



## Department of Airports

Cindy Nichol  
Director

## Divisions

Operations & Maintenance  
Finance & Administrative Services  
Commercial Development  
Planning & Development

# County of Sacramento

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January 5, 2024

To: Prospective Proposers

From: Michael Winans  
Airport Economic Development Specialist  
Sacramento County Department of Airports

**Subject: Addendum #1 – RFP for a Parking Access and Revenue Control System at Sacramento International Airport**

This addendum provides updates to the Request for Proposals (RFP) referenced in the subject line and responses to questions received from potential proposers prior to the deadline designated in the RFP.

### RFP Updates

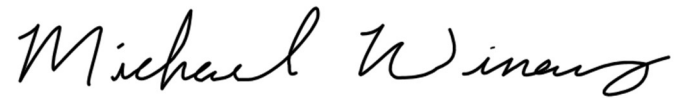
1. The RFP makes references to “civil improvements” requiring signed and sealed drawings. Said civil improvements will be performed by a separate contractor hired and directed by the Sacramento County Department of Airports (Department) as deemed necessary. References to civil improvements and drawings have been updated in the sample agreement included with the RFP. See Attachment 2 to this addendum.
2. Removal of the cashier booths will not be the responsibility of the proposer selected pursuant to this RFP, and those references have been removed from the sample agreement included with the RFP. See Attachment 2 to this addendum.
3. An Exhibit I has been added to the sample agreement to define specifications for the AVI system. See Attachment 2 to this addendum.

### RFP Questions

The Department received eighty-two (82) questions regarding the RFP. Listed in Attachment 1 are the questions received and the Department’s responses.

The questions listed are in the exact format received by the Department, with no corrections made for spelling or grammar.

Kind Regards,

A handwritten signature in black ink that reads "Michael Winans". The signature is written in a cursive, flowing style.

Michael Winans, C.M.  
Airport Economic Development Specialist

Attachments:

- 1 - Questions and Responses
- 2 - Updated Sample Agreement
- 3 - Revised Equipment Counts
- 4 - Additional Drawings
- 5 - Network Architecture

**ATTACHMENT 1**  
**QUESTIONS AND RESPONSES**

#	Question or Request	Response
1	<p>Item 12 in Section C of Exhibit A read as follows: <i>"Provide construction drawings and specifications that are signed and sealed by a professional engineer licensed in the state of California for all infrastructure improvements. CONTRACTOR shall coordinate with COUNTY to ensure any civil improvement changes for the PARCS are brought to the attention of the SMF project team and included in drawings, where necessary."</i></p> <p>You state that signed and sealed CDs will be needed for "all infrastructure improvements". Please clarify the anticipated meaning of "infrastructure improvements" and "civil improvement changes" that would need to be documented in such signed and sealed CDs. What sort of items do you expect might be included in these categories?</p> <p>Also, later in the RFP (Section D of Exhibit A), it states that the County will run all needed power and network conduit and cabling to the general vicinity of each PARCs component, so may bidders assume that CDs associated with such conduit and cabling runs will not be required to be produced by the Prime Contractor?</p>	<p>The Department has determined that all infrastructure improvements will be completed under a separate contract. Proposers may disregard the requirement for signed and sealed CDs as reflected in Attachment 2.</p> <p>The anticipated infrastructure improvements shall include, but not be limited to, the following:</p> <ul style="list-style-type: none"> <li>• Island extensions for pre-capture LPR at entries.</li> <li>• New islands for proposed LPR layout.</li> <li>• Cashier booth removal.</li> <li>• Upgrades to areas where cashier booths have been removed.</li> <li>• Repairs to lane asphalt.</li> <li>• New lanes for South Economy Lot</li> </ul>

2	<p>Issue – Jan. 4th meeting will generate a new round and volume of questions, many of which will be technical in nature. Although the Airport will have multiple people onsite to answer questions, per the RFP all proposers must submit written questions and have them answered in writing by the airport. Any verbal responses by airport personnel cannot be valid per the RFP</p>	<p>There will not be a planned question and answer period following the pre-proposal conference. The Department may issue additional addenda prior to the deadline for proposal submissions if it is deemed necessary.</p>
3	<p>To provide vendors adequate time to receive and process the questions that arise from the Jan. 4th meeting can the RFP due date be extended to February 2nd?</p>	<p>The Department does not intend to adjust the proposal due date. Any changes to this date will be communicated via addendum to the RFP.</p>
4	<p>While only 2 people from each vendor are allowed to attend the live meeting is it possible for additional people from each vendor to attend the meeting virtually? These people could remain in the background but would be able to see and here any presentations or conversations from the live group.</p>	<p>The limit of two attendees is intended to apply to in-person attendees due to conference room size limitations.</p>
5	<p>On page 2 it is noted that the Airport currently uses OmniQ LPR and TransCore AVI readers. Can these readers be re-used in the new PARCS system or do all components need to be new?</p>	<p>All components for the PARCS procured pursuant to this RFP must be new.</p>
6	<p>For any subcontractors that may be utilized for the project is there any type of Union labor requirement?</p>	<p>No.</p>



7	Can you provide the equipment matrix and pricing forms in Excel Formats prior to the Jan.4th meeting?	On 12/28/2023, the updated price proposal form was e-mailed directly to firms who had registered for the pre-proposal conference. A further updated price proposal form was sent to proposers who attended the pre-proposal conference along with this addendum.
8	Page 3 Contractor to provide API's to allow county to integrate with related systems, Including Parking reservation system & parking guidance system. Do these systems already exist or are they planned for future expansion? Please elaborate on what is expected here where it comes to the integration of such systems with a provided API.	<p>A separate procurement for the reservation system is currently being considered. An RFP for the Parking Guidance System was issued on 12/28/2023 and may be found at this link: <a href="https://sacramento.aero/scas/opportunities/bids_and_requests">https://sacramento.aero/scas/opportunities/bids_and_requests</a></p> <p>Generally, the PARCS interface with a future reservation system should support entry and exit of reservations credentials (QR code and License Plate Number [LPN]), ability to check to validity of the reservation and permit or deny access accordingly, and charge an additional fee at exit for overstays.</p> <p>Generally, the interface with a future guidance system should facilitate displaying the location of a customer's parked vehicle on the screens of the pay-on-foot stations and also linking a LPN between the PARCS and parking guidance system for the ability to charge additional fees for parking in designated premium spaces.</p>

9	<p>Page 3 BI Solutions including Airports' ROADS data warehouse. Please explain this system and it's functionality with the PARCs system. Also a loyalty program and Valet system are mentioned. Do these exist already or are they something that should be quoted as part of the PARCS system?</p>	<p>ROADS is a SQL server with multiple databases. Data from the PARCS and related systems (LPR, LPI, Credit Card, etc.) is required to be transmitted on a nightly basis (at a minimum) via secured method. This data is incorporated with various other Sacramento International Airport (SMF) systems data and used for reporting and BI analysis.</p> <p>Both the loyalty program and valet system do not currently exist at SMF.</p> <p>A loyalty program may be provided and managed by a future parking reservation system.</p> <p>The valet system shall be proposed as part of a firm's submission to this RFP, as defined in Exhibit A of the sample agreement.</p>
10	<p>Page 4 – Remove and replace all lane and paystation equipment. This is clear but what is to be done with the old equipment? Is the Airport responsible for disposal or is the contractor?</p>	<p>The Department will be responsible for disposal or retention of equipment. The selected proposer will be responsible for removing equipment (except cashier booths) and transporting them to a storage location to be decided by the Department.</p>

11	Page 4 Remove booths. Once removed are these to be moved to a storage site or are they to be disposed of and if so is Airport or contractor responsible for disposal costs.	Booth removal and disposal/relocation will be performed by a separate contractor. See Attachment 2.
12	Page 4 Provide, maintain, and monitor the PARCS communications network. The PARCS vendor does not own the communications network, or it's components, the Airport does. Please elaborate expectations here.	<p>The airport provides infrastructure and layer 3 interfaces at vendors specifications.</p> <p>All PARCS equipment at booths, cameras, etc. are connected to access switches which are to be procured and managed/monitored by PARCS vendor. The Department trunks all of its VLANs to its switches via fiber.</p> <p>SMF's demarcation point (demarc) is the fiber port on Department-owned switches which will connect to the selected proposer's procured switches.</p>
13	Page 7 County provisions – States that power and communications will be provided to the “vicinity” of each component. What does vicinity mean? Does it mean running to the island or running to each device so the PARCS vendor can hookup the power and communications to the device?	Power and communication will be provided to each lane and pay station location. All interconnects between devices within the lanes are the responsibility of the contractor in accordance with Exhibit A in the sample agreement.

14	<p>"Page 18 Operating Stock</p> <ul style="list-style-type: none"> <li>- Can roll stock tickets be utilized or are fan-fold tickets required? Industry is moving to roll stock as it's half the price of fan-fold tickets</li> <li>- Are standard HID clam shell cards acceptable or does the Airport have a specification?</li> <li>- AVI transponders – Does the Airport prefer active or passive tags? Also, is there a specification for the brand of AVI readers or transponders?"</li> </ul>	<p>Roll stock or fan-fold tickets may be utilized.</p> <p>The Department prefers passive AVI tags. Refer to Attachment 2 for a newly-added Exhibit I which provides specifications for the AVI system.</p>
15	<p>Page 37 – Operating System Platform – Both onsite server and cloud systems are mentioned. Is it up to the vendor as to which solution is to be provided or does the Airport have a preference? Please clarify.</p>	<p>The Department prefers a cloud-based solution, but firms shall propose the best solution that results in the best performance of their product. Locally hosted and hybrid cloud/local solutions will be considered.</p>
16	<p>Page 59 – Intercom system shall have the ability to record audio. Is this legal in California without consent? HUB is not a legal arbitrator so just asking for clarification from the Airport.</p>	<p>The Department has determined that recording intercom audio is no longer required. See Attachment 2.</p>
17	<p>Page 61 – Entry stations. Please confirm that all entry stations are to be equipped with EMV credit card readers.</p>	<p>All entry stations shall be equipped with EMV credit card readers to facilitate credit card in/credit card out functionality.</p>

18	Page 61 – Proximity Card readers. Is there any specification regarding acceptable read range of a standard prox card. Is a 1 inch read range acceptable or would the Airport prefer a longer range of 18-24 inches? Please clarify.	Standard 1-inch read range is acceptable.
19	Page 70 – Scan to Pay – Along with QR code on ticket, additional signage is normally posted throughout the garages or lots. Please confirm that while vendor will provide the QR code in electronic form, the actual creation and installation of any additional QR signs is to be done by others. This function is normally carried out by the parking operator.	The selected proposer will provide the QR code in electronic form and the Department will fabricate signage as necessary.
20	Page 75 – Gates – Does the Airport have any requirement for emergency vehicles entering the garages or lots? Is there a requirement for Knox boxes or more sophisticated fire strobes from the local Fire or PD departments?	SMF emergency vehicles will be issued AVI transponders. There are no additional requirements for emergency vehicles.
21	Page 77 – Loops – Are there any areas where pedestrians or bicycles may shortcut walkways and pass under gate arms that would require an extra level of protection that loops would not cover? Optional laser scanners are available in these situations. Is there any need?	No.

22	Page 77 – Workstations – Is there a requirement for new workstations? If so how many and where would they be located?	All end-user access to the application should be via a standard web-browser from any authorized workstation or mobile device. Should the proposed solution require dedicated workstations to access the application or any part of the application, this must be clearly identified and explained in the proposal. In such a case, workstations will be provided by the Department to the specifications defined in the proposal.
23	Page 78 – ACMS credential types. Smart phones are not mentioned in the section for credential types. Is this correct or just overlooked? Smart phones can be used as credentials and for digital payments by regular airport parkers and pre-booking. If smart phone usage is to be included please provide some specifications.	See Page 61 of Exhibit A in the sample agreement.
24	Page 78 – If smart phone usage is desired one other potential feature is to “white label” the customer interface so everything would be seen as Sacramento Airport. Is this of interest?	A white label customer interface is required.
25	Page 84 – LPR – RFP states that all entry and exit lanes are to be pre-capture. Is it correct assumption that the Airport is responsible for all civil work required to extend or create islands that allow pre-capture?	This work will be performed by a separate contractor.

26	Page 84 – LPR – Can the existing LPR cameras be re-used or is it mandatory to provide new cameras at all entry & exit lanes.	All devices must be new.
27	LPR – In a previous section of the RFP it was stated that Airport is responsible for running power and communications to all devices. Is this correct for the LPR cameras as well?	No. Power and communications will be brought by the Department to each lane and pay station location. The selected proposer is responsible for the interconnect of all devices within the lane including connection to the LPR cameras.
28	LPR – Any specification as to the size of the monitor or monitors required for LPR or the workstation that would be used to monitor the systems?	No. The Department will provide all workstations and monitors that meet contractor-provided specifications.
29	Page 88 – LPR – Contractor to recommend protection to County. If bollards or other protection recommended is contractor or County responsible to provide and install? RFP is unclear.	The Department will provide and install equipment protection per contractor’s recommendations.
30	Page 95 – Online Validation – How many total tenants/groups (NOT Individuals) will be issuing validations? Per the RFP 3 groups are mentioned. Are there more?	There are three groups planned for validation access.
31	Page 96 – UPS units – Contractor to supply the UPS units but will Airport be responsible for providing power conduits and cabling to the UPS units and from the UPS units to the lane & Pay on Foot devices? Please clarify responsibilities here.	Most locations have existing UPS units, and these conduits should be reused by the system installed pursuant to this RFP. Where conduits do not already exist, the selected proposer shall provide short flex-conduit runs above grade directly to adjacent equipment.

32	Page 96 – UPS units – Contractor to supply the UPS units but will Airport be responsible for providing power conduits and cabling to the UPS units and from the UPS units to the lane & Pay on Foot devices? Please clarify responsibilities here.	Most locations have existing UPS units, and these conduits should be reused by the system installed pursuant to this RFP. Where conduits do not already exist, the selected proposer shall provide short flex-conduit runs above grade directly to adjacent equipment.
33	Page 99 – Mounting equipment – Contractor normally uses zinc plated expansion bolts. Does Airport have any requirements for the mounting bolts for all devices? If so what are they?	Stainless steel is preferred. If other materials are proposed, they must be non-corrosive.
34	Page 104 - Acceptance Testing – The RFP states that the Airport will provide a TBD location for a Test Bed location. Can the Test Bed location also be used to meet the requirements of the FAT test and any other lanes tests prior to actual installation?	The Department prefers to perform the FAT at the selected proposer’s factory. The intent of the FAT is to prove, in a controlled environment, that the system performs as specified prior to approving any equipment to be shipped to the site. Additionally, conducting the FAT at the selected proposer’s factory ensures appropriate personnel, from executives to technical staff, are available to respond to questions and address issues. Further, the test bed location is yet to be defined and may be in a building that is not yet constructed.



35	Page 114 – Training – Please provide the number of people in each category listed in the RFP.	Estimated counts - Parking Management Office Staff:20 System Administrators:15 Accounting/Auditing Staff:10
36	Page – 115 – Protection - RFP states Equipment to be protected as recommended by contractor. Is this correct that Airport is responsible for providing and installing all equipment protection as recommended by contractor?	The Department will provide and install per contractor’s recommendations.
37	Page 78 – ACMS specifications call out AVI transponders as a credential. There is no mention or specifications for the AVI system in the RFP. Please elaborate the required specifications for the AVI system and how it is to be used.	Refer to Attachment 2 for a newly-added Exhibit I which provides specifications for the AVI system.
38	AVI Readers – RFP states there are existing TransCore AVI readers. Can these be reused? If not does the Airport require that TransCore readers be used or is another manufacturer acceptable?	No, the existing TransCore AVI readers cannot be reused. The readers may be from any manufacturer so long as it is compatible with and meets the required specifications of the system.
39	AVI Tags – Does the Airport require passive or active tags be used for the AVI system?	The Department requires passive tags.

40	What is the current Airport employee invoicing system, if any?	The current operator uses a proprietary system that is not required to integrate with but has the capability to with some PARCS.
41	What is the current Airport BI solution? Can you provide more information on (ROADS) repository?	ROADS is a SQL server with multiple databases. Data from the PARCS and related systems (LPR, LPI, Credit Card, etc) is required to be transmitted on a nightly basis (at a minimum) via secured method. This data is incorporated with various other SMF systems data and used for reporting and BI analysis by the Department.
42	What is the current Airport CRM solution?	PROPworks is used for billing and airport property management; several other systems are in use to manage the airport activity and financials.
43	Is the Airport currently using any parking reservation platforms?	No, but the Department is considering the implementation of one. Please specify in your proposal which reservations systems your product supports.
44	Does Airport have a space count system? If so, from what vendor?	The current system is a loop and sensors-based level count system in the garage. The Department is considering procurement for a parking guidance system for the garage to replace the existing level count solution. PARCS is only required to maintain facility occupancy counts.

45	Is the pinhole camera meant to be solely for intercom calls or is it a live stream camera with storage media?	The pinhole camera shall be used as a live stream camera with storage media. Maximum retention should be 30 days but vendors may propose a different minimum retention schedule.
46	Do all employee and monthly type credentials initiate from Airport Security or Does the parking operator also have the ability to provide credentials?	The parking operator also retains this ability.
47	What is the current Airport Badging System? Is there any current integration with PARCS?	Velocity by Hirsch is the system in use. There is no system integration, but the badging system handles credentials for employee parking. The employee badge system sends a signal via dry contact to the barrier gate to vend.
48	Will the "Command Center" be staffed by Airport personnel or by the Parking operator?	The Command Center will be staffed by the parking operator.

49	Can you provide specifics of "Third Party Application Interface (API)"? Is this generic ask for providing access to our API's?	<p>Generally, the PARCS interface with a future reservation system should support entry and exit of reservations credentials (QR code and License Plate Number [LPN]), ability to check to validity of the reservation and permit or deny access accordingly, and charge an additional fee at exit for overstays.</p> <p>Generally, the interface with a future guidance system should facilitate displaying the location of a customer's parked vehicle on the screens of the pay-on-foot stations and also linking a LPN between the PARCS and parking guidance system for the ability to charge additional fees for parking in designated premium spaces.</p>
50	There are VMS and space count signs located above roadways - The only signs identified in the proposal were in-lane signage. Are these Roadway signs an integration requirement? Who is the manufacturer?	Please refer to Exhibit A in Attachment 2 for signage responsibilities of the selected proposer. The manufacturer of the current signs is Daktronics.
51	Are as-built network drawings available for the existing PARCS system?	Refer to Attachments 4 and 5 for additional drawings and diagrams.

