

**THE PORT AUTHORITY OF NY & NJ**

**PROCUREMENT DEPARTMENT  
4 WORLD TRADE CENTER  
150 GREENWICH STREET, 21<sup>ST</sup> FL.  
NEW YORK, NY 10007**

4/27/2016

ADDENDUM # 4

To prospective Proposer(s) on RFP #45551 for **PARKING ACCESS AND REVENUE CONTROL SYSTEM – DESIGN, INSTALLATION AND MAINTENANCE AT JOHN F. KENNEDY INTERNATIONAL AIRPORT, NEWARK LIBERTY INTERNATIONAL AIRPORT, LAGUARDIA AIRPORT AND STEWART INTERNATIONAL AIRPORT**

Originally due back on 5/26/2016, no later than 2:00PM

Due back on 6/9/2016, no later than 2:00PM

**I. CHANGES/MODIFICATIONS**

**The following changes/modifications are hereby made to the solicitation documents:**

Insert the following “Unguided Site Visit” in “Site Inspection”, (Information for Proposers on this Request for Proposals, subsection k (page 8)

**A. Unguided Site Visit:**

If needed, Proposers may visit the public areas for additional unguided site visits. Proposers are advised that despite being public areas, given security concerns, all unguided site visits must be coordinated with Airport staff. Proposers shall contact the Airport Representative listed below at least three (3) business days before the Proposer plans to be on Airport. Airport staff will in turn notify parking operations staff and the Port Authority Police Department. These site visits will not be escorted and Proposers shall remain in public portions of the Airport parking lots. Although self-guided site visits can occur any day of the week, airport staff must be notified between the hours of 9am and 5pm, Monday through Friday.

It shall be further noted that these contact names and numbers are being provided solely for and limited to the arrangement of unguided site visits and no other function. Proposers are reminded that for all other communication, questions or requests Proposers shall continue to reach out to Jeanette Anderson at 212 435-4624 or email: [jeanette.anderson@panynj.gov](mailto:jeanette.anderson@panynj.gov).

Failure to do so may result in Proposer’s firm being disqualified.

PS11All

**John F. Kennedy International Airport**

JFK Operations Control Center

(718) 244-8158

**Newark Liberty International Airport**

Jean Giobbie

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Or

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Or

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**Stewart International Airport**

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Or

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**B. Attachment C2, Cost Proposal**

Attachment C2, Cost Proposal is deleted in its entirety and replaced with the attached revised Attachment C2, Cost Proposal, dated 4/22/16 attached hereto.

**C. Attachment D, Scope of Work**

Attachment D, Scope of Work, page 3, Section 3, “Overview of Operating Environment” is deleted in its entirety and replaced with Section 3, Overview of Operating Environment, dated 4/22/16 attached hereto.

**D. Attachment E, Functional Specifications**

- Attachment E, Functional Specifications, Section V, “Automated Pay Stations”, pages 59-60 delete the opening sentence and section I. in their entirety and replace with Attachment E, Functional Specifications, Section V, “Automated Pay Stations” dated 4/22/16 attached hereto.
- Note: Delete the reference to “Scope of Work” at the top of Attachment E and change it to Functional Specifications.

**E. Attachment I, Background of Existing System**

Attachment I, “Background of Existing System” is deleted in its entirety and replaced with the attached revised Attachment I, “Background of Existing System” dated 4/22/16 attached hereto.

This communication should be initialed by you and annexed to your Proposal upon submission.

In case any Proposer fails to conform to these instructions, its Proposal will nevertheless be construed as though this communication had been so physically annexed and initialed.

THE PORT AUTHORITY OF NY & NJ

PS11All

Carmen Rein  
General Manager of Operation  
Procurement Department

PROPOSER'S FIRM NAME: \_\_\_\_\_

INITIALED: \_\_\_\_\_

DATE: \_\_\_\_\_

QUESTIONS CONCERNING THIS ADDENDUM MAY BE ADDRESSED TO Jeanette  
Anderson, WHO CAN BE REACHED AT (212) 435 -4624 or at [jeanette.anderson@panynj.gov](mailto:jeanette.anderson@panynj.gov).

Revised 4/22/16

# **Parking Access and Revenue Control System— Design, Installation & Maintenance**

## **Attachment I Background of Existing System**

## Existing PARCS, Features and Functions

The PARCS installed in 2004 incorporates a variety of features and functions. The system added License Plate Recognition (LPR) and Mobile License Plate Inventory (MLPI) among other functional enhancements. Also running over the network are Booth cameras and microphones used for customer service at JFK and LGA currently. EWR has an independent valet system in operation. The current functional features include the following:

- Traversal flow into and out of the lots using loops, Sonic and Optical sensors
- Revenue Accounting
- Audit Controls
- Rate Control w/provisions for Daylight savings time
- LPR and MLPI
- Monthly Parkers
  - The system supports employee parking in designated lots, paid monthly by companies or individuals is required. Rates for payments are configurable by lot, company, type of monthly parker and individual license plate.
- Non-Revenue exits - Automated Vehicle Identification (AVI), Non-coupon, Coupon, proximity tags, reduced rates – Flexible and configurable
- Support for various payment types:
  - Credit card – Mag stripe
  - AVI (*E-ZPass® Plus™* – Kapsch transponders)
  - Cash handling
  - Check, money orders
  - Monthly and over the counter payments for employee parking
- Proximity tags (transponders) for employee parkers and buses
- Occupancy counting and Occupancy on the Web
- Multiple levels of Security, both physical and logical
- Screen savers for POS units in the exit lanes
- Security classifications and levels with high granularity for all users
- Camera systems
- *E-ZPass® Plus™*

The PA uses *E-ZPass®* for tolls at various tunnels and bridges and the PARC system uses *E-ZPass® Plus™* for parking as a payment method. *E-ZPass®* and *E-ZPass® Plus™* are a radio-frequency identification (RFID) based system. Currently the PARC system accepts approximately 40% of all transactions from exit lanes by *E-ZPass® Plus™*.

### Employee Parking

Employees parking in employee lots are provided proximity tags for entry and exit. In public lots, a VIP process is employed and the patron's license plate is tied to a personal identification number (PIN) or *E-ZPass® Plus™* tag number which will permit exit.

The current system interfaces with the PA revenue accounting department. A flat payment file is created monthly for a Port Authority system for billing to employers for monthly parkers. The current system needs to be expanded upon to provide additional functionality and flexibility for rates.

Available locations for making payment:

- Exit Lanes – Point of Sale (POS) units
- POF (Pay on Foot) Merli Machines – credit card only
- Sales Offices
- Valet Office
- Internet via ABM

### **Non-Revenue**

PA vehicles, certain contractors, and certain employees are able to exit a public lot with no or reduced payments. The rate tables for the lots must be able to accommodate an unlimited variety of rates and conditions.

### **Reservation System**

The reservation system is operated through a website administered by ABM. Currently, payments are accepted by ABM for reservations only and not parking fees.

### **Valet Parking**

EWR has an independent valet system in operation. The valet system can track, monitor, control and manage: valet keys, vehicles, tickets, employees, payroll and revenue. The valet system incorporates the following equipment and functionalities:

### **Exceptions**

The PARCS has the ability to support exceptions such as illegal backouts, tailgating, snow day discounts, emergency exits, etc.

### **Database**

Microsoft SQL and Oracle are the two approved databases in the PA standards. PA currently uses Oracle and a NETAPP appliance to store the data. The system must ensure that no data will be lost and that in the event of a database failure the system will be able to continue uninterrupted operation.

Thirteen (13) months of online data and seven (7) years of archived data are required. Backups and archiving must be done without interruption to online processing and data storage.

All entry lanes, exit lanes and POF's maintain a database which allows them to operate in the event of database or network issues. Once the issue is corrected, the lane and POF units will upload the transactions to the server. Lane equipment and POF units must store at least six (6) weeks of data and have the ability to export that data to an external drive. Lane equipment and POF units also maintain a journal of all activity (eJournal) which is uploaded daily.

### **Network**

The PA has a high speed OC192 backbone fiber network installed at each airport (except SWF). This is a high speed Internet Protocol (IP) network. The current system connects to the plazas in all lots, all POFs, servers, application computers, and to outside systems with either copper or fiber. The new system will use this network. The PA supports the backbone network and the vendor will support all other network components for lots, POFs, valet, etc. on the system.

Booth Intercoms (inside the booth and external for patrons in exits, entries and POF's) are IP based half-duplex (Full Duplex is preferred).

### **Credit Card Processing**

MC/Visa/Discover cards are processed through First Data Services (FDS) to Bank of America Merchant Services North Platform via a Secure Sockets Layer (SSL). American Express is sent directly to AMEX via SSL. Settlement now is SFTP (SFTP is the widely used protocol for transferring information securely) with AMEX and SSL with FDS where all transactions are batched and resent nightly. The system must use host based credit card processing to eliminate the retransmission of the data and simplify PCI-DSS compliance.

### **Internet**

The PA provides all Internet connectivity through its firewalls. Access to the internet is through a gateway router located at each airport.

### **PA Website**

The Port Authority maintains a website for airport parking (<http://www.panynj.gov/airports/airport-parking.cfm>). The website displays information about parking pricing and real-time lot occupancy rates. Lot occupancy percentages are sent every 5 minutes to the PA website and to Transcom (for 511NY and 511NJ) display.

The PA website does not currently handle online payments.

