate: 99%

7. Data received and accepted by computer system as valid: 100%
8. Data transmission: Less than one message re-transmission per hour.

B. Equipment Construction: Design and construct all components and equipment with the following:

1. Equipment housings, conduits, and junction boxes exposed to weather (any location not in a conditioned environment) will meet or exceed NEMA 3 or IP65 standards to be moisture-proof and will provide sufficient protection so that the components continue to function without moisture, dust, particle, heat, or cold- related interruption.
2. Durable vandal and weather resistant cabinets, which are able to maintain finish, look, integrity and functionality in the environment in which installed for a period of ten (10) years.
 - a. Mounting holes accessible only from inside of cabinets.
 - b. Hinged cabinet doors that swing clear of bollards, walls, columns and any other obstructions.
 - c. Modular internal components, to extent practical, for easy maintenance and replacement.
3. Corrosion resistant connection boxes for all wiring connections.
4. Control logic and communication capability as necessary and required herein.
5. Compatible communication ports for all communications and connections.
6. Digital controlled time clock and calendar that is updated at least once daily by the system's software system and accurate to one minute per ninety days for all primary components.

C. User Interface: Design and construct the user interface with the following:

1. Ergonomically designed devices and user interface for ease of use by patrons.
2. Pay-on-foot devices must meet all prevailing American with Disabilities Act requirements at time of installation, including but not limited to reach ranges, visibility of display screens, clear floor or ground space, and operable parts.

D. Equipment Communication:

1. All applicable components are microprocessor controlled, in on-line, virtual real-time communication with the software system.
2. All transaction data sent to the software system immediately, with communications hierarchy appropriate to need for action or response from another component, feature or subsystem.
3. All transaction data is available to software system workstations within one minute of completing transaction at any device. Delays or functional degradation resulting from data communication between devices over the software system network is not acceptable.
4. Each primary component communicates complete transaction log to the software system. In event of communication failure, devices must continue to operate in off-line mode and store a minimum of 1,000 transactions, or have sufficient system redundancy, to insure availability of transaction data upon restoration of the software system. In the event of failure during communication, an error-checking and recovery routine is employed to prevent corruption of data files.

E. Future System Expansion:

1. Readily expandable to accommodate additional parking facilities and capable of expansions/enhancements listed below:
 - a. Added pay-on-foot devices to the system.
 - b. Added future License Plate Recognition (LPR) system.
 - c. Added cashiering stations
 - d. Added Automated Vehicle Identification (AVI) system
 - e. Third-party vehicle reservation system integration
 - f. Quick Read (QR) Code entry/exit functionality
 - g. Mobil Payment Applications

1.1 Price Requirements

- A. Price supplied will include the provision of all material, labor, equipment, and services necessary to furnish and install a turnkey fully integrated and operational parking access and revenue control system as outlined herein.

The Authority wishes to evaluate the following options to procurements of the systems identified in the scope of services.

- a. Conventional Purchase
- b. Lease (7-year term, no end of lease buy-out)
- c. HaaS/SaaS

Offeror shall provide and identify an individual pricing sheet (supplied) for each approach, by facility, plus a cumulative price sheet for each approach. Pricing for each approach shall include all components of the system as identified in this document including all labor, hardware, software and civil engineering and any other component of the project to provide a turnkey system as described in this document.

Additionally, all leases, including HaaS/SaaS, must include a preventative maintenance program, all software and hardware updates, patches, etc., and any improvement or enhancement to the initial system installed over the life of the lease or HaaS/SaaS offered. *There shall be no additional cost to the PPA during the term of the lease other than repairs or replacement due to damage, vandalism, acts of God, or consumable costs such as bar code tickets, receipt paper and replacement AVI transponders.*

Terms of the lease shall be clearly identified and will be considered on the best financial return to the PPA.

THE SUPPLIED PRICING SPREADSHEET MUST BE USED! A separate sheet for each facility plus one (1) comprehensive sheet totaling all facilities must be supplied.

1. Examine site and any available as-built drawings. *(As-built drawings are limited)*
 - a. Identify in writing any constraints or conflicts regarding the parking access and revenue control system installation.
 - b. Include cost, in writing, of rectifying such constraints or conflicts in Price Proposal.
 - c. Offerer will supply complete as-built drawings, for each facility, of their installation in CAD format. CAD file will be submitted electronically to the Parking Authority as well as be supplied on a flash drive(s).
- B. Add Alternatives: Provide prices for the following Alternates: (must be identified in each pricing sheet as a separate line item)
 1. Maintenance and Service Contract a f t e r Initial Warranty Period: The initial factory all-

inclusive parts and labor warranty period will be two (2) years.

- a. A separate contract awarded for Maintenance and Service after expiration of the warranty.
 - b. This Contract may be executed directly with a party designated and approved by manufacturer(s) to maintain and service the turnkey parking access and revenue control system equipment.
 - c. Contract would commence with expiration of two-year warranty period.
 - d. Provide annual pricing for eight (8) years after initial two-year warranty period.
 - e. License plate recognition system versus proximity card reader system.
 - f. Provide per unit costs for credit card only pay-on-foot devices.
2. Extended Parts Warranty:
- a. A contract to extend the manufacturer's parts warranty after the expiration of the two-year warranty.
 - b. Provide annual pricing for eight (8) years after expiration of initial two-year warranty period.

C. Power and Communication

1. Offeror must perform their own site evaluation to ascertain whether existing communications and power conduits are sized correctly and are good and/or useable for new communications cable, new vehicle detection loops and all necessary power terminations. If any existing conduits and/or cables are found to be non-compliant with local codes or should the system proposed require additional conduit and/or cables, the Offeror must specify location(s) and include the cost of same in proposal. All new electrical conduit and power wiring must be in compliance with national and local codes and manufacturer requirements.
2. Include all new communications wiring and any additional power wiring and conduit required by Offeror's system in proposal amount.

D. Substantial Completion: A certificate of substantial completion will be provided (for each phase) when the following requirements have been satisfied:

1. All systems, features, and communications have passed the SAT.
2. Certification of Payment Card Industry Data Security Standard (PCI DSS) compliance.
3. All spare parts, stock material and manuals are on site and have been approved.
4. All test checklists, documentation and training has been completed.

E. Final Acceptance: Final acceptance of each Phase will occur upon satisfactory completion of all work, tests, demonstrations and training specified herein as well as successful completion of thirty-day operational test per Section 3.3 of this document.

1.2 Offeror's Organizational Requirements

A. Project Coordination:

The successful Offeror will distribute the following items to the suitable parties:

- a. Installation diagrams, details, and templates for setting mounted equipment.
- b. Templates and cast-in inserts to anchor freestanding equipment.
- c. Electrical wiring diagrams and details.

d. Electrical requirements.

1. Coordinate final and precise layout of conduits, stubs, vehicle detectors, inductive loops, bollards, and anchor bolts with those responsible for installation.
2. Coordinate and assist General Contractor or appropriate party to assure the parking access and revenue control system proposed will meet design intent specified herein.
3. Coordinate interfaces with any other systems by others, including but not limited to Local Area Network, Client's financial reporting system, security, and signage.
4. Coordinate data communication, internet, server location, and network requirements with PPA or PPA's IT Representative.

B. Pre-Installation Meeting: Conduct meeting at project site thirty (30) days in advance of time scheduled for work to proceed to review requirements and conditions that could interfere with successful parking access and revenue control system performance. All parties concerned with parking access and revenue control system installation, including electrical, communications, concrete work, or others who are required to coordinate work are required to attend. Include Owner or Owner's Representative. At a minimum, cover:

1. Electrical rough-in, equipment bases, and any other required preparatory work.
2. Demolition, Concrete and Masonry work.
3. Review schedule.
4. Review testing and acceptance procedures.

C. Resubmittals: PPA's project representative(s) will review each of Contractor's shop drawings and/or submittal data the initial time and, should resubmittal be required, one additional time to verify that reasons for resubmittal have been addressed by Contractor and corrections made. Circle all resubmittal changes/revisions/corrections. The project representatives will not be responsible for non-circled changes/revisions/corrections and additions. Should additional resubmittals be required, Contractor is responsible for all costs incurred, including the cost of any fees or services made necessary to review such additional resubmittals.

1.3 Price Proposal Requirements

A. Price Form: Total system cost and per unit cost of each component. Include in supplied cost sheet to identify the number and type of recommended spare parts to be kept on-site.

B. Product Cut Sheets:

1. Product cut sheets that include:
 - a. Detail of user interface.
 - b. Operating temperature and humidity ranges.
 - c. Housing material and access panel location.
 - d. Mounting requirements.
 - e. Electric power requirements
2. Software and hardware including the following:
 - a. Configuration diagram.
 - b. Software platforms and programming language.
 - c. Communication protocol, polling procedures and transaction message flow from peripheral devices to and from the software system.
 - d. Communication failure/error identification and recovery.
 - e. Fault tolerance.

- f. Back-up procedures.
- g. Data storage and retrieval procedures.

C. Shop Drawings

- 1. Dimensioned drawings showing plans, elevations, sections and large-scale details indicating coordination and relationships with other construction.
- 2. Wiring diagrams detailing wiring requirements for power, signal and control systems. Differentiate clearly between wiring installed by manufacturer, installer and others, such as electrical sub-contractor.
- 3. Appropriate location for all computers and office equipment. Include any conflicts or constraints.

D. Installation Schedule:

- 3. A detailed schedule of project requirements including milestones for shop drawings, fabrication, delivery, installation, training, transition plan and testing. Milestones include special project requirements related to coordination with work by others and phasing.
- 4. As a separate sub section, provide a Data Conversion Plan detailing how and in what sequence old components of the existing system will be phased-out and how components of the new system phased-in. Discuss how both systems (new & existing) will operate together until such time that the new system is fully integrated.

E. List of sub-contractors, identifying nature of work performed.

F. Product Data: Product description for each component including the following.

- 1. Detail of user interface.
- 2. Operating temperature and humidity ranges.
- 3. Housing material and access panel location.
- 4. Mounting requirements.
- 5. Electric power requirements

G. List of manufacturer's recommended spare parts specific to this installation, including:

- 1. Part name.
- 2. Part number.
- 3. Unit price.
- 4. Quantity.
- 5. Total per unit cost.

H. Warranty:

- 1. Submit copy of warranty (per Section 1.10 of this document) and explanation of any instances which may impact warranty coverage.
- 2. Submit RMA procedures.

I. Add Alternates: Provide detailed descriptions, inclusions and exclusions of Add Alternates as outlined.

1.4 Informational & Closeout Submittals

A. Shop Drawings:

1. Dimensioned drawings showing plans, elevations, sections and large-scale details indicating coordination and relationships with other construction.
 2. Wiring diagrams detailing wiring for power, signal and control systems, and differentiating clearly between wiring installed by manufacturer, installer and others, such as electrical sub-contractor.
 3. Detailed information parking access and revenue control software and related hardware including:
 - a. Comprehensive system configuration diagram.
 - b. Software platforms and programming language.
 - c. Communication protocol and procedures hardware devices to/from hardware devices.
 - d. Communication failure/error identification and recovery.
 - e. Back-up procedures.
 - f. Data storage and retrieval.
- B. Samples: Submit samples of tickets, reports, and other items to be selected by Owner within 30 days of contract.
- C. Operating Documentation: Prior to initiation of field test and training, deliver two hard copies and one electronic copy of operations manuals, maintenance and administration manuals.
- D. Copies of all licenses, registrations, documentation, disks and other media. Ensure that all licenses, registrations and warranties have been transferred to Owner prior to final software turnover.
- E. At least 30 days prior to scheduled training sessions, Offeror will deliver a full description of all training courses including identification of instructional outcome, duration of course, and type of presentations.
- F. Offeror will provide a system test plan for review and approval by PPA's authorized representative within 30 days prior to start of first testing procedure. Offeror will be expected to demonstrate their compliance with specifications, contractual compliance, disaster recovery testing and documentation, definitions of all test objectives, participant responsibilities, documentation for tests, and procedures for dealing with failures during test. Offeror will provide a checklist which details tests for every functional requirement of each entry and exit lane, specified supplies/spare parts, training, operating and maintenance manuals and provide space for signoffs by PPA's authorized representative.
- G. Offeror will supply on-site spare components, complete and ready to use, prior to commencement of operational testing and maintain inventory of spare components at this level as components are used during warranty period.
- H. Offeror will furnish operating stock items in the amounts identified prior to commencement of operational testing. PPA must approve color and artwork of tickets and Automatic Vehicle Identification transponder devices.
1. 20,000 barcode tickets per facility.
 2. 500 AVI transponders and Proximity Cards per facility
 3. Three (3) spare ribbons/toner cartridges, etc. for each printer requiring ribbon, toner, etc. as appropriate.
 4. Fifty (50) rolls of receipt paper per machine providing receipts.
 5. One (1) spare banknote dispenser (per note type) per PAY-ON-FOOT.

6. One (1) spare coin dispenser (per coin type) per PAY-ON-FOOT.
7. One (1) spare coin vault per PAY-ON-FOOT.
8. One (1) spare banknote vaults per PAY-ON-FOOT.
9. Gate Parts
 - a. 10 drive pins.
 - b. Gate arm assemblies. (One per gate installed).

I. Lock and Key Requirements:

1. Keys
 - a. Provide six (6) sets of keys for each unit of equipment with locks.
 - b. All equipment of the same type has the same key and equipment of different types have different keys.
 - c. Keys are unique to this project; other equipment supplied by the same manufacturer in the region uses different keys.
 - d. Pay-on-Foot keys have three levels of security:
 - 1) Pay-on-foot door.
 - 2) Pay-on-foot access to release each cash/coin vault.
 - 3) Pay-on-foot access into each vault.
2. If a special tool is required to perform any function on the PARCS during the normal course of business and/or maintenance, provide three of these tools.

- J. Contractor is responsible for all permits and licenses and compliance with all codes and regulations.

1.5 Delivery, Storage & Handling

- A. Assume care, custody and control of all specified equipment and components.
- B. Replace damaged materials at no cost to Owner.
- C. Deliver equipment to site in manufacturer's original containers to prevent damage and marked for easy identification.
- D. Store equipment in original containers in clean, dry location.
- E. Remove gate arms and cover lane equipment in areas with active construction to avoid damage. Reinstall prior to lane and system acceptance testing.

1.6 Site Conditions

- A. Operate and function as intended under the local climate and weather conditions, including but not limited to temperature extremes, wind, salt, dust, and precipitation.
- B. Islands at gated lanes must not be poured until stub ups and anchor bolts are properly placed and any conflicts with installation at particular lane location are resolved.
- C. Power and Wiring
 1. Provide, install and terminate power wiring and conduit to all devices.

2. Provide, install and terminate all necessary device control wiring, communications wiring and additional power wiring required by system. Include special electrical power and grounding.
 3. Provide surge protection devices at both ends of all non-fiber optic communication wiring exceeding 25 feet in length.
 4. Provide and install any power conditioning that is required for the operation of the system. Power provided for this project is 120 VAC +/- 10% and 60 Hz from circuits dedicated to any system device.
 5. Provide and install all electronics and communications equipment for communication network. Terminate and connect all communications cabling.
 6. Provide and install on-line, regulating computer grade Uninterruptible Power Source for:
 - a. Servers and task computers (system controllers) with 30 minutes of back-up battery power.
 - b. Workstations, gates and local controllers with 30 minutes of back-up battery power. UPS not required for gates that revert to the "up" position on loss of power.
- D. Fiber Optic (F/O) Cabling: Use fiber optic communications wiring for all Ethernet runs longer than 300 feet in accordance with the following:
1. Include pull boxes as indicated on drawings or per industry standards.
 2. Provide a detailed parts list showing number and manufacturer, for all fiber backbone material. (F/O cable, Terminators, Patch Panels, Fiber Duplex Patch Cords, etc.)
 3. Label all F/O components as per TIA/EIA-606. (Cables, Connectors, Hub facilities, Termination facilities, Conduits, and Pathways). All Drops are to be labeled.
 4. Do not exceed minimum bend radius for all F/O cable.
 5. Do not exceed allowable tensile rating for F/O cable during installation. If a winch or pulling machine is used, a dynamometer must be used to monitor tension.
 6. F/O testing and certification of all runs is a requirement, per industry standards. Written test results of each test must be submitted to Owner or Owner's representative for review.
 - a. End-to-End Attenuation testing.
 - b. Optic Time Domain Reflectometer (OTDR) testing.

1.7 Warranty

- A. General: Equipment and installation (100% parts and labor) for two (2) years from date of final acceptance. Final acceptance date will be the date PPA or its representatives sign off on a fully functional system and no earlier. System will be maintained and serviced against any and all malfunctions due to manufacturing or installation defects at no cost to Owner during two-year warranty period, including preventive maintenance per manufacturer's recommendations or as necessary to keep equipment in good working order.
1. Warranty period commences after Offeror has demonstrated satisfactory performance of completed turnkey PARCS and related work as specified in Section 3.3 of this document.
 2. Maintain a log of all maintenance, preventive maintenance and repair work performed under warranty and provide to Owner or Owner's representative on monthly basis and at end of warranty period.

- B. Warranty response period:
1. Monday through Sunday, 8:00 am to 8:00 pm excluding holidays.
 2. Response time from initiation of trouble call to on-site response by qualified service technician cannot exceed one (1) hour.
 3. Repair or replace all defective or damaged items under warranty immediately. All other repairs to be completed by end of the following calendar day on which notice was given.
- C. If Contractor is not available, Designated Maintenance staff may affect repairs. Pre-qualify maintenance staff to perform repairs and identify types of repair each trained individual is qualified to perform without impacting terms of warranty.
- D. Replace items taken from spare parts inventory during warranty period at no additional cost to the PPA.
- E. Preventive Maintenance: Provide a schedule and task list for preventive maintenance services to be provided by on-site staff. Include maintenance services such as cleaning, lubricating, checking all connections, and to assure basic unit operations.
- F. Install all software updates, patches and upgrades applicable to this system during warranty period at no additional cost.
- G. Vendor must maintain toll-free telephone support line to provide immediate assistance during normal business hours.