52	The drawings for the Hourly, E. Economy (N), E. Economy (S), W. Economy, S. Economy, Daily, Lot 51 and Overflow are listed as conceptual. Are engineered drawings for these lots available? Has the conduit shown on these drawings been installed? If not will SMF be installing the conduit shown on these drawings? Who is responsible for pulling power and communication within the conduits shown on these drawings?	Refer to Attachments 4 and 5 for additional drawings and diagrams. The new South Economy is currently in construction and engineering drawings can be provided at a later date once complete. If new conduit/electrical/communications need to be installed, the selected proposer shall provide necessary power/communications requirements for the Department to install.
54	Are plans/drawings available detailing what conduit/cabling the PARCS contractor is responsible for as listed in the Scope of Work page 5 of 122 Section 2.C.7?	The selected proposer is responsible for the interconnect of all devices within the lane. Refer to Attachments 4 and 5 for additional drawings and diagrams. Proposers should provide necessary information for cabling requirements for PARCS equipment.
55	Are plans/drawings available defining the distances from where the County will provide power conduit/cabling and communication conduit/cabling as defined in the Scope of Work page 7 of 122 Section 2.D.1 & 2?	Additional drawings will not be produced for distance measurement. Refer to existing drawings.
56	Is there a required manufacturer/model of any additional network communication components provided by the PARCS contractor as defined on page 5 of 122 Section 2.C.6 & 7?	There is not a required manufacturer for the PARCS network equipment. It should be noted that the equipment in the elements should be rugged and temperature rated due to harsh conditions. The only requirement is selected proposer's switches are able to trunk 802.1Q via fiber to the Department's switches.

57	Is there a preferred network monitoring software required per page 4 of 122 Section 2.C.5?	No.
58	Who is responsible for providing and installing of the equipment protection bollards? If the PARCS contractor is responsible will there be an allowance for any cost difference between what is recommended and finally approved by the County?	The Department will provide and install per contractor's recommendations.
59	Will the County be providing and maintaining the redundant internet connections to the PARCS system?	Yes.
60	Will the County be providing and maintaining the firewalls for the PARCS system? If not the county will parking operator provide firewalls?	County will maintain its own firewall up to demarcation points, the selected proposer is responsible for end-point firewall provision and maintenance.
61	What is the manufacturer of the current intercom system?	Commend.
62	In relation to attendance at the Pre-proposal conference scheduled for January 4, 2024, we note attendance is limited to two (2) representatives from any one (1) proposer. Can you please advise if this limit applies to both in-person attendance and also virtual attendance, or if it only applies to in-person attendance?	The limit of two attendees is intended to apply to in-person attendees due to conference room size limitations.

63	<p>In relation to Questions relating to the RFP, we note the closing date for Questions is currently December 15, 2023. Considering the Pre-proposal meeting is scheduled for January 4, 2024, which will include a site walk, will there be an opportunity for questions to be formally asked following the site walk?</p>	<p>There will not be a planned question and answer period following the pre-proposal conference. The Department may issue additional addenda prior to the deadline for proposal submissions if it is deemed necessary.</p>
64	<p>We note a pre-booking reservation system is to be procured in a separate RFP. We would like to request that we be invited to submit a Proposal for this system and accordingly receive advice on the release date of this RFP?</p>	<p>Any solicitations by the Department will be posted on its website at the following address:  <a href="https://sacramento.aero/scas/opportunities/bids_and_requests">https://sacramento.aero/scas/opportunities/bids_and_requests</a></p>
65	<p>We note the intended constructions of a new 5,500 space parking garage in the future and that this garage will include a Parking Guidance System. We would like to request that we be invited to submit a Proposal for this systems and accordingly receive advice on the release date of the RFP for the procurement of that system?</p>	<p>An RFP for the Parking Guidance System was issued on 12/28/2023 and may be found at this link:  <a href="https://sacramento.aero/scas/opportunities/bids_and_requests">https://sacramento.aero/scas/opportunities/bids_and_requests</a></p>
66	<p>Commencing at Page 222 of the RFP document it is noted a Price Proposal Form is included as Attachment 8. It is noted the Price Proposal Form will be provided in electronic form to those companies that attend the Mandatory Pre-Proposal Conference. We would like to formally request a copy of this Form be provided as soon as possible?</p>	<p>On 12/28/2023, the updated price proposal form was e-mailed directly to firms who had registered for the pre-proposal conference. A further updated price proposal form was sent to proposers who attended the pre-proposal conference along with this addendum.</p>

67	<p>We note the statement on Page 5 of the RFP document that Attachment 9 represents “all PARCS equipment anticipated to be needed for this project”. However, we note some discrepancies between Attachment 9 and the Price Proposal Form and would respectfully ask the Price Proposal Form be checked as to accuracy.</p>	<p>On 12/28/2023, the updated price proposal form was e-mailed directly to firms who had registered for the pre-proposal conference. A further updated price proposal form was sent to proposers who attended the pre-proposal conference along with this addendum.</p>
68	<p>We note at Page 1 of the RFP document “The County reserves the right to designate parking lots for different uses at any time”. Is it therefore a requirement that all Employee lanes include Ticket functionality in entry and exit lanes to accommodate a possible change of use at any time?</p>	<p>No, that statement is to clarify that final assignments and space allocations may vary.</p>
69	<p>We note the following discrepancies between Table 1 of the RFP document at Page No. 2, and the Price Proposal Form:</p>	<p>Refer to Attachment 3 which includes a revised table. For Lot 53, while there are 2 entries and 2 exits, the Department intends to only install equipment at the north entry and exit lanes and not the south; for this reason only one entry and one exit lane are included in the updated price proposal form.</p>



Description	As per Table 1	As per Price Proposal Form
Hourly B Bus Entry Lanes	0	1
Hourly B Bus Exit lanes	0	1
East Economy Lot Bus Entry Lane	1	2
East Economy Lot Bus Pay Stations	3	1
Lot 1 (or 11?) Employee Lot Entry Lanes	2	1
Lot 1 (or 11?) Employee Lot Exit Lanes	2	1
Lot 1 (or 11?) Employee Lot Bus Entry Lane	1	0
Lot 1 (or 11?) Employee Lot Bus Lane	1	0
Lot 32 Employee Parking Lot Entry Lane	Not shown	1
Lot 32 Employee Parking Lot Exit Lane	Not shown	1
Lot 51 Reservations only Lot Bus Exit	0	1
Lot 53 – Physical Plant Maintenance Lot Exit Lanes	1	2

We would appreciate your clarification as to the correct quantities?

70	To ensure the requirements of Paragraph E. Page 4 of the RFP document can be met in regard to “no single point of failure ...” could detailed existing communications drawings be provided which include all cable runs, whether fiber or ethernet, the detail of all switch equipment and patch panels currently installed?	Refer to Attachments 4 and 5 for additional drawings and diagrams.
71	In relation to the provision of a “Test Bed”, we note that only one (1) AVI Reader is proposed for this testing environment. We would recommend this be changed to two (2) Readers to provide for testing of entry and exit functionality. Could this please be amended in the Price Form to be issued.	On 12/28/2023, the updated price proposal form was e-mailed directly to firms who had registered for the pre-proposal conference. A further updated price proposal form was sent to proposers who

		attended the pre-proposal conference along with this addendum.
72	<p>Page 4 of the RFP document refers to Exhibit F in respect to the removal of Cashier Booths.</p> <p>Can the Authority please confirm the detailed requirement for "while preserving components for future use". Will this involve the provision of appropriate NEMA enclosures or other hardware on the lanes to protect current within-Booth electrical connections and equipment which is intended to be reused?</p>	The selected proposer will not be responsible for removal or management of cashier booths. See Attachment 2.
73	<p>Page 4 of the RFP document refers to the "provision of fiber and conduit". Can existing fiber and conduit, if deemed suitable be re-used, or is the Authority expecting the replacement of all PARCS network components?</p>	Yes, the existing network can be re-used, if deemed suitable by the selected proposer and approved by the Department.
74	<p>In relation to the "monitoring" of the PARCS network at Page 4 of the RFP document, are there any mandated software tools which the PARCS provider must use or implement?</p>	No.

75	At Page 4 of the RFP document, Paragraph E. how many SMF staff are likely to require acquire and how many simultaneous connections are required?	<p>Estimated counts for training -</p> <p>Parking Management Office Staff:20</p> <p>System Administrators:15</p> <p>Accounting/Auditing Staff:10</p> <p>Exact number of routine simultaneous connections needed is not known.</p>
76	At Page 5. of the RFP document, Paragraph F. can you please specify the frequency of backups and archiving and the expected storage retention policy.	Backups must be performed after virtual midnight at a minimum. Archiving and data retention is specified in page 5 of Exhibit A in the sample agreement.
77	At Page 5 of the RFP document, Paragraph G. can you please specify the parameters associated with Disaster Recover such as recovery time objectives and recovery point objectives.	DRP requirements are specified on Page 5 of Exhibit A in the sample agreement.
78	At Page 5 of the RFP document, Paragraph G. can you please specify the parameters associated with Disaster Recover such as frequency of backups and archiving and the expected storage retention policy.	DRP requirements and archival data retention are specified on Pages 5 and 6 of Exhibit A in the sample agreement.
79	Can you please confirm if the Project is am AIP funded project to which the provisions of 49 USC Section 50101 will apply?	The project will not use AIP funds.

80	Can you please confirm the particular Mobile Wallets that are required to be accepted for payment?	Apple Pay and Google Pay are required at a minimum. Please include in the proposal a list of mobile wallet payment options that your solution supports.
81	Can you please advise if SMF currently use a Business Intelligence Toolset for other aspects of the business and if so, which toolset that is?	Airports uses Power BI; data is copied to the ROADS SQL Server
82	Can you please advise if SMF currently uses a Valet Parking System and if so which one, and if SMF wishes to retain the same system or to change the provider?	The Department does not have a current valet solution, but is seeking one as part of this RFP.

**ATTACHMENT 2**  
**UPDATED SAMPLE AGREEMENT**  
**COVER PAGE**

**AGREEMENT FOR INSTALLATION, MAINTENANCE, AND OPERATION  
OF A PARKING ACCESS AND REVENUE CONTROL SYSTEM FOR  
SACRAMENTO INTERNATIONAL AIRPORT**

THIS AGREEMENT (Agreement) is made and entered into as of this \_\_\_\_ day of \_\_\_\_\_ 2024, by and between the COUNTY OF SACRAMENTO (COUNTY), a political subdivision of the State of California, and [CONTRACTOR NAME] (CONTRACTOR), [Contractor Info].

**RECITALS**

**WHEREAS**, COUNTY owns and operates Sacramento International Airport (SMF) through its Department of Airports (Department); and

**WHEREAS**, COUNTY desires to obtain the services of a contractor to design, install, maintain, and operate a Parking Access and Revenue Control System (PARCS) for the parking facilities at SMF in addition to decommissioning the existing PARCS; and

**WHEREAS**, pursuant to Government Code Section 31000, COUNTY is authorized to contract for specific special services with persons specially trained, experienced, and competent to perform such services; and

**WHEREAS**, the services described herein are not services provided by COUNTY employees and are therefore not subject to the requirements of COUNTY Charter 71-J; and

**WHEREAS**, CONTRACTOR was selected as providing the best proposal for the services in this Agreement through a publicized and competitive bidding process; and

**WHEREAS**, by Resolution No. 2024-\_\_\_\_\_, COUNTY Board of Supervisors authorized the Director of Airports (Director) to negotiate and execute this Agreement; and

**WHEREAS**, COUNTY and CONTRACTOR desire to enter into this Agreement on the terms and conditions set forth herein.

**NOW, THEREFORE**, in consideration of the mutual promises hereinafter set forth, COUNTY and CONTRACTOR agree as follows:

**I. SCOPE OF WORK**

CONTRACTOR shall provide services in the amount, type and manner described in Exhibit A, which is attached hereto and incorporated herein.

**II. TERM**

This Agreement shall be effective and commence as of the date first written above and shall end on June 30, 2034.

**III. NOTICE**

Any notice, demand, request, consent, or approval that either party hereto may or is required to give the other pursuant to this Agreement shall be in writing and shall be either personally delivered or sent by mail, addressed as follows:

TO COUNTY

TO CONTRACTOR

Director of Airports  
Sacramento County  
Department of Airports  
6900 Airport Boulevard  
Sacramento, CA 95837

[Mailing Info]

Either party may change the address to which subsequent notice and/or other communications can be sent by giving written notice designating a change of address to the other party, which shall be effective upon receipt.

**IV. COMPLIANCE WITH LAWS**

A. CONTRACTOR shall observe and comply with all applicable federal, State, and County laws, regulations and ordinances.

B. CONTRACTOR shall, at all times during the term of this Agreement, comply with the provisions of the Federal Aviation Administration (FAA) Airport Sponsor Assurances (Assurances) and any subsequent revisions, updates, or amendments thereto. The provisions of the Assurances may change during the term of this Agreement, and those changes will be incorporated into this Agreement without the necessity of a formal amendment. COUNTY is not responsible for notifying CONTRACTOR of any

changes to the Assurances. CONTRACTOR is required to contact the FAA for any updates or revisions. The Assurances document is available on the FAA's website, and is incorporated into this Agreement by this reference.

[https://www.faa.gov/airports/aip/grant\\_assurances](https://www.faa.gov/airports/aip/grant_assurances)

- C. Economic Sanctions: Pursuant to California State Executive Order N-6-22 (Order) imposing economic sanctions against Russia and declaring support of Ukraine, COUNTY shall terminate any contract with any individual or entity that is in violation of the Order or that is subject to economic sanctions therein, and shall not enter a contract with any such individual or entity while the Order is in effect.

CONTRACTOR shall provide a written report to COUNTY within sixty (60) days of the effective date of the Agreement or sixty (60) days upon request regarding compliance with economic sanctions and steps taken in response to Russia's actions in Ukraine, including but not limited to, desisting from making new investments in, or engaging in financial transactions with Russia or Russian entities, and directly providing support to Ukraine, while the Order is in effect. COUNTY shall keep the report on file as evidence of compliance with the Order.

## **V. GOVERNING LAWS AND JURISDICTION**

This Agreement shall be deemed to have been executed and to be performed within the State of California and shall be construed and governed by the internal laws of the State of California. Any legal proceedings arising out of or relating to this Agreement shall be brought in Sacramento County, California.

## **VI. LICENSES, PERMITS AND CONTRACTUAL GOOD STANDING**

- A. CONTRACTOR shall possess and maintain all necessary licenses, permits, certificates and credentials required by the laws of the United States, the State of California, County of Sacramento and all other appropriate governmental agencies, including any certification and credentials required by COUNTY. Failure to maintain the licenses, permits, certificates, and credentials shall be deemed a breach of this Agreement and constitutes grounds for the termination of this Agreement by COUNTY.



B. CONTRACTOR further certifies to COUNTY that it and its principals are not debarred, suspended, or otherwise excluded from or ineligible for, participation in federal, State or county government contracts. CONTRACTOR certifies that it shall not contract with a subcontractor that is so debarred or suspended.

**VII. PERFORMANCE STANDARDS**

CONTRACTOR shall perform its services under this Agreement in accordance with the industry and/or professional standards applicable to CONTRACTOR'S services.

**VIII. OWNERSHIP OF WORK PRODUCT**

All technical data, evaluations, plans, specifications, reports, documents, or other work products developed by CONTRACTOR hereunder shall be the exclusive property of COUNTY and shall be delivered to COUNTY upon completion of the services authorized hereunder. CONTRACTOR may retain copies thereof for its files and internal use. Publication of the information directly derived from work performed or data obtained in connection with services rendered under this Agreement must first be approved in writing by COUNTY. COUNTY recognizes that all technical data, evaluations, plans, specifications, reports, and other work products are instruments of CONTRACTOR'S services and are not designed for use other than what is intended by this Agreement.

**IX. STATUS OF CONTRACTOR**

[USE (A) FOR SERVICE PROVIDERS WITH FIVE OR MORE EMPLOYEES OR WHEN A TAX WAIVER HAS BEEN OBTAINED FROM COUNTY COUNSEL]

**(A)**

A. It is understood and agreed that CONTRACTOR (including CONTRACTOR'S employees) is an independent contractor and that no relationship of employer-employee exists between the parties hereto. CONTRACTOR'S assigned personnel shall not be entitled to any benefits payable to employees of COUNTY. COUNTY is not required to make any deductions or withholdings from the compensation payable to CONTRACTOR under the provisions of this agreement; and as an independent contractor, CONTRACTOR hereby indemnifies and holds COUNTY harmless from any and all claims that may be made against COUNTY based

upon any contention by any third party that an employer-employee relationship exists by reason of this agreement.

- B. It is further understood and agreed by the parties hereto that CONTRACTOR in the performance of its obligation hereunder is subject to the control or direction of COUNTY as to the designation of tasks to be performed, the results to be accomplished by the services hereunder agreed to be rendered and performed, and not the means, methods, or sequence used by CONTRACTOR for accomplishing the results.
- C. If, in the performance of this agreement, any third persons are employed by CONTRACTOR, such person shall be entirely and exclusively under the direction, supervision, and control of CONTRACTOR. All terms of employment, including hours, wages, working conditions, discipline, hiring, and discharging, or any other terms of employment or requirements of law, shall be determined by CONTRACTOR, and the COUNTY shall have no right or authority over such persons or the terms of such employment.
- D. It is further understood and agreed that as an independent contractor and not an employee of COUNTY, neither the CONTRACTOR nor CONTRACTOR'S assigned personnel shall have any entitlement as a COUNTY employee, right to act on behalf of COUNTY in any capacity whatsoever as agent, nor to bind COUNTY to any obligation whatsoever. CONTRACTOR shall not be covered by worker's compensation; nor shall CONTRACTOR be entitled to compensated sick leave, vacation leave, retirement entitlement, participation in group health, dental, life and other insurance programs, or entitled to other fringe benefits payable by the County to employees of the COUNTY.
- E. It is further understood and agreed that CONTRACTOR must issue W-2 and 941 Forms for income and employment tax purposes, for all of CONTRACTOR'S assigned personnel under the terms and conditions of this agreement.