### **License Plate Recognition (LPR)**

The current system uses License Plate Recognition (LPR) cameras in all exit and entry lanes. Infrared camera is used for LPR processing and closed-circuit television (CCTV) cameras for image capture. Some lanes incorporate the two image features into one camera with an embedded controller. Entry lanes are now post capture and exit lanes are pre-capture. In the new installation, extra lanes shall be installed as pre-capture where possible, and standard reports will contain images of vehicles on entry that backout of the lane with or without the ticket.

### **Mobile License Plate Inventory (MLPI)**

The system currently uses a Mobile License Plate Inventory (MLPI) capture system. MLPI captures all vehicle inventory in the lots each night and uploads the inventory data to the servers. 100% accuracy of plate reads is required. Manual corrections are performed during the capture phase.

### **Reporting**

The current system provides a significant number of canned reports using Business Objects. ad hoc reporting is available for authorized users. See below for a sample list of existing reports for specific report titles.

### **PARCS Parking Transaction Processing Narrative**

PARCS is implemented as a distributed, server-based system designed to optimize system responsiveness, reliability, and expandability. The ONYX host application resides on a robust Sun Solaris V440 Network

Server that supports fail-over redundancy to the Secondary Host Computer located in another building on airport property. Both Primary and Secondary Host servers include:

- 1) Sun Solaris OS
- 2) Veritas Foundation Suite (facilitates the mirroring of data)
- 3) BEA Web Logic Application Server
- 4) HP Open View Network Node Manager

PARCS encompasses the utilization of the Port Authority's existing Oracle licenses. PARCS uses the Oracle 9i database manager and Oracle Application Server for account management.

Both Primary and Secondary Host servers are redundantly connected to the SONET backbone through two Cisco Catalyst 3550 Multilayer Gigabit Ethernet switches, with each switch having two LX single mode GB fiber cables connected to available ports on the existing SONET node.

Common to both ONYX Host servers is the Network Appliance (NETAP) FAS270, providing 8x144 Gb 10k RPM disk drives. Transaction information from the system, including revenue data and optional LPR and CCTV images are stored in a real-time environment providing fast and efficient access to authorized users. The Quantum Tape Drive provides off-site storage of critical system data. Secured access outside of the Port Authority's network is provided through the PA's Firewalls.

A separate report server is employed at the Primary server location to offload the reporting demand from the ONYX Host server and the real-time storage array. The PARCS includes Business Objects Reporter, a reporting tool capable of generating a wide range of reports and report styles. Other Commercial Off The Shelf (COTS) reporting tools may be utilized including Crystal Report Writer.

Connectivity between the lane equipment and the SONET backbone is accomplished through a set of network switches. The lane equipment is concentrated through a D-Link DGS 1008D local switch providing 10/100/1000 BaseT bandwidth to the Cisco Catalyst 3550 area switch.

All lanes and POFs are connected to an applicable Cisco Catalyst 3550 area switch located in a Fiber Optic Interface Cabinet (FOIC) or communications room with connectivity to an available SONET backbone node.

A web-based central management services allow authorized users to configure, control and audit the entire PARCS from secure workstations distributed throughout the facility or from remote locations using any compatible web browser.

Administrators can set fee calculation and access rules based on a variety of criteria, such as patron identification or category of vehicle. Supervisors can monitor lane activity via the web-based CCTV video streams included with LPR processing that are available on-demand throughout the system.

In the lane, Ethernet connectivity exists between the devices and Sapphire Lane Controller controlling access in conformance with centrally managed rules.

Lane devices such as the Cashier Terminal, the Ticket Issuing Device (TID) and the PosiDRIVE 50 barrier gate support vehicle and patron identification using a variety of technologies including magnetic stripe tickets and cards, credit and debit cards, LPR and integrated AVI.

Fully configured with LPR and AVI, PARCS insures that the patron's Primary ID (e.g. ticket, AVI, credit card) and the vehicle in which the patron entered are continuously synchronized throughout the patron's stay in the facility. Traversal data including the traversal time, license plate image and vehicle image are maintained at ONYX and related to both the Primary ID and the license plate number.

Upon exiting the facility, the traversal history is independently retrieved by both the Primary ID and license plate number. Traversal inconsistencies are identified and flagged with automatic notification to the cashier, operations personnel, security personnel or other authorized users. Typical areas of revenue loss are mitigated including ticket swapping, license plate swapping, lost ticket claims and gate crashes.

On exit, currently two forms of identification are required to complete a transaction (with the exception of employee lots, which rely on a proximity card). The first form of identification is the ticket and the second the license plate. *E-ZPass® Plus™* customers entered into the Monthly Parker database, a Valid *E-ZPass®* Tag serves as the first form of identification.

PARCS offers increased security as LPR technology provides a "black" list which can be used for information only or to deny access and payment options.

### **Existing Communications**

The existing PARCS consists of entry and exit lane controls communicating via serial and Ethernet to a network switch in each lane which aggregates to a fiber optic network switch at each plaza. The network switches at each plaza are then connected via fiber optic cable to a node on an OCE-192 SONET ring which serves as the network backbone. Each airport (except Stewart) has their own OCE-192 ring.

Stewart Airport has a communication topology that varies significantly from the above described networks. The Port Authority shall provide a new IP based network for Stewart Airport which shall have connectivity to Port Authority data centers.

The primary and backup servers reside in different locations at each airport and are connected to the OCE-192 ring.

**Existing PARCS Lane Equipment**

<b>Part Number</b>	<b>Description</b>	<b>LGA</b>	<b>JFK</b>	<b>EWR</b>	<b>Total</b>	<b>Comments/SRO</b>
11-3914	Pushbutton Lightbulbs	56	158	118	<b>332</b>	
01-40008	Sonet Node 10/100 Ethernet card	0	0	0	<b>0</b>	<b>Not used anymore</b>
10-25312	Cable - harness,button light-tid and act	33	79	59	<b>171</b>	
10-25315	Display/IR Cable	33	79	59	<b>171</b>	
10-25346	Cable - Ticket Dispensor / POF	13	33	23	<b>69</b>	
10-25348	cable td400 display cable for TID	13	33	23	<b>69</b>	
10-26252	Cash Drawer Cables	40	92	72	<b>204</b>	
11-0003	T Handle lock w/key	33	79	59	<b>171</b>	
11-11307	24vdc fan cover	33	79	59	<b>171</b>	
11-11785	24VDC Fan	33	79	59	<b>171</b>	
11-12262	Ultra Sonic Safety Sensor	35	79	59	<b>173</b>	
11-1743	5 amp fuses	47	91	72	<b>210</b>	
11-25027	Lock Assembly spitter doors	26	66	46	<b>138</b>	
11-25159	Patron Credit Card Reader (ACT)	34	58	49	<b>141</b>	
11-25178	Check Combo Reader	20	46	36	<b>102</b>	
11-25180	ACT Printer (Ithaca)	20	46	36	<b>102</b>	
11-25202	ELO Touchscreen	20	46	36	<b>102</b>	
11-25224	Cash Drawer	40	92	72	<b>204</b>	
11-25258	Sun keyboard type 6	20	46	36	<b>102</b>	
11-25489	DB9 terminal adapter, 1 req'd per P357 trigger input	33	79	59	<b>171</b>	
11-25510	Fuse Posi Drive Gate	40	86	70	<b>196</b>	
11-25511	Gate fuse holder	40	86	70	<b>196</b>	
11-25582	Floodlight 45W halogen	33	79	59	<b>171</b>	
11-25583	Floodlight fixture, dual				<b>0</b>	<b>depends on lane configuration</b>

Part Number	Description	LGA	JFK	EWR	Total	Comments/SRO
11-25681	check combo rdr cable	13	46	36	<b>95</b>	
11-25803	Sapphire, PANYNJ, configured w/sftwr & drivers	54	98	83	<b>235</b>	
11-25839	Novus 2 UPS w/extd alarm card (may run from adj. lane UPS)	40	86	70	<b>196</b>	
11-25844	Pin pad (ACT)	20	46	36	<b>102</b>	
11-25879	Cisco Switch	14	23	20	<b>57</b>	
11-25926	Filters	20	46	36	<b>102</b>	
11-25982	Null modem adapter	20	46	36	<b>102</b>	
11-25989	Check/combo rrd power supply	20	46	36	<b>102</b>	
11-26011	Cat5 patchcord, 2 meter	378	686	581	<b>1645</b>	
11-26099	16 Port Dlink Switches	54	98	83	<b>235</b>	
11-26185	Perle (EZ Pass)	20	46	36	<b>102</b>	
11-26377	POF MONITOR	14	12	13	<b>39</b>	
12-10417	Universal Power Supply	33	79	59	<b>171</b>	
12-10424	Comm Gateway Controller	34	58	49	<b>141</b>	
12-10438	In-booth Mag Stripe Ticket Reader	20	46	36	<b>102</b>	
12-10439	RB Intercom w/outdoor quad box	49	91	72	<b>212</b>	
Radio Shack	DB9-RJ12 Connector	20	46	36	<b>102</b>	
12-10451	DB9F to RJ45 adapter, 1 req'd per VMS	27	53	47	<b>127</b>	
12-10453	HID READ HEAD	7	7	11	<b>25</b>	
12-25268	LPR/CCTV post w/L-bracket, U bolt, & (3) 4" caps	60	120	90	<b>270</b>	<b>Estimate</b>
20-11903	Main Shaft Crank	40	86	70	<b>196</b>	<b>Included in complete gate count</b>