2.0 Software Management System

- A. User Interface:
1. Capable of operating across PPA's Local Area Network (future), accessible, with proper user identification and password, to all authorized users' workstations with installed system software modules on PPA's Local Area Network. Currently, each facility stands alone from a communication standpoint. The PPA is working to provide dedicated lines for communication to a central monitoring station operated and maintained by PPA. It is anticipated that these lines will be in place in time to configure the system for real-time online monitoring. Each offeror must provide this integration and price accordingly.
 2. Provide field programmable functions of each device from the password protected software management, including rate structures, with any and all programming changes reported in daily log.
 3. Maintain a secure connection while active, and automatically log-off after programmable period of inactivity.
 4. Remote access to the software management system over standard TCP/IP connection.
 5. Browser-based user-interface modules utilize client-server technology or equivalent. The following general requirements apply to all components or modules:
 - a. Windows-based graphical user interface.
 - b. Allow for both standard and custom report formats.
 - c. Adequate security to allow for different classifications of users.
- B. Computer System:
1. Provide and install server/host computer in a lockable rack, off the ground and protected from dust and debris. The PPA will identify/supply location of server prior to bidding.
 2. Provide software management server and workstations and all ancillary equipment with sufficient power, capacity and communication bandwidth to meet functional performance demands of the parking access and revenue control software without loss of responsiveness to user input or slowing of any end node device or workstation.

3. Provide one separate workstation with monitor, keyboard, processor and printer in parking office located near the entry/exit plaza.
4. Provide licenses and software for remote access to software management system.
5. Meet performance recommendations of software vendor and accommodate for growth and expansion as specified herein without any specified function being slowed or delayed by performance of any other function or task.
6. System back up in less than two hours.
7. Report generation at a minimum of 35 pages per minute.

C. Data Storage:

1. Reside and operate on an ANSI SQL-compliant relational database server product.
2. Incorporate integrity controls to enforce three types of integrity:
 - a. Entity integrity ensures no duplicate keys within a table and all non-null tables are populated.
 - b. Relational integrity ensures no orphan keys, that all transactions properly deleted children entities, and properly modified adult references.
 - c. Domain integrity ensures all attribute value ranges are enforced.
3. All transaction records stored as actual data, not in report format.
4. Archive data in a format readable by report generator.
5. On-line data storage capacity to store a minimum of 24 months of system data.
6. Archive data automatically every six months with first archive after first 18 months, so that server always has most recent 12 months of data.
 - a. Be on industry standard media such as DLTs.
 - b. Be redundant.
 - c. Archive or restore transaction database in less than one hour.
 - d. Use redundant on-line storage such as Level 1 RAID Technology.
7. Either periodically or on demand, software management system downloads and sends electronically, revenue reports for integration into PPA's financial department via TCP/IP connection to designated computer network in Microsoft Excel or approved equivalent.

D. Licensing

1. Supply all required operating system and application software licenses in sufficient quantities to accommodate number of users and equipment in installed system.

E. Security

1. Utilize protocols and passwords that prevent unauthorized access to software and hardware and manipulation of data and reports, including individual transactions.
2. Include minimum of four (4) levels of access authorization to all operational, administrative and reporting functions and provide the following security features:
 - a. Define individual user and group-based security.
 - b. Ability to assign a unique user ID and password for each person authorized to use system.
 - c. Ability to establish an expiration period for passwords and periodically change that password for each authorized user ID.

- d. Ability to disable a user ID following successive log-on failures exceeding a specific limit.
 - e. Ability to view and report user and group level security rights and create user-defined fields.
 - f. Ability to de-activate codes for former users and internal and external customers.
 - 3. Password protected software management system subsystems to restrict access to individual functions of each subsystem:
 - a. Revenue Control System Monitoring, Control and Reporting.
 - b. Access Control System Monitoring, Control, and Reporting.
 - c. Occupancy Monitoring and Reporting.
 - d. Equipment Monitoring and Reporting.
 - e. Ad-Hoc Report Generator.
- F. Occupancy Monitoring: Provide the following functions for the two primary parking areas (Public and nested parking areas).
- 1. Every vehicular entry and exit lane serve as a counting location, equipped with vehicle detection devices.
 - a. Each entering vehicle subtracts a count of one from number of available spaces.
 - b. Each exiting vehicle adds a count of one to number of available spaces.
 - c. Provide directional logic (e.g. a vehicle entering through an entrance lane or through an exit lane is counted as an inbound vehicle).
 - 2. Track and display the number of available parking spaces on computer monitor(s).
 - 3. Provide anti-coincidence packages to accurately monitor entering and exiting vehicles that occur simultaneously.
 - 4. Provide two (2) programmable thresholds for each parking area:
 - a. One threshold to trigger "full status". When full status is reached, count system operates in one of two modes, selectable by user.
 - I) Mode one signals an alarm and relies on human intervention to activate appropriate dynamic signs and gate status changes.
 - II) Mode two automatically activates appropriate dynamic signs and gate status changes but allows for manual overriding of "full status".
 - b. Second threshold triggers "open" status. The two operating modes described above also apply to "open" status threshold.
 - 5. Ability to automatically disable ticket dispensing function when facility is full but allows for manual override.
 - 6. Ability to activate any electronic signage (variable signs at variable times/same time), individually controlling each facility or zone within a facility, including "FULL" signs and lane control lights provided by parking access and control system contractor, as well as any other type of electronic signage provided by others.
 - 7. Ability to maintain and display separate counts for each facility or zone within a facility, each with total occupancy or spaces available, total hourly and monthly occupancy and total hourly and monthly spaces available.
 - 8. Ability to maintain for each entry and exit lane:
 - a. Resettable counters (Allowable at Administrator level only) tracking monthly,

- transient and total parking patron usage.
 - b. Counts of illegal/opposite direction entry/exit for each lane.
 - c. Vends, vehicle detector and gate counts.
9. Ability to store power outage messages, "passback" vehicle messages, lane, facility and zone counts at hourly intervals in daily files for specialized reports to analyze lot utilization and activity levels.
 10. Transaction Counts: Provide, display and compare separate counts related to each lane:
 - a. At entry lanes: Ticket dispenser count plus monthly count compares with directional lane count and gate count.
 - b. At exit lanes: Exit verifier transactions plus monthly count compares with directional lane count and gate count.

G. Equipment Monitoring: Provide the following functions.

1. Monitor operational status of all entry and exit lanes as well as pay-on-foot devices.
2. Warning alarms displayed and tracked through the software management system for the following conditions:
 - a. Lane status; open or closed.
 - b. Gate failure.
 - c. Gate up.
 - d. Low-ticket supply.
 - e. Ticket in throat.
 - f. Illegal entry or exit (reverse direction in lane).
 - g. Back-out ticket.
 - h. Ticket jam.
 - i. Vehicle detected in lane for longer than 30 seconds without initiating transaction.
 - j. Count status.
 - k. Passback violation.
 - l. Pay-on-foot tampering.
 - m. Pay-on-foot door status, open or closed.
 - n. Pay-on-foot receipt paper status.
 - o. Pay-on-foot note and coin vault status.
3. Visual and audible abnormal status alarms at each computer workstation.
4. When an alarm is turned off, visual and audible signals stop at all workstations.
5. A daily log report identifying all system alarms.
6. Monitor electrical circuits and frequency of operational errors in components to identify maintenance actions to prevent failure of a component.

2.1 Hourly Parking Revenue Control:

- A. Offeror will provide the following functions inherent to the software management system:
1. Remote programming of all devices that process hourly parking transactions.
 2. Testing of fee structure against existing facility usage statistics.
 3. Uploading and consolidating reports from all devices processing hourly parking transactions.
 4. Retrieval and review of all transactions based on user-defined parameters.
- B. Provide the following reports which can be displayed on a monitor, printed on a printer,

converted to an ASCII file and are sortable chronologically and by shift or lane.

1. Daily Event Log - A listing of changes to system and users who made changes, including print communication messages, facility lane equipment alarms, remote gate opening, and system log on/off.
2. Daily Transaction Report – A daily summary of all transactions processed at each pay-on-foot station, including entry time, transaction time, payment amount and type.
3. Field sortable entry lane counts (equipment “vend” for ticket dispenser, monthly parking, gate, activation loop, and closing loop counts).
4. Field sortable exit lane count totals (equipment "vend" for exit verifier, monthly parking, gate, activation loop, and closing loop counts).
5. Revenue Alarms Report – Provide report to include at a minimum remote gate vends and manual gate open counts.
6. Monthly Lane Volume Report - Provide entry and exit counts by date.
7. Daily/Monthly Duration Report - Provide duration of stay based on patrons' elapsed parking time and patron time of entry. This report is utilized in rate structure and facility usage analysis, management planning, statistical information, rate analysis, and revenue analysis.
8. Ticket Sequence Report – Provide a complete sequence of transactions related to individual tickets.
9. Daily/Monthly Ticket Value Report - Provide ticket stratification based upon value of all transactions processed. Provide breakdowns for each rate structure. This report is used for revenue analysis, rate analysis, management planning, and statistical information.
10. Outstanding Ticket Report – Provide a listing of tickets that have been issued but are not yet processed at an exit. Software management system will receive data on each monthly transaction from monthly controller, adding it to transaction log and consolidating it into daily activity reports.
11. Be capable of retrieving from transaction data base information for ad hoc reports on monthly activity.
12. Back-out/Stolen Ticket List – Provide a chronological list of back-out tickets issued by ticket dispenser for selectable times.
13. Real time inventory count by occupancy and vacancy count.

C. Rate Structure:

1. A minimum of twenty (20) different fee structures.
2. Each fee structure has the ability to program a minimum of forty (40) different fee increments.
3. Automatic adjustment for daylight savings time and leap year in fee calculations.
4. User defined maximums (12-hour, 24-hour, etc.)
5. Provide for:
 - a. Day, evening and night rates.
 - b. Weekend rates.
 - c. Flat rates.
 - d. Event rates.
 - e. Holiday rates
 - f. Early bird rates.
6. User defined grace time parameters
 - a. Exit grace time.

- b. Turnaround grace time.
- c. Elapsed grace time – to allow for elapsed time from payment at a central location, retrieve vehicle and drive to exit lane.

D. Credit and Debit Card Processing:

1. Accept the following types of credit card payments:
 - a. VISA
 - b. Master Card
 - c. American Express
 - d. Discover
 - e. Bank Debit Cards with Credit Card logo
2. Utilize credit and debit card acceptance hardware, software, and other system components that are PCI DSS and Europay, Mastercard and Visa (EMV) compliant.
 - a. It is not acceptable to state that the credit card processor is PCI DSS compliant or that the manufacturer is in the process of becoming compliant and/or receiving validation.
 - b. PCI-DSS Compliant Systems: For all devices and systems that are in scope of PCI-DSS compliance as defined within the latest version of PCI-DSS, provide proof that all such devices are either:
 3. A currently validated PA-DSS Application, suitable for new installations, as listed at the PCI-SSC web site.
 4. Part of a Level-1 Audited Service Provider payment system. Suitable proof must be a listing on the VISA or MasterCard Service Provider web site, or an audited and signed Attestation of Compliance (AOC) showing a successful Service Provider Audit performed by a Qualified Security Assessor (QSA).
 - c. All devices that accept a payment card must accommodate EMV payments. All devices will accept EMV payments.
 - d. Configure system such that information from each credit card transaction is transmitted to a server in direct communication with authorizing clearinghouse to provide on-line real-time approvals.
 - e. Maximum authorization time from cardholder confirmation to clearinghouse authorization is five (5) seconds.
 - f. Confirm and provide record formats required by PPA's financial institution.
 - g. Print receipts with a signature line only when amount is greater than a minimum fee, established by Owner, or if credit card information was entered manually.

F. Validation System

1. Allow up to 999 validation accounts to be programed within the software management system. Each account to include a unique account number and allow validations based on use, time or dollar value.
2. Allow all validations to be reported and sortable by time, date, origin, and use.
3. Patrons with a validated ticket capable of bypassing a pay-on-foot device and proceeding directly to exit and present validated ticket at an exit verifier.

G. Ticket Dispenser

1. Independently and in sync with the software management system, issue a time/date stamped ticket.
2. Machine readable encoding that is compatible with all other hourly parking components.
3. Capable of operating while disconnected from software management system.
4. Minimum capacity of 5,000 tickets with hands-only (no tools) ticket loading.
5. Independent ticket dispensing mechanism that is removable as a single unit.
6. Easily readable display screen and audio welcome message such as "Please Press Button for Ticket and "Please take ticket".
7. Capable of maintaining a minimum processing rate, in combination with gate and other in-lane equipment, including typical patron delays, of 400 transactions per hour for push button operation and 450 transactions per hour for auto-dispensed operation.
8. Integrated intercom if physically possible.
9. Operational Descriptions:
 - a. Normal Hourly Entry Process
 - 1) Upon vehicle detection, send a signal to the ticket dispenser to issue a machine- readable time and date encoded ticket automatically or at the push of a button by patron.
 - 2) Upon removal of the ticket from ticket dispenser, send a signal to open the gate and send transaction data to software management system.
 - 3) The use or detection of a monthly credential does not allow the above sequence to occur.
 - b. Back-out Ticket Taken: Ticket is removed from a ticket dispenser and directional sequence is violated (e.g. vehicle backs out of entrance without entering)
 - 1) Sound an audible alarm at the software management computer
 - 2) Report ticket issued as an invalid back-out ticket and post to the daily transaction exception log
 - c. Back-out Ticket Not Taken: Ticket is left in the ticket dispenser and directional sequence is violated (e.g. vehicle backs out of entrance without entering)
 - 1) Abandoned ticket is ingested back into ticket dispenser, rendered invalid, and discarded into dedicated holding bin.
 - 2) Event posted to daily transaction exception log.
 - d. Full Status
 - 1) Software management system manually or automatically disables ticket dispenser and credit card reader at all entry stations when count system considers facility to be full.
 - 2) Easily readable display screen and audio message such as "Sorry, the garage is full".
 - 3) Software management system reactivates ticket dispensing function when count drops below a programmable threshold.
 - 4) Monthly patrons are allowed access even when ticket dispensing is disabled.

I. Exit Verifier

1. Independently and in concert with the software management system, read ticket data to

determine ticket validity, payment due and any encoded validation.

2. Include the following integrated components:

- a. Processed ticket vault.
- b. Easily readable display screen and audio message such as "Please User Scanner to Exit".
- c. Audio and visual instructions displayed to patrons.
- d. Integrated intercom
- e. Integrated credit card reader.
- f. Integrated proximity card reader
- g. Integrated bar code reader

3. Capable of maintaining a minimum processing rate, including typical patron delays and in combination with gate and other in-lane equipment, of 400 transactions per hour.

4. Maximum elapsed time from insertion of validated ticket until gate opens is three seconds.

5. Operational Description

- a. Upon detection of a vehicle, display screen audibly and visually prompts patron to scan their ticket at the exit verifier.
- b. For fully paid or validated tickets, send signal to open gate and send data to the software management system.
- c. For tickets that are not fully paid/validated or if grace period has expired, prompt patron to pay remaining fee via credit card or contact staff via intercom.
- d. Send signal to close gate after vehicle has passed closing vehicle loop or sensor.

J. Pay-on-Foot Stations

1. Independently and based on the software management system record, read ticket data to determine ticket validity, payment due and any encoded validation.

2. If payment is due, display amount due and request payment by cash or credit card.

- a. Accept U.S. paper money in any combination of one, five, ten and twenty- dollar denominations.
- b. Include a separate safe or vault in banknote acceptor.
- c. Dispense change using highest denominations possible. Coins will be used.
- d. Display "Insufficient Change" message with receipt.
- e. Display "Bill Jam" message.

3. Self-replenishing change vaults are required.

4. A display panel will be provided as an insert on the front of the PAY-ON-FOOT door. It will display a minimum of five (5) languages (English, Spanish, Mandarin, Cantonese and French) that coincide with pictorial and function buttons on the unit and universal graphic symbols with words on a programmable LCD display containing easy to read characters. The LCD will be easily read by the patron and minimum size of screen will not be less than 4 inches in height. Upon receipt of payment, issue machine encoded ticket, with programmable grace period.

- 1. Provide concise instruction with pictograms where appropriate for user-friendly operation.

2. Provide clear, audible instructions to patron throughout transaction process.
3. Include high security lock system with appropriate alarm contacts for tampering.
4. Capable of maintaining a minimum processing rate, including typical patron delays, of 100 cash transactions per hour.
5. Operational Description
6. Patron scans ticket at the pay-on-foot station (credit card & full service).
7. For valid tickets, fee is displayed. Patron inserts cash or credit card and payment is processed. Change is returned to patron, if required, or credit card transaction is processed.
8. Amount paid, transaction number and other data are printed on ticket in readable form and encoded on ticket. All data is sent to software management software.
9. Patron is advised audibly and visually to take ticket and proceed to vehicular exit.
10. Receipts are issued only upon patron request for all transactions or automatically if insufficient change.
11. If pay-on-foot cannot read ticket or it is otherwise identified as an exception transaction an alarm is sent to the software management system, ticket is returned to patron, and a visual [and audible] message advises patron that transaction cannot be processed and to press intercom for assistance.
12. POF devices will allow for payment of monthly parking accounts using cash or credit card. POF will issue receipt for payment and integrate payment into system's financial software module.

Monthly Access Control System:

A. Management Software System Interface:

1. Provide an on-line, computer-based access control system for those authorized by the PPA to have access to parking facility without being processed through ticket system.
2. Distributive, networked, or centralized processing may be employed, so long as required multi-lane control features such as anti-passback, occupancy and activity tracking are maintained. Employ Automatic Vehicle Identification readers as specified herein for access for the following distinct user groups:
 - a. Authorized vehicles requiring free and fast ingress and egress to parking facilities.
 - b. Monthly parkers who have a contractual agreement and/or will prepay or prearrange billing for parking on a monthly basis.
 - c. Frequent parkers, who prepay or prearrange billing and are charged for parking at fees equal to or discounted from public parking fees. Includes:
 - 1) AVI tags with a prepaid balance that declines/decrements with each use:
 - a) Upon use at entrance, verify balance and advise patron if preprogrammed low balance has been reached via red light or audible message.