[USE (B) FOR ALL OTHER SERVICE PROVIDERS]

**(B)**

- A. It is understood and agreed that CONTRACTOR (including CONTRACTOR'S employees) is an independent contractor and that no relationship of employer-employee exists between the parties

hereto. CONTRACTOR'S assigned personnel shall not be entitled to any benefits payable to employees of COUNTY as an independent contractor, CONTRACTOR hereby indemnifies and holds COUNTY harmless from any and all claims that may be made against COUNTY based upon any contention by any third party that an employer-employee relationship exists by reason of this agreement.

- B. It is further understood and agreed by the parties hereto that CONTRACTOR in the performance of its obligation hereunder is subject to the control or direction of COUNTY as to the designation of tasks to be performed, the results to be accomplished by the services hereunder agreed to be rendered and performed, and not the means, methods, or sequence used by CONTRACTOR for accomplishing the results.
- C. If, in the performance of this agreement, any third persons are employed by CONTRACTOR, such person shall be entirely and exclusively under the direction, supervision, and control of CONTRACTOR. All terms of employment, including hours, wages, working conditions, discipline, hiring, and discharging, or any other terms of employment or requirements of law, shall be determined by CONTRACTOR, and the COUNTY shall have no right or authority over such persons or the terms of such employment.
- D. It is further understood and agreed that as an independent contractor and not an employee of COUNTY, neither the CONTRACTOR nor CONTRACTOR'S assigned personnel shall have a) any entitlement as a COUNTY employee; or b) except as otherwise provided by this Agreement, the right to act on behalf of COUNTY in any capacity whatsoever as agent, nor to bind COUNTY to any obligation whatsoever. CONTRACTOR shall not be covered by worker's compensation; nor shall CONTRACTOR be entitled to compensated sick leave, vacation leave, retirement entitlement, participation in group health, dental, life and other insurance programs, or entitled to other fringe benefits payable by the COUNTY to employees of the COUNTY.
- E. Notwithstanding CONTRACTOR'S status as an independent contractor, COUNTY shall withhold from payments made to CONTRACTOR such sums as are required to be withheld from employees by the Federal Internal Revenue Code; the Federal Insurance Compensation Act; the State Personal Income Tax

Law and the State Unemployment Insurance Code; provided, however, that said withholding is for the purpose of avoiding COUNTY'S liability under said laws and does not abrogate CONTRACTOR'S status as an independent contractor as described in this contract. Further, CONTRACTOR is not included in any group covered by COUNTY'S present agreement with the federal Social Security Administration.

[USE (C) IN ADDITION TO (A) FOR OUT-OF-STATE SERVICE PROVIDERS.]

**(C)**

Notwithstanding subparagraphs (A) and (E), it is further understood and agreed that COUNTY shall withhold seven percent (7%) of all income paid to CONTRACTOR under this agreement for payment and reporting to the California Franchise Tax Board because CONTRACTOR does not qualify as (1) a corporation with its principal place of business in California, (2) a partnership with a permanent place of business in California, (3) a corporation qualified to do business in California by the Secretary of State, or (4) an individual with a permanent residence in the State of California.

**X. CONTRACTOR IDENTIFICATION**

CONTRACTOR shall provide the COUNTY with the following information for the purpose of compliance with California Unemployment Insurance Code section 1088.8 and Sacramento County Code Chapter 2.160: CONTRACTOR'S name, address, telephone number, social security number, and whether dependent health insurance coverage is available to CONTRACTOR.

**XI. COMPLIANCE WITH CHILD, FAMILY AND SPOUSAL SUPPORT REPORTING OBLIGATIONS**

A. CONTRACTOR'S failure to comply with state and federal child, family and spousal support reporting requirements regarding a contractor's employees or failure to implement lawfully served wage and earnings assignment orders or notices of assignment relating to child, family and spousal support obligations shall constitute a default under this Agreement.

B. CONTRACTOR'S failure to cure such default within ninety (90) days of notice by COUNTY shall be grounds for termination of this Agreement.

**XII. BENEFITS WAIVER**

If CONTRACTOR is unincorporated, CONTRACTOR acknowledges and agrees that CONTRACTOR is not entitled to receive the following benefits and/or compensation from COUNTY: medical, dental, vision and retirement benefits, life and disability insurance, sick leave, bereavement leave, jury duty leave, parental leave, or any other similar benefits or compensation otherwise provided to permanent civil service employees pursuant to the County Charter, the County Code, the Civil Service Rule, the Sacramento County Employees' Retirement System and/or any and all memoranda of understanding between COUNTY and its employee organizations. Should CONTRACTOR or any employee or agent of CONTRACTOR seek to obtain such benefits from COUNTY, CONTRACTOR agrees to indemnify and hold harmless COUNTY from any and all claims that may be made against COUNTY for such benefits.

**XIII. RETIREMENT BENEFITS/STATUS**

CONTRACTOR acknowledges and agrees that COUNTY has not made any representations regarding entitlement, eligibility for and/or right to receive ongoing Sacramento County Employee Retirement System (SCERS) retirement benefits during the term of this Agreement. By entering into this Agreement, CONTRACTOR assumes sole and exclusive responsibility for any consequences, impacts or action relating to such retirement benefits that is or will be occasioned as a result of the services provided by CONTRACTOR under this Agreement. CONTRACTOR waives any rights to proceed against COUNTY should SCERS modify or terminate retirement benefits based on CONTRACTOR'S provision of services under this Agreement.

**XIV. CONFLICT OF INTEREST**

CONTRACTOR and CONTRACTOR'S officers and employees shall not have a financial interest, or acquire any financial interest, direct or indirect, in any business, property or source of income which could be financially affected by or otherwise conflict in any manner or degree with the performance of services required under this Agreement.

**XV. LOBBYING AND UNION ORGANIZATION ACTIVITIES**

- A. CONTRACTOR shall comply with all certification and disclosure requirements prescribed by Section 319, Public Law 101-121 (31 U.S.C. § 1352) and any implementing regulations.
- B. If services under this Agreement are funded with state funds granted to COUNTY, CONTRACTOR shall not utilize any such funds to assist, promote or deter union organization by employees performing work under this Agreement and shall comply with the provisions of Government Code Sections 16645 through 16649.

**XVI. GOOD NEIGHBOR POLICY**

- A. CONTRACTOR shall comply with COUNTY'S Good Neighbor Policy. CONTRACTOR shall establish good neighbor practices for its facilities that include, but are not limited to, the following:
  - 1. Provision of parking adequate for the needs of its employees and service population;
  - 2. Provision of adequate waiting and visiting areas;
  - 3. Provision of adequate restroom facilities located inside the facility;
  - 4. Implementation of litter control services;
  - 5. Removal of graffiti within seventy-two (72) hours;
  - 6. Provision for control of loitering and management of crowds;
  - 7. Maintenance of facility grounds, including landscaping, in a manner that is consistent with the neighborhood in which the facility is located;
  - 8. Participation in area crime prevention and nuisance abatement efforts; and
  - 9. Undertake such other good neighbor practices as determined appropriate by COUNTY, based on COUNTY'S individualized

assessment of CONTRACTOR'S facility, services and actual impacts on the neighborhood in which such facility is located.

- B. CONTRACTOR shall identify, either by sign or other method as approved by the Director, a named representative who shall be responsible for responding to any complaints relating to CONTRACTOR'S compliance with the required good neighbor practices specified in this Section. CONTRACTOR shall post the name and telephone number of such contact person on the outside of the facility, unless otherwise advised by Director.
- C. CONTRACTOR shall comply with all applicable public nuisance ordinances.
- D. CONTRACTOR shall establish an ongoing relationship with the surrounding businesses, law enforcement and neighborhood groups and shall be an active member of the neighborhood in which CONTRACTOR'S site is located.
- E. If COUNTY finds that CONTRACTOR has failed to comply with the Good Neighbor Policy, COUNTY shall notify CONTRACTOR in writing that corrective action must be taken by CONTRACTOR within a specified time frame. If CONTRACTOR fails to take such corrective action, COUNTY shall take such actions as are necessary to implement the necessary corrective action. COUNTY shall deduct any actual costs incurred by COUNTY when implementing such corrective action from any amounts payable to CONTRACTOR under this Agreement.
- F. CONTRACTOR'S continued non-compliance with the Good Neighbor Policy shall be grounds for termination of this Agreement and may also result in ineligibility for additional or future contracts with COUNTY.

**XVII. NONDISCRIMINATION IN EMPLOYMENT, SERVICES, BENEFITS AND FACILITIES**

- A. CONTRACTOR agrees and assures COUNTY that CONTRACTOR and any subcontractors shall comply with all applicable federal, state, and local Anti-discrimination laws, regulations, and ordinances and to not unlawfully discriminate, harass, or allow harassment against any employee, applicant for employment, employee or agent of COUNTY, or recipient of services contemplated to be provided or provided under this Agreement,

because of race, ancestry, marital status, color, religious creed, political belief, national origin, ethnic group identification, sex, sexual orientation, age (over 40), medical condition (including HIV and AIDS), or physical or mental disability. CONTRACTOR shall ensure that the evaluation and treatment of its employees and applicants for employment, the treatment of COUNTY employees and agents, and recipients of services are free from such discrimination and harassment.

- B. CONTRACTOR represents that it is in compliance with and agrees that it will continue to comply with the Americans with Disabilities Act of 1990 (42 U.S.C. § 12101 et seq.), the Fair Employment and Housing Act (Government Code §§ 12900 et seq.), and regulations and guidelines issued pursuant thereto.
- C. CONTRACTOR agrees to compile data, maintain records and submit reports to permit effective enforcement of all applicable antidiscrimination laws and this provision.
- D. CONTRACTOR shall include this nondiscrimination provision in all subcontracts related to this Agreement.

### **XVIII. INDEMNIFICATION**

To the fullest extent permitted by law, CONTRACTOR shall indemnify, defend, and hold harmless COUNTY, its governing Board, officers, directors, officials, employees, and authorized volunteers and agents, (collectively "Indemnified Parties") from and against any and all claims, demands, actions, losses, liabilities, damages, and all expenses and costs incidental thereto (collectively "Claims") including cost of defense, settlement, arbitration, and reasonable attorneys' fees, resulting from injuries to or death of persons, including but not limited to employees of either Party hereto, and damage to or destruction of property or loss of use thereof, including but not limited to the property of either Party hereto, arising out of, pertaining to, or resulting from the acts or omissions of the CONTRACTOR, its officers, employees, or agents, or the acts or omissions of anyone else directly or indirectly acting on behalf of the CONTRACTOR, or for which the CONTRACTOR is legally liable under law regardless of whether caused in part by an Indemnified Party. CONTRACTOR shall not be liable for any Claims arising from the sole negligence or willful misconduct of an Indemnified Party.



This indemnity shall not be limited by the types and amounts of insurance or self-insurance maintained by the CONTRACTOR or the CONTRACTOR'S subcontractors.

Nothing in this Indemnity shall be construed to create any duty to, any standard of care with reference to, or any liability or obligation, contractual or otherwise, to any third party.

The provisions of this Indemnity shall survive the expiration or termination of the Agreement.

**XIX. INSURANCE**

Without limiting CONTRACTOR'S indemnification, CONTRACTOR shall maintain in force at all times during the term of this Agreement and any extensions or modifications thereto, insurance as specified in Exhibit B. It is the responsibility of CONTRACTOR to notify its insurance advisor or insurance carrier(s) regarding coverage, limits, forms and other insurance requirements specified in Exhibit B. It is understood and agreed that COUNTY shall not pay any sum to CONTRACTOR under this Agreement unless and until COUNTY is satisfied that all insurance required by this Agreement is in force at the time services hereunder are rendered. Failure to maintain insurance as required in this agreement may be grounds for material breach of contract.

**XX. INFORMATION TECHNOLOGY ASSURANCES**

CONTRACTOR shall take all reasonable precautions to ensure that any hardware, software, and/or embedded chip devices used by CONTRACTOR in the performance of services under this Agreement, other than those owned or provided by COUNTY, shall be free from viruses. Nothing in this provision shall be construed to limit any rights or remedies otherwise available to COUNTY under this Agreement.

**XXI. COMPENSATION AND PAYMENT OF INVOICES LIMITATIONS**

A. Compensation under this Agreement shall be limited to the Maximum Total Payment Amount set forth in Exhibit C, or Exhibit C as modified by COUNTY in accordance with express provisions in this Agreement.

- B. CONTRACTOR shall submit an invoice on the forms and in accordance with the procedures prescribed by COUNTY [insert - on a monthly basis, upon completion of services, etc. as appropriate]. Invoices shall be submitted to COUNTY no later than the fifteenth (15th) day of the month following the invoice period, and COUNTY shall pay CONTRACTOR within thirty (30) days after receipt of an appropriate and correct invoice.
- C. COUNTY operates on a July through June fiscal year. Invoices for services provided in any fiscal year must be submitted no later than July 31, one (1) month after the end of the fiscal year. Invoices submitted after July 31 for the prior fiscal year shall not be honored by COUNTY unless CONTRACTOR has obtained prior written COUNTY approval to the contrary.
- D. CONTRACTOR shall maintain for four (4) years following termination of this agreement full and complete documentation of all services and expenditures associated with performing the services covered under this Agreement. Expense documentation shall include: time sheets or payroll records for each employee; receipts for supplies; applicable subcontract expenditures; applicable overhead and indirect expenditures.
- E. In the event CONTRACTOR fails to comply with any provisions of this Agreement, COUNTY may withhold payment until such non-compliance has been corrected.

**XXII. LEGAL TRAINING INFORMATION**

If under this Agreement CONTRACTOR is to provide training of COUNTY personnel on legal issues, then CONTRACTOR shall submit all training and program material for prior review and written approval by County Counsel. Only those materials approved by County Counsel shall be utilized to provide such training.

**XXIII. SUBCONTRACTS, ASSIGNMENT**

- A. CONTRACTOR shall obtain prior written approval from COUNTY before subcontracting any of the services delivered under this Agreement. CONTRACTOR remains legally responsible for the performance of all contract terms including work performed by third parties under subcontracts. Any subcontracting will be subject to all applicable provisions of this Agreement. CONTRACTOR shall be held responsible by COUNTY for the

performance of any subcontractor whether approved by COUNTY or not.

B. This Agreement is not assignable by CONTRACTOR in whole or in part, without the prior written consent of COUNTY.

**XXIV. AMENDMENT AND WAIVER**

Except as provided herein, no alteration, amendment, variation, or waiver of the terms of this Agreement shall be valid unless made in writing and signed by both parties. Waiver by either party of any default, breach or condition precedent shall not be construed as a waiver of any other default, breach or condition precedent, or any other right hereunder. No interpretation of any provision of this Agreement shall be binding upon COUNTY unless agreed in writing by Director and counsel for COUNTY.

This Agreement may be amended to increase the maximum payment amount; provided, however, that such increase shall not exceed the lesser of ten percent (10%) of the annual payment amount under this Agreement or \$25,000.

**XXV. SUCCESSORS**

This Agreement shall bind the successors of COUNTY and CONTRACTOR in the same manner as if they were expressly named.

**XXVI. TIME**

Time is of the essence of this Agreement.

**XXVII. INTERPRETATION**

This Agreement shall be deemed to have been prepared equally by both of the parties, and the Agreement and its individual provisions shall not be construed or interpreted more favorably for one party on the basis that the other party prepared it.

**XXVIII. DIRECTOR**

As used in this Agreement, "Director" shall mean the Director of the Department of Airports, or their designee. Director shall administer this Agreement on behalf of the COUNTY, and has authority to

make administrative, non-material amendments to this Agreement on behalf of the COUNTY relating to pricing; performance standards, milestones, schedules, and timelines; clarifications to scope of work; management practices; and similar matters so long as such amendments do not affect the total maximum payment amount set forth in Exhibit C. Unless otherwise provided herein or required by applicable law, Director shall be vested with all the rights, powers, and duties of COUNTY herein. With respect to matters herein subject to the approval, satisfaction, or discretion of COUNTY or Director, the decision of the Director in such matters shall be final.

## **XXIX. DISPUTES**

In the event of any dispute arising out of or relating to this Agreement, the parties shall attempt, in good faith, to promptly resolve the dispute mutually between themselves. Pending resolution of any such dispute, CONTRACTOR shall continue without delay to carry out all its responsibilities under this Agreement unless the Agreement is otherwise terminated in accordance with the Termination provisions herein. COUNTY shall not be required to make payments for any services that are the subject of this dispute resolution process until such dispute has been mutually resolved by the parties. If the dispute cannot be resolved within fifteen (15) calendar days of initiating such negotiations or such other time period as may be mutually agreed to by the parties in writing, either party may pursue its available legal and equitable remedies, pursuant to the laws of the State of California. Nothing in this Agreement or provision shall constitute a waiver of any of the government claim filing requirements set forth in Title 1, Division 3.6, of the California Government Code or as otherwise set forth in local, State and federal law.

## **XXX. TERMINATION**

A. COUNTY may terminate this Agreement without cause upon thirty (30) days written notice to the other party. Notice shall be deemed served on the date of mailing. If notice of termination for cause is given by COUNTY to CONTRACTOR and it is later determined that CONTRACTOR was not in default or the default was excusable, then the notice of termination shall be deemed to have been given without cause pursuant to this paragraph (A).