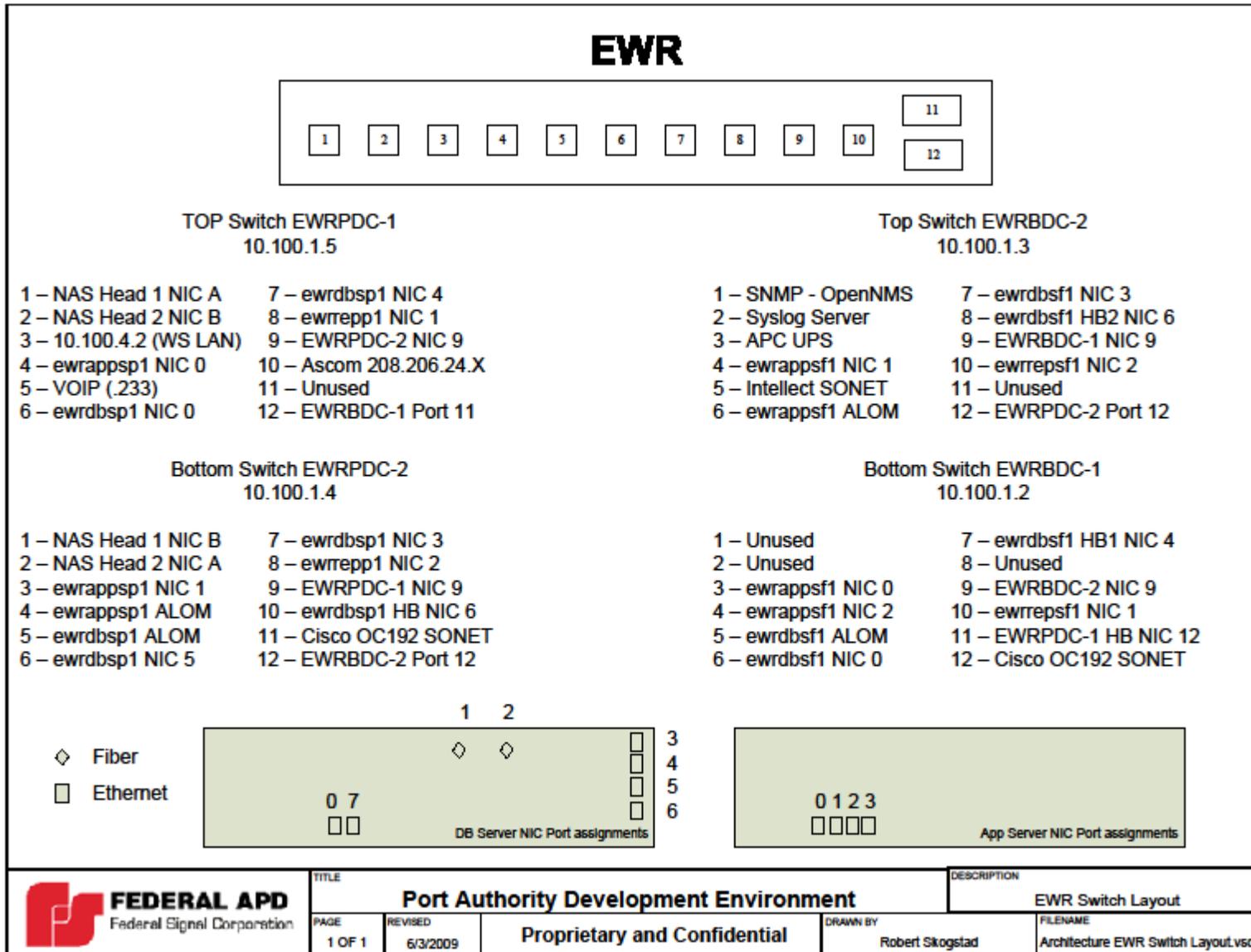
<b>Part Number</b>	<b>Description</b>	<b>LGA</b>	<b>JFK</b>	<b>EWR</b>	<b>Total</b>	<b>Comments/SRO</b>
20-11907	Motor Crank (Posidrive gate)	40	86	70	<b>196</b>	<b>Included in complete gate count</b>
20-11922	main spring pivot bar	40	86	70	<b>196</b>	<b>Included in complete gate count</b>
20-11924	Gate Spring	40	86	70	<b>196</b>	<b>Included in complete gate count</b>
20-12186	Red reflective tape	40	86	70	<b>196</b>	<b>On gate arm</b>
20-3469	Gate Warning labels	40	86	70	<b>196</b>	<b>included in complete gate count</b>
21-11921	Bearing Spring Crank	40	86	70	<b>196</b>	<b>included in complete gate count</b>
21-11944	Posi Gate Switch (door)	40	86	70	<b>196</b>	<b>included in complete gate count</b>
30-22073	Patron CC rdr cable	34	58	49	<b>141</b>	
30-25976	Retracted Ticket Bins	20	52	36	<b>108</b>	
30-26419	exit transport deflector	20	46	36	<b>102</b>	
30-26478	ACT cabinet tabs	20	46	36	<b>102</b>	
32-22361	TD420 Controller	54	98	83	<b>235</b>	
32-22362	TD400 Field I/O Assembly	47	77	70	<b>194</b>	
32-22364	Exit Transport (verifier)	20	46	36	<b>102</b>	
32-22365	TD 420 Transport Assembly (Dispenser)	13	33	23	<b>69</b>	
32-22408	POF Transport	14	12	14	<b>40</b>	
32-25207	Issuing Device	13	33	23	<b>69</b>	
32-25208	Center stripe ASCOM module	0	0	0	<b>0</b>	<b>Not used anymore</b>
41-17102	Power Supplies (ACT)	20	46	36	<b>102</b>	
41-25652	Receipt Buttons	20	46	36	<b>102</b>	
42-16866	POF receipt printer	14	12	13	<b>39</b>	
50-14048	Warning Label	40	86	70	<b>196</b>	<b>Included in complete gate count</b>
50-25072	Connecting Rod (Narrow)	40	86	70	<b>196</b>	<b>Included in complete gate count</b>
50-25101	Gate Arm end cap	80	172	140	<b>392</b>	
50-25102	Gate Anti-Slip Insert	40	86	70	<b>196</b>	<b>Included in complete gate count</b>
50-25112	Gate Arms 10ft	40	86	70	<b>196</b>	<b>Included in complete gate count</b>

<b>Part Number</b>	<b>Description</b>	<b>LGA</b>	<b>JFK</b>	<b>EWR</b>	<b>Total</b>	<b>Comments/SRO</b>
51-25110	Gate Motors (Bodine DC motor)	40	86	70	<b>196</b>	<b>Included in complete gate count</b>
52-14053	LCD Display Interface	47	91	70	<b>208</b>	
52-14056	Posi Drive Controller	40	86	70	<b>196</b>	<b>Included in complete gate count</b>
52-14087	BRO-1 Buffer relay pkg (R/G light control)	40	86	70	<b>196</b>	<b>Included in complete gate count</b>
53-14001	Gate Drive Assembly (complete - motor,power supply and mech)	40	86	70	<b>196</b>	<b>Included in complete gate count</b>
53-14073Y	Complete Gate	40	86	70	<b>196</b>	
60-26063	Prox intercom mtg plate	7	7	11	<b>25</b>	
62-15672	IP Dongles	162	294	249	<b>705</b>	<b>Estimate</b>
63-15732	HID MaxiProx reader w/Non- metallic Jbox, 8x8x4	7	7	11	<b>25</b>	
80-20491	Push for ticket Buttons	13	33	23	<b>69</b>	
80-20492	Cancel Buttons	20	46	36	<b>102</b>	
80-22386	cable -Display cable ACT	20	46	36	<b>102</b>	
80-22387	pin pad cable	20	46	36	<b>102</b>	
80-22388	cable - TD400 mag cable	33	79	59	<b>171</b>	
80-22391	patron receipt printer cable	34	58	49	<b>141</b>	
80-25356	40 pin ribbon cable I/O to td-400 controller	33	79	59	<b>171</b>	
82-20059	LCD - Display	33	79	59	<b>171</b>	
82-22078	ACT fan filter w/cover	20	46	36	<b>102</b>	
82-22383	Receipt Printer (Patron)	34	58	49	<b>141</b>	
87-19688	52 pin ribbon cable -(ACT) td400 to transport)	13	33	23	<b>69</b>	
CCTV-0004	Spectralite outdoor PTZ color camera	33	79	59	<b>171</b>	

<b>Part Number</b>	<b>Description</b>	<b>LGA</b>	<b>JFK</b>	<b>EWR</b>	<b>Total</b>	<b>Comments/SRO</b>
CCTV-0006	Spectra outdoor wall pendant w/PS	33	79	59	<b>171</b>	
CCTV-0009	Video server, Axis 2400+	21	46	34	<b>101</b>	
LPR-0001	P357 Image processor, PANYNJ (PIPs Server)	14	25	18	<b>57</b>	
LPR-0004	LPR camera connector	33	79	59	<b>171</b>	
LPR-0005	LPR Optical Trigger	33	79	59	<b>171</b>	
LPR-0036	Sgl Lane Optical Trigger/Reflector assm w/stands				<b>0</b>	
LPR-0044	LPR P356 camera w/swivel brackets & mtg hardware	33	79	59	<b>171</b>	
LPR-0045	P356 LPR 810nm camera w/5-50 varifocal lens, long hood	33	79	59	<b>171</b>	
LPR-0062	Dual Lane Optical Trigger PVC enclosure upgrade	21	79	59	<b>159</b>	
NPN	EzPass patch reader mushroom cap (green)	20	46	36	<b>102</b>	
NPN	adj thermostat	13	33	23	<b>69</b>	
79	gate motor keys	79	86	70	<b>235</b>	
NPN	Photo Cell	33	79	59	<b>171</b>	
NPN	CCTV Camera Domes	33	79	59	<b>171</b>	
VMS-0019	VMS 1226-2 wall mtd 1.5" char. 2 line Red LED sign	27	53	47	<b>127</b>	
VMS-0020	VMS mtg bracket, PA version w/clamps & mtg hardware	27	53	47	<b>127</b>	