- b) Upon exit, calculate fee due and display balance left on card after transaction. If fee exceeds balance send alarm to the software management system and advise patron to pay balance via credit card or press button for assistance.
- 3. Individually recognize and process up to ten thousand (10,000) monthly style users at all reader locations.
- 4. Have at least sixteen (16) preprogrammed access levels capable of being changed without reprogramming of access control system.
- 5. Provide anti-passback control. With this feature, users enter and exit in proper sequence (e.g., entry, exit, entry, exit, etc.).
 - a. Selectable option to allow either "hard" (out of sequence user is rejected and an alarm is generated at access control system controller and software management system) or "soft" mode (out of sequence user is allowed access but reported.)
 - b. In both hard and soft modes, each out of sequence event is reported as an exception transaction in daily access control system access log.
 - c. Password protected "resynchronization" of all users to one access before return to anti-passback control.
- 6. Link users to each other to allow one entity to be identified with and/or pay for a group of users. Provide up to one hundred (100) such access control system groups.
- 7. Ability to group access control credentials and limit access to a preset maximum number of vehicles in facility at any given time, and/or allow and track overages to be invoiced separately.
- 8. Nesting feature:
 - a. Ability to require parkers that are assigned to park in a specific level or area (nest area) to use access control credential to enter and exit nest area in order to exit facility.
 - b. Required sequence: In facility, in nest, out of nest, out of facility.
- 9. Central Access Control System Requirements:
 - a. Issue and reprogram ID devices.
 - b. Allow authorized supervisor to create, store, send and receive user programming from access control system readers. Password protected access to programming, with multiple levels of access, to any and all information regarding specific blocks and/or suites of cards.
 - c. Provide a data base for access control management including the following:
 - 1) Provide at least twenty (20) programmable record fields for each person issued an access control system credential and at least twelve (12) programmable record fields for each user's vehicle(s).
 - 2) Allow specific parker record files to be retrieved, displayed and/or printed based on selectable criteria, such as current access control system status, access group, access level, and/or ID numbers (except data that is password protected).
 - 3) Allow searching, sorting and printing of database by any field for routine and special forms such as invoices or mass-mailings.
 - 4) Consolidating and retaining data to allow for report generation. The following are minimum required reports, viewable on a workstation monitor and/or printable on demand:

- a) Activity Usage Reports – Provide a chronological list of access control system usage, including date, time, credential, and location of entries and exits; capable of being sorted by any field.
- b) Count Reports – Monitor and report counts of access control system vehicles present on an hourly basis by group, access level.
- c) Percentage of Occupancy – For selectable times during 24-hour period for all categories of access control system parkers.
- d) In/Out Status Report: Shows status of all access control system credentials at any given time, sortable by name/card #/status.
- e) Active User Report – A listing of all active users that have access to the facility.
- f) Activity Exceptions Report – A field-sortable listing of all activity exceptions to include at a minimum hard-passback, soft-passback, shared account, debit card, hotel quest pass and nesting violations.
- g) User Changes Report – Provide report of changes to user accounts to include at a minimum debit card rate changes and status changes (e.g. card placed in neutral with no charges applied at exit).
- h. Capable of reporting the collection of fees from parkers on monthly prepayment, declining, decrementing, end of month billing, and/or credit card basis.
- i. Monitor and report revenue associated with access control system to software management system. Separate revenue by type of payment (prepayment, declining, decrementing, monthly billing and/or type of credit card) and indicate access control system ID device number(s), account number(s), and month(s) for which payment was received.
- j. Provide for posting of payments and automatic lockout of access control system users within programmable grace period after expiration of a prepaid account.
- k. Provide automatic on-line real-time monitoring of access control system usage with DVD/CD- ROM storage of transaction data for audit and analytic purposes.
- l. Monitor and report all alarm conditions to the software management system.
- m. Password protection and Daily Log reports for all administrative actions.
- n. Proximity readers continue to track and record data if gates remain 'up'.

AVI Readers

1. Required to be mounted on overhead and clearly identified. Where it is not physically possible to be mounted overhead, it will be pole mounted, mounted on a powder coated steel pedestal and installed per manufacturer's suggestions.
2. Operational Description
 - a. Monthly reader identifies monthly credential device in lane and searches for authorization through the Controller. If authorized, a signal is sent to open the gate.
 - b. Where lanes are also equipped with Entry Stations or Exit Stations, activation of reader automatically disables dispenser/verifier. Likewise, the initiation of a ticket entry/exit transaction automatically disables reader.

LICENSE PLATE RECOGNITION (LPR) SYSTEM (ADD/ALTERNATE):

The offeror is responsible for any and all alterations (masonry, electrical, etc.) required to provide a fully functional LPR system at each facility. Offeror will supply this system as an add/alternate and list the turnkey cost of this part of the system by facility.

- A. Imaging devices at each entry and exit lane automatically gather LPR data using optical character recognition to extract license plate number from images.
 - a. Images of license plates and rear vehicles are linked to monthly or transient transactions and stored in computer database.
 - b. Entry images to be post-capture, meaning that the cameras are placed in such a position that a vehicle's LPN is photographed upon crossing over the closing loop after the entry credential has been issued or accepted by the system.
 - c. Exit images to be pre-capture, meaning that the cameras are placed such that a vehicle's LPN is photographed before the parking credential is presented at the exit.
- B. System correlates license plate number with paid transient credential dispensed or monthly ID device used at entry lane.
 - a. At exit lane, imager and system extracts license plate number and compares with plate number associated with entry lane transaction from the software management system database.
 - b. If license number comparison is positive, monthly or transient patron completes transaction and raises the gate. License number is removed from inventory.
 - c. If license number comparison is negative, monthly or transient processes transaction as specified for those subsystems. If a valid monthly credential or a valid paid transient ticket is presented, the associated license plate number is removed from inventory, and is copied to an LPR exception inventory. An alarm is triggered at the software management system and workstations notifying the supervisor of the exception transaction.
 - d. All cashiering and POF devices shall recognize a license plate number for payment should the barcode ticket be lost or destroyed to the point that it cannot be read if LPR technology is chosen.
- C. Furnish and install image capture cameras including any lights or shade canopies necessary at all public entry and exit lanes to provide system functionality.
- D. Provide theft deterrent and vandal resistant housings that meet applicable code requirements for outdoor equipment.
- E. Determine the exact location of each device, subject to Owner approval.
- F. Performance Requirements
 - 1. Acquire an image of a vehicle's entire license plate at a 99 percent (99%) rate for all non-exception vehicles as defined within this section. The intent of the 99% capture rate is to have a visual record of 99% of all non-exception license plates entering the facility.
 - 2. Achieve an N Factor rating of 90% meaning specifically that the LPR Subsystem reads all license plate characters, exclusive of stacked characters, correctly 90 percent (90%) of the time for all non-exception vehicles as defined within this section. Missing, misread, or additional characters as determined by the LPR Subsystem are counted against the read accuracy. (i.e. if a license plate contains six standard characters "ABC123", then N=6. Therefore, in order for the system to achieve an N read, the system must return the LPN

“ABC123” exactly.) Additional characters added before or after the license plate characters count against the read rate. (i.e., “1ABC123” would not constitute an N read.)

3. Achieve an N-2 Factor rating of 99% meaning specifically that the LPR Subsystem reads all but two LPN characters, exclusive of stacked characters, correctly 99 percent (99%) of the time for all non-exception vehicles as defined within this section. Missing, misread, or additional characters as determined by the LPR Subsystem are counted against the read accuracy. (i.e. if a license plate contains six standard characters “ABC123”, then N=6. Therefore, in order for the system to achieve an N-2 read, the system must return the LPN “C123”, “ABC1”, “CCC123”, “ABRR23”, “1ABC1231”, etc.) Additional characters added before or after the license plate characters count against the read rate.
4. Exception vehicles will not count against the accuracy of the LPR Subsystem. For the purposes of the LPR performance requirements an exception vehicle is defined as:
 - a. Any vehicle whose license plate is obstructed, obscured, or encroached upon by a foreign object.
 - b. Oversized vehicles that have a total distance between the center of the drivers’ side window and the end of the rear bumper greater than 15 feet.
 - c. Vehicles that contain excessive graphics and advertising such that it is impossible for the LPR system to determine which graphics belong to the license plate and which graphics do not.
 - d. Vehicles with no license plate
 - e. Vehicles with temporary cardboard “Dealer Plates.”
 - f. Motorcycles
5. Provide a means, subject to approval by the Owner, to remotely score the LPR Subsystem to ensure it meets the performance requirements. Assist the Owner in transferring images from each lane to a storage format such as CD-ROM, DVD, or uploaded to an FTP site that can then be viewed and scored on a standalone PC by the Owner or their designated representative. The PPA may select any images stored on the LPR database for scoring purposes. The Contractor is to provide all software needed to test the LPR Subsystem’s performance, downloadable to a standalone PC used for testing.

G. LPR Cameras (Add/Alternate)

1. Operational in all light and weather conditions. Ambient lighting conditions have no effect on the accuracy of the LPR system regardless of the time of the day and night. Provide any necessary shading or lighting elements required to mitigate the effect of the ambient lighting conditions on the LPR system performance.
2. Perform all optical character recognition.
3. RF shielded camera cables.
4. Internal heating elements.
5. Rated at 30 frames per second.
6. Equipped with IR lens for license plate and color image for verification.
7. Pulsed LED illumination.

H. Processor and System Software

1. Automatically capture, interpret, process, display and store license plate images
2. Unlimited storage capacity.
3. “Fuzzy logic” plate matching capability.
4. Provide real-time displays of:
 - a. License plate image.

- b. License plate.
 - c. Image of vehicle.
 - d. Date and time.
5. Ability to manually identify misread plates.
 6. Ability to add notes to images.
 7. Ability to manually enter plates for querying purposes.
 8. Ability to cross-link, query and input data from external sources.
 9. Ability to audit all queries by date, time and user password.
 10. Ability to save frequent query requests.
 11. Ability to schedule updates (i.e.: hot lists).
 12. Data format in either .csv or text file.
 13. Ability to export and print all data.
 14. Provide audio and visual alerts.
 15. Data download by flash drive or wireless.
 16. Fully interfaced and integrated into the PARCS, including tying the LPN captured at entry to the unique ticket identification (or other entry credential information) for every transaction.
 17. Should the entry information need to be obtained at an exit station to process the transaction (i.e. lost ticket, unreadable, etc.), both the LPN and ticket are removed from their respective active inventories once the vehicle has exited.

Door Reader

1. The proximity card reader will be of weatherproof design (IP55 Certified) and an architecturally attractive enclosure that allows for easy weatherproof and theft resistant mounting outdoors. Door reader will also maintain the following features:
 - a. Medium-range 8-12 inch read range for proximity card use. Will also maintain a weather tight vandal resistant sealed keypad for access.
 - b. Wiegand Serial (RS-232/RS-422) interface.
 - c. Black or gray in color.
 - d. Numerical Keypad data, proximity card data, barcode ticket scan data and QR code sent on the same cable. Door reader offered must maintain all listed technology.
 - e. Provides Wiegand protocol interface compatibility with all standard access control systems.
 - f. Fully integrated personal identification number illuminated keypad for heightened security.
 - g. Will include an integrated transient barcode scan reader to allow access to valid transient tickets in the software management system.
 - h. Will be fully programmable from the software management system and provide alarms for invalid attempts and reader failure.
 - i. Will have a two-way intercom and video camera compatible with and in compliance with the specifications for the intercom system and security camera section in this specification.
 - j. Include clear and concise signage to identify usage requirements.
 - k. Vendor will be responsible for all integration with existing door assembly to provide a fully functional and turnkey system. This includes and door parts and magnetic system to secure door during periods in which the door is in an active restrictive access mode.

Gate Transmitter & Antenna/Receiver

The grade level nested area of the Parkade on 8th Garage is for PPA service vans and access and egress is currently obtained through the same lane. Currently, the gate is in the fixed “up” position. The PPA wishes to continue utilizing this lane for PPA vans but also wishes to lower the gate to better secure

the area. As a result, PPA vans will gain access and egress using a vehicle mounted transmitter and gate antenna/receiver. Loops will be installed to lower the gate based on vehicle direction.

This system will:

- a. Meet National Electrical Manufacturers Association (NEMA): NEMA ICS 6 - Industrial Control and Systems: Enclosures.
- b. Meet Underwriters Laboratories (UL):
 - i. UL 325 - Standard for Safety for Door, Drapery, Gate, Louver, and Window Operators and Systems.
 - ii. UL 991 - Standard for Tests for Safety-Related Controls Employing Solid-State Devices.
- c. Meet International Organization for Standardization: ISO 9001 - Quality Management Systems.
- d. Antenna/Receiver will be compatible with all Multi-Code radio controls
- e. Transmitters to be supplied with visor clip
- f. Transmitters powered by 9-volt battery
- g. A minimum of 1,024 codes

Control Gates

- a. Provide an effective barrier to vehicles entering or exiting facility. LED lighted gate arms are required at all locations. Gate arms will also offer edge padding of sufficient level to prevent vehicle damage.
- b. Distance between end of extended gate arm and curb or wall is restrictive to motorcycles.
- c. Closed gate arm height of approximately three feet unless noted otherwise on drawings.
- d. Use articulating gate arms in areas of limited headroom.
- e. Employ breakaway design that can be easily replaced when broken away from housing.
- f. Provide safety feature of rising upon contact with vehicle or person without causing damage or injury.
- g. Incorporate in one housing all necessary components for functioning of unit.
- h. Provide circuit breaker protected gate motor and components designed for heavy-duty use.
- i. Provide corrosion resistant parts.
- j. Provide gate controller that prevents damage when gate motion is blocked in any position and cannot be opened or closed by force applied to gate arm.
- k. Allow for adjustment of gate arm travel.
- l. Gate Controller features:
 - a. Microprocessor controlled over-the-network activation and communication for gate status and functions from the software management system.
 - b. Separate momentary contact closures for each of the following counts:
 - a. Monthly users
 - b. Hourly/transient users
 - c. Vehicle entries
 - d. Vehicle exits
 - c. Directional logic with electronic outputs to alarms, counters and to report a typical lane activity to the software management system.
 - d. Ability to store at least three (3) vend inputs and sequentially process each vend.
 - e. Ability to test gate operability and controller programming on-site without

- use of special diagnostic equipment.
- f. Auto-Manual" switch, and "On-Off" switch for gate.
- g. Contains power supplies, dust-proof relays, and other circuit components to control gate.
- h. Provide remote gate arm activation

Pedestrian Warning Requirements:

1. Include audible and visual warning devices at exits (exterior sidewalk crossings) to provide warning to pedestrians of crossing traffic. Have the capability to utilize either audible or visual warnings independently or together.
 2. Solid state, waterproof and shock proof capable of 90db at 10ft.
 3. Alarm signals until vehicle crosses closing loop.
- A. Control Gate Usage Restrictions:
- i. Provide signage prohibiting pedestrians and motorcycles from utilizing control gate as a means of ingress or egress to facility.
 - ii. Provide along approach route of automated gate and/or affixed to both sides of control gate arm.
 - iii. Incorporate both text and graphics to convey hazards of not meeting this restriction.

Vehicle Detection

1. Incorporate/employ anti-tailgating logic, vehicle inductive profiling, and self-tuning technology.
2. Maintain peak sensitivity regardless of temperature, rain or other environmental conditions.
3. Fit within entry and exit controllers, or gate housings, or in remote lane/ramp controller cabinet.
4. Detect vehicles that back out of lane resulting in a back-out or stolen ticket and report to the management software system.
5. Provide indicator light on front panel indicating presence of vehicle.
6. Require no special tools or meters for adjustment following initial installation
7. If tied to inductive loops, provide multiple loop tuning to prevent crosstalk or interference between loops in close proximity of each other.
8. Provide directional logic using "A-B" logic as follows:
 - a. Sensor "A" activates lane device for revenue control or access control operation.
 - b. Following revenue control or access control operation, gate opens.
 - c. Vehicle passes Sensor "B", sending signal to close gate. Count increases by one.
 - d. Sequence of Sensor provides directional logic.
 - e. Activation of Sensor "A" without Sensor activation at "B" results in an incomplete transaction.
9. If using Inductive Loops as sensing device:
 - a. Cut-into paving surface and filled with manufacturer's approved sealant (see drawings).
 - b. Be formed by three to four turns of 16-gauge XLPE single-conductor wire.
 - c. No splices are permitted.
 - d. Contain loop leads:

- i. Limited to a length of 100 feet.
- ii. Have a four-twist minimum per foot and located at a minimum of 18 inches from electrical power lines.
- iii. Be contained in separate conduit to prevent interference from electrical signals.

Integrated System Signage

- 1. Lot Full Signs: Multi-message LED signs display either "OPEN", "FULL" or "CLOSED",
- 2. Traffic Controller Signs:
- 3. Red "LANE CLOSED"/ "LANE OPEN" "MONTHLIES ONLY" w/arrow LED signs to advise patron if lane is open.
- 4. Pole mounted where possible.
- 5. Activated automatically or manually by the software management system.

Two-way Intercom System

- 1. Fully digital, microprocessor based, modular design utilizing VoIP (Voice over Internet Protocol). System to be integrated with existing PPA phone system so intercom can either be forwarded to deck parking office, engineering, security, or cell phone and must maintain rolling capability in case one or more contact points are unavailable.
- 2. Programming server for all intercom features performed through networked workstation or from intercom master station.
- 3. Programmed configuration of intercom stations and system features stored in non- volatile memory.
- 4. System includes all software and hardware required for programming system, including:
- 5. Individually programmable volume control for each intercom station.
- 6. Substations programmed to call intercom master station.
- 7. Call forwarding feature for individual stations or all stations to re-direct calls to another designated master station or substation.
- 8. Allow conferencing for an unlimited number of stations from master station.
- 9. Include ability to announce up to 50 pre-recorded messages at intercom stations, selectable based on programmed criteria, or manually.
- 10. Announced messages and audio input broadcasts may be interrupted only at affected intercom station during intercom calls and return automatically upon completion of call.
- 11. If master station is busy, system automatically announces pre-recorded message at calling station, when master station disconnects, another pre-recorded message directs station to re-initiate call.
- 12. Master station desktop model with LCD-Display (8 lines x 14 characters minimum) and gooseneck noise cancelling microphone designed for high-noise environment. Required features:
- 13. Provide full-duplex hands-free conversation with any other selected individual station or combination of stations in system.
- 14. Integrated amplifier and loudspeaker.
- 15. Connector and external noise cancelling headset.
- 16. Firmware/feature upgrades available via download through intercom server with no local modification on station required.
- 17. Highly sensitive microphone to provide clear conversation from a maximum range of at least 20 ft.
- 18. Minimum audio frequency range for audio components: 200-7000Hz.
- 19. Intercom station directory panel with direct access, pre-programmable function menus, selectable language, and adjustable display contrast.