- B. COUNTY may terminate this Agreement for cause immediately upon giving written notice to CONTRACTOR should CONTRACTOR materially fail to perform any of the covenants contained in this Agreement in the time and/or manner specified. In the event of such termination, COUNTY may proceed with the work in any manner deemed proper by COUNTY. If notice of termination for cause is given by COUNTY to CONTRACTOR and it is later determined that CONTRACTOR was not in default or the default was excusable, then the notice of termination shall be deemed to have been given without cause pursuant to paragraph (A) above.
- C. COUNTY may terminate or amend this Agreement immediately upon giving written notice to CONTRACTOR, 1) if advised that funds are not available from external sources for this Agreement or any portion thereof, including if distribution of such funds to the COUNTY is suspended or delayed; 2) if funds for the services and/or programs provided pursuant to this Agreement are not appropriated by the State; 3) if funds in COUNTY'S yearly proposed and/or final budget are not appropriated by COUNTY for this Agreement or any portion thereof; or 4) if funds that were previously appropriated for this Agreement are reduced, eliminated, and/or re-allocated by COUNTY as a result of mid-year budget reductions.
- D. If this Agreement is terminated under paragraph A or C above, CONTRACTOR shall only be paid for any services completed and provided prior to notice of termination. In the event of termination under paragraph A or C above, CONTRACTOR shall be paid an amount which bears the same ratio to the total compensation authorized by the Agreement as the services actually performed bear to the total services of CONTRACTOR covered by this Agreement, less payments of compensation previously made. In no event, however, shall COUNTY pay CONTRACTOR an amount which exceeds a pro rata portion of the Agreement total based on the portion of the Agreement term that has elapsed on the effective date of the termination.
- E. CONTRACTOR shall not incur any expenses under this Agreement after notice of termination and shall cancel any outstanding expenses obligations to a third party that CONTRACTOR can legally cancel.

### **XXXI. REPORTS**

- A. CONTRACTOR shall, without additional compensation therefor, make fiscal, program evaluation, progress, and such other reports as may be reasonably required by Director concerning CONTRACTOR'S activities as they affect the contract duties and purposes herein. COUNTY shall explain procedures for reporting the required information.
  
- B. CONTRACTOR agrees that, pursuant to Government Code section 7522.56, CONTRACTOR shall make best efforts to determine if any of its employees or new hires providing direct services to the COUNTY are members of the Sacramento County Employees' Retirement System (SCERS). CONTRACTOR further agrees that it shall make a report bi-annually (due no later than January 31st and July 31st) to the COUNTY with a list of its employees that are members of SCERS along with the total number of hours worked during the previous six (6) months. This report shall be forwarded to where Notice is sent pursuant to Roman numeral III of this Agreement.

### **XXXII. AUDITS AND RECORDS**

Upon COUNTY'S request, COUNTY or its designee shall have the right at reasonable times and intervals to audit, at CONTRACTOR'S premises, CONTRACTOR'S financial and program records as COUNTY deems necessary to determine CONTRACTOR'S compliance with legal and contractual requirements and the correctness of claims submitted by CONTRACTOR. CONTRACTOR shall maintain such records for a period of four (4) years following termination of the Agreement, and shall make them available for copying upon COUNTY'S request at COUNTY'S expense. COUNTY shall have the right to withhold any payment under this Agreement until CONTRACTOR has provided access to CONTRACTOR'S financial and program records related to this Agreement.

### **XXXIII. PRIOR AGREEMENTS**

This Agreement constitutes the entire contract between COUNTY and CONTRACTOR regarding the subject matter of this Agreement. Any prior agreements, whether oral or written, between COUNTY and CONTRACTOR regarding the subject matter of this Agreement are hereby terminated effective immediately upon full execution of this Agreement.

**XXXIV. SEVERABILITY**

If any term or condition of this Agreement or the application thereof to any person(s) or circumstance is held invalid or unenforceable, such invalidity or unenforceability shall not affect other terms, conditions, or applications which can be given effect without the invalid term, condition, or application; to this end the terms and conditions of this Agreement are declared severable.

**XXXV. FORCE MAJEURE**

Neither CONTRACTOR nor COUNTY shall be liable or responsible for delays or failures in performance resulting from events beyond the reasonable control of such party and without fault or negligence of such party. Such events shall include but not be limited to acts of God, strikes, lockouts, riots, acts of war, epidemics, pandemics, acts of government, fire, power failures, nuclear accidents, earthquakes, unusually severe weather, acts of terrorism, or other disasters, whether or not similar to the foregoing, and acts or omissions or failure to cooperate of the other party or third parties (except as otherwise specifically provided herein).

**XXXVI. SURVIVAL OF TERMS**

All services performed and deliverables provided pursuant to this Agreement are subject to all of the terms, conditions, price discounts and rates set forth herein, notwithstanding the expiration of the initial term of this Agreement or any extension thereof. Further, the terms, conditions and warranties contained in this Agreement that by their sense and context are intended to survive the completion of the performance, cancellation or termination of this Agreement shall so survive.

**XXXVII. DUPLICATE COUNTERPARTS**

This Agreement and any amendments hereto may be executed in duplicate counterparts. The Agreement and subsequent amendments shall be deemed executed when signed by both parties.

Signatures scanned and transmitted electronically shall be deemed original signatures for purposes of this Agreement and subsequent amendments, with such scanned signatures having the same legal

effect as original signatures. This Agreement and any subsequent amendments to it may be executed through the use of an electronic signature and will be binding on each party as if it were physically executed.

**XXXVIII. AUTHORITY TO EXECUTE**

Each person executing this Agreement represents and warrants that he or she is duly authorized and has legal authority to execute and deliver this Agreement for or on behalf of the parties to this Agreement. Each party represents and warrants to the other that the execution and delivery of the Agreement and the performance of such party's obligations hereunder have been duly authorized.

**XXXIX. FAA CONTRACT PROVISIONS**

CONTRACTOR shall, at all times, during the term of this Agreement, comply with the provisions of the FAA Contract Provisions (Contract Provisions) and any subsequent amendments, applicable to the activities, rights and duties contemplated under this Agreement. A copy of the Contract Provisions is attached as Exhibit D and incorporated by reference. CONTRACTOR shall include compliance with the Contract Provisions in all other agreements it enters into with third parties, pertaining to, referencing or otherwise related to the activities regarding the subject matter of this Agreement.

**XL. LIQUIDATED DAMAGES**

For performance failures, CONTRACTOR shall provide credits, by reduction of invoice totals, or reimbursement to COUNTY in accordance with the liquidated damages schedule described in Exhibit H, attached hereto and incorporated herein.



**IN WITNESS WHEREOF**, the parties hereto have caused this Agreement to be duly executed as of the day and year first written below.

**COUNTY OF SACRAMENTO, a  
political subdivision of the State  
of California**

**[name of CONTRACTOR and type  
of business]**

By: \_\_\_\_\_  
Cynthia A. Nichol  
Director of Airports

By: \_\_\_\_\_  
[Authorized Signer]  
[Title]

Date: \_\_\_\_\_

Date: \_\_\_\_\_

CONTRACT AND CONTRACTOR TAX STATUS  
REVIEWED AND APPROVED BY COUNTY COUNSEL

By: \_\_\_\_\_  
Katrina G. Nelson  
Supervising Deputy County Counsel

Date: \_\_\_\_\_

Attachments:

- Exhibit A – Scope of Work
- Exhibit B – Insurance Requirements for Contractors
- Exhibit C – Budget Requirements
- Exhibit D – FAA Contract Provisions
- Exhibit E – IT Security Requirements
- Exhibit F – PARCS Equipment Matrix
- Exhibit G – Performance Standards
- Exhibit H – Liquidated Damages Schedule
- Exhibit I – AVI Specifications

**EXHIBIT A to Agreement  
between the COUNTY OF SACRAMENTO (COUNTY) and  
[CONTRACTOR] (CONTRACTOR)**

**SCOPE OF WORK**

**FINAL SCOPE OF WORK MAY DIFFER BASED ON PROPOSAL**

**I. SERVICE LOCATION**

**Facility Name(s):** Sacramento International Airport (SMF)

**Street Address:** 6900 Airport Blvd.

**City and Zip Code:** Sacramento, CA 95837

**II. DESCRIPTION OF SERVICES**

For the purposes of this Exhibit A, CONTRACTOR shall also include any subcontractors, if applicable.

A. Related Requirements

The design and operation of the new Parking Access and Revenue Control System (PARCS) shall conform to the following reference codes, regulations, and standards as applicable:

1. National Electrical Code (NEC).
2. American National Standards Institute (ANSI).
3. National Electrical Manufacturers Association (NEMA).
4. Underwriters Laboratories (UL).
5. National Fire Safety Association (CFSA).
6. Federal Communications Commission (FCC).
7. Payment Card Industry Data Security Standard (PCI DSS), latest version.
8. Applicable Federal, Province, and Local Laws, Regulation, and Codes.

9. Americans with Disabilities Act (ADA).

10. County of Sacramento IT Security Requirements in Exhibit E, attached hereto and incorporated herein.

## B. Project Overview

The following are the key installation project objectives:

1. CONTRACTOR shall provide a PARCS leveraging technologies to enhance the SMF passenger's parking experience that meets all performance requirements herein. Parking technologies shall include the following:
  - a. Rear pre-capture License Plate Reader (LPR) camera technology in all public entry and exit lanes in parking facilities.
  - b. A mobile device payment solution to allow SMF passengers the ability to pay for their parking in a secure online platform without the need to interface with in-lane parking equipment.
  - c. Provide Europay, MasterCard, and Visa (EMV) enabled payment processing technology such that the PARCS can accept payments from mobile payments and contact chip-based credit cards.
  - d. Provide Near Field Communications (NFC) enabled credit card processing such that the PARCS can accept payments from contactless credit cards and mobile wallets.
  - e. Ability to communicate with customers through high-definition voice audio Voice over Internet Protocol (VoIP) intercoms and pinhole cameras at all entry and exit stations as well as at all cash pay stations.
  - f. An Automatic Vehicle Identification (AVI) which meets the specifications in Exhibit I, attached hereto and incorporated herein, and proximity card system for employee access.
  - g. A Business Intelligence (BI) toolset that provides daily data from the PARCS and Repository of Airport Data (ROADs) database that the SMF user can access directly from a user-configurable dashboard.
  - h. An optional valet system for Terminals A and B.

- i. Replacement of the gate arms on both helices in the parking garage.
- j. Capability for daily scheduled replication/export of data via secure means as defined by the airport.
  - 1. The PARCS shall maintain accurate documentation of the financial and statistical data for the parking operation by producing reports for revenue and activity.
  - 2. The PARCS shall provide complete audit, accountability, and traceability of all activity and revenues.
  - 3. CONTRACTOR shall implement a post-installation maintenance and service support plan.
  - 4. CONTRACTOR shall provide Application Programming Interfaces (APIs) to allow COUNTY staff to integrate PARCS with related systems including, but not limited to:
    - a. Parking Reservation System.
    - b. Parking Guidance System.
    - c. BI Solution including the Airport's ROADS data warehouse solution.
    - d. Loyalty Program (e.g., Frequent Parker).
    - e. Valet System.

5. Data Ownership

All data processed through the PARCS is considered property of COUNTY. Major Installation Project Components

CONTRACTOR shall:

- 1. Remove and replace all existing PARCS lane and pay station equipment per Exhibit F, attached hereto and incorporated herein.

~~2. Remove all designated cashier booths as outlined in Exhibit F.~~

~~a. CONTRACTOR shall ensure all relevant network equipment and components in the cashier booths are protected for future use.~~

~~b. The Airport will decide which booths are retained or removed from site.~~

3.2. Provide and install all software, ancillary components, and materials to provide a complete and functioning PARCS.

4.3. Provide and install all software, ancillary components, and materials to provide a complete and functioning Test Bed.

a. An onsite fully functional test bed environment shall be installed at a location to be determined by COUNTY.

b. Exhibit F prescribes all hardware requirements for the Test Bed.

c. The Test Bed will allow COUNTY and CONTRACTOR to test all PARCS equipment and integrations during upgrades, fixes, and new functionality.

d. No equipment shall be removed from the Test Bed without approval from COUNTY.

5.4. Provide, maintain, and monitor the PARCS communications network.

a. Configure all field component communication such that no single point of failure of a device shall cause an operational failure of surrounding devices.

b. TCP/IP shall be used for communication to all devices.

c. Provide a secure method for remote access to the PARCS for designated Airport staff members.

6.5. Identify and submit all additional communication infrastructure beyond the current Airport-provided PARCS network required for the new PARCS.

**7.6.** Provide all additional communication network infrastructure including fiber, conduit, and hardware/software required for the new PARCS.

**8.7.** Perform all data backups and archiving as follows:

Data Type	Archiving Period
Transactional Data	365 days
License Plate Images	180 days
Pinhole Camera Data	30 days
Archiving Transactional Data	5 years

- a. CONTRACTOR shall archive all transaction data shall be for a rolling five (5) year period.
- b. CONTRACTOR shall submit the process for the Airport to easily retrieve archived data during the life of the PARCS at the Preliminary Design Review (PDR) meeting and demonstrate it in the production environment prior to the System Acceptance Test (SAT).
- c. The PARCS shall have the capability to run reports against archived data using the same process/query method used to report against production data.
- d. The PARCS shall have a reporting database architecture that prevents reporting queries from impacting performance of the production servers.

**9.8.** CONTRACTOR shall submit, for COUNTY review, a step-by-step structured Disaster Recovery Plan (DRP) to avoid any data loss that includes the following:

- a. At all times, CONTRACTOR shall provide a failover solution that is a current version of all PARCS software applications and production environment configurations, including third-party applications.
- b. CONTRACTOR shall use the stored version to configure new PARCS servers in case of a disaster.
- c. Clear outline of the recovery strategy, processes, and estimated recovery timeline of how the PARCS will be restored once a disaster has occurred.

- d. Point-of-contact information for CONTRACTOR in the event of a disaster.
- e. In the event CONTRACTOR exits the market, COUNTY shall gain access and right of use to the offsite back-up of the source code including build environment and compilers.

~~10.9.~~ Review the COUNTY-provided drawings and specifications to be certain that all functional requirements, as described, can be met with the equipment to be supplied.

~~11.10.~~ Perform field verification of all COUNTY-provided drawings and specifications.

~~12. Provide construction drawings and specifications that are signed and sealed by a professional engineer licensed in the state of California for all infrastructure improvements.~~

CONTRACTOR shall coordinate with COUNTY to ensure any civil improvement changes for the PARCS are brought to the attention of the SMF project team and included in drawings, where necessary.

~~13.11.~~ Provide and install mounting structures necessary for the PARCS equipment.

~~14.12.~~ Install all CONTRACTOR-supplied equipment and establish the interconnection with any COUNTY-supplied equipment.

~~15.13.~~ Authorize and accept responsibility for application of power to equipment and initiation of operation.

~~16.14.~~ Run all diagnostics and system testing necessary to provide a complete working system, functioning in accordance with these specifications.

~~17.15.~~ Attend design meetings, construction meetings, provide schedules as required, and coordinate fieldwork with Airport.

~~18.16.~~ Test equipment in accordance with this specification and assist with any Airport requested testing.

~~19.17.~~ Provide as-built drawings and documentation, operating manuals, maintenance procedures manuals, training materials and training sessions as specified herein.

~~20.18.~~ Adhere to the Airport's integrated technology (IT) Security Requirements – see Appendix F attached hereto and incorporated herein.

~~21.19.~~ Provide experienced on-site staff to perform preventative maintenance and respond to any system issues during the installation period through system acceptance.

- a. CONTRACTOR shall provide warranty services as required.
- b. CONTRACTOR shall provide post-warranty maintenance services as required.
- c. The PARCS shall accurately monitor facility occupancy via entry and exit transaction counts.

#### C. COUNTY Provisions

1. COUNTY shall provide electrical power conduit and cabling from available power sources to the general vicinity of each PARCS component.
2. COUNTY shall provide communication network conduit and cabling from electrical rooms and facilities to the general vicinity of each PARCS component.

#### D. PARCS Future System Expansion

1. The PARCS shall be readily upgradable, scalable, and modular in design to accommodate additional equipment, parking facilities, features, and functionalities including the following:
  - a. Additional PARCS field devices.
  - b. Additional parking facilities, including temporary "mobile" parking facilities created to accommodate changes to the Airport related to SMF capital improvement (SMFForward) construction activities.



- c. Open APIs to interface with third-party applications.
  - d. Firmware or software upgrades without the need to replace field devices.
2. As part of the SMForward project, an additional 5,500 space parking garage is planned with construction to begin in the Fall of 2024. CONTRACTOR shall expand PARCS to this facility upon direction by COUNTY to do so.

#### E. PARCS Architecture

##### 1. General Requirements

The PARCS shall provide the ability to accurately monitor, document, and track activity and revenues generated by all scoped parking facilities and operations. This includes:

- a. Daily Garage A
- b. Daily and Hourly Lots
- c. Economy Lots
  - 1) West Economy
  - 2) East Economy
  - 3) South Economy
- d. Employee Parking
- e. Valet Parking (new)
- f. Temporary lots (new)

2. All PARCS equipment shall communicate with the PARCS server(s) for transfer of all stored data and transfer of equipment parameters. The PARCS shall provide automatic monitoring and control of all PARCS devices connected to the network.

3. The PARCS shall be capable of transmitting, receiving, processing, and storing data in all possible use cases, including the following:
  - a. Simultaneous (synchronous) receipt of parking data from all facilities.
  - b. Simultaneous receipt of data from one or more facilities while data is being transmitted to one or more facilities.
  - c. Simultaneous receipt and transmission of data to and from all PARCS equipment while receiving report queries from users, data transmissions to and from other SMF systems, communications with third party servers, and requests from other portions of the network.
  - d. The PARCS shall record the entry, payment, and exit data for each transaction in a way that allows a closed ticket to be traced to the entry, payment and exit data, and allows an open ticket to be traced to the entry data.
  - e. All PARCS transactions shall be recorded in such a manner as to allow an audit to be conducted for all transactions, customers, payment type, product, and facility levels. Data shall be recorded in a manner that allows all transactions to be linked back to the master records for reporting, analysis, data retrieval, and legal purposes.
  - f. The PARCS shall provide COUNTY with the ability to close orphaned records in the management system.
  - g. Each transaction shall have a unique identifier assigned to all activity associated with the transaction from start to end so that a single transaction can be easily traced through the PARCS. This includes, at a minimum:
    - 1) Advance payment.
    - 2) Entry data.
    - 3) Discounts.
    - 4) Pay station payments.

5) Scan to Pay payments.