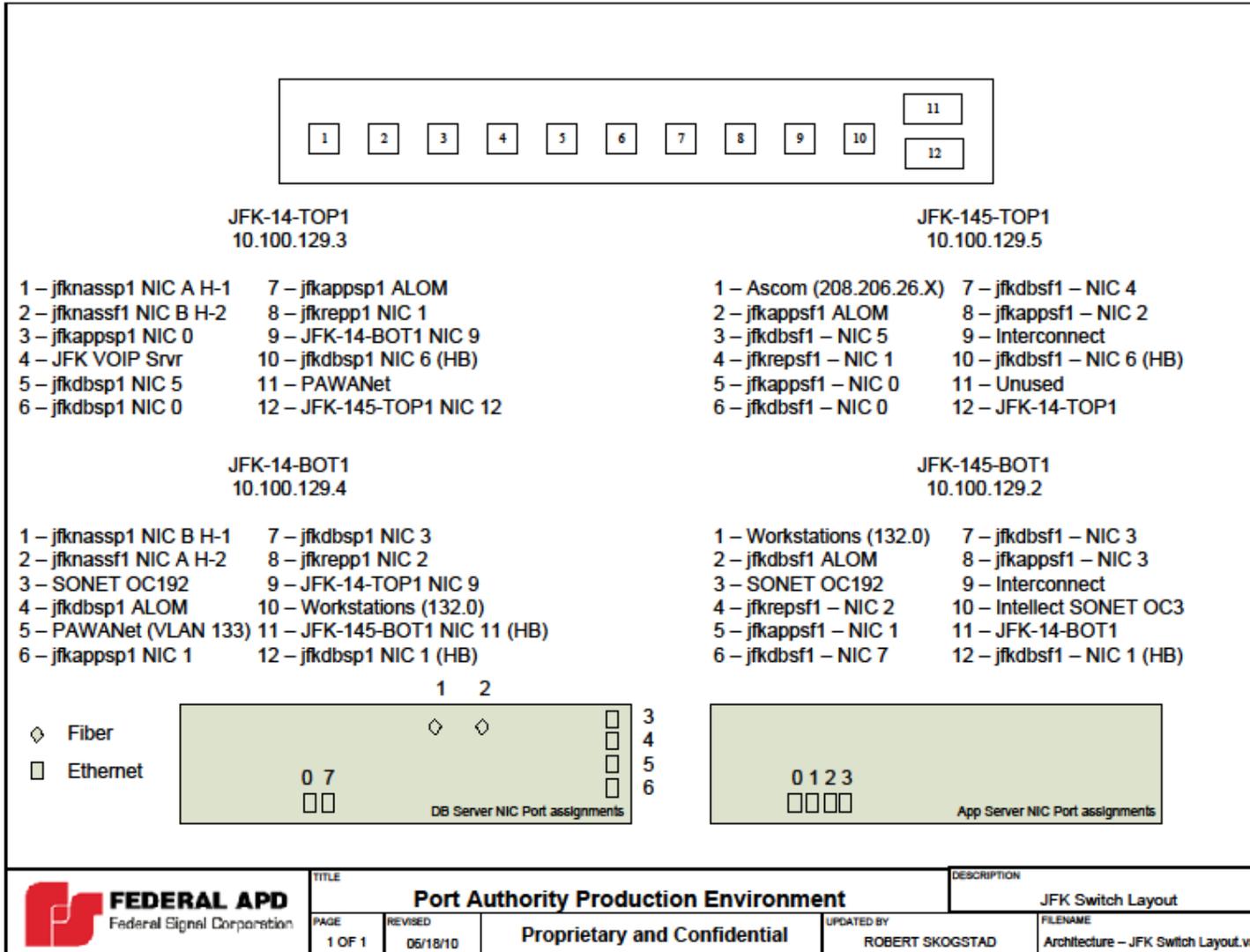
ATTACHMENT I

EWR Switch Layout



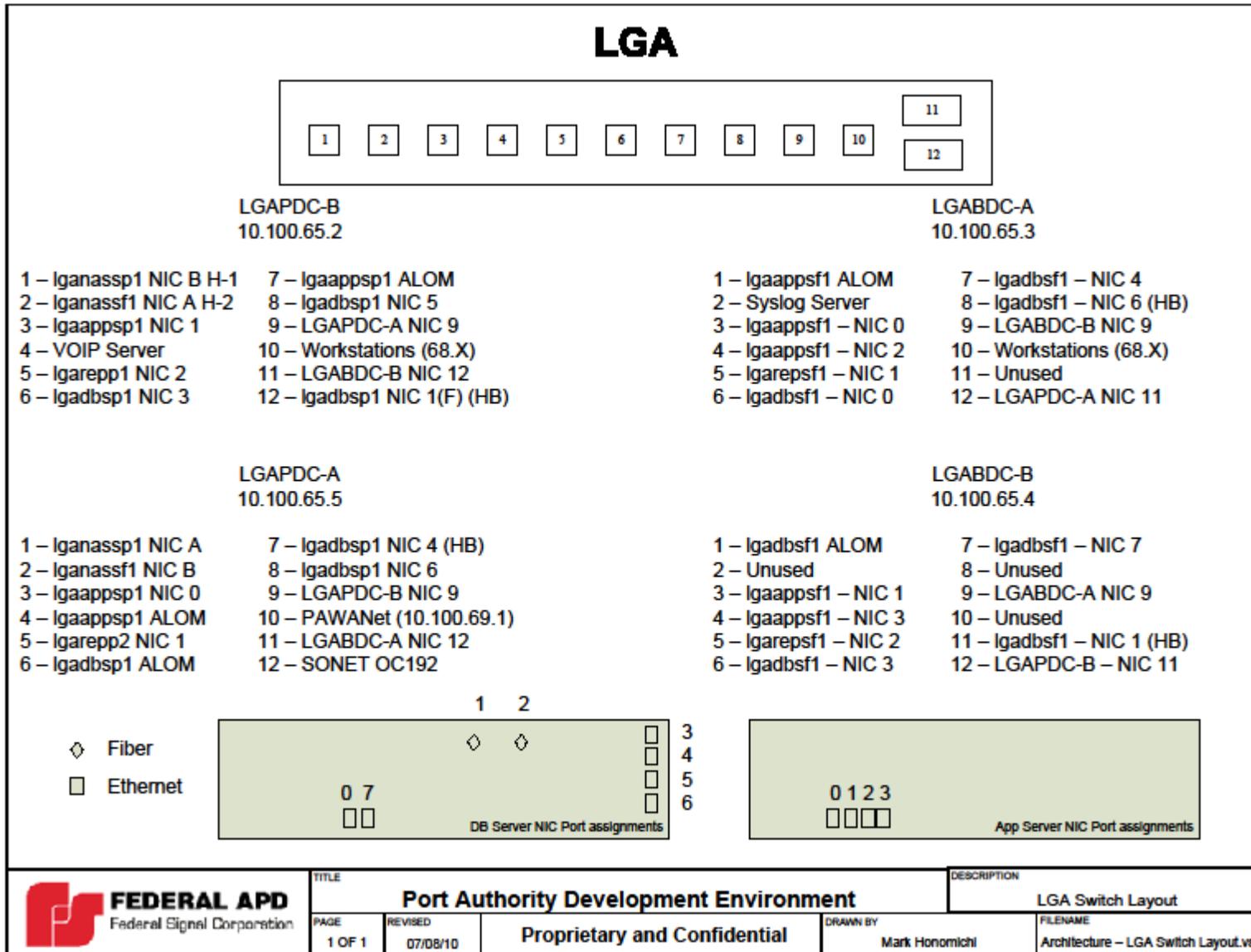
ATTACHMENT I

JFK Switch Layout



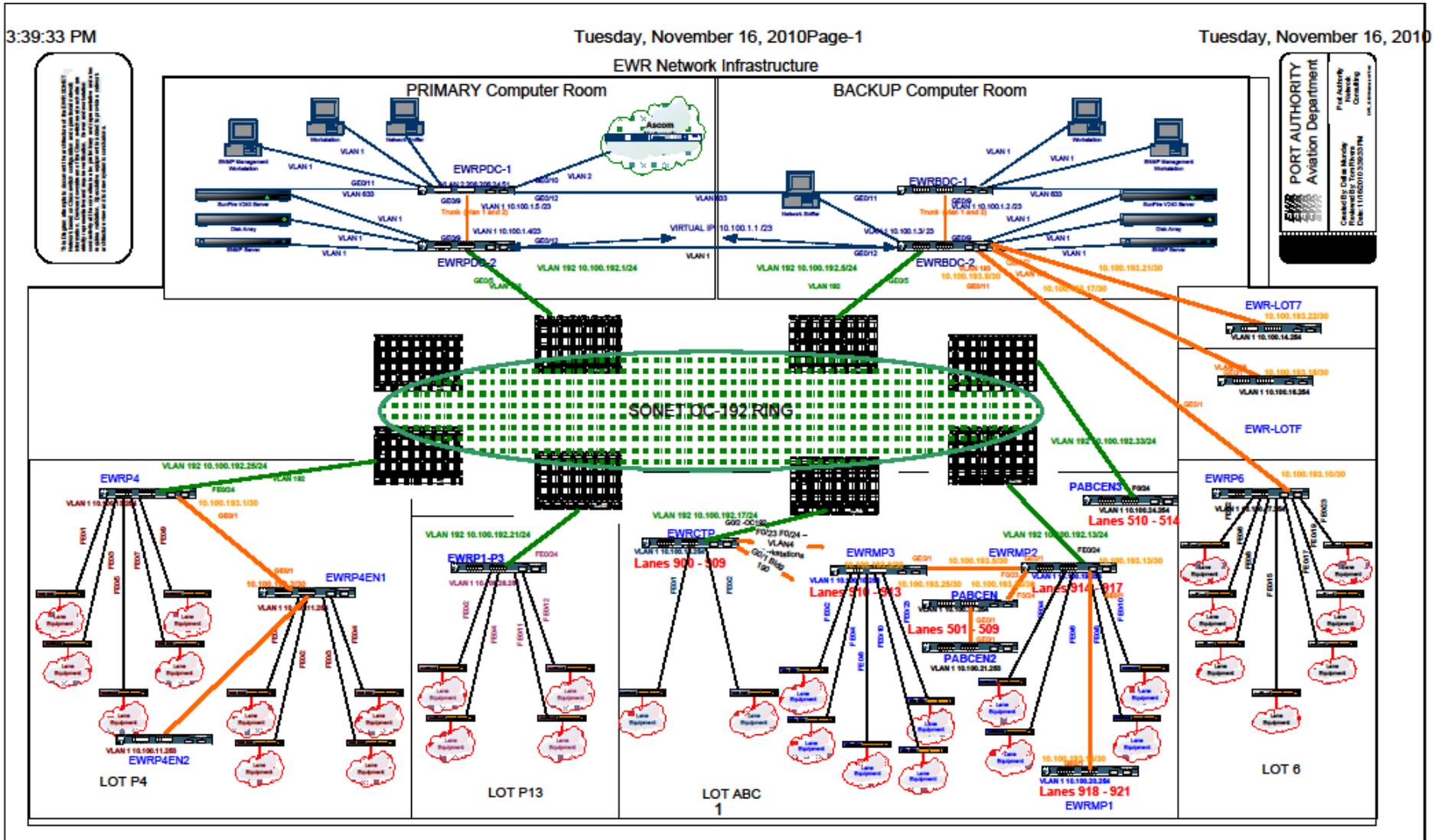
ATTACHMENT I

LGA Switch Layout



ATTACHMENT I

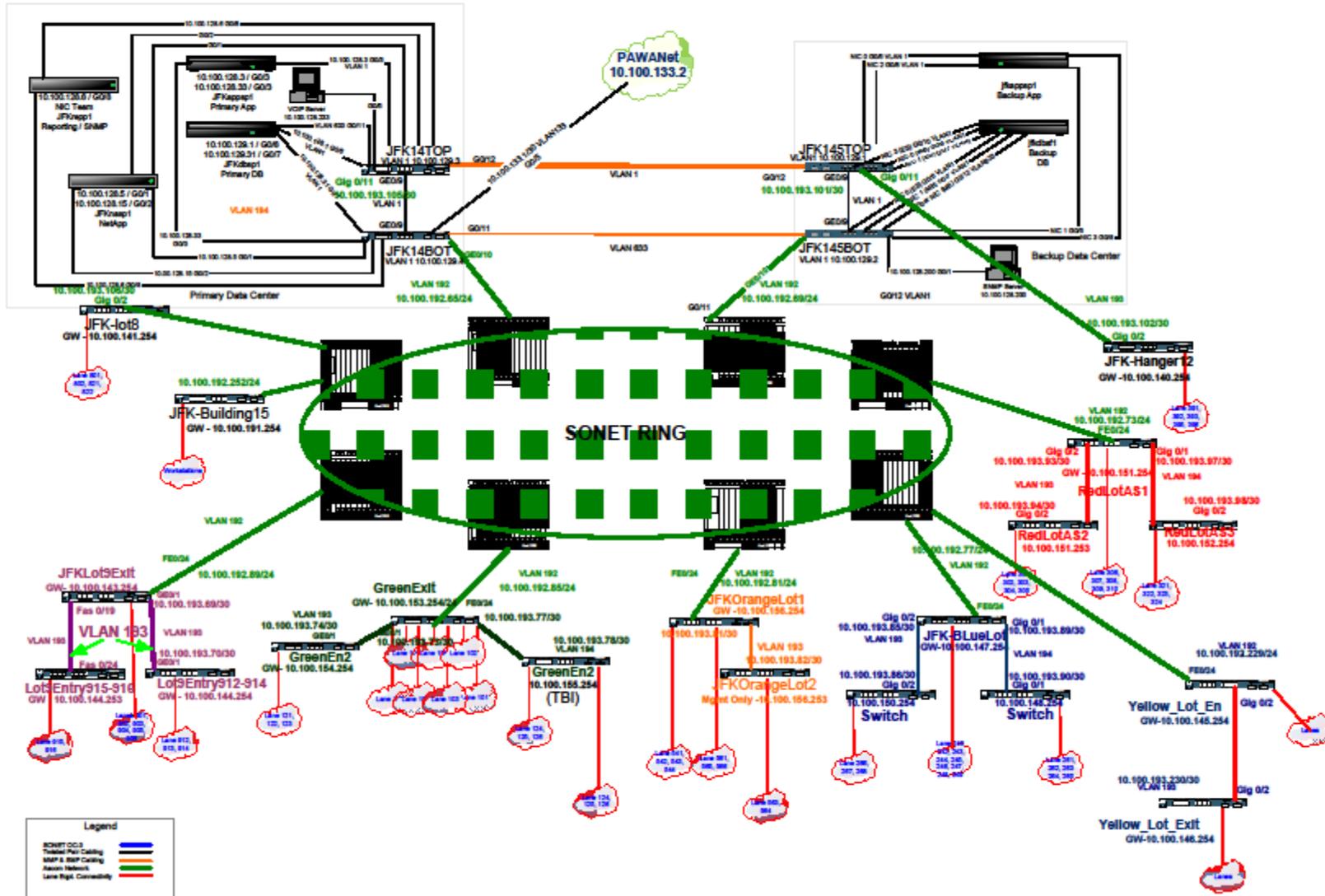
EWR VLAN Infrastructure



ATTACHMENT I

JFK VLAN Infrastructure

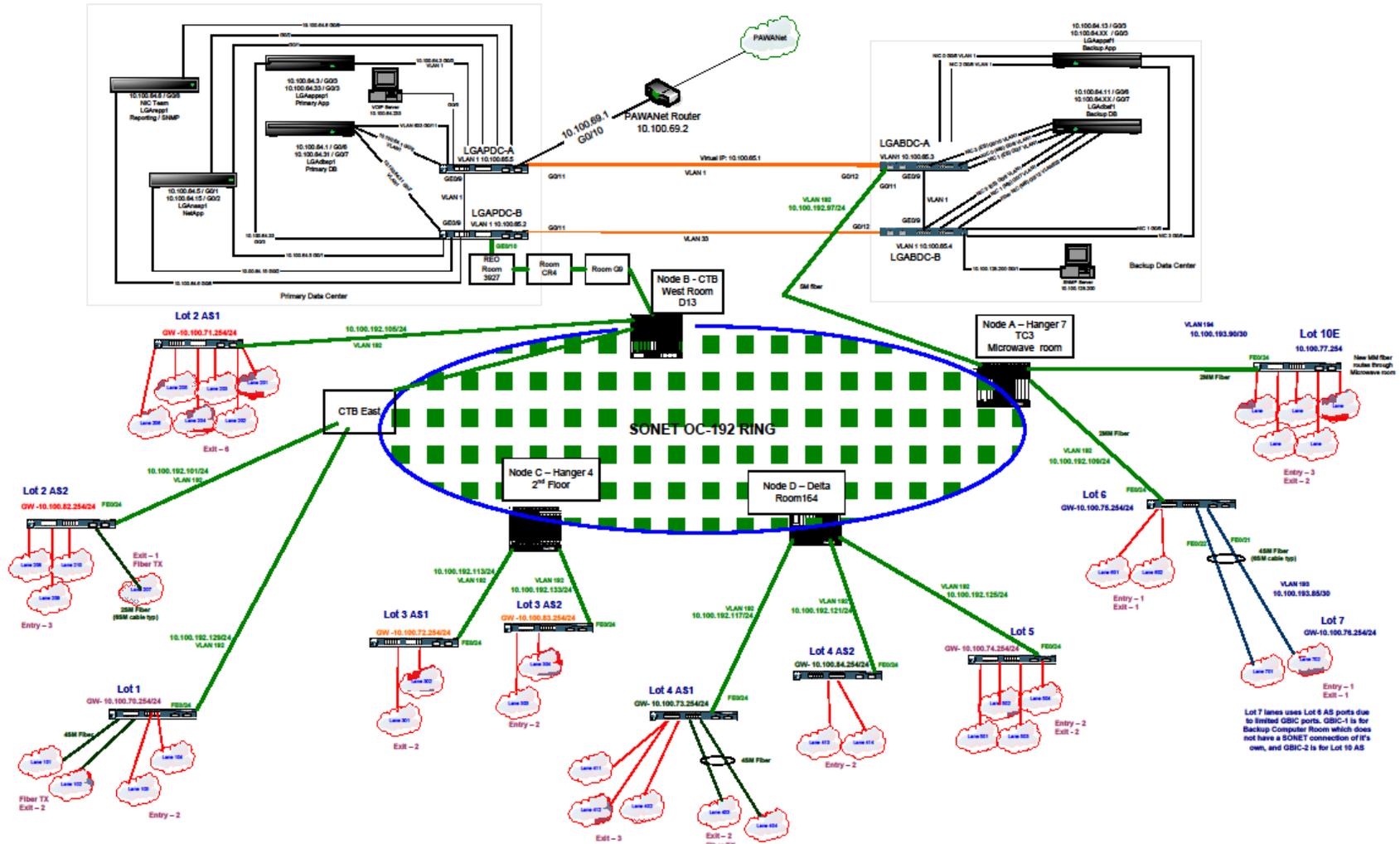
JFK International Airport Topology



# ATTACHMENT I

## LGA VLAN Infrastructure

### LaGuardia International Airport Topology



ATTACHMENT I

**Details for Lanes to be included in this Request for Proposals**

<b>Stewart International Airport</b>				<b>POF column</b>	
<b>Lot</b>	<b># Exit Lanes</b>	<b># Entry Lanes</b>	<b>Bus Only Entrance/Exit Lanes</b>	<b>#</b>	<b>Location</b>
P1	1	2	0	3	Baggage Claim/Frontage
P2	5	2	0	0	None
P4	1	1	1	0	None
Rental Car Lot	1	1	0	0	None
<b>Total</b>	<b>8</b>	<b>6</b>	<b>1</b>	<b>3</b>	

<b>Newark Liberty International Airport</b>					<b>POF column</b>	
<b>Lot</b>	<b># Exit Lanes</b>	<b># Entry Lanes</b>	<b>Bus Only Exit Lanes</b>	<b>Bus Only Entrance Lanes</b>	<b>#</b>	<b>Location</b>
Terminal A	0	3	0	0	3	first level
Terminal A-B	0	3	0	0	0	None
Terminal B	0	3	0	0	2	2
Terminal C Garage	0	5	0	0	4	first level
P-1 – P-3	4	2	1	0	2	2 in Airtrain stations
P-4 Garage	7	5	0	0	2	2
P-4 Garage Prox System	3	3	0	0	0	

**ATTACHMENT I**

P-6	3	2	1	1	0	None
Employee Lot F	4	3	0	0	0	None
Mini-Plaza 1	4	0	0	0	0	None
Mini-Plaza 2	4	0	0	0	0	None
Mini-Plaza 3	4	0	0	0	0	None
Central Exit Plaza	10	0	0	0	0	None
<b>Total</b>	<b>43</b>	<b>29</b>	<b>2</b>	<b>1</b>	<b>13</b>	

<b>LaGuardia Airport</b>					<b>POF column</b>	
<b>Lot</b>	<b># Exit Lanes</b>	<b># Entry Lanes</b>	<b># Bus Only Exit Lanes</b>	<b># Bus Only Entrance Lanes</b>	<b>#</b>	<b>Location</b>
West Garage (under construction)	7	3	0	0	2	TBD
P-4	5	2	0	0	4	
P-5	3	2	0	0	2	Walkway to the Terminal
P-6	1	1	0	0		None
P-7	1	1	0	0		None
<b>Total</b>	<b>17</b>	<b>9</b>	<b>0</b>	<b>0</b>	<b>14</b>	

**ATTACHMENT I**

<b>JFK International Airport</b>					<b>POF column</b>	
<b>Lot</b>	<b># Exit Lanes</b>	<b># Entry Lanes</b>	<b>Bus Only Exit Lanes</b>	<b>Bus Only Entrance Lanes</b>	<b>#</b>	<b>Location</b>
Lot 1 (Green)	7	6	0	0	2	First Level
Lot 2 (Blue)	9	8	0	0	2	First Level
Lot 3 (Red)	10	4	0	0	2	First Level
Lot 4 (Yellow)	8	3	0	0	4	First Level
Lot 5 (Orange)	4	6	0	0	2	Inside AirTrain Station
Employee Lot 8	2	2	0	0	0	None