20. "Handset function" enabling user to switch from loud-speaking, gooseneck microphone operation to handset mode.
21. Substation requirements:
22. Microphone, loudspeaker and in-use LED, all housed in one unit with configurable front pushbutton control.
23. DSP technology to provide full speaker/microphone supervision and fully adjustable (volume/timing threshold programmable via intercom server) audio monitoring.
24. Feature upgrades via download through intercom server with no local modifications required.

Dynamic Signage System (Add/Alternate)

1. Multi-color 100,000+ LED lifespan
2. Non reflective black louvers and module face to disperse light
3. Venus Control Suite software
4. 120/240 VAC single phase
5. 64 levels of display dimming (automated, scheduled and manual control)
6. Message capability should include text, graphics, logos, basic animation, video clips, multiple font styles and sizes
7. Communication will accommodate Ethernet, Fiber Optic, Ethernet Bridge Radio, Remote Cellular and Ethernet CAT 5
8. -40°F – 120°F with 99% RH non-condensing operating conditions
9. UL and cUL listed, UL Energy Verified, and FCC compliant
10. 5-years parts and labor warranty
11. Parts support for 10-years

PARCS Two-way Camera System

Offeror will be required to equip all entry, exit and pay-on-foot devices with a two-way, high-resolution (resolution of 1440p and above), low light camera systems with high-resolution color screens for use with the intercom system and is also transaction activated and video stored as part of each transaction. Additionally, one-way internal security cameras will be required in each pay-on-foot device, over each cashiering terminal and revenue counting room to record any/all internal interaction, by staff, with each device. A complete list of camera locations is included in the Appendix E.

All camera systems shall be fed to a DVR system (preferred) capable of recording a minimum of up to six (6) months of images without overwriting or can be cloud based. If cloud-based solution is offered, then cloud cost annual pricing must be included on the pricing sheet. In traffic lanes, a two-way pinhole camera to activate upon activation of intercom or at the start of each entry transaction, regardless of the type of credential presented. This system is intended to replace the existing system and shall include all components to provide a fully functional turnkey system. This includes, but is not limited to, cameras, theftproof and vandal resistant outdoor rated fixtures that will prevent damage to the camera system as well as weather resistant to prevent fogging of housing during high-humidity conditions, and all infrastructure to provide a fully functional system. In addition to all hardware and labor/installation costs, any required infrastructure upgrades including, but not limited to, wiring and signal transmission devices must be included in proposal costs. Once installed, the system should offer the capacity for remote monitoring via internet / Wi-Fi connectivity. Recorded video must also be accessible via an app supported on both iOS and Android platforms.

CCTV monitors shall display images in real-time for PPA staff to monitor and answer intercom requests. Monitors shall be located in each central cashiering area with a main monitor located at 701 Market Street, Suite 5400, Philadelphia, Pa 19106 that is capable of monitoring all location simultaneously on one screen.

Project Sequencing & Management

1. Meetings: Meet with Electrical Contractor, before any rough-in work begins to:
 - a. Review building plans as related to parking access and revenue control equipment.
 - b. Discuss details and/or precautions to assure that all parking access and revenue control system equipment functions properly.
 - c. Determine that all required conduits and wiring are properly laid out.
 - d. Examine substrates, areas, and conditions, with Installer present, for compliance with requirements for installation tolerances, including equipment bases; accurate placement, pattern, and orientation of anchor bolts; critical dimensions; and other conditions affecting performance of the Work.
 - e. Examine location of all equipment and office equipment to determine if there are any constraints or conflicts before office equipment installation.
 - f. Examine roughing-in for electrical systems to verify actual locations of connections before parking control equipment installation.
 - g. Additional Wiring: Provide all additional conduit and wiring which is needed for total system performance but which was not noted on Contract Documents at no additional cost to Owner.
 - h. Verify equipment layout in accordance with manufacturer's recommendations to allow proper movement of air through and around equipment.
 - i. Test, adjust and interface circuits prior to installation of parking access and revenue control equipment.
 - j. Coordinate with Owner or Owner's Representative location and type of internet connection for credit card processing system within 30-days after award of contract.
 - k. Investigate adequacy and quality of electrical power to all existing lanes, determine grounding requirements and notify Owner in writing prior to submission of shop drawings of any requirements for new power service, conduit, wiring or grounding.
 - l. Investigate existing communications conduit to all existing lanes and notify Owner in writing prior to submission of shop drawings of any requirements for replacement, relocation or extension of existing conduit not already identified for replacement or relocation.
 - m. Proceed with installation only after unsatisfactory conditions have been corrected.

System Installation

1. Install turnkey parking access and revenue control system in accordance with manufacturer's recommendations and approved Shop Drawings
2. When possible, install lane equipment so that farthest extending part of equipment is recessed six inches (6") from the curb; in an effort to protect equipment and vehicular mirrors.
3. Installation and Start-Up: Contractor is responsible for installation of all control and communication wiring, Contractor supplied equipment and its interfacing and interconnection with Owner supplied equipment. Contractor authorizes and/or accepts responsibility for application of power to equipment and initiation of operation and for running all initial diagnostics and system generation programs necessary to provide complete working system.
4. Contractor is responsible for all software and communications by all computers and peripheral devices.
5. Provide dust and noise protection in strict accordance with equipment manufacturer's

recommendations.

6. Remove from site all existing parking equipment not to be reused or relocated, in conjunction with PPA's approval.
7. Remove and replace curbs, paving and other construction as required for installation of PARCS.
8. Replace all device control and communications wiring in existing conduit to existing lanes and provide all additional communications wiring required for system architecture and design.
9. Maintain at least one entry lane and one exit open to public at all times.
10. Cut and patch concrete for all conduits added to existing islands or paving.

Quality Control Program

The Installer will develop an Acceptance Testing Plan to demonstrate the functionality of the system. Provide sections for both Lane Acceptance Testing and System Acceptance Testing as follows:

1. Include demonstrations of compliance with specifications, contractual compliance, definitions of all test objectives, participant responsibilities, documentation of tests and procedures for dealing with failures during test.
2. Detail tests for every functional requirement of each entry lane, exit lane and pay-on-foot stations.
 - a. Include checklist for specified supplies, spare parts, training operation and training manuals.
 - b. Provide space for acceptance by Contractor and PPA's project representative.
3. Confirm that all specified features are provided and fully operational before Acceptance Testing.
4. Notify PPA's project representative in writing at least one week prior to each official test session. In the event that a test is not successful, correct noted deficiencies and advise PPA's project representative, at least two days in advance, that test session is ready to resume.
5. PPA's project representative will witness tests.
6. Provide all test and diagnostic equipment including bar code tickets and automatic vehicle identification credentials, currency, credit cards, stock items, and all consumables required for each test.
7. Passing Acceptance testing, even if performed in the presence of PPA's project representative, does not relieve the Contractor of the responsibility to provide a system in accordance with the Specifications.
8. Promptly correct all problems encountered at no cost to the PPA.
9. Test all equipment and systems at each location to confirm that the components installed are fully operational as specified. Substantial completion includes the following.
 - a. All parking access and revenue control system equipment included in project or phase passed lane acceptance test.
 - b. All communications from equipment to software management system and workstations passed lane acceptance test.
 - c. All Uninterruptible Power Sources passed lane acceptance test.
 - d. All electronic signage interfaces complete and passed lane acceptance test.
10. Confirm that all the physical, operational and management features and capabilities of the individual lane components are present in the integrated system. Before start of test, verify that:
 - a. The major subsystems and the entire parking access and revenue control system are fully operational as an integrated system and operating properly.

- b. All spare parts, stock items, and manuals are on site and approved by PPA's project representative.
- c. All training is complete to PPA's project representative's satisfaction.
- d. All test checklists and training evaluation forms have been submitted.
- e. Software management system produced all required reports and passed lane acceptance tests.
- f. Conduct interim system acceptance test at the completion of each phase if phasing of the installation is required.
- g. Maintain detailed records and a logbook of all system acceptance tests, events and issues to be provided to PPA upon completion of the system acceptance test.

Sample System and Lane Test Sequences:

A critical test sequence is to induce fail-over testing for each of the servers constituting the redundant parking access and revenue control server cluster. In each sequence of the test, the secondary and/or tertiary servers must provide successful transfer of data from induced failure of the primary operational server.

Revenue Control System

Ticket Dispenser

- 1) Normal Transaction
 - a) Activate entry station by presence on entry loop/sensor.
 - b) Verify that "Please Press Button for Ticket" is displayed.
 - c) Press button and verify that ticket is dispensed.
 - d) Take ticket and verify that gate opens and closes upon clearing sensor.
 - e) Verify accurate time/date/location code on ticket.
 - f) Verify the ticket # was issued in software management system.
- 2) Back-out with Ticket Taken
 - a) Activate entry station by presence entry loop/sensor.
 - b) Verify that "Please Press Button for Ticket" is displayed.
 - c) Press button and verify that ticket is dispensed.
 - d) Take ticket and back-off of entry loop/sensor.
 - e) Verify that gate closes.
 - f) Verify audible back-out ticket alarm has sounded at the software system workstation.
 - g) Verify ticket is rejected at pay-on-foot station and identified as a back-out ticket.
- 3) Back-out ticket with Ticket Left in Throat
 - a) Activate entry station by presence on entry loop/sensor.
 - b) Verify that "Please Press Button for Ticket" is displayed.
 - c) Press button and verify that ticket is dispensed and gate opens.
 - d) Leave ticket in dispenser and back-off of approach sensor.
 - e) Verify that ticket is retracted by ticket dispenser and dropped into back-out ticket receptacle.
 - f) Verify that gate does not open.
 - g) Verify audible back-out ticket alarm has sounded at the software

- management system workstation.
 - h) Verify ticket is rejected at pay-on-foot station and identified as a back-out ticket.
- 4) Car Remains on Loop/Sensor Without Ticket Taken
- a) Activate entry station by presence on entry loop/sensor.
 - b) Verify that "Please Press Button for Ticket" is displayed.
 - c) Remain on loop/sensor. Verify that after 30 seconds an alarm sounds at software management system workstation to report inactive vehicle.
- 5) Car Remains on Loop/Sensor with Ticket Taken
- a) Activate entry station by presence on entry loop/sensor.
 - b) Verify that "Please Press Button for Ticket" is displayed.
 - c) Press button and verify that ticket is dispensed and gate opens.
 - d) Take ticket. Verify that gate opens.
 - e) Remain on loop/sensor.
 - f) Verify that after 30 seconds an alarm sounds at software system management workstation to report inactive vehicle.

Pay-on-Foot Station

- 1) Normal Transaction
- a) Insert a valid credential and confirm that it is accepted by machine.
 - b) Confirm that machine calculates and displays the payment amount.
 - c) Confirm that machine displays the parking time.
 - d) Confirm that machine displays the permitted means of payment.
 - e) Conduct payment transaction with bank notes in a way requiring that change must be returned – verify change returned.
 - f) Confirm that credential is re-encoded with current system time and returned to patron.
 - g) Confirm that a printed receipt is offered and printed as an option.
 - h) Repeat with credit card. Verify approval within five (5) seconds.
- 2) No Communications Payments
- a) Disconnect data communications from machine.
 - b) Conduct normal transactions as indicated above (cash and credit card).
 - c) Verify that cash payments are processed normally, and credit card processing is done in batch mode.
 - d) Re-establish communications.
 - e) Verify transactions are uploaded to the software management system.
- 3) Invalid Transaction
- a) Insert a back-out/invalidated credential.
 - b) Confirm that machine indicates that credential is invalid.
 - c) Confirm that machine returns credential to patron.
 - d) Confirm that machine instructs patron to proceed to push button for assistance.

- 4) Receipt and Cash Replenishment
 - a) If self-replenishing change, verify status.
 - b) If not, verify that bank note, and coin storage units can be easily removed/inserted. Confirm locking mechanism.
 - c) Verify that credential and receipt read/write device(s) are readily accessible for replacement of roll stock.
 - d) Verify that main door properly aligns and locks upon service completion of above units.

Exit Verifier

- 1) Normal Transaction
 - a) Activate exit station by presence over primary approach sensor. Verify that "Please Scan Ticket " is displayed.
 - b) Scan a valid ticket and verify gate closes.
 - c) Proceed over exit sensor and verify gate closes upon clearing exit sensor.
 - d) Verify that exit station resets for next transaction.
 - e) Verify valid exit at the parking access and revenue control system computer.
- 2) Invalid Transaction
 - a) Activate exit station by presence over primary approach sensor. Verify that "Please Scan Ticket" is displayed.
 - b) Scan a ticket with an expired grace time and verify that gate does not open.
 - c) Remove invalid ticket and verify exit station is reset for the next transaction.
 - d) Verify an invalid exit at software management system computer.
- 3) Grace Period
 - a) Adjust grace period with the software management system.
 - b) Activate exit station by presence over primary approach sensor. Verify that "Please Present Credential " is displayed.
 - c) Scan a credential that has exceeded the programmed grace period into the throat and verify gate does not open and additional fee is computed correctly.
 - d) Once additional fee is paid, proceed over closing sensor and verify gate closes upon clearing closing sensor.
 - e) Verify that exit station resets for next transaction.
 - f) Verify valid exit at the software management system computer.
- 4) Credit Card Transaction
 - a) Activate exit station by presence over primary approach sensor. Verify that "Please Scan Ticket" is displayed.
 - b) Scan a valid unpaid ticket and verify correct fee is displayed.
 - c) Insert credit card into the throat and verify approval within five (5) seconds.
 - d) Remove credit card from throat and verify receipt prints.
 - e) Remove receipt from throat and verify gate opens.
 - f) Proceed over closing sensor and verify gate closes upon clearing closing sensor.
 - g) Verify that exit station resets for next transaction.
 - h) Verify valid exit at software management system computer.

- 5) No Communications Payment
 - i) Disconnect communications from exit station.
 - j) Conduct transactions as indicated above with credit card payments.
 - k) Verify that credit card processing is done in batch mode.
 - l) Re-establish communications.
 - m) Verify transactions are uploaded to the software management system.

Central Cashiering Station

The cashier fee computer and the computer system network will be capable of determining parking fees, based on comparisons with bar coded entry and valet tickets or manually through exception transaction. The fee will be calculated by comparing the time parked to a user defined rate structure. When the cashier processes the entry or valet ticket using the cashier terminal, the fee will be displayed. If a valid credit card is used for payment, the patron will utilize a remote keypad to satisfy credit card payment. A receipt can be generated upon automatically or by request prior to the completion of either a credit card or cash transaction. The cashier terminal must be able to process exception transactions. These transactions include lost tickets, non-revenue tickets, disputed fee transactions, insufficient funds transactions; stolen ticket, back-out transactions, and report canceled or voided transactions. These transactions will be processed in the following manner:

1. If a lost ticket is reported, the cashier will then process a lost ticket transaction by hitting a preset lost ticket key and collecting the fee displayed that is in accordance with the Owner's lost ticket policy. The entire transaction event will be tracked in the central computer system and reported under cashier reports and exception transaction reports. The cashiering terminal will issue a receipt with a related bar code for use in exiting the facility by the user.
2. If a mutilated ticket cannot be electronically read and the ticket number is staff-readable, the ticket number will be entered to seek a match. If a match is made, a normal transaction is processed. If none of these attempts provide a match the cashier will perform a lost ticket transaction. The entire transaction event will be tracked by the central computer system and reported under cashier reports, and exception transaction reports and as with a lost ticket, a receipt with bar code will be issued for use of the patron to exit the facility.
3. If a patron presents a stolen ticket to the cashier, the cashier will seek assistance from the parking supervisor. The entire transaction event will be tracked in the computer system and reported under lane reports, cashier reports, and exception transaction reports.
4. If a patron presents a valid ticket to the cashier and does not have the ability to render payment (non-revenue transaction), the cashier will seek assistance from the parking supervisor. The entire transaction event will be tracked in the computer system under cashier reports and exception transaction reports.
5. The cashier terminal will be capable of performing a disputed fee and insufficient fund transactions. To process this transaction type, the cashier will seek assistance from the parking supervisor. The entire transaction event will be tracked in the computer system and reported under lane reports, cashier reports, and exception transaction reports.
6. The cashier terminal will be capable of canceling and voiding transactions. Should a cashier cancel that transaction and initiate a different transaction type for the same patron, this will be considered an exception transaction and will be tracked in the central computer system and reported under cashier reports, and exception transaction reports.

7. The cashier terminal will communicate with the central computer system to enable posting all exception transactions on the exception transaction report, lane report, and individual cashier report.
8. The cashier terminal will process transactions in at least 3 seconds, process 180 transactions per hour, calculate fees, exception counts, revenue amounts; transaction counts, read non-mutilated tickets with 99.9% accuracy, have no more than 1 data transmission error per hour, and will be able to transmit information to the central computer system with full accuracy.
9. The fee computer will have locking tamper-resistant connections for power and communications wiring.
10. The fee computer will process credit cards utilizing a modular remote type reader.
11. The fee computer will include an integrated or modular cash drawer with removable trays.
12. The fee computer will actuate the patron fee display.
13. The cashier fee computer will be able to continue computing fees if communication with the central computer system fails.
14. The fee computer will recognize a minimum of 25 individual cashiers.
15. The fee computer will only operate when a cashier uses the proper ID to log on.
16. The fee computer will issue receipt automatically and upon request that contains the date, time, fee collected, transaction number, and lane number.
17. The patron fee display will indicate the prescribed fee, the amount tendered and the change due. The display will be housed in an impact resistant NEMA Type IV weather resistant enclosure or equivalent. The fee display will be visible to patrons and capable of being mounted in/the central cashiering booth.

AVI Reader System

Normal Transaction

- a. Activate vehicle detection loop.
- b. Confirm that credential is accepted, and gate opens for passage.
- c. Confirm that credential use data is logged to database.

I. Pass-back Test

- a. Activate vehicle detection loop.
- b. Confirm that credential is accepted, and gate opens and closes after vehicle passes.
- c. Repeat process.
- d. Confirm that credential is not accepted, and pass-back alarm is activated on the software management system.
- e. Confirm that Pass-back data is logged to database.