6) Exit payments.

h. The PARCS shall allow COUNTY to access, filter, and sort data efficiently. This includes, at a minimum, the ability to retrieve data types for selectable time periods for the following:

Data Types			
Revenue Data	Occupancy Data	Duration Data	Rate Increment Data
<ul style="list-style-type: none"><li>• Parking facility</li><li>• Parking product</li><li>• Campaign/promotion</li><li>• Equipment ID</li><li>• Customer ID</li><li>• User ID (system user)</li><li>• Payment type</li><li>• Transaction type</li><li>• Entry media type</li><li>• Sales channel</li><li>• License plate region</li><li>• Transaction amount</li></ul>	<p>Facility occupancy by:</p> <ul style="list-style-type: none"><li>• 15-minute increments of every hour</li><li>• Hour</li><li>• Day</li><li>• Week</li><li>• Month</li><li>• Year</li></ul>	<ul style="list-style-type: none"><li>• Parking facility</li><li>• Parking product</li><li>• Payment type</li><li>• Discount type</li><li>• Hour</li><li>• Day</li><li>• Week</li><li>• Month</li><li>• Year</li><li>• Parker type: Customer/Prox card/etc.</li></ul>	<ul style="list-style-type: none"><li>• Fee increment</li><li>• By hour</li><li>• By day</li><li>• Parking facility</li><li>• Parking area</li><li>• Parking product</li><li>• Payment type</li><li>• Discount type</li><li>• Original rate</li><li>• New Rate</li></ul>

## F. System Architecture

1. The PARCS shall include the following integrations and interfaces:

*(Remainder of Page Intentionally Left Blank)*

Integrations	Interfaces	Core Functionality
LPR System	Airport’s Customer Relationship Management	Data Management System
Mobile LPI System	Airport’s Business Intelligence solution	Revenue Management System
Valet System	Airport’s employee invoicing application	Valet System
Access Credential Management System	Airport’s pre-booking Parking Reservation System	License Plate Recognition
Facility Monitoring System	Airport’s Customer Loyalty Program	Mobile License Plate Inventory
Space Count System	Space Count System	Facility Management System
Pinhole Camera System	Parking Guidance System	Access Credential Management System
		Pre-Booking Parking Reservation System
		Space Count System
		Reports System
		Data repository (ROADS)

2. The PARCS shall support a loyalty program for future deployment:
  - a. The loyalty program may use a PARCS credential tied to a bankcard.
  - b. The PARCS shall have ability to interface with third party loyalty programs with a credential provided by the customer (bankcard, license plate, etc.) or one provided by the third-party provider.
  - c. The PARCS shall allow different rates and access privileges based on:
    - 1) Customer ID.
    - 2) Time of day, day of week.
    - 3) Parking facility.
    - 4) Parking product.
  - d. The PARCS shall record all loyalty program revenue and transactions in the PARCS database.

- e. The PARCS shall support third-party applications and sales channels additions.
  - 1) The PARCS shall recognize program credentials and receive program data as needed.
  - 2) The PARCS shall record all third-party sales channel revenue and transactions in the PARCS.

#### G. Administrative Requirements

1. Project Kickoff Meeting - A project kickoff meeting will take place onsite at SMF within fourteen (14) days of issuance of the Notice to Proceed from COUNTY to CONTRACTOR, to review the project scope, project schedule, and the forthcoming PDR meeting requirements.
2. Preliminary Design Review - An onsite PDR meeting within forty (40) days of the project kickoff meeting will take place to review the Contractor's proposed System Design Document (SDD).
  - a. During the PDR meeting, the Contractor will provide a detailed review of the SDD to obtain information needed from the Airport team to complete the system design and configuration documents for the PARCS installation.
  - b. The PDR meeting is intended to provide the Contractor with all information needed to set up, configure, and install the PARCS in the test bed, lanes, pay stations, and parking office.
  - c. The SDD shall be compiled and submitted by the Contractor one (1) week prior to the PDR meeting for review.
  - d. The SDD shall include the following:
    - 1) Product data submittals for all proposed equipment to be installed.
    - 2) Infrastructure improvement design drawings and specifications.

- 3) Network and single-line diagrams for the PARCS.
  - 4) Description of logic for each use case scenario described in the specification documents.
  - 5) Outline of all third-party technology, APIs, and integrations.
- e. Shop drawings shall include the following:
- 1) All drawings must be submitted in the most recent version of AutoCAD and PDF software.
  - 2) Mounting details for PARCS equipment, per manufacturer recommendations.
  - 3) Drawings will clearly outline all dimensions (feet and inches) between lanes, islands, and equipment.
  - 4) Wiring diagrams detailing requirements for power and communication.
  - 5) Clear indication any work CONTRACTOR is not responsible for pursuant to this Agreement.
- f. CONTRACTOR shall submit a detailed Project Schedule using Microsoft (MS) Project software clearly outlining all tasks, task durations, milestones, the owner of each task, percent completed and inter-related dependencies as well as providing the project's critical path.
- 1) CONTRACTOR shall submit a progress schedule within thirty (30) days from the issuance of the NTP.
  - 2) CONTRACTOR shall update the schedule monthly with revisions to reflect all changes affecting the job progress.
  - 3) CONTRACTOR shall submit the schedule based on facility sequencing and phasing as well as by installation elements.
  - 4) Each version of the schedule shall be submitted in both MS Project and PDF formats.

- 5) CONTRACTOR must perform work in accordance with the approved Critical Path Method (CPM) Schedule to achieve timely completion of all project milestones and to avoid acceleration, termination for default, and claims for liquidated damages.
- 6) CONTRACTOR shall provide CPM schedules as defined in the following criteria:
  - i. The purposes of the Project Schedule shall be to:
    - Ensure adequate planning, scheduling, and reporting during execution of the work by the CONTRACTOR.
    - When more than one contractor is working at a site, ensure coordination of the work of CONTRACTOR and the various subcontractors and suppliers at all tiers.
    - Assist CONTRACTOR in monitoring the progress of the work and evaluating proposed changes to the Agreement and the Project Schedule.
    - Assist CONTRACTOR in the preparation and evaluation of CONTRACTOR'S monthly progress payments.
    - Provide information to COUNTY, enabling the timely coordination of work activities involving SMF tenants and/or impacting operations of COUNTY or its tenants.
    - Assist COUNTY in determining required dates for owner supplied materials and services.
  - g. CONTRACTOR shall provide a list of each device, by device ID and location, along with an Internet Protocol (IP) address.
  - h. CONTRACTOR shall provide a list of all PARCS applications, operating systems, and versions to be installed.

- i. CONTRACTOR shall provide a narrative of the process to retrieve archived data, format of retrieved data, and any limitations of retrieved data.
- j. CONTRACTOR shall provide a PARCS Configuration Workbook:
  - 1) The Configuration Workbook is the official documentation of COUNTY'S decisions for all PARCS settings and configurations.
  - 2) The Configuration Workbook is a comprehensive document that includes all configuration information that is needed from COUNTY to set up and install the PARCS such as rates, validations, time out periods, ticket and receipt layout and content, screen messaging, hardware configurations by device, software configurations by module, etc.
  - 3) CONTRACTOR shall complete the Configuration Workbook prior to the PDR meeting for review during the meeting.
  - 4) CONTRACTOR shall update the Configuration Workbook as part of the Change Management process throughout the project installation, Warranty, and Post-Warranty periods.
- k. CONTRACTOR shall provide responses to interface and data transfer questions to complete the design for the FDR.
- l. CONTRACTOR shall provide detailed revenue and activity report samples.
- m. CONTRACTOR shall provide ticket and receipt samples.
- n. CONTRACTOR shall provide the training plan.
- o. CONTRACTOR shall provide the testing plan for each phase of testing.
- p. CONTRACTOR shall provide maintenance and repairs tracking system and process.



- q. CONTRACTOR shall provide maintenance and repairs report samples.
  - r. CONTRACTOR shall provide a submittal register (i.e., a list of all submittals).
3. Final Design Review – COUNTY shall schedule the Final Design Review (FDR) meeting within thirty (30) days following the PDR. The purpose of the FDR meeting is to:
- a. Review all SDD revisions made since the PDR meeting.
  - b. Provide a CONTRACTOR-revised schedule with clearly identified milestone dates, task start and completion dates, lane-by-lane installation dates, training dates, and testing dates.
  - c. Identify any outstanding information needed for CONTRACTOR to design, set up, and configure within the PARCS.

Using the information from the FDR meeting, CONTRACTOR shall submit a revised, final SDD for COUNTY approval within fourteen (14) days following the FDR meeting.

#### H. Information Submittals

- 1. All CONTRACTOR submittals shall be uniquely numbered and tracked in a project submittal register. The submittal register shall be updated bi-weekly by CONTRACTOR and submitted to COUNTY.
- 2. The project schedule shall be updated and submitted weekly.
- 3. CONTRACTOR shall, on a weekly basis, provide a 3-week look ahead schedule to outline daily tasks and responsibilities.
- 4. All PARCS manuals shall be submitted by CONTRACTOR to COUNTY in electronic format (PDF and MS Word) thirty (30) days prior to commencement of the Lane Acceptance Tests (LATs). The following PARCS manuals are required:
  - a. PARCS user manuals.

- b. PARCS subsystem manuals.
  - c. PARCS maintenance procedures manuals.
  - d. PARCS system administration manuals.
5. CONTRACTOR shall submit all test procedures and test scripts for the tests that are listed below at least fourteen (14) days before the test is scheduled:
- a. Bank Card Acceptance Test (BAT)
  - b. Module Acceptance Test (MAT) – CMS, LPR, Validations, and CCF
  - c. Factory Acceptance Test (FAT)
  - d. Lane Acceptance Test (LAT) including pay stations
  - e. System Acceptance Test (SAT)

I. Closeout Submittals

- 1. CONTRACTOR shall submit copies of all applicable licenses, registrations, and warranty documentation prior to commencement of System Acceptance. In addition, CONTRACTOR shall ensure that ownership of all licenses, registrations, and warranties have been transferred to COUNTY prior to System Acceptance.
- 2. As-Built Documentation: Within fourteen (14) days of Final System Acceptance, CONTRACTOR shall submit as-built documentation of all systems and components installed as part of the PARCS. Documentation shall include depiction of the actual installed conditions of all equipment, cabling components, and configuration settings upon the completion of any acceptance test. CONTRACTOR shall update the most recent as-built documentation submitted as further changes occur in the field or because of a patch or upgrade to an installed system throughout the warranty and post-warranty periods.

J. Maintenance Material Submittals

## 1. Operating Stock

CONTRACTOR shall furnish a six (6) month supply of COUNTY-approved operating stock items prior to commencement of the lane testing. Estimated quantities are:

Stock	Quantity
Entry parking tickets	1,000,000
Exit / Pay station receipt tickets	1,000,000
Proximity cards	4,000
AVI transponders	300

## 2. Equipment Keys

- a. CONTRACTOR shall provide two (2) keys per lane device and pay station prior to the lanes being put into production.
- b. Keys shall be unique to this project and not be generically interchangeable with other devices produced by the manufacturer.
- c. Cash pay stations shall be individually keyed with separate keys for device door access, cash drop box removal, and cash drop box access.
- d. If a special-purpose tool is required to perform any function on the PARCS during the normal course of business and/or maintenance, CONTRACTOR shall provide one (1) of those tools per device.

## K. Quality Assurance

1. All PARCS components and their installation shall comply with all laws, ordinances, codes, rules, and regulations of public authorities having jurisdiction over this part of the work. It shall be the responsibility of CONTRACTOR to meet these and all other current technical, performance, and safety standards that are applicable to all components and to the entire system, even when not specifically referenced in this Agreement.

2. CONTRACTOR shall obtain all permits that are required to complete this work.
3. The PARCS shall be an open-architecture system where all interfaces (hardware and software) conform to local, regional, provincial and International Organization for Standardization (ISO) standards.
4. All materials and equipment shall be listed, labeled, or certified by a nationally recognized testing laboratory to meet Underwriters Laboratories (UL) standards where test standards have been established.
  - a. Equipment and materials which are not covered by UL Standards may be considered provided equipment and material is listed, labeled, certified, or otherwise determined to meet safety requirements of a nationally recognized testing laboratory. Use of equipment and materials not covered by UL Standards is subject to COUNTY approval.
  - b. Equipment of a class for which no nationally recognized testing laboratory accepts, certifies, lists, labels, or determines to be safe, will be considered if inspected or tested in accordance with national industrial standards, such as NEMA. Evidence of compliance shall include certified test reports and definitive product data. Use of such equipment and materials is subject to COUNTY approval.
5. Equipment housings, conduits, cabling, and junction boxes exposed to weather (any location not in a conditioned environment) shall meet or exceed National Electrical Manufacturer's Association (NEMA) 4 or Intrusion Protection (IP)54 standards to be moisture-proof and shall provide sufficient protection so that the components continue to function without moisture, dust, particle, heat, or cold-related interruption. Components that do not meet NEMA 4 or IP54 standards or better may be considered if implemented with supplemental environmental controls such as air conditioners and dehumidifiers.

#### L. Delivery, Storage, and Handling

1. CONTRACTOR shall be responsible for insuring all shipped items. Any items damaged during shipping shall be replaced and shipped to the project site, by expedited means if requested, at no additional cost to COUNTY.
2. COUNTY shall provide CONTRACTOR with a designated secure storage/staging area for any PARCS equipment that has not been installed. The location will be discussed and agreed to during the PDR.
3. Stored equipment shall remain in manufacturer's original containers to prevent damage and remain marked for easy identification.
4. CONTRACTOR shall receive, inspect, and sign for all deliveries.
5. It is CONTRACTOR'S responsibility to protect the equipment onsite from theft and damage until final acceptance including installation of fencing, locks, and any other security provisions. Should the stored equipment be stolen or damaged prior to final acceptance, CONTRACTOR shall replace the equipment at no additional cost to COUNTY. CONTRACTOR shall have sole access to the onsite storage location.

#### M. Project Site Conditions

1. All field equipment and components shall be fully protected from the local ambient environment when installed in the proper housing provided by the Contractor. The operation of the equipment shall not be affected in any way by weather conditions typical to the State of California.
2. Provide a solution such that environmental conditions in a cabinet do not cause failure of the installed electronics.
3. Operation of the equipment shall not be affected in any way by the conditions listed on the following page:

Environmental Condition	Acceptable Values
Ambient temperature	-20°F to 120°F
Humidity	30% to 95% (non-condensing)
Rain	Blowing rain with 70 mph gusts
Dust	Accumulating and blowing dust and fine sand
Snow / Ice	Accumulating and blowing snow and freezing ice conditions

4. All field equipment shall be sealed once the equipment item has been installed, including base sealant to prevent water, dust, and insects from entering the equipment.
5. CONTRACTOR will be responsible for advising COUNTY if there are any special environmental factors to which its equipment may be sensitive that are not specified in this Exhibit A.
6. All devices and component enclosures shall be NEMA Type IV weather resistant or equivalent. Metal enclosures shall be finished in acrylic enamel to match other equipment. CONTRACTOR shall submit color samples and finishes to the Airport for approval.
7. All lane and pay station equipment shall be equipped with heaters and cooling fan units as standard.
8. CONTRACTOR shall present their solution for preventing power interference to COUNTY for approval prior to implementation.
9. CONTRACTOR SHALL install lightning protection for the PARCS through surge arrestors or earthen ground rods, where appropriate, or a combination thereof. CONTRACTOR shall determine, based upon the COUNTY'S requirements, the appropriate lightning protection method to use for the location where the equipment is installed.
10. All PARCS equipment will be UL-approved for use as part of a master labeled lightning protection system and marked in accordance with UL procedures.
11. Electrostatic and electromagnetic forces within the environment, e.g., non-direct lightning strikes, or other types of power interference shall have no effect upon the integrity or operation of the PARCS.

12. CONTRACTOR shall ensure that no equipment damage occurs during manufacture, storage, shipment, and operation because of climatic conditions that differ from those specified in this Exhibit A.

#### N. Project Sequencing

The Project Schedule shall be sequenced in a manner that achieves full implementation and acceptance of the PARCS in accordance with this Agreement, including the functional specifications in this Exhibit A.

CONTRACTOR shall adhere to the lane closure limitations, per parking facility, as defined below:

1. At all times keeping one (1) entry lane in service.
2. At all times keeping one (1) exit lane in service.
3. At all times Plaza A requires two (2) exit lanes to remain in service.
4. No holiday blackout periods apply to this Agreement.

#### O. Warranty

1. The Warranty period on the PARCS will commence upon formal notification from COUNTY of Final System Acceptance.
2. Warranty includes all parts, materials, and workmanship for a period of 24 months (2 years) from when the Warranty period commences. All costs (including but not limited to parts, labor, maintenance, software support, warranty repairs, shipping, restocking fees, CONTRACTOR travel time, and CONTRACTOR expenses) incurred during the Warranty period will be provided without additional cost to the Airport.
3. Costs (time and material) for repair or parts replacement, components, damaged or rendered unserviceable due to apparent and provable misuse, abuse, vandalism, or negligence by COUNTY or the using public are excluded as a warranty items. Also excluded from the Warranty are damages due to natural disasters. Any CONTRACTOR costs

related to these non-warranty repairs can be invoiced to COUNTY on a time and materials basis using the costs [specified in Exhibit C]. However, labor shall not be invoiced when such repairs are made during the onsite technician scheduled business hours.

4. All Warranty requirements defined in this document are also requirements for all systems and hardware that are operating prior to starting the Warranty period.

5. Warranty Support Staff

CONTRACTOR shall provide:

a. Locally based support staff that can meet the response times as indicated in the PARCS Support Service Levels Table in Section II.P.9.b.4). of this Exhibit A (PARCS Support Service Levels Table).

b. Locally based support staff to perform the preventative maintenance tasks as required herein.

c. Support staff that is fully factory-trained and certified by CONTRACTOR.

6. Preventive Maintenance Service prior to and during Warranty Period

a. CONTRACTOR shall perform preventive maintenance services for all systems throughout the installation period and Warranty period. Preventive maintenance procedures and frequencies shall be defined by the manufacturer's recommended maintenance procedures manual as modified and accepted by COUNTY. If equipment performance such as ticket jams (if applicable) and unreadable tickets exceed .05% of activity, COUNTY may request more frequent preventative maintenance for affected equipment components without added cost to COUNTY.

b. Preventative maintenance shall be prioritized at the East Economy Lot and main Daily Lot Exit Plaza given the traffic volumes at these locations.