Lot 9	5	5	1	0	0	None
<b>Total</b>	<b>45</b>	<b>34</b>	<b>1</b>	<b>0</b>	<b>12</b>	

<b>Stewart Airport</b>				
<b>Lot</b>	<b># Exit Lanes</b>	<b># Entry Lanes</b>	<b>Bus Only Exit Lanes</b>	<b>Bus Only Entrance Lanes</b>
Short Term Parking Lot P1	0	2	0	0
Long Term Parking Lot P2	0	2	0	0
Consolidated Exit	4	0	0	0
Long Term Parking Lot P4	2	2	0	0
Rental Car Lot	1	1	0	0
Bus Lanes (to be constructed)	0	0	1	1
<b>Total</b>	<b>7</b>	<b>7</b>	<b>1</b>	<b>1</b>

**ATTACHMENT I**

<b>All Airports</b>					
<b>Airport</b>	<b># Exit Lanes</b>	<b># Entry Lanes</b>	<b>Bus Only Exit Lanes</b>	<b>Bus Only Entrance Lanes</b>	<b>POF</b>
Newark	40	26	2	1	26
LaGuardia	17	9	0	0	28
JFK	45	34	1	0	24
Stewart	7	7	1	1	6
<b>Total</b>	<b>109</b>	<b>76</b>	<b>4</b>	<b>2</b>	<b>84</b>

**ATTACHMENT I**

<b>POFs to be included in this contract</b>	
<b>EWR</b>	<b>Total # of POF</b>
13 Credit Card Only	<b>26</b>
13 Credit Card & Cash	

<b>JFK</b>	<b>Total # of POF</b>
12 Credit Card Only	<b>24</b>
12 Credit Card & Cash	

<b>LGA</b>	<b>Total # of POF</b>
14 Credit Card Only	<b>28</b>
14 Credit Card & Cash	

<b>SWF</b>	<b>Total # of POF</b>
3 Credit Card Only	<b>6</b>
3 Credit Card & Cash	

## List of Existing Reports

### Sample List of Existing Reports

- 30 day plus vehicle
- AMS Billing Detail Report
- Batch Date Payment Date Revenue Reconciliation
- Blocked Tags
- Bus\_Employee Traversal Detail
- Bus\_Employee Traversal Summary
- Card Number Report
- Cashier Consolidation
- Cashier Consolidation detail
- Cashier Event Log
- Cashier Exception Details
- Cashier Exit Lane Activity Register
- Cashier Exit Lane Summary
- Cashier Lane-Shift Summary
- Cashier Prepaid Activity
- Cashier Shift Summary
- Closed Service Call Response Report
- Closed Service Call Summary Report
- Company Report
- Credit Card Approved Detail Card
- Credit Card Batch Reconciliation by Payware
- Credit Card Deleted
- Credit Card Exit Lane Activity Register by Batch Close Date
- Credit Card Exit Lane Activity Register Posting Date

- Credit Card Exit Lane Activity Register
- Credit Card Report Closed Batch Details
- Credit Card Report Details by Batch Date
- Credit Card Report Details by Transaction Date
- Credit Card Report Lane Summary
- Credit Card Report Lot Summary
- Credit Card Type for Facility Summary Report
- Denied Payment Type Group
- Disputes by LP
- Emergency Run Throughs
- Employee Parker Profile Report
- Entry Exit Audit
- Entry Exit Lane Activity