II. Invalid Transaction

- a. Activate vehicle detection loop.
- b. Confirm that credential is NOT accepted, and gate does NOT open.
- c. Confirm that attempted use of credential is logged to database.

III. Intercom System

- a. Verify that all intercoms activate and interacts audibly w/appropriate stations when buttons are depressed.

LPR System

Normal Transaction

- a. Activate vehicle detection loop.
- b. Confirm that credential is accepted, and gate opens for passage.
- c. Confirm that credential use data is logged to database.

I. Pass-back Test

- a. Activate vehicle detection loop.
- b. Confirm that credential is accepted, and gate opens and closes after vehicle passes.
- c. Repeat process.
- d. Confirm that credential is not accepted, and pass-back alarm is activated on the software management system.
- e. Confirm that Pass-back data is logged to database.

II. Invalid Transaction

- a. Activate vehicle detection loop.
- b. Confirm that credential is NOT accepted, and gate does NOT open.
- c. Confirm that attempted use of credential is logged to database.

III. Intercom System

- a. Verify that all intercoms activate and interacts audibly w/appropriate stations when buttons are depressed.

Thirty-Day Operational Test and Final Acceptance

1. After Substantial Completion and opening of the facility, PPA's project representative will conduct an operational test for thirty (30) days.
2. Provide a qualified and experienced technician on-site within one hour during the thirty-day test.
3. Performance Standards:
 - a. All mechanical components are operational without downtime. For each downtime period of four (4) hours, one (1) day will be added to the test duration.
 - b. All electronic components are operational without downtime or programming problems for the complete monthly reporting cycle. For each down time period of one (1) hour but less than eight (8) hours or programming problems that delay report cycle, two days will be added to the test duration.
 - c. All reports correlate 100% with cash receipts in each pay-on-foot station.

Training

1. Develop and implement a comprehensive on-site training program for authorized personnel.
2. Design the curriculum so that each group is trained in the full repertoire of system commands that they may have to use in course of performing designated functions.
3. Schedule training no more than two (2) weeks prior to use of equipment.
4. Include lectures, visual presentations, hands-on operation of equipment and any materials necessary to perform job. Provide each trainee with a complete set of training materials and operating manuals during training session, to be kept for use on job at

completion of training.

5. Training categories (PPA to identify names and numbers of personnel for each category):

Attendants:

- a. Operate parking access and revenue control system, including ability to process normal and exception transactions, and to understand any and all messages displayed.
- b. Clear ticket and paper jams and trouble shoot pay-on-foot stations.
- c. Reset system after a power failure.
- d. Perform collections.
- e. Replenish cash.
- f. Change receipt paper and ribbons.

Supervisors:

- a. Same basic training as Attendant, plus:
- b. Understand any and all system messages provided by the software management system, including but not limited to alarm messages, indications of attempts to compromise the parking access and revenue control system and explanations of atypical lane activity displayed by count system, and revenue control system.
- c. Correlate tickets issued with vehicles present, time parked with revenue generated.
- d. Operate the software management system and understand purpose and data contained within any and all reports produced by the software management system.
- e. Process exception transactions occurring at exit verifiers.

Maintenance Personnel:

- a. Same basic training as Attendant, plus:
- b. Perform primary maintenance on all major components of system.
- c. Replenish all system supplies.
- d. Replace internal elements such as ticket transport units or printers.
- e. Perform recommended preventative maintenance program items.
- f. Lubricate and clean internal components.
- g. Remove and replace gate arms and adjust gate arm travel.
- h. Be certified by contractor to trouble shoot all systems and perform primary maintenance.
- i. At conclusion of maintenance training session(s), submit to PPA's project representative a list naming qualified Parking Operator maintenance personnel. Detail the level of maintenance/repair functions each of Parking Operator's personnel are qualified to perform.

Managers & System Administrators:

- a. Same basic training as Supervisors, plus:
- b. Utilizing data from the software management system, perform statistical analysis and checks and balances over actions of Supervisors and subordinates.
- c. Two months after Final Acceptance, provide additional training utilizing real data.

PART V

CONTRACT TERMS AND CONDITIONS

V-1. Sample Contract. A sample contract is attached to this solicitation as *Appendix B*. Please review the sample contract carefully. Any exceptions or proposed amendments to the contract must be clearly noted in the proposal (Tab H) in order to be considered.

Exceptions or requested changes to the sample contract will be considered a part of the response. Exceptions or requested changes to the sample contract should be made with great care. The Authority may reject all or some of those changes or exceptions, in its sole discretion.

The Authority's Contractor Integrity Provisions are attached to the proposed form of contract as Exhibit "A". Those Provisions apply to every Authority contractor and any party seeking to contract with the Authority. By submitting a proposal to this public procurement process the potential contractor agrees to comply with the Contractor Integrity Provisions.

The Authority may amend the terms of the attached Sample Contract at any time during the procurement process. For example, the Authority may need to amend the terms depending on whether the Authority elects to purchase the System or lease the System.

V-2. Initial Term. The initial term of this Agreement will commence on the Effective Date and will end twenty-four (24) consecutive months after both Parties sign the Final System Acceptance Certificate ("Initial Term") subject to the termination provisions set forth in Section 13 of the Agreement.

V-3. Options to Extend. After the conclusion of the Initial Term, the Authority, in its sole discretion, may extend the term of this Agreement for up to eight (8) additional one-year periods ("Option Periods") for the ongoing maintenance and support of the System based on the same terms and conditions of the Initial Term and subject to the termination provisions set forth in Section 13 of the Agreement. The Authority will provide Contractor with at least 30 days written notice of its intention to exercise its option to renew prior to the end of the then current term.

Appendix A

Proposal Form

THE PHILADELPHIA PARKING AUTHORITY
701 MARKET STREET – SUITE 5400
PHILADELPHIA, PA 19106

RFP No. 21-03

PARKING ACCESS AND REVENUE CONTROL SYSTEM FOR CENTER CITY GARAGES 2021

PROPOSAL FORM

1. The undersigned submits this proposal in response to the above referenced RFP No. 21-03 Parking Access and Revenue Control System 2021, being familiar with and understanding the advertised notice of opportunity, Instructions, Work Statement, Proposal Form, Affidavit of Non-Collusion, and Addenda if any (the "Proposal Documents"), as prepared by the Philadelphia Parking Authority and posted on the Authority's Internet website and on file in the office of the Authority at 701 Market Street, Suite 5400, Philadelphia, PA 19106. The party submitting a proposal is the "Offeror".
2. The Authority reserves the right to withdraw and cancel this RFP prior to opening or to reject any and all proposals after proposals are opened if in the best interest of the Authority, in the Authority's sole discretion. If the Authority accepts Offeror's offer, Offeror agrees to execute a contract memorializing the proposal's terms if the contract is delivered to Offeror within 60 days of the proposal opening date. This provision will not be interpreted to preclude the execution of a contract related to this proposal outside of that 60 day period.
3. Offeror acknowledges receipt of the following addenda:

Addendum Number	Date Received
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

4. Cost Form: Attached as Appendix D.

The Authority wishes to evaluate the following options to procurements of the systems identified in the scope of services.

- a. Conventional Purchase
- b. Lease (7-year term, no end of lease buy-out)
- c. HaaS/SaaS

Offeror shall provide and identify an individual pricing sheet (supplied) for each approach, by facility, plus a cumulative price sheet for each approach. Pricing for each approach shall include all components of the system as identified in this document including all labor, hardware, software and civil engineering and any other component of the project to provide a turnkey system as described in this document.

Additionally, all leases, including Haas/SaaS, must include a preventative maintenance program, all software and hardware updates, patches, etc., and any improvement or enhancement to the initial system installed over the life of the lease or HaaS/SaaS offered. *There shall be no additional cost to the PPA during the term of the lease other than repairs or replacement due to damage, vandalism, acts of God, or consumable costs such as bar code tickets, receipt paper and replacement AVI transponders.*

Terms of the lease shall be clearly identified and will be considered on the best financial return to the PPA.

5. Requirement and Site Visit Statement: The undersigned Offeror agrees to provide a Parking Access and Revenue Control System as specified in the Work Statement, any Addenda, if issued and the response submitted.

The undersigned also has visited and examined the site(s) involved, as required. As a consequence of this inspection, the undersigned Contractor has knowledge of local conditions and is fully cognizant of the circumstances and conditions that may affect and completion of the work and the cost thereof.

Signature

Name
(Please Print)

Title

Date

6. Offeror Signatures: Complete one section below.

If proposal is by a corporation, form must include the date and be signed here by (a) President or Vice President, and (b) Secretary, Assistant Secretary, Treasurer, Assistant Treasurer, or Officer and (c) a corporate seal must be affixed. If this form is not so signed, a corporate resolution authorizing form of execution must be attached to this proposal.

_____ Signature	_____ Signature
_____ Typed or Printed Name	_____ Typed or Printed Name
_____ Title	_____ Title
_____ Business Name of Offeror	
_____ Street Address	_____ SEAL:
_____ City/State/ZIP Code	
_____ Telephone Number	_____ Date

If offer is by a business entity other than a corporation form must be dated and signed here:

_____ Authorized Signature	_____ Business Name of Offeror
_____ Typed or Printed Name	_____ Street Address
_____ Title	_____ City/State/ ZIP Code
_____ Date	_____ Telephone Number
_____ Type of Entity	

7. Affidavit of Non-Collusion:

State of: _____
County of: _____

RFP No. _____

I state that I am _____ (Title) of _____ (Name of my organization) and that I am authorized to make this affidavit on behalf of my firm, and its owners, directors, and officers. I am the person responsible in my firm for the price(s) and the amount of this proposal and I have placed my signature below.

I state that:

(1) The price(s) and amount of this proposal have been arrived at independently and without consultation, communication or agreement with any other contractor, Offeror or potential Offeror.

(2) Neither the price(s) nor the amount of this proposal, and neither the terms nor the approximate price(s) nor approximate amount of this proposal, have been disclosed to any other firm or person who is a Offeror or potential Offeror, and they will not be disclosed before proposal opening.

(3) No attempt has been made or will be made to induce any firm or person to refrain from submitting a proposal in response to this Proposal, or to submit a proposal higher than this proposal, or to submit any intentionally high or noncompetitive proposal or other form of complementary proposal.

(4) The proposal of my organization is made in good faith and not pursuant to any agreement or discussion with, or inducement from, any firm or person to submit a complementary or other noncompetitive proposal. I have read, understand and will abide by the Authority's Contractor Integrity Provisions.

(5) _____ (my organization's name) its affiliates, subsidiaries, officers, directors and employees are not currently under investigation by any governmental agency and have not in the last four years been convicted or found liable for any act prohibited by State or Federal law in any jurisdiction, involving conspiracy or collusion with respect to bidding on any public contract, except as follows:

I state that _____ (my organization's name) understands and acknowledges that the above representations are material and important and will be relied on by The Philadelphia Parking Authority when awarding the contract for which this proposal is submitted. I understand and my organization understands that any misstatement in this affidavit is and shall be treated as fraudulent concealment from The Philadelphia Parking Authority of the true facts relating to the submission of proposals / proposals for this contract.

SWORN TO AND SUBSCRIBED
BEFORE ME THIS ____ DAY
OF 20____

Signature

Printed Name

Notary Public
My Commission Expires: _____

8. Qualifications:

a. **Type of business:** Individually owned ☐
Check one Partnership ☐
Corporation ☐
Other ☐

b. **Number of employees:** Under 25 ☐
Check one Under 50 ☐
Under 100 ☐
Over 100 ☐

c. **If you have had previous contracts with the Authority, list date and product or service provided:**

i.

ii.

iii.

d. **Philadelphia Business Activities License Number:** _____

e. **Federal EIN Number:** _____

9. Certified Apprenticeship Program Participation

For all applicable work, Offeror or subcontractor must be currently participating in an approved Apprenticeship Program which is currently registered with the U.S. Department of Labor or a state apprenticeship agency for each craft or trade that will be engaged in the Work. Bidders shall employ apprentices whose training and employment are in full compliance with the Apprenticeship and Training Act, approved July 14, 1961.

- 1) Does Offeror or subcontractor participate in an approved Apprenticeship Program which is currently registered with the U.S. Department of Labor or a state apprenticeship agency for each craft or trade that will be engaged in the Work? (Attach appropriate documents evidencing participation and enrollment in Apprenticeship Program[s])

____ Yes ____ No

- 2) Is Offeror or subcontractor a signatory to a collective bargaining agreement for each craft or trade that will be engaged in the Work? (Attach appropriate documents evidencing the relevant agreement[s])

____ Yes ____ No

If the answer was "Yes" to questions 1 or 2, please answer question 3 (including sub-parts) below.

- 3) Does Offeror or subcontractor, or its labor for each craft or trade, have apprentices and trainees currently participating in said Apprenticeship Program[s]?

____ Yes ____ No

- (a) If yes, has Offeror or subcontractor, or its labor for each craft or trade, graduated at least one (1) enrollee in each of the past three (3) years?

____ Yes ____ No

- (b) If yes, has Offeror or subcontractor (or its labor for each craft or trade) successfully graduated at least 75% of the program enrollees in each of the past three (3) years*? (Graduation rate is calculated by dividing graduates in a calendar year by the number of enrollees in that year.)

____ Yes ____ No

The Undersigned hereby certifies that it participates, directly or through its labor for each craft or trade, in an approved Apprenticeship Program which is currently registered with the U.S. Department of Labor or a state apprenticeship agency for each craft or trade that will be engaged in the Work; that the attached documentation is true and correct proof of its current participation; and will continue to participate in applicable apprenticeship programs for each craft or trade for the full duration of the Work.

Authorized Signature

Print Name of Signer

Name of Company

Title of Signer

Date

LIST OF SUBCONTRACTORS AND MATERIAL SUPPLIERS

(copy page as needed)

Undersigned agrees, if notified of the acceptance of this bid, that he will utilize the following material suppliers, for the following noted types of work. No substitutions shall be made in the employment of material suppliers without written approval from the Authority. The undersigned acknowledges that the Philadelphia Parking Authority reserves the right to reject any material suppliers listed below after bids are opened at no additional cost to Authority.

SUBCONTRACTOR OR MATERIAL SUPPLIER		
Name:		
Type of Work:		
Phone:	Phone:	
Address:		
City:	City:	City:
Union Affiliation (if any):		
Signature of Individual, Owner or Partner:		
Name and Title of Signer:		
Name of Firm:		
Date:		
SUBCONTRACTOR OR MATERIAL SUPPLIER		
Name:		
Type of Work:		
Phone:	E-mail:	
Address:		
City:	State:	ZIP Code:
Union Affiliation (if any):		
Signature of Individual, Owner or Partner:		
Name and Title of Signer:		
Name of Firm:		
Date:		

Philadelphia Parking Authority

SMALL AND SMALL DIVERSE BUSINESS PARTICIPATION SUBMITTAL

RFP Name and Number: _____

Offeror: _____

Contact Name: _____ Email: _____

OFFEROR INFORMATION:

Does the Offeror hold a Small Business Procurement Initiative (SBPI) certificate issued by the Pennsylvania Department of General Services? ☐ Yes ☐ No (MUST check one)

If yes, please identify each category that applies to your business:

1. _____.
2. _____.
3. _____.
4. _____.
5. _____.

The Offeror must attach a copy of their SBPI certificate to this page. Offeror will be required to maintain their status as a certified Small and Small Diverse Business throughout the entire term of the contract.



Proposal Decline Form: RFP No. 21-03 – Parking Access and Revenue Control System Center City Garages

If you did not submit an offer to the Authority for this solicitation, please return this form immediately.

The undersigned contractor declines to submit an offer for this project.

Name: _____

- ☐ Requirements too “tight” (explain below)
- ☐ Unable to meet time period for responding to this Proposal
- ☐ We do not offer this product or service
- ☐ Our schedule would not permit us to perform
- ☐ Unable to complete Work Statement
- ☐ Work Statement unclear (explain below)
- ☐ Unable to meet Insurance Requirements
- ☐ Unable to meet Contract Requirements (explain below)
- ☐ Other (specify below)

Comments:

Upon completion of this form, please email the form to Mary Wheeler, Manager of Contract Administration at mwheeler@philapark.org.

Appendix B

Sample Contract

**AGREEMENT FOR THE PURCHASE, IMPLEMENTATION, AND MAINTENANCE
OF A PARKING ACCESS AND REVENUE CONTROL SYSTEM
BY AND BETWEEN
THE PHILADELPHIA PARKING AUTHORITY
AND**

Contract No. K-21-0004

THIS AGREEMENT ("Agreement") is entered into this _____ day of _____ 2021 ("Effective Date") by and between the **Philadelphia Parking Authority**, an agency of the Commonwealth of Pennsylvania and a body corporate and politic, with its principal address at 701 Market Street, Suite 5400, Philadelphia, PA 19106 ("**Authority**") and _____, with a registered address at _____ ("**Contractor**").

RECITALS

WHEREAS, the Authority, a public body corporate and politic organized and existing under the Act of 2001, June 19, P.L. 287, No. 22, as amended;

WHEREAS, on _____ 2021, the Authority issued a Request for Proposals "No. 21-3 Parking Access and Revenue Control Equipment Center City Garages 2021" ("RFP") for the Purchase, Implementation, and Maintenance of a Parking Access and Revenue Control System ("System") to be used at various parking garages operated by the Authority in the City of Philadelphia;

WHEREAS, on _____, Contractor submitted a conforming proposal to the RFP ("Proposal");

WHEREAS, Contractor has demonstrated a sound understanding of the Authority's requirements through Contractor's examination of the RFP, software and product demonstrations, and exchange of information leading up to this Agreement;

WHEREAS, Contractor has the necessary experience, expertise, and skill to provide, install, and maintain the System;

WHEREAS, Contractor warrants that the System and related services will meet the Authority's specifications and requirements as described in the Authority's Work Statement identified in the RFP; and

WHEREAS, upon review of Contractor's Proposal responding to the RFP, the Authority's Board voted at a public meeting to award this contract to Contractor.

NOW, THEREFORE, in consideration of the covenants and conditions contained herein, intending to be legally bound, the Parties hereto hereby agree as follows:

1. DEFINITIONS

“Cardholder Data” refers to any combination of one or more of the following items – the primary account number, cardholder name, expiration date, or service code, and security-related information (including card validation codes/values, full track data, PINs and PIN blocks) used to authenticate cardholders or authorize payment card transactions (or both) at each of the Garages.