- c. Preventive maintenance services include, but are not limited to inspection, testing, necessary adjustment, alignments, calibration, parts cleaning, replacement of consumables, and battery refresh of the PARCS.
  - d. CONTRACTOR shall perform all preventative maintenance at non-peak periods during regular business hours.
  - e. COUNTY shall assist CONTRACTOR with determining peak periods of activity.
7. Emergency Repair Service during the Warranty Period
- a. CONTRACTOR shall provide emergency repair service in accordance with the PARCS Support Service Levels Table.
  - b. Factors beyond the control of CONTRACTOR, such as unexpected delays in parts, accidents, severe weather, and unusual traffic, require thorough documentation to be submitted by CONTRACTOR to COUNTY the following business day. COUNTY may grant relief for the service hour requirement after reviewing these factors.
8. Software Support during the Warranty Period:
- a. CONTRACTOR shall provide software support in accordance with) the PARCS Support Service Levels Table.
  - b. CONTRACTOR shall provide on-site and remote software support for PARCS software and all third-party software applications.
  - c. CONTRACTOR shall provide all PARCS software version upgrades, software patches, service packs and updates free of charge during the installation, warranty, and post-warranty periods; however, COUNTY reserves the option of implementing the updates or not. CONTRACTOR shall provide documentation and release notes seven (7) calendar days prior to all PARCS software modifications, patches, updates, and upgrades, which describes:
    - 1) Patch/update/upgrade release designation.

- 2) Proposed date and time of implementation.
  - 3) Detailed description of what the patch/update accomplishes.
  - 4) Disaster recovery procedures as defined herein.
- d. All changes shall be fully installed, tested, and verified by CONTRACTOR in the test bed prior to being applied to the production system.
  - e. CONTRACTOR shall provide patches, hotfixes and upgrades required to maintain PCI compliance.
  - f. CONTRACTOR shall submit to the Airport a monthly software and hardware patch update list of all patch set levels.
  - g. [For a non-cloud-based solution, support software upgrades to the PARCS application is based on the operating system patch and upgrade requirements.]
  - h. If MS decommissions an operating system, CONTRACTOR must be capable of releasing code compatible with the next operating system upgrade prior to MS ending support for current operating system.
  - i. CONTRACTOR shall provide COUNTY with a plan at least six (6) months in advance of implementing operating system patch and upgrade requirements.
  - j. COUNTY retains the option to purchase and install OS licenses in the PARCS devices.
  - k. CONTRACTOR will provide all Release Notes and an explanation of what the patch is resolving for COUNTY'S review and approval prior to being applied.
  - l. CONTRACTOR shall provide corrective patches and upgrades in the event security vulnerability or system availability issues are discovered.

## 9. Service Level Performance Requirements

a. Preventative Maintenance

- 1) CONTRACTOR shall create an annual preventative maintenance schedule listing each device and the preventative maintenance type and dates to be completed for the year. The annual preventative maintenance schedule shall be submitted to COUNTY prior to installation of the first lane.
- 2) Each month, CONTRATOR shall communicate the preventative maintenance performed for the month by updating the annual preventative maintenance schedule with the dates the maintenance was performed on each device.

b. Emergency Repair Service & Software Support

- 1) Prior to the first lane going into production, the Contractor shall provide two (2) methods of notification to be used for emergency contact information. The methods of notification shall provide a means of tracking the date and time the message was delivered.
- 2) Definitions:
  - i. Acknowledgement Time - Elapsed time beginning when COUNTY gives CONTRACTOR initial notification via phone call or email until CONTRACTOR'S real-time, human communication with COUNTY regarding the issue and receipt of an email containing a service ticket number.
  - ii. Final Resolution Time - Elapsed time from Acknowledgement Time until final resolution of the issue including receipt of an email with ticket number closure notification.
- 3) Emergency service and software support notifications will be placed only by designated COUNTY staff. COUNTY staff will assign a priority level (1-4) for all emergency service maintenance notifications as defined in PARCS Support Service Levels Table. For each priority level, CONTRACTOR shall adhere to the

service levels as defined in PARCS Support Service Levels Table.

- 4) Failure to meet the service levels times defined in PARCS Support Service Levels Table due to the unavailability of parts is not an acceptable reason for the failure. For each occurrence where the service request was not achieved at the performance level in Table 3, one percent (1%) of the monthly Warranty and Post-Warranty payment will be deducted per occurrence.

PARCS Support Service Levels				
Priority Level	Definitions	Acknowledge	Onsite / Remote Support	Resolution / Workaround
<b>1: Critical</b>	System wide failure(s) that impact revenue collection: <ul style="list-style-type: none"> <li>• Failure to process credit card payments in PARCS</li> <li>• PARCS issue(s) severely impacting customer from exiting from all exit lanes in one lot.</li> <li>• PARCS unable to function requiring gates be vended in more than lot.</li> <li>• System wide incident that has a significant impact on Owner's ability to conduct business.</li> </ul>	30 minutes from time of notification	1 hour from time of notification	Completed 4 hours from time of notification
<b>2: High</b>	Major issues impacting a lot or facility: <ul style="list-style-type: none"> <li>• A failure that impacts revenue collection in one lot.</li> <li>• PARCS unable to function requiring gates be vended in one or more lot.</li> </ul>	30 minutes from time of notification	2 hours from time of notification	Completed 4 hours from time of notification
<b>3: Medium</b>	Significant lane specific failures preventing operation.	30 minutes from time of notification	4 hours from time of notification	Completed 24 hours from time of notification
<b>4: Low</b>	Minor system failures not preventing operation but requiring resolution.	1 hour from time of notification	8 hours from time of notification	Completed 24 hours from time of notification

c. Installation and Warranty Documentation and Reporting

- 1) CONTRACTOR shall provide and utilize a service tracking system to monitor and record all scheduled, requested, and performed maintenance and repair services during installation, Warranty, and Post-Warranty periods. COUNTY shall have unrestricted access to the service tracking system to allow visibility into issue resolution status.

- 2) CONTRACTOR shall clearly outline the service tracking system toolset in the PDR.
- 3) All system changes shall be tracked through the service tracking system.
- 4) CONTRACTOR shall fill in all required fields, completely, for all preventative maintenance and repair services scheduled and performed. At a minimum, the service tracking system shall include:
  - i. Unique work order number.
  - ii. Device ID or component to be serviced.
  - iii. Identification of the problem and service to be performed.
  - iv. Date and time failure was reported.
  - v. Reporting party.
  - vi. Assigned technician.
  - vii. Corrective action code.
  - viii. Description of corrective action.
  - ix. Identification of all replaced modules, parts, software patches or any upgrades made.
  - x. Date and time corrective action was tested and verified to be operational.
  - xi. Lot and Location of device.
- 5) The service tracking system database shall be kept on a component-by-component basis according to equipment number or component type. A component shall be defined as the major items within the PARCS, e.g., BG, ES, EX, LPR camera, pay station, lane controller, workstation, validation scanner, etc. The service database shall include a parameter driven

reporting feature (by date, by component type, by specific module, by problem type) and inventory reports.

- 6) The service database shall record all software and hardware updates.
- 7) The service database shall be accessible by COUNTY at any time during the installation, warranty, and post-warranty periods.
- 8) Data from the service database shall be made available to COUNTY in an automated fashion (SPI, SFTP, etc.).

d. Maintenance Service Reporting

- 1) All reporting requirements shall be reviewed and finalized at the PDR.
- 2) COUNTY shall approve or reject the electronic database and service reports format at the PDR meeting.
- 3) CONTRACTOR shall provide to COUNTY, by email, the following electronic reports:
  - i. A weekly Out-of-Service Report, indicating how long any lane or component was out of order for the preceding week.
  - ii. A monthly Repair Service Report summarizing the number of repairs made categorized by problem and the number of repairs made by lane ID for the preceding month.
  - iii. A monthly PM Report of all preventative maintenance performed by lane, along with an updated spreadsheet showing each lane and the dates preventative maintenance was performed for the preceding month.

- e. CONTRACTOR shall reimburse COUNTY for any quantifiable lost revenue directly related to CONTRACTOR'S errors and/or actions, for example,

CONTRACTOR incorrectly updating a proposed rate change.

- f. COUNTY shall notify CONTRACTOR in writing of performance problems with respect to the service standards within twenty (20) days after the end of each month based on the performance reports from the maintenance tracking system.
- g. CONTRACTOR shall be allotted thirty (30) days from receipt of notification to take corrective actions with respect to the problem identified and communicated by COUNTY, or request relief subject to COUNTY approval.

P. Post-Warranty Services

- 1. Post-Warranty services include preventative maintenance and emergency repairs per the PARCS Support Service Levels Table.
- 2. Post-Warranty services shall have all the same requirements as defined during the Warranty period.
- 3. Software Development is considered to be of two types – Enhancements and Error Corrections (bug fixes):
  - a. Enhancements are considered developments that provide COUNTY with requested features that deviate from initial installation. They are any modifications or additions that, when made or added to the software materially change its utility, efficiency, functional capability, or application, but does not constitute an error correction. Prior to the start of development, CONTRACTOR shall provide COUNTY with an estimate of hours required to deliver the enhancement and the normal labor rates in Exhibit C shall apply to all development considered as an enhancement. Upon acceptance of a task order requiring an enhancement, CONTRACTOR shall commence development as a Change Order to the Base Maintenance responsibilities.
  - b. Error Corrections are either a modification or an addition that, when made or added to the software, establishes

material conformity of the software to the functional specifications, or a procedure or routine that, when observed in the regular operation of the software, eliminates the practical adverse effect experienced during operation. Upon notification of an error by COUNTY, CONTRACTOR shall provide an estimate to completion of the development. Depending on the severity of the error, a temporary workaround may be necessary to provide COUNTY with a fully functional system. CONTRACTOR and COUNTY shall decide together on what shall be done until the completion of the error correction. All costs associated with error corrections are incurred by CONTRACTOR.

4. Regardless of the type of development, CONTRACTOR shall provide regular status updates, test the completed software, and assist COUNTY as directed in the installation of the software change. All software development work performed under a task order issued by this Agreement shall be warranted by CONTRACTOR against defects for a period of one (1) year after installation of the software.
5. Upgrades and Updates to CONTRACTOR-Supplied Application Software:
  - a. If CONTRACTOR releases version upgrades to the software or firmware for the PARCS equipment while this Agreement is in effect, COUNTY may opt to upgrade its software. If COUNTY opts to upgrade software, the labor required to test, configure, and install the upgrade on COUNTY'S equipment shall be provided at no additional cost to COUNTY. The maintenance of such software and firmware products shall be provided at no additional cost to COUNTY.
  - b. Software and firmware products that replace or supersede installed products and are required for compliance with the functional or performance requirements of this contract shall be provided and installed at no additional cost to COUNTY, even if the products increases functionality and/or improves performance. The maintenance of such software and firmware products shall be provided at no additional cost to COUNTY.



6. CONTRACTOR Personnel and Support Facilities - during the term of this agreement, CONTRATOR shall:

- a. Retain technical support and software development personnel who are trained and certified with the PARCS equipment and software, and who are qualified to perform the tasks described herein.
- b. Retain all software source code, development, and testing environments necessary to support and modify software for the COUNTY'S PARCS.

7. Software Modification Procedures During Agreement Term

- a. CONTRACTOR shall test and document all software modifications prior to delivery to COUNTY. Documentation accompanying each software modification shall include comprehensive Software Release Notes. COUNTY shall review all software modifications and documentation.
- b. When authorized by COUNTY, CONTRACTOR shall install software modifications according to the COUNTY – approved installation procedures. At its discretion, COUNTY may independently test and verify these modifications prior to authorizing CONTRACTOR to install the modification.
- c. CONTRACTOR shall supply software modifications to correct all defects in the PARCS software arising from installation of any modification provided under the terms of the Extended Software Support Services option. No cost for hours shall be incurred by COUNTY for this work.

8. Throughout the Post-Warranty Maintenance period the CONTRACTOR shall be fully compliant with the latest PCI, ADA, and EMV standards.

9. Warranty and Post Warranty Maintenance Agreement Period Performance

- a. Warranty and Maintenance Agreement payments shall be made monthly to CONTRACTOR.

- b. Each month, within fifteen (15) days following the end of a month, CONTRACTOR and COUNTY staff shall meet to review PARCS performance and CONTRACTOR'S maintenance staff performance results for the prior month. Minutes of these meetings shall become part of the permanent Agreement file and shall be available to the Performance Bond Insurance Company throughout the maintenance period, if requested.
- c. COUNTY shall review the PARCS performance and CONTRACTOR'S performance based on the standards outlined in this section and below for Preventative Maintenance (PM) and Repair Services Maintenance (RS). CONTRACTOR shall be required to submit a written report containing the reason for failure to meet the performance standards even if the failure is due to one of the allowed exceptions as stated herein.
- d. CONTRACTOR shall submit monthly invoices that itemize the total invoice cost into scheduled PM task effort (set amount each month) and RS response effort (amount will vary based on actual effort performed each month).
- e. Preventative Maintenance Performance Requirements
  - 1) CONTRACTOR shall complete no less than ninety-eight percent (98%) of all Preventative Maintenance scheduled during the month. Percentages shall be calculated on the total number of Preventative Maintenance tasks scheduled for that month and the total number of Preventative Maintenance tasks fully completed in the month even if the scheduled maintenance is a monthly, quarterly, or annual maintenance requirement.
  - 2) Partial completion of a scheduled Preventative Maintenance item shall not meet this requirement and shall not meet the COUNTY'S standards of fully completed. Any month that falls below this level shall require a written justification from CONTRACTOR and measures shall be implemented to assure COUNTY staff that performance will improve.

- 3) For each percentage point below ninety-eight (98%) of total scheduled maintenance tasks that CONTRACTOR does not complete, CONTRACTOR'S monthly invoice PM amount shall be reduced by one thousand dollars (\$1,000.00), or any prorated portion thereof. For example, if the Maintenance Tracking System indicates that the Contractor performed ninety-six percent (96%) of all scheduled maintenance tasks, the Contractor's monthly invoice shall be reduced by two thousand dollars (\$2,000.00).
  - 4) Factors beyond the control of CONTRACTOR, such as unexpected delays in parts, delays due to accidents or damage created at no fault of CONTRACTOR, severe weather and unusual traffic volume during the holiday seasons shall be thoroughly documented in the Maintenance work order system and reported to COUNTY the next business day.
  - 5) COUNTY retains the sole determination authority to decide if the non-performance was beyond CONTRACTOR'S control and is a valid reason for non-performance.
- f. Repair Service Maintenance Performance Requirements
- 1) CONTRACTOR shall provide three methods of notification to be used for repair contact information. The methods of notification shall provide a means of tracking the date and time the message was delivered. Examples of documentable communication include online customer portal, cell phone, and e-mail.
  - 2) PARCS performance for the purpose of meeting prescribed requirements shall not be computed each month. However, if performance causes a noticeable decline in customer service or system use and reliability, COUNTY shall compute performance levels for these areas and submit a repair request to CONTRACTOR.
  - 3) CONTRACTOR shall respond in accordance with the response times defined in the Warranty section. Performance shall be calculated as the total number of

response calls returned to COUNTY within the response time, for example 30 minutes divided by the total repair notifications placed in one month. For each percentage point below 100% of total repair maintenance calls that CONTRACTOR does not respond to within thirty (30) minutes, CONTRACTOR'S monthly invoice shall be reduced by five percent (5%) of its RS invoice amount, and any prorated amount thereof. For example, if the Maintenance Tracking System indicates that the Contractor responded within thirty (30) minutes to ninety-eight percent (98%) of all repair maintenance calls, the Contractor's monthly RS invoice amount shall be reduced by ten percent (10%).

- 4) Resolution of the situation within four (4) hours after notification is required in all situations. A temporary solution is acceptable, subject to COUNTY approval, in the event replacement parts are not available in inventory. Performance shall be calculated as the total number of repair events resolved within four (4) hours divided by the total repair notifications placed in one (1) month. For each percentage point below one hundred percent (100%) of total repair maintenance calls that the Contractor does not resolve within four (4) hours, CONTRACTOR'S monthly invoice shall be reduced by five percent (5%) of its RS invoice amount, or prorated amount thereof, unless COUNTY agrees that there were factors beyond CONTRACTOR'S control that prevented them from performing. For example, if the Maintenance Tracking System indicates that the Contractor resolved 98% of all repair maintenance calls within 4 hours or less, the Contractor's monthly invoice shall be reduced by ten percent (10%).
- 5) Factors beyond the control of CONTRACTOR, such as unexpected delays in parts, accidents, severe weather, and unusual traffic, shall be thoroughly documented in the maintenance work order system and reported to COUNTY the next business day. COUNTY may grant relief for the service hour requirement after reviewing these factors.

- 6) COUNTY shall cooperate with CONTRACTOR to fully explore any concerns regarding service and performance standards.
- 7) COUNTY shall notify CONTRACTOR in writing of performance problems with respect to the service standards within twenty (20) days after the end of each month based on the performance reports from the maintenance tracking system.
- 8) CONTRACTOR shall be allotted thirty (30) days from receipt of notification from COUNTY to take corrective actions with respect to the problem identified by COUNTY, or may request relief.

### **III. PRODUCTS**

#### **A. Software**

CONTRACTOR shall adhere to the following requirements in its design and implementation of the PARCS:

1. CONTRACTOR shall provide all software and software licensing required by the system.
2. Unless specified elsewhere, CONTRACTOR shall provide the latest available software version at the time of system implementation for all third-party software.
3. CONTRACTOR shall make any necessary modifications, and provide documentation of such modifications, to existing third party software programs that CONTRACTOR adopts for the system. Should CONTRACTOR and the software manufacturer be separate entities, the software modifications shall not preclude the purchase of a standard maintenance and service contract from the manufacturer.
4. CONTRACTOR shall purchase software maintenance for all third-party software naming COUNTY as the software owner and contact. CONTRACTOR shall provide maintenance agreements throughout the duration of the warranty period.
5. CONTRACTOR shall provide any necessary perpetual licenses and/or authorization for all PARCS related software including,

but not limited to, operating systems, application software, development language, peripheral software, and PARCS hardware diagnostic software. If available, CONTRACTOR shall provide a site license to COUNTY, meaning usage of the license is unrestricted, regardless of the physical location where the software may be used.