- Entry Lane Activity Register
- Entry Lane Monthly LPR Activity Summary
- Entry Lane Monthly Tickets
- Exit Date Payment Date Revenue Reconciliation
- Exit Lane Activity Register
- Exit Lane Activity Summary
- Exit Lane Exception Details
- Exit Lane *E-ZPass*® Activity Register
- Exit Lane *E-ZPass*® Activity Register by Revenue Date
- Exit Lane Monthly LPR Activity Report
- Exit Lane Prepaid Activity
- Exit Payment Percentage Calculation Daily
- Exit Payment Percentage Calculation Monthly

- *E-ZPass*® ACH Server Log
- *E-ZPass*® ACH Transmission History Report
- *E-ZPass*® Details by Revenue Date
- *E-ZPass*® Details Report
- *E-ZPass*® Lane Summary
- *E-ZPass*® Non Revenue Details
- *E-ZPass*® Non Revenue Details by Revenue Date
- *E-ZPass*® Reconciliation
- *E-ZPass*® Tag Event Report
- *E-ZPass*® Tag File Acquisition Report
- *E-ZPass*® Unused Tags Report
- Facility Peak Occupancy
- FAPD Daily Paid Cars & Gross Revenue Summary
- ID Report
- Login-Logout Status
- Lost Ticket Detail
- Lot Bleed Detail
- Lot Bleed Summary
- Lot Count
- Lot Duration
- Lot Exception Summary
- Lot Exit Exception Activity
- Lot Vehicle Class Payment Summary
- LPI Active Summary
- LPI Exception
- LPI Images

- LPI Upload
- LPR
- Maintenance Activity Summary
- Maintenance Device and Component Parts Inventory
- Manually Entered POF Payment
- Missing Entry Transaction Report
- Missing Vehicle Report
- Monthly Lane Activity
- Monthly Stratification Report
- Occupancy Capacity Volume Analysis
- Occupancy Lane Loading
- Occupancy Transactions Flow Analysis
- Patron Vehicle Active Report
- Patron Visit Detail
- PIN & Handicap Revenue Details
- POF Activity Register
- Preventative Maintenance Report
- Problem-Resolution Summary Report
- Referred Service Call Reporting
- Returned Tags
- Service Call Register
- Special Plate Transactions
- Stock on Hand Summary
- Suggested Stock Re-Order
- System Activity
- Tag Report

- Tickets Issued
- Traffic Backup Adjustments
- User Activity Performance
- Vehicle Class Payment Register
- Vehicle Inquiry Detail
- Vehicle Inquiry Detail & Summary
- Vehicle Inquiry Summary Closed Visits
- Vehicle Inquiry Summary Open Visits
- Vehicle Report
  
- Voided Transactions

Attachment E Functional Specifications, Section V Automated Pay Stations

The Contractor shall install Automated Pay Stations (also referred to as “Pay-on-Foot” or POF) as part of this project.