“Cardholder Data Services” means services provided by Contractor to the Authority that are directly involved in transmitting, processing, or storing cardholder data by or on behalf of the Authority or in connection with the System.

“Effective Date” means the date identified in the introductory paragraph of this Agreement.

“Equipment” means all mechanical and electronic components to be provided by Contractor to the Authority necessary for the System to function properly as specified, including, but not limited to, all hardware, wiring, conduit, connections, server equipment, pay stations, ticketing machines, gate activators and lift mechanics, fee computers, automated pay stations, spare parts, field dynamic message signs, garage dynamic message signs, and all associated equipment.

“Final System Acceptance” is defined in Section 11 of this Agreement.

“Garages” means the parking garages identified in the Work Statement.

“Maintenance Services” means the maintenance and support services including preventative maintenance services set forth in Exhibit “A” Appendix A-6 entitled “Warranty and Maintenance Services” that Contractor must provide to the Authority during the Initial Term and all exercised Option Periods of this Agreement for which the Authority has paid Contractor for maintenance and support services for the System.

“Malfunction”, “Error”, or “Defect” means any malfunction, operational error, damage, defect, or other error or problem occurring with the System or the Equipment, including the Software, in whole or in part, as well as a breach of any warranty set out in this Agreement. A Malfunction includes anything taking place in the System which adversely affects the quality, content, reporting and completeness of the System. These terms also mean, in connection with the Software, either a deviation between the function of the Software and the documentation furnished by Contractor for the Software, or a failure of the Software which degrades the use of the Software.

“Parties” means the Authority and Contractor.

“PCI DSS” means the most recent version of the Payment Card Industry Data Security Standard Version of at least version 3.2.1.

“Service Levels” means the level of service expected by the Authority from the Contractor as described in Appendix-6 entitled “Warranty and Maintenance Services”.

“Services” means all services and work provided by Contractor to the Authority described in the Work Statement including, but not limited to, the removal and disposal of the existing parking access and revenue control system at the Garages, the procurement, delivery, installation, implementation, design, testing, and configuration of the System, a facility to house the Equipment during testing of the System, the cost of the Software License(s), System Warranty, the training of Authority employees on using the System, and the Maintenance Services during the Initial Term and all exercised Option Periods of this Agreement.

"Software" means the aggregate of the Contractor Proprietary Software and all other third party software installed as part of the System (such as anti-virus software, license plate recognition software, and all other commercial-off-the-shelf software required by the System) licensed to the Authority.

“System” means the Parking Access and Revenue Control System as a whole including all associated Equipment, Software, and Services to be delivered by Contractor to the Authority under this Agreement.

“System Infrastructure” means constructed elements, including concrete islands, electrical circuits, communication cabling, fiber optic cabling, wiring, conduit, and other constructed elements that the Authority will provide or cause to be constructed to facilitate the installation and operation of the System.

“Upgrade” or “Upgrades” means any future improvement which can be, or which is, made to the System, major or minor, developed by the Contractor during the term of this Agreement.

“Warranty Period” means the period of time beginning on the day both Parties sign the Final System Acceptance Certificate and continuing for twenty-four (24) consecutive months. The Warranty Period is further defined and described in Section 12 of this Agreement and Exhibit “A”, Appendix ____

“Work Statement” is defined and described in the RFP, Exhibit “A”, pages__.

"_____ **Software**" means Contractor's Proprietary Software.

2. AGREEMENT DOCUMENTS

The documents forming this entire Agreement between the Authority and Contractor consist of this Agreement and the following:

Exhibit “A” - RFP

Appendix A-1: Functional Specifications

Appendix A-2: Garage Locations

Appendix A-3: Licensed Materials

Appendix A-4: Final System Acceptance Certificate

Appendix A-5: Project Implementation Schedule

Appendix A-6: Warranty and Maintenance Services

Appendix A-7: Payment Card Industry (PCI-DSS/PCA-DSS) Requirements
Appendix A-8: Work Order Form

Exhibit “B” - Compensation and Payment Schedule

Appendix B-1: System Implementation Payment Schedule

Appendix B-2: Warranty & Maintenance Services Price List

Exhibit “C” - Contractor Proprietary Software License Agreement ("License Agreement")

Exhibit “D” - Insurance Requirements

Exhibit “E” - Notice of Exercise of Option to Extend Agreement

Exhibit “F” Contractor’s Proposal

Exhibit “G”- Philadelphia Parking Authority Contractor Integrity Provisions

3. TERM OF AGREEMENT

3.1. Initial Term. The initial term of this Agreement will commence on the Effective Date and will end twenty-four (24) consecutive months after both Parties sign the Final System Acceptance Certificate (“Initial Term”) subject to the termination provisions set forth in Section 13 of this Agreement.

3.2. Options to Extend. After the conclusion of the Initial Term, the Authority, in its sole discretion, may extend the term of this Agreement for up to eight (8) additional one-year periods ("Option Periods") for the ongoing maintenance and support of the System based on the same terms and conditions of the Initial Term and subject to the termination provisions set forth in Section 13 of this Agreement. The Authority will provide Contractor with at least 30 days written notice of its intention to exercise its option to renew prior to the end of the then current term.

3.3. No Waiver. The Authority’s decision to extend the term of this Agreement is not a waiver of the "time is of the essence" provision in Section 5.

4. WORK STATEMENT

4.1. Work Statement. Contractor agrees to procure, install, and maintain the System as set forth in the Work Statement section of the RFP, Exhibit “A”, pages ____ (“Work Statement”).

4.2. Additional Equipment. All additional equipment, parts, or services required for Final System Acceptance as detailed in the Statement Work (Exhibit “A”) but not reflected in the Contractor's Proposal, including all Upgrades, will be the sole responsibility of the Contractor and at no cost to the Authority.

4.3. Notification. Contractor must notify the Authority promptly of any factor, occurrence, or event coming to its attention that may affect Contractor's ability to meet the requirements of the Agreement, or that is likely to occasion any material delay in completion of the projects contemplated by this Agreement. Such notice must be given in the event of any loss or reassignment of key employees, threat of strike, or major equipment failure.

4.4. Contractor's Proprietary Software. The terms for the use of Contractor's Proprietary Software delivered pursuant to the Work Statement, including subsequent Software upgrades, updates, customizations or enhancements thereto, will be as set forth in the Contractor Proprietary Software License Agreement (Exhibit "C") and at no additional cost to the Authority.

4.5. Third Party Software. With respect to any Software installed pursuant to this Agreement that is proprietary to a vendor other than Contractor, such Software will be licensed to the Authority pursuant to the terms of the applicable third party license agreements.

4.6. Maintenance Services. At all times while this Agreement is in effect, Contractor will provide all Maintenance Services necessary for the System to perform and operate in accordance with the specifications set forth in this Agreement at no additional cost to the Authority. The Maintenance Services to be provided by Contractor are set forth in Appendix A-6 plus any approved changes.

4.7. Project Manager. Contractor must coordinate the fulfillment of this Agreement with the Authority's Project Manager and the Authority's authorized designee. The Authority's Project Manager is _____, who may be reached at 215-683-____ or by e-mail at _____@philapark.org.

5. PROJECT IMPLEMENTATION SCHEDULE

5.1. Project Implementation Schedule. Contractor will perform the Services according to the schedule set out in Appendix A-5, entitled "Project Implementation Schedule" plus any approved changes to that schedule.

5.2. Milestone Acceptance. Contractor may not proceed to the next milestone identified in the Project Implementation Schedule until authorized by the Authority's Project Manager in writing. The Authority's Project Manager will have sole discretion in reasonably determining whether any milestone has been successfully completed.

5.3. Milestone extension. The Authority's Project Manager may, in his sole discretion, extend the duration of any milestone event identified in the Project Implementation Schedule for a reasonable amount of time and in each case in writing to the Contractor.

5.4. Time of the Essence. Timely performance is a primary consideration in this Agreement, and, therefore, time is expressly made of the essence with respect to each and every milestone event identified in the Project Implementation Schedule.

6. COMPENSATION

6.1. Maximum Compensation. The maximum amount payable for all Services provided under this Agreement must not exceed _____ Dollars (\$) during the Initial Term ("Maximum Compensation"). Any additional services or products requested by the Authority that would exceed the Maximum Compensation must comply with the procedures and requirements set forth in Section 9.

6.2. Payment Schedule. Progress payments will be made by the Authority to the Contractor pursuant to the System Implementation Payment Schedule identified in Exhibit B-1.

6.3. All payments are based upon the Authority's Project Manager's acceptance of Contractor's performance as evidenced by the Contractor's successful completion of all of the deliverables as set forth for each milestone event identified in the System Implementation Payment Schedule.

6.4. Payment for any part or parts of the System provided hereunder, or inspection or testing thereof by the Authority, will not constitute acceptance or relieve Contractor of its obligations under this Agreement. The Authority may inspect the components of the System when delivered and reject upon notification to Contractor any and all parts of the System, which do not conform to the specifications or other requirements of this Agreement. Components of the System, which are rejected, must be promptly corrected, repaired, or replaced by Contractor. If the Authority receives components of the System with defects or nonconformities not reasonably apparent on inspection, then the Authority reserves the right to require prompt correction, repair, or replacement by Contractor in accordance with Contractor's warranty obligations.

6.5. Payment Schedule for Option Periods. Maintenance Services, as set forth in Exhibit "A" Appendix A-6 entitled "Warranty and Maintenance Services", will be exercised as options at the sole discretion of the Authority on an annual basis and will be paid on a fixed fee basis pursuant to Exhibit "B"-2 entitled "Warranty & Maintenance Services Price List".

6.6 Title and Risk of Loss. The Authority will not be responsible for any damage to persons or property as a result of the use, misuse, theft, damage, loss or other failure of the System. Title to and risk of loss related to the System, including storage and delivery of the Equipment will be transferred from the Contractor to the Authority upon execution of the Final System Acceptance Certificate by the Authority. Contractor will transfer title to the System free and clear of all liens, claims, and encumbrances arising or attaching prior to the date of Final System Acceptance by the Authority. Contractor covenants and agrees that it will pay or cause to be paid all sums legally due and payable by it on account of any labor performed or materials furnished in connection with any work performed on the System on which any lien is or can be validly and legally asserted against its or the Authority's interest in the System, and that it will indemnify the Authority against all loss, cost, or expense based on or arising out of asserted claims or liens against property of the Authority, or against the right, title and interest of the Authority in the System. In the event any such lien is attached to the System or property of the Authority or any portion thereof, Contractor will cause the lien to be discharged of record within twenty (20) days after the date of the filing of the lien.

6.7. Non exclusivity. Contractor acknowledges that this Agreement is not an exclusive contract for Services and that the Authority may enter into agreements with other vendors for similar services that are subject to this Agreement or the Authority may have its own employees perform services similar to those services contemplated by this Agreement.

6.8. Invoicing. Contractor will invoice the Authority monthly and in arrears for payment for Services as provided in the System Implementation Payment Schedule in a form acceptable to the Authority. All invoices must be forwarded to the Authority's Project Manager identified in Section 4.7

7. DATA AND FACILITIES

Contractor acknowledges that it has in its possession all applicable specifications and drawings, and all other documents to which reference is made herein and/or which are matched hereto, and all such data are adequate to enable Contractor to fairly determine its ability to perform the work called for herein at the price and in accordance with the schedule set forth herein. Contractor represents that it now has or can readily procure without assistance of the Authority all facilities, machinery and equipment necessary for the performance of this Agreement.

Any access by Contractor to any aspect of the Authority's network must comply at all times with all applicable Authority access and security standards, as well as all other or additional restrictions or standards for which the Authority provides written notice to Contractor. Contractor will provide any and all information that the Authority may reasonably request in order to determine appropriate security and network access restrictions and verify Contractor's compliance with the Authority's security standards. If at any point in time the Authority, in its sole discretion, determines that Contractor's access to any aspect of the Authority's network presents an unacceptable security risk, the Authority may immediately suspend or terminate Contractor's access and, if the risk is not promptly resolved to the reasonable satisfaction of the Authority, may terminate this Agreement effective upon ten (10) business days' notice (including without restoring any access to the Authority's network to Contractor).

8. STANDARDS OF SERVICE

In connection with the performance of any Services pursuant to this Agreement:

8.1. Number of Employees. Contractor warrants it will provide sufficient employees to complete the Services ordered within the applicable time frames established pursuant to this Agreement. Furthermore, Contractor will, at its sole expense, supply all tools, equipment, and other materials necessary to perform the Services contemplated in this Agreement.

8.2. Skill of Employees. Contractor warrants that its employees will have sufficient skill, knowledge, and training to perform the Services and that the Services will be performed in a professional and workmanlike manner.

8.3. Security and Safety. Contractor must require its employees providing Services at the Garages to comply with applicable Authority security and safety regulations and policies

8.4. Contractor's obligations to employees. Contractor must provide for and pay the compensation of its employees and must pay all taxes, contributions, and benefits (such as, but not limited to, workers' compensation benefits) which an employer is required to pay relating to the employment of employees. The Authority will not be liable to Contractor or to any employee for Contractor's failure to perform its compensation, benefit, or tax obligations. Contractor will indemnify, defend, and hold the Authority harmless from and against all such taxes, contributions, and benefits (including any interest and penalties assessed against Contractor) and will comply with all associated governmental regulations, including the filing of all necessary reports and returns and the proper classification of its employees and contractors engaged to perform Services in connection with the System.

8.5. Replacement of Employees, Independent Contractors, and Subcontractors. During the course of performance of Services, the Authority may request replacement of an employee, a proposed employee, an independent contractor of Contractor, or a Subcontractor, provided that there is reasonable cause. In such event, Contractor must, within five (5) working days of receipt of such request from the Authority, provide a substitute person of sufficient skill, knowledge, and training to perform the applicable Services. When the Authority notifies Contractor that (i) such person's level of performance is unacceptable, (ii) such person has failed to perform as required, or (iii) such person, in the Authority's sole opinion, lacks the skill, knowledge or training to perform at the required level, then Contractor will be required to review the work performed by said person, confirm the quality of work, and correct any items the Contractor deems incorrect, defective, or otherwise failing to meet the required level of Work or Services as set forth in this Agreement.

9. AMENDMENTS

9.1. Changes. Any proposed change(s) to this Agreement that relates to (i) the deletion of Equipment or Services, (ii) adding additional Equipment or Services, (iii) changing or modifying Equipment or Services, or (iv) making other changes that materially alters the scope of this Agreement, including the approval of all performance and payment schedules must be approved by the Authority's Executive Director in writing.

9.2. Additional Compensation. The Parties agree that only the Authority's Board may consent to any additional compensation for Services in excess of the Maximum Compensation during the Initial Term and in excess of the fixed fee pricing identified in the Warranty & Maintenance Services Price List for any Option Periods and in each such case in a written Amendment to this Agreement signed by the Authority's Executive Director.

9.3. Procedures. As soon as reasonably practical, the Parties will as necessary meet to discuss any proposed change(s) to this Agreement and to ascertain its cost and schedule impacts, if any.

10. TAXES AND OVERHEAD COSTS

10.1. Taxes. Contractor will be responsible for payment of all taxes, fees, duty, levy, contributions or charges, including any interest and penalties, applicable to the conduct of Contractor's business.

10.2 Contractor hereby certifies that neither it, nor any of its parent or subsidiary entities, is delinquent or overdue in the payment of any tax or fee to the City or County of Philadelphia or the Commonwealth of Pennsylvania. Contractor certifies that its Philadelphia Activity License No. is: _____. Contractor further certifies that its Federal Tax ID. No. is: _____.

10.3. As an agency of the Commonwealth of Pennsylvania, and a local government agency, the Authority is exempt from the payment of state and local sales and use and other taxes on material, equipment or other personal property. Contractor agrees that the fees, prices or rates stated in this Agreement (1) do not include any state or local taxes, surcharges or fees on the Authority in connection with this transaction, and (2) do include all other applicable taxes for which Contractor is liable. In the event Contractor's performance under this Agreement creates a tax liability, such taxes, including but not limited to, real estate taxes, school taxes, use & occupancy taxes, and sales taxes will be the sole obligation of Contractor, and Contractor will maintain current accounts as to the payment of such taxes and be liable over to the Authority for any taxes assessed against the Authority as a result of Contractor's performance under this Agreement.

10.4. Overhead costs. At no time will Contractor be reimbursed for any administrative or overhead costs incurred by Contractor in fulfilling the terms of this Agreement, including, but not limited to, any time, fees or expenses associated with Contractor's travel, fuel, lodging, or food in connection with Contractor's Services without the advanced written approval of the Authority's Executive Director.

11. FINAL SYSTEM ACCEPTANCE

11.1. Upon final completion of the installation and implementation of the System, the Authority and Contractor will conduct one or more acceptance test(s) to determine if the System satisfies the applicable acceptance criteria set forth in the Work Statement (Exhibit "A"). Final System Acceptance will occur upon successful completion of the acceptance tests. When Final System Acceptance occurs, the Parties will memorialize this event by promptly executing a Final System Acceptance Certificate (Exhibit "A", Appendix A-4). Only the Authority's Executive Director is authorized to execute and issue the Final System Acceptance Certificate to the Contractor. The granting of any payment by the Authority, or the receipt thereof by Contractor, will in no way lessen the liability of Contractor to replace unsatisfactory work or the licensed Software, although the unsatisfactory character of such work or licensed Software may not have been apparent or detected at the time such payment was made.

11.2. If, in the sole discretion of the Authority's Executive Director, any part of the System does not meet the requirements of the acceptance test specifications, the Authority may (1) permit Contractor to repair or replace the System or Software part(s) so that the same meets

the acceptance test specifications in all material respects, all at no additional expense to the Authority, or (2) reject the System as a whole and require Contractor, at Contractor's expense, to remove the System from the Garages without damage to the System Infrastructure and without liability to the Authority. In the event of rejection of the whole System, any amounts paid by the Authority for the System will be promptly refunded by Contractor to the Authority. All warranties will become effective and begin to run upon the successful completion of the acceptance tests and the Authority's Executive Director's execution and issuance of the Final System Acceptance Certificate to the Contractor.