6. CONTRACTOR shall provide licenses that cover future updates as required by these specifications.
7. CONTRACTOR shall deliver software documentation to COUNTY prior to commencing the SAT.
8. Database Management System
  - a. CONTRACTOR shall provide application software consisting of software to provide complete operation of the PARCS and include the database management system.
  - b. The PARCS shall maintain recorded data in files that are in Open Database Connectivity (ODBC) compatible formats.
9. Operating System Platform
  - a. Operating system software consisting of software to support system setup, system operation, routine hard drive backups, diagnostics, and other maintenance routines.
  - b. For a local / onsite server, the operating system shall be Windows Server 2019 or the latest available version.
  - c. For a non-URL based solution, the workstation's operating system shall be Windows 10 or the latest available version.
10. PARCS Application Software
  - a. CONTRACTOR shall install and configure all application software and firmware required by the PARCS with all software licenses registered to COUNTY.

- b. The most recent PARCS software version shall be installed at no cost to COUNTY prior to System Acceptance.
- c. PARCS software shall provide complete operation of the PARCS and includes the database management system.
- d. PARCS software shall be PA-DSS validated for new deployments according to PCI. CONTRACTOR shall maintain a valid PCI Report of Compliance and submit annually to COUNTY throughout the installation, Warranty, and Post-Warranty maintenance periods.
- e. The PARCS solution shall utilize a P2PE architecture that is listed on the PCI-approved website and operates in line with PCI/PA-DSS requirements. The PARCS solution shall not store any credit card information.
- f. CONTRACTOR shall provide the relevant System and Organization Controls (SOC) II report for IT security standards to submit annually.
- g. The PARCS shall be upgradeable to maintain PCI standards throughout the life of the system.
- h. PARCS software shall be browser-based, hosted, or a local client enabled such that the PARCS is accessible from any authorized SMF workstation connected to their network.
- i. The PARCS software shall operate across SMF's Local Area Network (LAN), accessible with the COUNTY-approved user ID and password, on all workstations authorized to access the PARCS software modules.
- j. Where the environment stores and transmits unencrypted credit card data, access controls shall utilize multi-factor authentication per Payment Card Industry Data Security Standard (PCI DSS) requirements. The PARCS shall not store or transmit unencrypted credit card data.
- k. PARCS software shall allow multiple groups and roles that govern individual access to the system. The assignment

of a group/role shall control access to the various modules of the PARCS, and define access permissions to edit information, or be view-only.

- l. Access rights to the system for the various groups and roles shall be defined prior to the FDR.
- m. PARCS application software shall provide the following:
  - 1) Management, display, and reporting of all PARCS-related activity as outlined in this functional specification.
  - 2) Automatic detection and reporting of fault conditions and equipment failures. Fault condition shall be categorized by severity and the PARCS shall display alarm notification on the system Graphical User Interface (GUI) as well as generate messages back to the COUNTY'S management system for any individual fault condition, category of fault, or COUNTY-defined selected group of faults.
  - 3) Support for network performance monitoring tools for monitoring all PARCS devices.
  - 4) Reporting as outlined in the Reporting section.
  - 5) Command Center functionality as defined herein with the ability to view the status of all equipment in a single screen.
  - 6) Audit trail for the use of central controls within the PARCS database by user ID, time, device-controlled and action taken.
  - 7) Configurable parking rates, grace periods, and time increment changes from system workstations. Configuration access shall be restricted to COUNTY-designated users with proper authorization.
  - 8) Audit trail for all parking rate, grace period and time increment changes.



- 9) Remote communication with all devices in real-time for a general broadcast of information (e.g., rate changes or time increment changes) or software update and an ability to communicate to a single device to upload information or software. It shall be possible to remotely shutdown a field device's operating system, upload updates, and remotely restart the field device.
- 10) Correct calculation and processing of parking fees during a transition:
  - i. From daylight savings time to standard time, and vice versa.
  - ii. At the beginning of March during leap years (e.g., when there is a February 29th).
  - iii. From one rate to another (e.g., rate has an effective date so that Customers are charged a parking fee based upon the parking fee that was current at the entry date and time, not the exit date and time, allow the new rate to be either less than or greater than the new rate).
- 11) The PARCS system time shall be automatically synchronized with SMF's Network Time Protocol server with a national or global time clock and be able to handle daylight savings time changes.
- 12) Programmable rate structure to establish variable rates based upon the time of day, day of week, and special events.
- 13) Programmable rate structure to establish daily/weekly/monthly maximum fees, grace times, and complimentary periods.
- 14) Programmable rate structure to allow configuration of the tax rate applied to parking fees.
- 15) Ability to reconcile credit card revenue collected through the PARCS to the clearinghouse bank deposits.

- 16) Ability to audit remote transaction processing activity by user to confirm manual inputs that impact the fee charged to the customer. This includes a detailed transaction report of remote transactions.
- 17) Create system generated alarms i.e., generation of alarms for a user selectable event type. Alarm hierarchy shall be completely configurable such that COUNTY can adjust priority of alarms, audible tones, where the alarms are sent, etc. Initial alarm hierarchy shall be coordinated with COUNTY during implementation.
- 18) Ability to export all query results and reports to multiple formats including Portable Document Format (PDF), comma-separated-value (.csv), and Microsoft Excel, etc.

## B. Reports

### 1. Reporting Requirements

- a. COUNTY shall have access to the PARCS database to download data directly or via an API.
- b. Reports for activity within a five (5) year timeframe shall be made available online and on demand for COUNTY personnel who have proper password access.
- c. Reports shall be viewable, printable, and exportable from the GUI to MS Excel and PDF formats.
- d. Data shall be compiled in an 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 file format.
- e. Provide CONTRACTOR'S standard reports including report descriptions, selectable data fields, and report layouts for all standard reports.
- f. Public parking data shall be separated by category, including but not limited to contract parking and hourly for reporting purposes.

- g. The PARCS shall provide ability to run report queries over extended periods of time without impacting system performance or taking an excessive amount of time to complete.
- h. COUNTY is the Merchant of Record (MOR) and shall contract with the EMV payment gateway provider. COUNTY shall align virtual midnights between PARCS, the payment gateway, the clearinghouse, and the COUNTY'S bank.
- i. At a minimum, reports provided shall include:
  - 1) Summary Revenue Reports for daily, weekly, monthly, and annual PARCS activity. Includes revenue and number of transactions by facility and in total. Includes payment methods – cash, credit card by brand, validations.
  - 2) Detailed Revenue Report – used for reconciling daily cash and credit card revenue. It is generated for selectable dates and includes the following information for each lane with totals by facility and a grand total of all facilities:
    - i. Lane ID
    - ii. Total number of exits
    - iii. Gross revenue
    - iv. Cash
    - v. Credit Card
    - vi. Prepaid at Pay stations
    - vii. Validations
    - viii. Other payment methods
  - 3) Credit Card Reports – Reports of credit card transactions by user selectable parameters including

date and time range, credit card type, transactions type (valid online transaction, declined transactions, offline transactions, etc.)

- 4) Remote Transaction Processing Reports – Provides a chronological list of transactions processed by remote user ID that required manual inputs to compute and/or reduce the parking fee.
- 5) Detail Transaction Report - Provides a chronological listing of each exit transaction for EX and pay station devices and includes all information related to the transactions including, at a minimum, the following information for each transaction:
  - i. Remote user ID for transactions completed by remote users
  - ii. Entry lane ID
  - iii. Entry date/time
  - iv. Exit lane ID
  - v. Exit date/time
  - vi. Entry media type (ticket, proximity card)
  - vii. Entry media sequence number
  - viii. Gross revenue
  - ix. Collected revenue
  - x. Payment method
  - xi. Prepaid amounts (e.g., pay station payment.)
  - xii. Validation type (e.g., office visitor)
  - xiii. Validation dollar amount
  - xiv. License plate number

- 6) Validation Reports – Detailed and summary reports of validations issued and used for a selectable date/time range.
  - i. Validation Issued Detail Report includes the date, time, device ID, validation value, and validation parameters (length of validation, where validation can be used, etc.) with report totals for the number of validations and validation value.
  - ii. Validation Issued Summary Report includes the total number issued and value by device ID.
  - iii. Validations Used Detail Report includes date, time, validation account, lane id, date, time, gross fee, validation amount, fee paid with grand totals of gross, validated amount, and fee paid columns.
  - iv. Validations Used Summary Report includes the total number of validations used by account with the total gross fees, validation amount, and fees paid.
- 7) System Event Reports – Reports for system generated events by user selectable parameters including PARCS device and date/time range.
- 8) Gate Vend Report – Report showing each gate vend, the location, time, user ID, comment/reason, and total for a date/time range. Provide a drop down for gate vend reasons that is included in the gate vend report. Report shall provide sorting by gate vend reason and be downloadable.
- 9) Lane Volume Report – Reports the number of entries or exit per lane per hour by parking facility/area. Hourly lane counts are reported for each individual lane on a single report, with an hourly total of all lanes.
- 10) Fee Band Report – Reports of the number of transactions for each fee increment for a selectable date/time range

- 11) Duration Report – Reports of the number of transactions for each time increment for a selectable date/time range. The first hour shall provide five (5)-minute time increments. Hours two (2) through eight (8) shall provide fifteen (15)-minute time increments, Hours nine (9) and over shall provide sixty (60)-minute time increments.
- 12) Occupancy Reports – Provides peak occupancy reports by hour and by parking product for a selectable date/time range.
- 13) Access Credential Reports – Detailed usage 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 and any transaction fee adjustments such as validations.
- 14) Access Credential Status Reports – Detailed report of all registered credentials and their associated status (active, blocked, expired, etc.).
- 15) CMS Accountholder Detail Reports – Accountholder registration details (name, address, vehicle information, etc.).
- 16) Transaction Counts – Each time an entry or exit occurs, the PARCS software shall increment a count of one (1). The report shall provide the number of entry and exit transactions for a selectable lane, area, parking facility, and/or all facilities for a selectable period.
- 17) Historical Receipts – Provides the ability to print duplicate receipts, identical to the original receipts and reproducible after the fact from a system workstation.
- 18) Valet Reports – Vehicle Inventory, Key Board Inventory, Checkout Ticket Report, Closed Ticket Report, Delivery report - includes dispatcher, gate number and key out time.
- 19) LPR Statistical Data - the LPR subsystem shall provide statistical information available for selected time, by

lane and facility. The data shall provide a sum total for all entry lanes and all exit lanes for each parking facility.

- i. LPR Capture – The LPR subsystem shall automatically extract the number of No Plate on Entry and No Plate on Exit transactions. The LPR subsystem shall provide the No Plate total for entries and exits and also provide a detailed list of each No Plate transaction for entries and exits.
- ii. LP Accuracy – The LPR subsystem shall provide a method for COUNTY to review and score the accuracy of each plate capture. The scoring tool shall automatically compute the number of transactions with one character error, two-character errors, three-character errors, etc., up to eight (8) character errors. The scoring tool shall compute the number of transactions that were unreadable due to no plate on the vehicle, stacked characters, or obstructed LP.
- iii. LPR Entries and Exits – The LPR subsystem shall provide the total number of all entry and exit transactions processed by the LPR subsystem.
- iv. Automated Exit Reviews – The LPR subsystem shall provide the number of exits that were automatically processed by the LPR subsystem (i.e., not sent for manual review).
- v. Manual Entry and Exit Reviews – The LPR subsystem shall provide the number of entry and exit transactions that were sent to the IRW for review, the total number of PARCS entries and exits, and the percentage of entry and exit reviews compared to total entries and exits.
- vi. Swapped Media – The LPR subsystem shall provide the total number of swapped media transactions and provide a detailed list of each Swapped Media transaction. The detail list shall include the sum total for the selected time period as well as the following:

- Fee computed based on the Swapped Media.
  - Actual correct fee charged based on the exit LP image.
  - Difference between the swapped fee and the actual fee.
- vii. Image Review Workstation (IRW) Timeouts - The LPR subsystem shall provide the total number of IRW Timeout transactions and a detailed list of Timeout transactions. The list shall be available by parking facility, by date/time, and/or by IRW user ID.
  - viii. No Plate on Entry - The LPR subsystem shall provide the total number of plates not captured at entry.
  - ix. No Plate on Exit - The LPR subsystem shall provide the total number of plates not captured at exit.
  - x. Exit No Matches - The LPR subsystem shall provide the total number of plates not matched at exit (not entry record found for the exiting plate).
  - xi. LPR to PARCS Transaction Analysis – Compares the number of transactions processed at entry and exit in the PARCS database to the number of transactions processed in the LPR database.

## 20) MLPI System Reports

- i. Reports shall accurately reflect all current data uploaded from all collection units.
- ii. Reports shall be capable of being run on demand or scheduled to be run periodically.
- iii. The MLPI reports shall be capable of being printed at any workstation.



- iv. MLPI Inventory Report
  - All license plates parked at SMF by zone, level, type, or parking facility.
  - Listing shall be alphanumeric by state and license plate number and shall list the license plate, state, space location, entry date, and number of days inventoried in the same space.
- v. MLPI Aged Vehicle Report - Vehicles parked greater than a configurable number of days.
- vi. Vehicles by State Report - Vehicles parked sorted by state.
- vii. Vehicles by Zone Report - All license plates parked within each sub zone (i.e., each floor) for each parking facility. Listing shall be alphanumeric by state and license plate number.
- viii. Inventory Value Report - Each parked vehicle's license plate number, state of registration, area of parking facility, row number, date of first appearance on LPD, and minimum fee due.
- ix. Disappeared Vehicle Report – Shows vehicles that were dropped from the inventory but are not recorded as exiting. Disappeared vehicle license plates listed alphanumeric by state and license plate number and including entry date.
- x. Reappeared Vehicle Report – Provides a list of vehicles that have been inadvertently skipped during inventory process. For example, a vehicle that is recorded for night #1, disappears for night #2, and then reappears in same parking space for night #3 is assumed to be parked for all three nights.
- xi. Event Logs

- The PARCS shall have the ability to filter and print events by type for a selectable time and selected facilities and/or devices. It shall include the date/time of event occurrence, date/time of log time (when the event was recorded in the PARCS), print communication messages, facility lane equipment alarms, manual and remote gate opening, PARCS configuration changes, system log on/off, entry activity, exit activity and all other PARCS events.
  - The event log shall include the ability to create a listing of changes to the PARCS and users who made changes.
- xii. CONTRACTOR shall provide and prepare up to ten (10) custom reports as defined and determined by COUNTY requirements on an as-needed basis. COUNTY and CONTRACTOR shall coordinate report design and finalize custom reports prior to the expiration of the warranty period. Custom report requests shall be limited to data contained within the PARCS database and third-party solutions provided by CONTRACTOR as part of the PARCS.

### C. Equipment and Subsystems

1. All equipment performing a like function and of the same part number shall be fully interchangeable without the requirement for physical modifications.
2. The PARCS shall provide device autonomy such that no single point of failure of a device causes an operational failure of surrounding devices.
3. Application and Data Servers
  - a. CONTRACTOR shall provide all relevant servers.

- b. CONTRACTOR shall provide centralized management of the PARCS.
- c. PARCS servers shall contain all PARCS application and database software that is associated with PARCS operation, data storage, and reports.
- d. CONTRACTOR shall install and configure all necessary software on the servers with all required system software licenses registered to COUNTY.

#### 4. Command Center Functionality

This section defines equipment monitoring, system alarms, equipment activation functionality, event log (which records all system events) and remote transaction processing.

##### a. General Requirements

- 1) The PARCS shall provide an online, real-time CCF that performs the following five (5) primary functions at a minimum:
  - i. Equipment Monitoring - Provides the status for each device and PARCS component.
  - ii. System Alarms - Notifies via selected alarms of device equipment status either online or offline and problem reporting.
  - iii. Event Log - Records PARCS activity and assigns each event a unique code so that event frequencies can be found.
  - iv. Equipment Activation Functions - used to operate devices remotely from the CCF workstation.
  - v. Remote transaction processing as defined in the LPR Image Review Workstation (IRW) section herein.

##### b. Equipment Monitoring Requirements

- 1) The CCF shall be a network of computers and servers that provide on-line monitoring and control of all PARCS equipment and parking events.
- 2) The CCF shall also use individual and/or multiple software packages.
- 3) All workstations shall have CCF software and shall have a GUI for ease of use.
  - i. The CCF shall provide a view of all parking facilities on one screen to view alarm notification, allowing high-level monitoring of the entire parking system.
  - ii. The CCF shall provide the ability to drill down from the global view to the device with alarm details.
- 4) At a minimum, the CCF shall monitor the following operational status of each entrance lane and display:
  - i. Lane status: Open or Closed
  - ii. Device status: Online and Offline
  - iii. Gate failure
  - iv. Gate stuck up
  - v. Low ticket supply
  - vi. Ticket out of stock
  - vii. Jammed ticket
  - viii. Illegal exit, reverse direction through lane
  - ix. Backout
- 5) At a minimum, the CCF shall monitor operational status of each exit lane and display:
  - i. Lane status: Open or Closed
  - ii. Device status: Online and Offline

- iii. Ticket and credit card jams
- iv. Gate failure
- v. Gate stuck up
- vi. Illegal entrance, reverse direction through lane
- vii. Backout
- viii. Low receipt paper supply
- ix. Low ticket supply
- x. Ticket out of stock

6) At a minimum, the CCF shall monitor operational status of each pay station and display:

- i. Device status: Online and Offline
- ii. Ticket and credit card jams
- iii. Low receipt paper supply
- iv. Low cash levels

c. System Alarms Requirements

- 1) An alarm function shall allow the system user to select which events to alarm and the priority assigned to alarms.
- 2) Alarms can be displayed on a workstation or sent to an authorized user via email or text message.
- 3) Abnormal status conditions shall be flashed on monitor(s) and accompanied with an audible alarm.
- 4) Display shall continue to flash until abnormal condition is corrected. Audible alarm shall continue until it is turned off by a command issued from a PARCS monitoring workstation.