- I. Pay-On-Foots (POFs) shall be installed at approximately eighty one (81) locations convenient for patron use, to be identified by Authority personnel. The approximate number of these, which shall handle both credit card and cash transactions is forty two (42). The Authority may elect to purchase additional devices at any time under this Contract. Pricing shall be based on the prices in the Contractor’s pricing sheets, accepted by the Port Authority at Contract commencement, with allowable increases or decreases in accordance with the Contract terms.
  - a. Newark Liberty International Airport APS Total: 26
    - i. Credit Card only: 13
    - ii. Credit Card or Cash: 13
  - b. LaGuardia Airport APS Total: 28
    - i. Credit Card only: 14
    - ii. Credit Card or Cash: 14
  - c. JFK International Airport APS Total: 24
    - i. Credit Card only: 14
    - ii. Credit Card or Cash: 14
  - d. Stewart International Airport: 6
    - i. Credit Card only: 3
    - ii. Credit Card or Cash: 3

*The rest of the section remains the same.*

### **3) OVERVIEW OF OPERATING ENVIRONMENT**

The existing Parking Access and Revenue Control System (PARCS), manufactured by 3M (previously Federal APD) is in operation at LaGuardia Airport, John F. Kennedy International Airport, and Newark Liberty International Airport and is referred to as the ONYX system.

The system at Stewart International Airport was also provided by 3M and is a scaled down system referred to as ScanNet. These systems operate independently and each communicates over a separate Cisco Fiber Optic Transmission product, the Sonet LYNX OC-192 System. Specific details regarding the present system may be found in Attachment I, "Background of Existing System."

LaGuardia Airport has two temporary lots (Lot 10 and Employee Parking) that contain Scheidt and Bachmann equipment. These lots are not planned to be updated to new PARCS equipment and are not included in the relevant pricing sheets. The LGA Scheidt and Bachmann equipment IS to be included in this Contract's maintenance of Existing PARCS pricing.

The Contractor will have end-to-end responsibility for the support of both the Existing and New PARCS, except where specified by the Authority in the RFP.

REVISED 4/22/16

**Parking Access and Revenue Control System—  
Design, Installation & Maintenance**

**Attachment C2  
Cost Proposal**

**1. Total Cost for New PARCS Equipment, Including Design and Installation of New System and Removal of Existing System**

*Below costs should include all costs associated with tasks outlined in the Attachment D, Scope of Work sections 1.1 and 1.3.*

Description	Facility	Cost Per Facility
80 - Entrance and Exit Lanes 24- Pay on Foot Machines (12 CC Only – 12 CC & Cash)	JFK	\$ _____
26 - Entrance and Exit Lanes 28 – Pay on Foot Machines (14 CC Only-14 CC & Cash)	LGA	\$ _____
69 - Entrance and Exit Lanes 24 – Pay on Foot Machines (12 CC Only -12 CC & Cash)	EWR	\$ _____
16 - Entrance and Exit Lanes 6 - Pay on Foot Machines (3 CC Only – 3 CC & Cash)	SWF	\$ _____

Total Cost for All New PARCS Equipment including design and installation at airports listed above:

\$ \_\_\_\_\_

Note: Payments for Equipment and Installation will be made in “Milestones Payments” found in Attachment C section 5 titled “Payment”.

**2. Annual Cost for Preventative and Remedial Maintenance of Existing and New PARCS Equipment**

*Below costs should include all costs associated with tasks outlined in the Attachment D, Scope of Work Section 8, PARCS MAINTENANCE.*

Included in below figures should be:

Preventative and Remedial Maintenance Labor and Parts for the Existing and New PARCS

System Updates for the Existing and New PARCS

All Software Updates for the New PARCS

Facility	Year 1 Price	Year 2 Price	Year 3 Price	Year 4 Price	Year 5 Price	Year 6 Price	Grand Total for six years
JFK							
LGA							
EWR							
SWF							
Grand Total							

Note: Annual price will be paid in 12 monthly payments by each facility.

**3. Fees and Charges**

*Below costs should include any fees and charges that will occur to the Port Authority that are not already included in Sheet 1, Total Cost for New PARCS Equipment, Including Design and Installation of New System and Removal of Existing System and Sheet 2, Annual Cost for Preventative and Remedial Maintenance of Existing and New PARCS Equipment. Blank lines are available for a listing of other fees not yet mentioned that will be charged to the Port Authority.*

Title	Summary	Fee	Estimated Cost for Base Term of Contract
Integration Fee	Cost to integrate third party systems and software		
Credit Card Payment Processing Fee	Per transaction fee to process credit card payments		
Online Prebooking Processing Fee	Per transaction fee to process online prebooking payments		

**4. Cost per Lane**

*Over the course of this Contract, airport redevelopment activities will necessitate the creation of new entry and exit plazas as well as the placement of additional Pay-on-Foot machines. Proposers shall provide the cost for equipment, including installation costs. The costs shall remain in effect for the initial Base Term of the Contract and will increase by the same percentage as maintenance costs during the three two-year Option Periods, if exercised, per Price Adjustment in Attachment C. Costs should cover the maximum functionality for each item as defined in Attachment D, "Scope of Work" and Attachment E, "Functional Requirements".*

Cost Per Item:	JFK	LGA	EWR	SWF
Entry Lane				
Exit Lane				
Pay-on-Foot Machine				

**5. Sample Replacement Equipment Price List for New PARCS**

*Proposers shall provide the cost for the equipment listed below. The costs shall remain in effect for the initial Base Term of the Contract and will be increased by the same percentage as maintenance costs during the three two-year Options Periods, if exercised, per Price Adjustment in Attachment C1.*

Blank Spaces Provided Below For Additional Replacement Components – to be filled in by Proposers, as necessary. Use additional sheets, as needed.

PARCS Equipment Component	Manufacturer	Unit Price
Ticket Issuing Machine (TIM)		
Cashier Terminal (CT)		
PosiDrive Parking Gate		
Uninterruptable Power Supply (UPS)		
VMS – Fee Display		
Overhead <i>E-ZPass® Plus™</i> Antenna		
<i>E-ZPass® Plus™</i> Patch Antenna		
Credit Card Reader		

Ticket Reader		
LPR Camera		
Backup Tape Drives		
Proximity Card Reader		

**5. Staff Pricing for Work Orders, Extra Work & Net Cost**

UNIT PRICING for STAFF CATEGORIES FOR WORK ORDERS, EXTRA WORK & NET COST DURING CONTRACT YEAR 1			
Personnel Title	Estimated Number of Hours – Only to be used to Compare Proposed Hourly Rates (See Note 1)  A	Hourly Rates (See Note 2)  B	Extended Total  A*B
Project Manager	400	\$	\$
Professional Engineer	100	\$	\$
Electrical Engineer	100	\$	\$
Network Engineer	150	\$	\$
Licensed Electrician	400	\$	\$
Senior Technician	250	\$	\$
Field Technician	1000	\$	\$
Systems Designer/Engineer	400	\$	\$
Computer Programmer/Analyst	1000	\$	\$
Application Specialist	400	\$	\$
Web Application Programmer	50	\$	\$
System Integration Specialist	100	\$	\$
Manufacturer Technician Support	250	\$	\$
Data Base Administrator	200	\$	\$
Data Base Programmer	500	\$	\$
Contract Administrator	100	\$	\$
(See Note 3 Below)			
Extended Labor Total (Sum of Extended Totals for Each Labor Category)			\$

Notes:

- 1) Only hours agreed upon for Work Orders, Extra Work and Net Cost projects will be paid.
- 2) Hourly Rates are not subject to any additional markup or overhead and prevailing wages should be used, where applicable.
- 3) The Contractor shall include/substitute any additional labor categories of staff that may be used in performance of the Contract, and indicate their fixed hourly rates.