11.3. Payment for any part or parts of the System provided hereunder, or inspection or testing thereof by the Authority, will not constitute acceptance or relieve Contractor of its obligations under this Agreement. The Authority may inspect the components of the System when delivered and reject upon notification to Contractor any and all parts of the System which do not conform to the specifications or other requirements of this Agreement. Components of the System which are rejected must be promptly corrected, repaired, or replaced by Contractor in accordance with Contractor's warranty obligations under this Agreement, such that the System conforms to the warranties, specifications, and the other requirements of this Agreement. If the Authority receives components of the System with defects or nonconformities not reasonably apparent on inspection, then the Authority reserves the right to require prompt correction, repair, or replacement by Contractor in accordance with Contractor's warranty obligations under this Agreement following the discovery of such defect or nonconformity.

12. REPRESENTATIONS AND WARRANTIES

12.1. Prime Contractor Responsibility. Contractor understands and accepts full responsibility for all requirements and deliverables defined in this Agreement. Contractor warrants that it has read and agrees with the specifications contained in the Work Statement (Exhibit "A") and agrees to inform the Authority of any unforeseen conditions which will materially affect performance of the work or Services within forty-five (45) days of the execution of this Agreement and will not proceed until written instructions are received from the Authority's Project Manager.

12.2. Power to Make Agreement. Contractor represents and warrants that Contractor has full right and authority to perform its obligations under this Agreement and that the Authority will be entitled to use the System without disturbance or failure of operation during the Warranty Period.

12.3. System Warranty.

12.3.1. Contractor warrants that during the Warranty Period the System will function per the approved business requirements and design under ordinary use and operate in conformance with its specifications and documentation and with all other requirements of this Agreement. Contractor further warrants that the System, under normal use and service, will be free from defects in material and workmanship.

12.3.2. Contractor will provide warranty service to the Authority during the Warranty Period at no additional cost and will include all Services necessary to enable Contractor to comply

with the foregoing warranty. Contractor will pass through to the Authority any manufacturers' warranties which Contractor receives on the System and, at the Authority's request, Contractor will enforce such warranties on the Authority's behalf.

12.3.3. Before the expiration of the Warranty Period, the Authority must notify Contractor in writing if any Equipment, Software, or Services do not conform to the foregoing warranties. Upon receipt of such notice, Contractor will investigate the warranty claim. If this investigation confirms a valid warranty claim, Contractor must (at its option and at no additional charge to the Authority) promptly correct the defect at no additional cost.

12.3.4. During the Warranty Period, Contractor warrants that the media used to store and deliver the Software to the Authority will be free from defects and manufacture and material. Should the media fail to be free of defects in manufacture or material during the Warranty Period, Contractor will replace the defective media as soon as possible. Any delays occasioned by the failure of new media will not be considered excusable delay.

12.4. Warranty Against Infringement.

12.4.1. Contractor agrees to defend and indemnify the Authority of all direct losses, costs and damages resulting from a determination that the System as supplied to the Authority infringes any United States patent rights, copyrights, or trademarks provided that: the Authority promptly notifies Contractor in writing upon the Authority becoming aware of the existence of any such suit, action, proceeding or threat; allows Contractor sole control of the defense or settlement (or both) thereof, provided there is no cost to the Authority; and provides such reasonable cooperation as Contractor may require. In no event will the Authority consent to any judgment or decree or do any other act in compromise of any such claim without Contractor's express prior written consent. In no event will Contractor be liable for the payment of any amount agreed to in settlement without its express consent. In the event that the Authority is enjoined from use of the System due to a proceeding based upon the infringement of patent, copyright or trademark in the United States, Contractor will, at its option, either:

12.4.1.1. Modify the System, at Contractor's sole expense, so it becomes non-infringing; or

12.4.1.2. Replace the infringing System with an equal non-infringing System of equal quality, at Contractor's sole expense and with a Warranty Period commencing as of the date of completion of the non-infringing System in the Garages;; or

12.4.1.3. Procure, at Contractor's sole expense, the necessary licenses for the Authority to continue using the System; or

12.4.1.4. Remove the System and refund the purchase price and transportation costs thereof, less a reasonable amount for depreciation.

13. TERMINATION

13.1. Termination for Convenience. The Authority will have the right to terminate this Agreement, without cause, by giving not less than thirty (30) days' written notice of termination to Contractor.

13.2. Termination for Default. If Contractor fails to perform any of its material obligations under this Agreement, in addition to all other remedies provided by law or at equity, the Authority may terminate this Agreement immediately upon written notice to Contractor.

13.3. Power to Terminate. Only the Authority's Executive Director is empowered to terminate this Agreement on behalf of the Authority.

13.4. Consequences of Termination. In the event of termination, Contractor will deliver to the Authority copies of all reports, documents, and other work performed by Contractor under this Agreement, and upon receipt thereof, the Authority will pay Contractor for any Services performed up to the date of termination.

14. NO SOLICITATION/CONFLICTS OF INTEREST

14.1. Gifts. Contractor does hereby warrant and represent that the laws of the Commonwealth of Pennsylvania have not been violated as they relate to the procurement or performance of this Agreement by any conduct, including payment or giving of any fee, commission, compensation, gift, gratuity or consideration of any kind, directly or indirectly to any Authority employee, officer or Contractor.

14.2. Conflict of Interest. To the best of Contractor's knowledge, no Authority member or officer, and no employee of the Authority has any interest (whether contractual, non-contractual, financial or otherwise) in this transaction or in the business of Contractor. If such transaction comes to the knowledge of the Contractor at any time, a full and complete disclosure of such information must be made to the Authority.

14.3. Contractor Integrity Provisions. Contractor hereby acknowledges receipt and acceptance of the Authority's Contractor Integrity Provisions attached hereto as Exhibit "G". Contractor, for itself, its agents and employees agrees to adhere to the Contractor Integrity Provisions and understands that failure to do so may result in the cancellation of this Agreement and the reporting of any offending event for investigation.

15. RIGHT-TO-KNOW LAW

15.1. The Pennsylvania Right-to-Know Law, 65 P.S. §§ 67.101-3104, ("RTKL") applies to this Agreement.

15.2. If the Authority requires the assistance of the Contractor as to any request or other issue related to the RTKL in regard to this Agreement ("Requested Information"), it will notify the Contractor using the contact information provided in this Agreement. Upon written

notification from the Authority that it requires the Contractor's assistance in responding to such a request under the RTKL the Contractor must:

15.2.1. Provide the Authority, within 5 days after receipt of written notification, with copies of any document or information in the Contractor's possession arising out of this Agreement that the Authority reasonably believes is Requested Information and may be a public record under the RTKL; and

15.2.2. Provide such other assistance as the Authority may reasonably request, in order to comply with the RTKL with respect to this Agreement.

15.3. If the Contractor considers the Requested Information to be exempt from production under the RTKL, the Contractor must notify the Authority and provide, within 5 days of receiving the written notification, a written statement signed by a representative of the Contractor explaining why the requested material is exempt from public disclosure under the RTKL and identifying the specific provision of the RTKL that renders some or all of the Requested Information exempt from disclosure.

15.4. The Authority will rely upon the written statement from the Contractor in denying a RTKL request for the Requested Information unless the Authority determines that the Requested Information is clearly not protected from disclosures under the RTKL. In the event the Authority determines that the Requested Information is clearly not exempt from disclosure, the Contractor must provide the Requested Information to the Authority within 5 days of receipt of written notification of the Authority's determination.

15.5. The Authority will reimburse the Contractor for any costs associated with complying with these provisions only to the extent allowed under the fee schedule established by the Office of Open Records or as otherwise provided by the RTKL if the fee schedule is inapplicable.

15.6. If the Contractor fails to provide the Requested Information as provided in paragraph No. 4. ("Contractors' Refusal") the party requesting the information may have the right to challenge that failure to disclose before the Pennsylvania Office of Open Records ("OOR") and potentially the courts. Contractor hereby understands and agrees that the Authority will not argue in favor of the Contractor's non-disclosure of the Requested Information and will inform the tribunal that it directed Contractor to produce such information.

15.7. In the event of administrative or legal proceedings, or both, related to Contractor's Refusal, the following will apply:

15.7.1. Contractor will defend the Authority, at its sole cost, before an agency or court as to any matter or claim related to Contractor's Refusal. Contractor will provide that defense through independent legal counsel agreed to in advance by the Authority, in its sole discretion.

15.7.2. Contractor further agrees that it will indemnify and hold the Authority harmless for any damages, penalties, costs, detriment or harm that the Authority may incur as a result of the

Contractor's failure to releases Requested Information, including any statutory damages or order to pay any party's attorney's fees.

15.8. As between the Parties, the Contractor agrees to waive all rights or remedies that may be available to it as a result of the Authority's disclosure of Requested Information pursuant to the RTKL.

15.9. The Contractor's duties relating to the RTKL are continuing duties that survive the expiration or termination of this Agreement and will continue as long as the Contractor has Requested Information in its possession.

16. INDEMNIFICATION

Contractor will be responsible for, and will indemnify, defend, and hold harmless the Authority and its Members, officers, employees, attorneys and agents (the "Indemnified Parties") from all claims, liabilities, damages, and costs including reasonable attorneys' fees and expert witness fees, for bodily injury (including death and workers compensation claims) and damage to real or tangible personal property arising from or related to the negligence or other tortious acts, errors, and omissions of Contractor, its employees, or its subcontractors while engaged in performing Services under this Agreement or while present on the Authority's premises, and for breach of this Agreement regarding the use or nondisclosure of proprietary and confidential information where it is determined that Contractor is responsible for any use of such information not permitted by this Agreement. The obligations to defend and indemnify the Indemnified Parties will not be reduced in any way by any limitation on the amount or type of damages, compensation, or benefits payable by Contractor or its subcontractors under any employee benefit act including Workers' Compensation Acts, Disability Benefits Acts, or other Employee Benefit Act or by any negligence of the Authority, to the maximum extent permitted by law. Further, Contractor's compliance with these provisions and the limits of insurance specified in this Agreement will not constitute a limitation of Contractor's liability or otherwise affect Contractor's obligations to defend and indemnify the Indemnified Parties pursuant to this Agreement

17. INSURANCE REQUIREMENTS

Contractor agrees to have and maintain the policies set forth in Exhibit "D", entitled "Insurance Requirements". All policies, endorsements, certificates and/or binders will be subject to approval by the Authority's Risk Management Department as to form and content. These requirements are subject to amendment or waiver if so approved in writing by the Authority's Risk Management Department. Contractor agrees to provide the Authority with a copy of said policies, certificates and/or endorsements before work commences under this Agreement. Contractor will pay all insurance deductibles with respect to all claims for coverage under policies within the Insurance Requirements as such claims are or have been submitted by Contractor to any of Contractor's insurance carriers. Contractor must give the Authority and the Contractor's insurance carrier prompt written notice of any claims of which Contractor has knowledge of, pending, or threatened against the Authority or Contractor relating to this Agreement. Should any of the insurance within the Insurance Requirements be provided under a claims-made form, Contractor must maintain such coverage continuously throughout the term of this Agreement and, without lapse, for a period of three (3) years beyond the expiration of this Agreement, to the effect that,

should occurrences during the contract term give rise to claims made after expiration of the Agreement, such claims will be covered by such claims-made policies.

18. WAIVER

Contractor agrees that the Authority's waiver of any breach or violation of any provision of this Agreement or the omission by the Authority at any time to enforce any default or right reserved to it will not be deemed to be a waiver of any other provision or a waiver of any subsequent breach or violation of the same or any other provision. The Authority's acceptance of the performance of any of Contractor's Services will not be a waiver of any provision of this Agreement. All remedies provided for in this Agreement may be exercised individually or in combination with any other remedy available hereunder or under applicable laws, rules, and regulations. The exercise of any remedy will not preclude or in any way be deemed to waive any other remedy. Nothing in this Agreement will constitute a waiver or limitation of any rights that the Authority may have under applicable law.

19. INDEPENDENT CONTRACTOR

Contractor, in the performance of this Agreement, is an independent contractor. Contractor will maintain complete control over all of Contractor's employees, its independent contractors, any subcontractors, and Contractor's operations. Neither Contractor nor any person retained by Contractor may represent, act, or purport to act as the agent, representative or employee of the Authority. Neither Contractor nor the Authority is granted any right or authority to assume or create any obligation on behalf of the other.

20. COMPLIANCE WITH LAWS

Contractor will comply with all applicable laws, ordinances, codes, and regulations (collectively, "laws") of the federal, state and local governments, including without limitation, any and all laws specified elsewhere in this Agreement.

21. NONDISCRIMINATION

Contractor agrees that there will be no discrimination against, or segregation of, any person, on account of race, sex, color, age, religion, sexual orientation, actual or perceived gender identity, disability, ethnicity, national origin, marital status, or family status, in connection with or related to its Services provided to the Authority under this Agreement.

22. CONFIDENTIAL AND PROPRIETARY INFORMATION

22.1. Duty of Confidentiality. All data, documents, discussions, or other information developed, generated, discovered, or otherwise saved in the System exclusively for the Authority (collectively the "Data") by the Contractor in the performance of this Agreement are confidential and must not be disclosed to any person or entity except as authorized by the Authority, or as required by law.

22.2. Ownership of Materials. The Authority and Contractor agree that Contractor will own the entire right, title, and interest in the licensed Software, conceived or developed by Contractor in the performance of the Project, or developed using Contractor's facilities or personnel. The Authority and Contractor agree that the Authority will own the entire right, title, and interest, including all patents, copyrights, and other intellectual property rights, in and to all of the System Infrastructure and the System except for the licensed Software.

22.3. Ownership of Data. The Authority will maintain ownership and control of the Data generated throughout the Agreement period and in perpetuity. Contractor will have the right to use the Data solely to perform or correct Services under the Agreement with the Authority. Contractor may not use the Data, a subset of the Data, and/or a summary of the Data, or, cause or permit the Data, a subset and/or a summary thereof, to be used by any third party, outside the scope of the Agreement without the express written consent of the Authority. Contractor will provide the Authority with all copies of all Data in its possession or control at such times as the Authority deems appropriate.

22.4. Enforcement. The Authority and Contractor agree that damages are not adequate and no adequate remedy at law exists for any threatened or actual disclosure or use of information by Contractor in violation of any provision of this Section 22 of this Agreement. Accordingly, Contractor consents to the entry of an injunction against threatened or actual disclosure or use of the information in violation of any provision of this Section 22 of this Agreement, without the Authority being required to post a bond or other security.

23. SECURITY AND DATA PRIVACY REQUIREMENTS AND PCI DSS COMPLIANCE

23.1. Data, personal identifying information, financial account information, and restricted Authority information, whether in electronic format or hard copy, must be secured and protected at all times to prevent unauthorized access. At a minimum, Contractor will encrypt and password-protect electronic files, store and process Authority data only in North America, and adhere to any applicable security standards, including the National Institute for Standards and Technology CSF/800-14/800-53/800-82, International Organization for Standardization 15408/27001/27002, International Society for Automation ISA-62443 series, Payment Card Industry PCI-DSS, Underwriters Laboratory, Health Insurance Portability and Accountability Act, Federal Risk and Authorization Management Program FedRAMP, U.S. Department of Justice/Federal Bureau of Investigation Criminal Justice Information Services Security Policy, et al. This includes data saved to host locations, computers, connected devices, and storage devices.

23.2. If necessary for the fulfillment of this Agreement, the Authority may provide Contractor with non-exclusive, limited access to the Authority's information technology infrastructure. Contractor must abide by all Authority policies, standards, regulations, and restrictions regarding access and usage of the Authority's information and communication technology resources. Contractor will enforce all such policies, standards, regulations, and restrictions with all Contractor employees, agents, and any tier of subcontractor granted access in the performance of this Agreement and will only grant such access as may be necessary for the purpose of fulfilling the requirements of this Agreement.

23.3. In the event that Data collected or obtained by the Contractor in connection with this Agreement is believed to have been compromised, Contractor will notify the Authority immediately. Contractor agrees to reimburse the Authority for any costs it incurs to resolve potential breaches incurred due to the Contractor, including, where applicable, the cost of assisting individuals who may be impacted by the Contractor's breach.

23.4. PCI DSS Compliance. Contractor is responsible for making sure that the System will ensure (i) the security of Cardholder Data stored, processed, or transmitted or received from all persons making a payment by a payment card at each of the Garages; (ii) the security of all cardholder data payment processing services for every Merchant Account for which it is processing such payments; and (iii) compliance with all PCI DSS requirements. Contractor must have a program incorporated into the System to assure continued compliance with, the PCI DSS as the PCI DSS may be amended, supplemented, or replaced from time to time, and as applicable to payment transactions processed relating to the System. Compliance requires that the Contractor is aware at all times of changes to PCI DSS and promptly implementing all procedures and practices as may be necessary to remain in compliance with PCI DSS, including promptly notifying the Authority of any non-compliance of the System with PCI DSS, in each case, at Contractor's sole cost and expense.

24. CONTRACTOR'S BOOKS AND RECORDS

24.1. Maintenance of Records. Regardless of the impact of the Right-to-Know Law, Contractor must maintain all data, records, memoranda, statements of services rendered, correspondence and copies thereof, in adequate form, detail and arrangement, for the Authority's benefit for a minimum of three (3) years following the termination or expiration of this Agreement. Such information must be maintained in a secure and professionally reasonable manner. Thereafter, Contractor must contact the Authority before disposing of any such materials and the Authority may direct that some or all of such materials be delivered to the Authority.

24.2. Inspection. Any documents required to be maintained pursuant to this Agreement must be made available for inspection or audit at no cost to the Authority and at any time during regular business hours, upon written request by the Authority's Office of General Counsel or a designated representative of the Authority. Contractor must provide copies of such documents to the Authority for inspection at the Authority's headquarters.

24.3. Custody of Records. Where the Authority has reason to believe that any of Contractor's documents relating to this Agreement may be lost or discarded due to dissolution, disbandment or termination of Contractor's business, the Authority may, by written request by the Authority's Office of General Counsel or a designated representative of the Authority, require that custody of the Contractor's documents be given to the Authority and that these documents be maintained at the Authority's headquarters. The Authority agrees to grant access to Contractor's documents to any party authorized by Contractor, Contractor's representatives, or Contractor's successor-in-interest.

25. SUBCONTRACTORS

25.1. Authorized Subcontractors. Contractor may use designated subcontractors, approved in advance by the Authority, in performing Contractor's Services. Contractor must obtain the Authority's prior written consent in order to change or add subcontractors. Contractor will be responsible for directing the work of the approved subcontractors and for any compensation due to subcontractors. The Authority assumes no responsibility whatsoever concerning such compensation.

25.2. Compliance with Agreement. Contractor will ensure that Contractor's subcontractors comply with this Agreement. At the Authority's request, Contractor will require any or all of Contractor's subcontractors to sign an agreement with Contractor requiring compliance with this Agreement.

26. GOVERNING LAW

This Agreement will be governed by and interpreted and enforced in accordance with the laws of the Commonwealth of Pennsylvania (without regard to any choice or conflict of laws provisions of any state) and the decisions of the Pennsylvania courts.

27. VENUE

The Parties irrevocably consent to the exclusive jurisdiction of the First Judicial District of Pennsylvania, being the Philadelphia Court of Common Pleas and waiving any claim or defense that such forum is not convenient or proper. Contractor agrees that the Philadelphia Court of Common Pleas will have *in personam* jurisdiction over it, and consents to service of process in any manner authorized by Pennsylvania law.

28. NOTICES

All notices, requests, demands and other communications required or permitted to be made hereunder must be in writing and will be deemed duly given at the time of delivery if hand delivered, or if sent by registered or certified mail, return receipt requested, or sent by nationally recognized overnight delivery service, then upon the earlier of the actual receipt or refusal by the addressee or three (3) business days after deposit thereof at any main or branch United States post office if sent by registered or certified mail and the next business day after deposit thereof with the courier if sent by overnight courier. Notices are to be addressed as follows:

- (a) If to the Authority:
The Philadelphia Parking Authority
Dennis G. Weldon, Jr.
General Counsel
701 Market Street, Suite 5400
Philadelphia, PA 19106

With a copy to:

Authority Project Manager at:
The Philadelphia Parking Authority
701 Market Street, Suite 5400
Philadelphia, PA 19106

- (b) If to Contractor:
Attention:
With a copy to:
Attention:

Any party may alter the address to which communications are to be sent by giving notice of such change of address in conformity with the provisions of this Section providing for the giving of notice. Notice will be deemed to be effective, if personally delivered, when delivered; if mailed, at midnight on the third business day after being sent by registered or certified mail; and if sent by nationally recognized overnight delivery service, on the date of delivery by such delivery service.

29. GENERAL TERMS AND CONDITIONS

29.1 Force Majeure Events. Should the performance by Contractor or the Authority be delayed as a result of Acts of God such as a pandemic, fire, flood, earthquake, or similar catastrophe, war, enemies or hostile government actions, revolutions, riots, civil commotion, labor strikes (excluding Contractor or its subcontractors' labor shortages), delays by any governmental agency including the Authority, or any law, proclamation, or order of any governmental agency (in its sovereign capacity) or court of law, or other causes beyond its reasonable control and occur without its fault or negligence, then the delayed party, upon giving prompt notice to the other party, will be excused from performance for a period of time equal to the duration of such delay; provided, however, that the delayed party will use its best efforts to avoid or remove the cause of non-performance and promptly continue performance hereunder whenever the cause is removed, and further provided that if the period of delay exceeds thirty (30) days over the term of this Agreement, whether continuous or not, either party will thereafter have the right to terminate this Agreement without cause on ten (10) days' notice. Any performance required of Contractor under this Agreement will be suspended for any period of delay in the performance of the Authority to the extent that such delay in performance is directly the result of any such a cause, provided, however, Contractor must notify the Authority within ten (10) days of the event causing delay or the right to claim delay or the right to do so will be deemed waived by Contractor. Any performance required of the Authority under this Agreement will be suspended for any period of delay in the performance of Contractor which prevents performance by the Authority.

29.2. Assignability. The Parties agree that the expertise and experience of Contractor are material considerations for this Agreement. Unless specifically authorized by this Agreement, Contractor may not assign the performance of any obligation or interest under this Agreement without the prior written consent of the Authority which consent will not unreasonably be withheld. Any attempt by Contractor to assign this Agreement, in violation of this Section, will be voidable at the Authority's sole option.

29.3. No Third-Party Beneficiaries. There are no third-party beneficiaries to this Agreement.

29.4. Entire Agreement. This Agreement and the attached Exhibits and Appendices set forth above, contain all the agreements, representations and understandings of the Parties hereto, and supersede and replace any previous understandings, commitments, or agreements, whether oral or written. Any other terms or conditions included in any shrink-wrap or boot-screen license agreements, quotes, invoices, acknowledgments, bills of lading, or other forms utilized or exchanged by the Parties will not be incorporated in this Agreement or be binding upon the Parties unless the Parties expressly agree in writing or unless otherwise provided for in this Agreement. Any revisions, additions, and/or modifications of this Agreement must be set forth in writing and signed by all Parties.

29.5. Exhibits and Interpretation. All Exhibits and Appendices to this Agreement are hereby incorporated by reference as though set forth fully herein. The Parties acknowledge and agree that (i) each party reviewed and negotiated the terms and provisions of this Agreement and has contributed to it; and (ii) the rule of construction to the effect that any ambiguities are resolved against the drafting party will not be employed in the interpretation of the Agreement, regardless of which party was generally responsible for the preparation of this Agreement.

29.6. Order of Precedence. In the event of any discrepancies or inconsistencies between the provisions of this Agreement and the attached documents, it will be resolved by giving precedence in the following order: (1) the main body of this Agreement; (2) the RFP, (3) the Exhibits, (4) Appendices to the Exhibits, and (5) Contractor's Proposal. It is Contractor's responsibility to study this Agreement and to report at once in writing to the Authority any interpretation by it of errors, inconsistencies, discrepancies, omissions or conflicts discovered between any provisions of the Agreement. Any work performed by the Contractor prior to receiving a written response from the Authority with respect to any alleged error, inconsistency, discrepancy, omission or conflict will be at the Contractor's own risk and expense.

29.7. Captions. The headings and captions in this Agreement are for convenience only and are not a part of this Agreement and do not in any way define, limit, describe or amplify the terms and provisions of this Agreement or the scope or intent thereof.

29.8. Recitals. The Recitals set forth at the beginning of this Agreement are deemed incorporated herein, and the Parties hereto represent they are true, accurate, and correct.

29.9. Separation Clause. If any provision of this Agreement, or the application of any provision to any person or circumstances, is held invalid or unenforceable, the remainder of this Agreement and the application of such provision(s) to other persons or circumstances will remain valid and enforceable.

29.10. Counterparts. This Agreement may be executed in any number of counterparts, each of which when so executed will be deemed to be an original and all of which when taken together will constitute one agreement. The Parties may execute (including electronically execute) and exchange electronic counterparts of this Agreement, and if transmitted electronically to the other party, said electronic counterpart(s) will be treated in all manner and respects as an original

document, and the signature of any party thereon will be considered as an original signature. Any such fully executed electronic copy of this Agreement will be considered to have the same binding legal effect as an original copy. This Agreement will be deemed effective when one or more counterparts hereof, individually or taken together, will bear the signatures of all of the Parties reflected hereon as the signatories hereto and as so executed, have been delivered to each party to this Agreement.

SIGNATURE PAGE TO FOLLOW

IN WITNESS WHEREOF, and intending to be legally bound pursuant to the Uniform Written Obligations Act, 33 P.S. 6, the Parties have set their hands and seals on the date first above written.

The Philadelphia Parking Authority

Attest: _____

Print Name: _____

Print Title: _____

By: _____

Scott A. Petri
Executive Director

APPROVED AS TO FORM

By: _____

Office of General Counsel

Contractor

Witness: _____

Print Name: _____

Print Title: _____

By: _____

Print Name: _____

Print Title: _____

EXHIBIT “G”
Philadelphia Parking Authority
CONTRACTOR INTEGRITY PROVISIONS

1. Definitions.

a. **Confidential Information** means information that is not public knowledge, or available to the public on request, disclosure of which would give an unfair, unethical, or illegal advantage to another desiring to contract with the Authority.

b. **Consent** means written permission signed by a duly authorized officer or employee of the Authority, provided that where the material facts have been disclosed, in writing, by prequalification, bid proposal, or contractual terms, the Authority shall be deemed to have consented by virtue of execution of this Contract.

c. **Contractor** means the individual or entity that has entered into this Contract with the Authority, including directors, officers, partners, managers, key employees, and owners of more than a 5% interest.

d. **Contractor Related Parties** means any affiliates of the Contractor and the Contractor’s officers and directors.

e. **Financial interest** mean any financial interest in a legal entity engaged in business for profit which comprises more than 5% of the equity of the business or more than 5% of the assets of the economic interest in indebtedness

f. **Gift** means any conveyance of anything of value, including cash, a gratuity (tip), favor, entertainment (including tickets to sporting events), travel, food, drink, a loan, employment or services.

2. The Contractor shall maintain the highest standards of integrity in the performance of this Contract and shall take no action in violation of state or federal laws, regulations, or other requirements that govern contracting with the Authority, including these Contractor Integrity Provisions.

3. The Contractor shall not disclose to others any confidential information gained by virtue of this Contract.

4. Contractor, its affiliates, agents, employees and anyone in privity with Contractor shall not, in connection with this or any other agreement with the Authority, directly or indirectly, offer, confer, or agree to confer any pecuniary benefit or gift on anyone, for any reason, including as consideration for the decision, opinion, recommendation, vote, other exercise of discretion, or violation of a known legal duty by any officer or employee of the Authority.

5. Contractor confirms that no Authority officer or employee holds a financial interest in Contractor.

6. Contractor shall have no financial interest with or in any other contractor, subcontractor, or supplier providing services, labor, or material under this contract, unless the financial interest is disclosed to the Authority in writing and the Authority consents to Contractor's financial interest prior to the Authority's execution of the contract. Contractor shall disclose the financial interest to the Authority at the time of bid or proposal submission, or if no bids or proposals are solicited, no later than Contractor's submission of the contract signed by Contractor.

7. When Contractor has reason to believe that any breach of ethical standards as set forth in law or these Contractor Integrity Provisions has occurred or may occur, including but not limited to contact by an Authority officer or employee which, if acted upon, would violate such ethical standards, Contractor shall immediately notify the Authority contracting officer or the Authority's Office General Counsel in writing.

8. Contractor, by submission of its bid or proposal and/or execution of this contract and by the submission of any bills, invoices or requests for payment pursuant to the contract, certifies and represents that it has not violated any of these Contractor Integrity Provisions in connection with the submission of the bid or proposal, during any contract negotiations or during the term of the contract, to include any extensions thereof.

9. Contractor agrees to reimburse the Authority for the reasonable costs of investigation incurred by the Authority's Office of General Counsel, or its designee, for investigations of the Contractor's compliance with the terms of this or any other agreement between the Contractor and the Authority that results in the suspension or debarment of the Contractor. Contractor shall not be responsible for investigative costs for investigations that do not result in the Contractor's suspension or debarment.

10. Contractor shall cooperate with the Authority's Office of General Counsel, or its designee, in its investigation of any alleged officer or employee breach of ethical standards and any alleged Contractor non-compliance with these Contractor Integrity Provisions. Contractor agrees to make identified Contractor employees available for interviews at reasonable times and places. Contractor, upon the inquiry or request of an investigator, shall provide, or if appropriate, make promptly available for inspection or copying, any information of any type or form deemed relevant by the Authority's designated investigator to Contractor's integrity and compliance with these provisions. Such information may include, but shall not be limited to, Contractor's business or financial records, documents or files of any type or form that refer to or concern this contract. Contractor shall incorporate this paragraph in any agreement, contract or subcontract it enters into in the course of the performance of this contract/agreement solely for the purpose of obtaining subcontractor compliance with this provision. The incorporation of this provision in a subcontract shall not create privity of contract between the Authority and any such subcontractor, and no third party beneficiaries shall be created thereby.

11. For violation of any of these Contractor Integrity Provisions the Authority may terminate this and any other contract with Contractor, claim liquidated damages in an amount equal to the value of anything received in breach of these Provisions, claim damages

for all additional costs and expenses incurred in obtaining another contractor to complete performance under this contract, and debar and suspend Contractor from doing business with the Authority. These rights and remedies are cumulative, and the use or non-use of any one shall not preclude the use of all or any other. These rights and remedies are in addition to those the Commonwealth may have under law, statute, regulation, or otherwise.

12. Contractor certifies to the best of its knowledge and belief that within the last five (5) years Contractor or Contractor Related Parties have not:

- a) been indicted or convicted of a crime involving moral turpitude or business honesty or integrity in any jurisdiction;
- b) been suspended, debarred or otherwise disqualified from entering into any contract with any governmental agency;
- c) had any business license or professional license suspended or revoked;
- d) had any sanction or finding of fact imposed as a result of a judicial or administrative proceeding related to fraud, extortion, bribery, bid rigging, embezzlement, misrepresentation or anti-trust; and
- e) been, and is not currently, the subject of a criminal investigation by any federal, state or local prosecuting or investigative agency and/or civil anti-trust investigation by any federal, state or local prosecuting or investigative agency.

If Contractor cannot so certify to the above, then it must submit along with its bid, proposal or contract a written explanation of why such certification cannot be made and the Authority will determine whether a contract may be entered into with the Contractor. The Contractor's obligation pursuant to this certification is ongoing from and after the effective date of the contract through the termination date thereof. Accordingly, the Contractor shall have an obligation to immediately notify the Authority in writing if at any time during the term of the contract it becomes aware of any event which would cause the Contractor's certification or explanation to change. Contractor acknowledges that the Authority may, in its sole discretion, terminate the contract for cause if it learns that any of the certifications made herein are currently false due to intervening factual circumstances or were false or should have been known to be false when entering into the contract.

Appendix D

Cost Form

Pricing Template
Philadelphia Parking Authority - (ENTER GARAGE NAME HERE)
Offerers: Separate sheet required for each facility plus Total Sheet for all facilities.
Required

Item	Quantity	Price Each	Extended	Parking Advisory Notes	Bidder Notes
Devices					
Entry Device			\$0.00		
Exit Device			\$0.00		
AVI Reader Device			\$0.00		
Door Readers			\$0.00		
Bollards			\$0.00		
Parking Gates (Straight Gate Arms)			\$0.00		
Parking Gates (Articulating Gate Arms)			\$0.00		
Credit Card Only Pay Station			\$0.00		
Cash and Credit Card Pay Station			\$0.00		
Cashier Fee Computer & Display			\$0.00		
Lot Full Signs			\$0.00		
Lanes Status Lights			\$0.00		
Dynamic Signage System			\$0.00		
Proximity Card reader			\$0.00		
Office & Back End					
Server & Software (2 year License)			\$0.00		
Workstation and Additional Software License			\$0.00	Identify Price Reduction based on volume	
Gateway			\$0.00		
EMV Credit Card Software License & Setup			\$0.00		
Reservation Integrations (Spot Hero, etc.)			\$0.00		
Intercom					
Intercom System			\$0.00		
Cameras					
Camera System			\$0.00		
Supplies					
Tickets			\$0.00		
AVI Transponders			\$0.00		
Proximity Cards (w/artwork)			\$0.00		
Receipt Paper			\$0.00		
Spare Straight Gate Arm Kit			\$0.00		
Spare Articulating Gate Arm Kit			\$0.00		
Spare Cash Box			\$0.00		
Spare Complete Cashiering Terminal			\$0.00		Only 1 required for entire system
Infrastructure and Related Items					
Electrical			\$0.00		
Concrete/Asphalt Installation			\$0.00		
Labor and Supervision			\$0.00		
Programming			\$0.00		
Training			\$0.00		
Shop Drawings			\$0.00		
Meetings and Project Coordination			\$0.00		
Misc Materials			\$0.00		
Installation			\$0.00		
Tax & Freight					
Tax	EXEMPT		\$0.00		
Freight			\$0.00		
Total Upfront Base	-	-	\$0.00		

Fee Type			Total		
Lanes & Pay Stations			\$0.00		
Office & Back End			\$0.00		
Intercom			\$0.00		
Signs			\$0.00		
Cameras			\$0.00		
Supplies			\$0.00		

Installation			\$0.00		
Freight			\$0.00		
Total			\$0.00		

Alternative Additional Pricing As Applicable

Fee Type	Quantity	Price Each	Extended	Parking Adv Notes	Bidder Notes
			\$0.00		
			\$0.00		
			\$0.00		
			\$0.00		
			\$0.00		
			\$0.00		
			\$0.00		
			\$0.00		

Recurring Fees

Please describe any recurring fees or charges (add lines as required)

Fee Type	-	Price / Month	Price / Annual	Parking Adv Notes	Bidder Notes
Software Yearly Recurring Fees			\$0.00		
Other			\$0.00	Please note what "Other" is here.	

Warranty (2-Years Included in Base Proposal)

Item	-	-	Price / Annual	Parking Adv Notes	Bidder Notes
Warranty - Year 3	1		\$0.00		
Warranty - Year 4	1		\$0.00		
Warranty - Year 5	1		\$0.00		
Warranty - Year 6	1		\$0.00		
Warranty - Year 7	1		\$0.00		
Warranty - Year 8	1		\$0.00		
Warranty - Year 9	1		\$0.00		
Warranty - Year 10	1		\$0.00		
Year 3-10 Total			\$0.00		

Appendix E Camera Locations

PARCs Cameras Spreadsheet								
Center City Garages								
Locations	Entry Stations	Exit Stations	Pay Stations	Lobby	Offices	Pedestrian Doors	Safe Room	
Olde City	3	2	3	3	2	-	-	
Ind. Mall	2	1	4	2	1	1	-	
Parkade on 8th*	-	-	-	-	-	-	-	
Fashion District	1	1	4	2	1	-	1	
Jefferson	1	1	2	2	1	1	-	
Family Court**	-	-	-	-	-	-	-	
Gateway***	-	-	-	-	-	-	-	

Notes:	Parkade on 8th has a camera system that is not integrated with our current PARCs. It is a stand alone system owned by the PPA and serviced by BOSCHE.
	Family Court has a camera system that is not integrated with our current PARCs. The camera system is owned by The Family Court of Philadelphia.
	Gateway has a camera system that is not integrated with their current PARCs. The camera system is owned by Realen Gateway.
	Locations of cameras that are not integrated with the current PARCs is available, if needed.