**UNIT PRICING for STAFF CATEGORIES FOR WORK ORDERS, EXTRA WORK & NET COST DURING CONTRACT YEAR 2**

Personnel Title	Estimated Number of Hours – Only to be used to Compare Proposed Hourly Rates (See Note 1)  A	Hourly Rates (See Note 2)  B	Extended Total  A*B
Project Manager	400	\$	\$
Professional Engineer	100	\$	\$
Electrical Engineer	100	\$	\$
Network Engineer	150	\$	\$
Licensed Electrician	400	\$	\$
Senior Technician	250	\$	\$
Field Technician	1000	\$	\$
Systems Designer/Engineer	400	\$	\$
Computer Programmer/Analyst	1000	\$	\$
Application Specialist	400	\$	\$
Web Application Programmer	50	\$	\$
System Integration Specialist	100	\$	\$
Manufacturer Technician Support	250	\$	\$
Data Base Administrator	200	\$	\$
Data Base Programmer	500	\$	\$
Contract Administrator	100	\$	\$
(See Note 3)			
Extended Labor Total (Sum of Extended Totals for Each Labor Category)			\$

Notes:

- 1) Only hours agreed upon for Work Orders, Extra Work and Net Cost projects will be paid.
- 2) Hourly Rates are not subject to any additional markup or overhead and prevailing wages should be used, where applicable.
- 3) The Contractor shall include/substitute any additional labor categories of staff that may be used in performance of the Contract, and indicate their fixed hourly rates.

**UNIT PRICING for STAFF CATEGORIES FOR WORK ORDERS, EXTRA WORK & NET COST DURING CONTRACT YEAR 3**

Personnel Title	Estimated Number of Hours – Only to be used to Compare Proposed Hourly Rates (See Note 1)  A	Hourly Rates (See Note 2)  B	Extended Total  A*B
Project Manager	400	\$	\$
Professional Engineer	100	\$	\$
Electrical Engineer	100	\$	\$
Network Engineer	150	\$	\$
Licensed Electrician	400	\$	\$
Senior Technician	250	\$	\$
Field Technician	1000	\$	\$
Systems Designer/Engineer	400	\$	\$
Computer Programmer/Analyst	1000	\$	\$
Application Specialist	400	\$	\$
Web Application Programmer	50	\$	\$
System Integration Specialist	100	\$	\$
Manufacturer Technician Support	250	\$	\$
Data Base Administrator	200	\$	\$
Data Base Programmer	500	\$	\$
Contract Administrator	100	\$	\$
(See Note 3)			
Extended Labor Total (Sum of Extended Totals for Each Labor Category)			\$

Notes:

- 1) Only hours agreed upon for Work Orders, Extra Work and Net Cost projects will be paid.
- 2) Hourly Rates are not subject to any additional markup or overhead and prevailing wages should be used, where applicable.
- 3) The Contractor shall include/substitute any additional labor categories of staff that may be used in performance of the Contract, and indicate their fixed hourly rates.

**UNIT PRICING for STAFF CATEGORIES FOR WORK ORDERS, EXTRA WORK & NET COST DURING CONTRACT YEAR 4**

Personnel Title	Estimated Number of Hours – Only to be used to Compare Proposed Hourly Rates (See Note 1)  A	Hourly Rates (See Note 2)  B	Extended Total  A*B
Project Manager	400	\$	\$
Professional Engineer	100	\$	\$
Electrical Engineer	100	\$	\$
Network Engineer	150	\$	\$
Licensed Electrician	400	\$	\$
Senior Technician	250	\$	\$
Field Technician	1000	\$	\$
Systems Designer/Engineer	400	\$	\$
Computer Programmer/Analyst	1000	\$	\$
Application Specialist	400	\$	\$
Web Application Programmer	50	\$	\$
System Integration Specialist	100	\$	\$
Manufacturer Technician Support	250	\$	\$
Data Base Administrator	200	\$	\$
Data Base Programmer	500	\$	\$
Contract Administrator	100	\$	\$
(See Note 3)			
Extended Labor Total (Sum of Extended Totals for Each Labor Category)			\$

Notes:

- 1) Only hours agreed upon for Work Orders, Extra Work and Net Cost projects will be paid.
- 2) Hourly Rates are not subject to any additional markup or overhead and prevailing wages should be used, where applicable.
- 3) The Contractor shall include/substitute any additional labor categories of staff that may be used in performance of the Contract, and indicate their fixed hourly rates.

**UNIT PRICING for STAFF CATEGORIES FOR WORK ORDERS, EXTRA WORK & NET COST DURING CONTRACT YEAR 5**

Personnel Title	Estimated Number of Hours – Only to be used to Compare Proposed Hourly Rates (See Note 1)  A	Hourly Rates (See Note 2)  B	Extended Total  A*B
Project Manager	400	\$	\$
Professional Engineer	100	\$	\$
Electrical Engineer	100	\$	\$
Network Engineer	150	\$	\$
Licensed Electrician	400	\$	\$
Senior Technician	250	\$	\$
Field Technician	1000	\$	\$
Systems Designer/Engineer	400	\$	\$
Computer Programmer/Analyst	1000	\$	\$
Application Specialist	400	\$	\$
Web Application Programmer	50	\$	\$
System Integration Specialist	100	\$	\$
Manufacturer Technician Support	250	\$	\$
Data Base Administrator	200	\$	\$
Data Base Programmer	500	\$	\$
Contract Administrator	100	\$	\$
(See Note 3)			
Extended Labor Total (Sum of Extended Totals for Each Labor Category)			\$

Notes:

- 1) Only hours agreed upon for Work Orders, Extra Work and Net Cost projects will be paid.
- 2) Hourly Rates are not subject to any additional markup or overhead and prevailing wages should be used, where applicable.
- 3) The Contractor shall include/substitute any additional labor categories of staff that may be used in performance of the Contract, and indicate their fixed hourly rates.

**UNIT PRICING for STAFF CATEGORIES FOR WORK ORDERS, EXTRA WORK & NET COST DURING CONTRACT YEAR 6**

Personnel Title	Estimated Number of Hours – Only to be used to Compare Proposed Hourly Rates (See Note 1)  A	Hourly Rates (See Note 2)  B	Extended Total  A*B
Project Manager	400	\$	\$
Professional Engineer	100	\$	\$
Electrical Engineer	100	\$	\$
Network Engineer	150	\$	\$
Licensed Electrician	400	\$	\$
Senior Technician	250	\$	\$
Field Technician	1000	\$	\$
Systems Designer/Engineer	400	\$	\$
Computer Programmer/Analyst	1000	\$	\$
Application Specialist	400	\$	\$
Web Application Programmer	50	\$	\$
System Integration Specialist	100	\$	\$
Manufacturer Technician Support	250	\$	\$
Data Base Administrator	200	\$	\$
Data Base Programmer	500	\$	\$
Contract Administrator	100	\$	\$
(See Note 3)			
Extended Labor Total (Sum of Extended Totals for Each Labor Category)			\$

Notes:

- 1) Only hours agreed upon for Work Orders, Extra Work and Net Cost projects will be paid.
- 2) Hourly Rates are not subject to any additional markup or overhead and prevailing wages should be used, where applicable.
- 3) The Contractor shall include/substitute any additional labor categories of staff that may be used in performance of the Contract, and indicate their fixed hourly rates.

**6. Parking Space Count System Design and Installation Price Sheet**

*(The Port Authority may decide not to purchase a PSCS. The below price sheet is for information only. At Contract signing the Port Authority shall exercise the option to design and install a PSCS at the below listed prices.)*

See Attachment E Parking Access and Revenue Control System Functional Specifications  
(Section 1.05 Subparagraph 10.I Parking Space Count System PSCS)

Facility	Number of Garages	Location and Description of Garages (roof levels have been omitted from the below)	Number of Spaces Per Level	Price Per Garage
JFK	5	Terminals 1 & 2- Green Garage (3 Levels) Note: Green Garage has 2 Entrances on each Level	Green Level 1- 273	\$ _____
			Green Level 2 – 343	
			Green Level 3 – 322	
			Total Spaces - 938	
		Terminal 4 - Blue Garage (4 Levels)	Blue Level 1- 183	\$ _____
			Blue Levels 2,3,4- 258	
			Total Spaces - 441	
		Terminal 5- Yellow Garage (5 Levels)	Yellow Level 1- 123	\$ _____
			Yellow Levels 2,3,4- 240	
			Yellow Level 5- 230	
			Total Spaces - 1,073	
		Terminal 7- Orange Garage (1 Level)	Orange Level 1 - 278	\$ _____
			Red Level 1- 273	
		Terminal 8 -Red Garage (4 Levels)	Red Level 2- 347	\$ _____
			Red Level 3- 349	
			Red Level 4- 356	
Total Spaces - 1325				

EWR	2	Parking Lot 4 - Garage (5 Levels)	Level 1 –	260	
			Level 2 -	541	
			Level 3 -	553	
			Level 4 -	553	
			Level 5 -	553	
			Total Spaces-	2460	\$_____
		Terminal C- Garage (3 Levels)	Level 1-	629	
			Level 2-	801	
			Level 3-	911	
			Total Spaces-	2341	\$_____
LGA	2	P4 Parking Garage (5 Levels)	Level 1 –	122	
			Level 2 –	199	
			Level 3 -	200	
			Level 4-	200	
			Level 5-	193	
			Total Spaces-	914	\$_____
		West Garage (6 Levels) (under construction)	Level 1—	244	
			Level 2—	485	
			Level 3—	471	
			Level 4—	486	
			Level 5—	471	
			Level 6—	486	
			Total Spaces—	2,643	\$_____
		Total Cost Per Airport	JFK		\$_____
			EWR		\$_____
			LGA		\$_____
			Total Cost All Facilities (JFK,EWR,LGA)		\$_____