- 5) Acknowledgement and turning off any alarm condition shall be able to be performed at any workstation with access to CCF.
- 6) It shall not be necessary to acknowledge alarm condition at every workstation.
- 7) The CCF shall record abnormal status condition and acknowledgement of alarm condition by time, workstation, and operator.
- 8) Authorized users shall see and be able to manage alarms.
- 9) Alarms shall be selectable as visual, audible, or both.

d. Event Log Requirements

- 1) The CCF shall record all system events that can be viewed on a workstation or printed.
- 2) The CCF shall record specific information and details for changes to system configurations including type of change, date/time, and user ID.
- 3) The CCF shall provide the ability to sort the events by activity code facility, and/or device ID and generate a report listing the details of each event (Time, location/device ID, event description) and the total of sorted codes (i.e., how many occurrences there were for the selected code) for the selected report period.
- 4) When generating an event report, the CCF shall provide a drop-down menu of all alarms to select for the report. The drop-down menu shall be organized alphabetically or by alarm code.

e. Equipment Activation Functions

- 1) The CCF shall allow the following functions to be performed from a workstation:
  - i. Device in/out of service

- ii. Open/close a barrier gate including at the facility level for emergencies.
- iii. Barrier gate vend – barrier gate opens at CCF and closes when vehicle crosses the closing loop.
- iv. For barrier gate open/close and vends:
  - The CCF shall provide a drop-down field to select up to six (6) COUNTY-defined reasons for a remote barrier gate vend or user-enterable field.
  - Remote barrier gate vends made from workstations shall the record location, time, user ID, and reason for barrier gate vend.
  - Manual gate vends made locally at the lane shall be recorded as an event in the Event Log and assigned a unique code different from remove gate vends.
  - The PARCS shall provide the total number of remote and local gate vends by facility, lane, or user ID for a selectable time, a selectable comment field for remote commands to enter reason/comment by the issuing attendant and drop-down pre-populated selections for most common reasons. The PARCS shall report comments associated with actions in the reports.

f. Remote Transaction Processing Requirements

1) Remote transaction processing shall provide the ability to process lost and unreadable tickets remotely as follows:

- i. LPR lookup finds the entry date/time of the vehicle in the exit lane, automatically computes the fee, and sends it to the exit station. User shall not be required to manually type in any transaction information (lane number, LPN).

ii. If the license plate is not found in the LPR system, the Control Center attendant shall be able to:

- For a lost or stolen ticket - Input an entry date/time for which the system automatically computes the fee and sends it to the exit lane, or select the Lost Ticket fee option to send a full day rate to the exit station.
- For an unreadable ticket - Input the ticket number for which system finds the entry date, automatically computes the fee, and sends it to the exit station.
- If no LPR or ticket number is found, the Control Center attendant shall be given the option to send a fee from the workstation to the exit lane and include an input field to explain the fee charged.

2) The PARCS shall provide a report of all transaction detail for transaction requiring manual input of an entry date, fee, and/or validations for each remote cashier by shift. Transaction details include entry/exit times, lane ID, dollar total fee, dollar validation, name of validation, and transaction type (lost, unreadable).

5. Credential Management System (CMS) for Airport Employees and Tenants

a. The CMS shall manage accounts, access rights, and fees, if applicable, for the following users:

- 1) Retail employees
- 2) Office tenant employees
- 3) COUNTY employees
- 4) VIPs



- b. The CMS primary access credential shall be the license plate number. If the license plate number is not read successfully, a proximity card shall be the secondary access credential.
- c. Permit holders shall pay monthly by either a credit card on file or are invoiced.
  - 1) The PARCS shall provide a credit card on file feature with automatic access shut off for expired or declined credit cards on file.
  - 2) The COUNTY parking operations team shall manage the invoicing system for invoiced permit holders and shall manually shut off permit access for delinquent accounts.
- d. CMS features shall include:
  - 1) Accounts with a limited number of credentials allowed in the parking facilities at one time. Access is blocked for account credentials exceeding the allowed number or access is allowed and contracted rates are charged for credentials exceeding the allowed number.
  - 2) Activate or deactivate a credential in the PARCS without having physical custody of the credential.
  - 3) Set access restrictions by facility, master account, sub account, and individual credential for time of day and day of week parameters.
  - 4) Provides hard and soft passback control set by individual credential, group, and facility.
  - 5) Can reset credential status for individual, group, and by facility.
  - 6) Interface with SMF's security badging system.
  - 7) Interface with PARCS to check credential validity at the time of entry.

- 8) Record all card usage including the lane ID, entry/exit date/time, credential number, and parking fee, if applicable.
- 9) Monthly/quarterly, annual permit rate structure with restricted day/times.
- 10) PARCS rate structure for transient parkers shall also be available to be applied to access credentials.
- 11) Flat rate/penalty for use during restricted times.
- 12) Variable rates for use during restricted times.
- 13) Store customer credit cards on file (encrypted/tokenized) for recurring payment and pay-per-use charges after exiting in near-real time.
- 14) Automatic notification to permit holder annual renewals and bankcard on file expiration date.

#### 6. Credit Card Processing Subsystem

- a. CONTRACTOR shall provide a PCI-compliant credit card processing subsystem such that no CONTRACTOR-provided product or solution will prevent COUNTY from achieving and maintaining PCI Compliance at Unison.
  - 1) All software developed by the CONTRACTOR that stores, processes, and/or transmits a Primary Account Number (PAN) shall fully comply with the most current version of PCI DSS. All software shall be developed and maintained in accordance with all requirements of PCI DSS to ensure a vulnerability management program is in place. Such compliance shall be maintained with the then-current version of PCI DSS throughout the Term of this Agreement.
  - 2) If the software or hardware proposed as part of the solution is eligible for validation under the current version of the Payment Application Data Security Standard (PA-DSS), such validation shall be obtained and maintained throughout the Term of this Agreement. Such evidence of validation shall be

provided by CONTRACTOR not more than thirty (30) days after the effective date of this Agreement.

- 3) If CONTRACTOR'S solution includes encryption functionality built into the solution, the solution shall Ensure that the solution is validated in accordance with the PCI Security Standards Council Point-to-Point Encryption (P2PE) program, which validation shall remain current throughout the Term of this Agreement.
- b. The PARCS credit card processing application must be PCI validated to the latest version of PCI for use in new deployments and upgradable to maintain current standards throughout the life of the system at no cost to COUNTY.
  - c. CONTRACTOR shall configure the 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.
  - d. Processing redundancies shall be built into the system by CONTRACTOR.
    - 1) CONTRACTOR shall provide a system such that processing credit card transactions shall not degrade the time allowed for positive authorizations.
    - 2) The PARCS shall process and store credit card transactions at each field device that accepts credit cards while in an offline mode due to a communication loss. These transactions shall be assumed to be approved to provide the customer with a receipt.
    - 3) Each payment device shall be capable of processing and storing credit card transactions in a PCI compliant manner during a communication loss regardless of where in the network the communication loss occurs.
    - 4) Each credit card processing device shall provide storage capacity for at least 2,500 offline transactions.

- 5) Once communication is reestablished, the system shall forward authorization for all credit card transactions that were processed while offline.
  - 6) If a credit card transaction is denied, the Airport shall receive notice of such denial and the denial shall be recorded in the PARCS database and reflected on the PARCS reports.
- e. The PARCS shall accept the following types of credit card payments through contact and contactless means:
    - 1) VISA
    - 2) MasterCard
    - 3) American Express
    - 4) Discover
    - 5) Bank debit cards bearing the credit card logos above
  - f. The PARCS shall provide EMV enabled credit card processing.
  - g. The PARCS shall provide NFC enabled credit card processing.

## 7. Intercom Subsystem

- a. CONTRACTOR shall provide and install a VoIP intercom system for two-way communication between the PARCS field devices and the parking office command center.
- b. CONTRACTOR shall provide and install VoIP intercoms at all entry lanes, exit lanes, and pay stations.
- c. CONTRACTOR shall integrate intercom system with device pinhole cameras for entry stations, pay stations, and exit stations such that when an intercom is answered at a workstation, the pinhole camera feed of the associated lane's camera automatically populates on the answering attendant's workstation monitor.

d. The intercom system shall be a fully digital, microprocessor based, enhanced high-definition voice audio quality modular design utilizing VoIP.

e. The intercom system shall provide noise cancelation.

~~f. The intercom shall have ability to record audio.~~

~~g.f.~~ \_\_\_\_\_ CONTRACTOR shall provide and install intercom base stations in the parking office as indicated in Exhibit F.

~~h.g.~~ \_\_\_\_\_ The intercom system shall have the ability to queue calls and view all queued calls at the identified location.

~~i.h.~~ \_\_\_\_\_ The intercom system includes all software and hardware required for programming system, including:

- 1) Individually programmable volume control for each intercom station.
- 2) Substations programmed to call COUNTY-designated telephone numbers.
- 3) Call forwarding feature for individual stations or all stations to re-direct calls to another COUNTY-designated telephone phone number.

~~j.i.~~ PARCS field device intercom substation requirements:

- 1) CONTRACTOR shall provide and install push button intercoms at all entry lanes, exit lanes and pay stations.
- 2) Intercoms shall consist of a microphone, loudspeaker, and in-use indicator LED, all housed in one unit with configurable front pushbutton control.
- 3) Intercoms shall provide full speaker/microphone supervision and fully adjustable (volume/timing threshold programmable via intercom server) audio monitoring.

## 8. Entry Station (ES)

- a. CONTRACTOR shall provide and install Entry Stations (ES) at the public entry lanes and test bed, as indicated in Exhibit F.
- b. CONTRACTOR shall provide ES equipped with the following components and capabilities:
  - 1) Access door with appropriate tamper-resistant locking system.
  - 2) Color, touchscreen display with minimum 7" display, measured diagonally.
    - i. The display shall utilize visual instructions for customers to understand the sequence of events to complete a transaction.
    - ii. All text and instructions in English or other approved language(s) with universal icons and graphics. Displays shall include a customer interface with two user-selectable languages at a minimum, including English and Spanish.
  - 3) Utilizes a push button or touchscreen icon-activated ticket dispenser which issues one barcode parking ticket for each ticketed entry transaction. Tickets shall include:
    - i. Unique entry lane identification number printed onto each ticket.
    - ii. Printed date, time, transaction number, and license plate number on each ticket.
    - iii. Printed "Scan to Pay" QR code to allow ticket to be scanned by a mobile device and paid via web-based payment portal.
  - 4) Barcode reader integrated into the face of the ES capable of reading standard barcodes and QR codes from physical printed media and electronically displayed on a mobile device

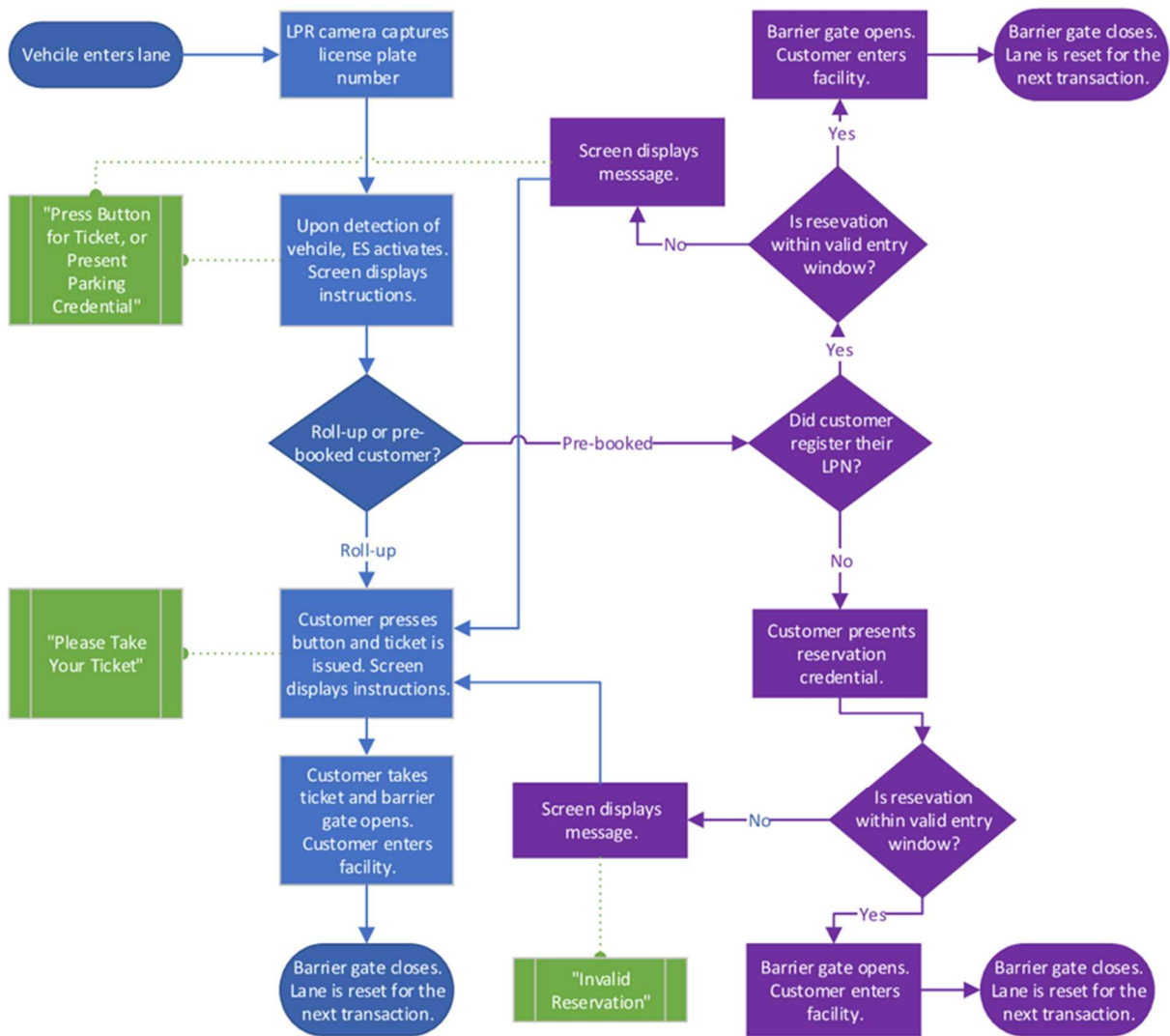
- 5) Insertion-style and NFC-enabled credit card reader that:
  - i. Accepts magnetic stripe credit and debit cards.
  - ii. Accepts EMV chip credit and debit cards.
  - iii. Accepts NFC tap credit and debit cards.
  - iv. Accepts NFC enabled mobile devices, payments accepted from Apple Pay, Android Pay, and Samsung Pay at a minimum.
  - v. Accepts payments from American Express, Discover, MasterCard, and Visa.
  - vi. Is P2PE Certified.
- 6) Supports credit card in/credit card out functionality.
- 7) Proximity card reader that reads and verifies RFID credentials.
- 8) NFC reader the reads and verifies NFC credentials.
- 9) Bluetooth reader the reads and verifies Bluetooth credentials.
- 10) Push button/touchscreen-activated VoIP intercom integrated into the face of the ES.
- 11) Offline functionality, which shall:
  - i. Allow the ES to operate independently when there is a temporary network communication failure.
  - ii. Store all transactional data and upload to the PARCS application upon restoration of network communication.
  - iii. Have ability to store credit card authorization requests and forward stored transactions for approval upon restoration of network

communication. [Or a cellular communication backup if proposed]

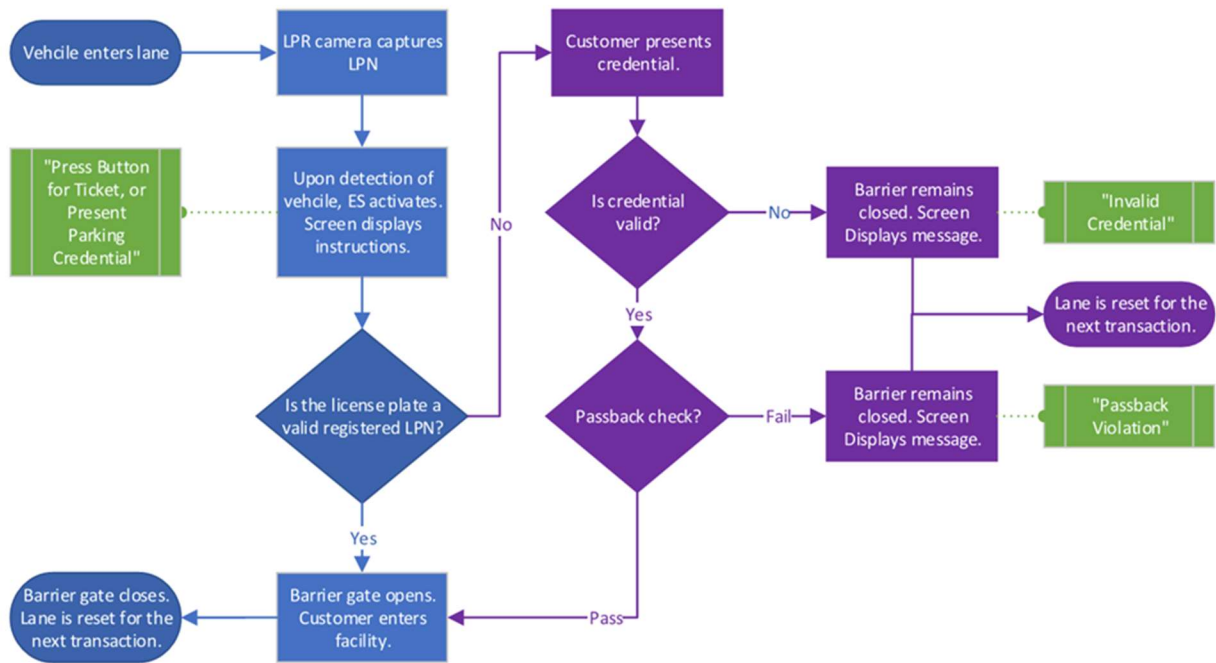
- iv. Generate alarm for ES offline condition to be displayed in PARCS application.
- 12) Automatic generation of low ticket stock alarm in the PARCS application.
  - 13) Automatic generation of empty ticket stock alarm in the PARCS application.
  - 14) Pinhole camera with integration to PARCS workstations such that the camera view is activated on the workstation display screen automatically when intercom call is answered by the operator.
  - 15) Interfaces with LPR camera, lane status sign, BG, and vehicle detectors in the respective lanes.
- c. The PARCS system shall use the following workflows for entry use cases:
    - 1) Normal Entry – Public Customer

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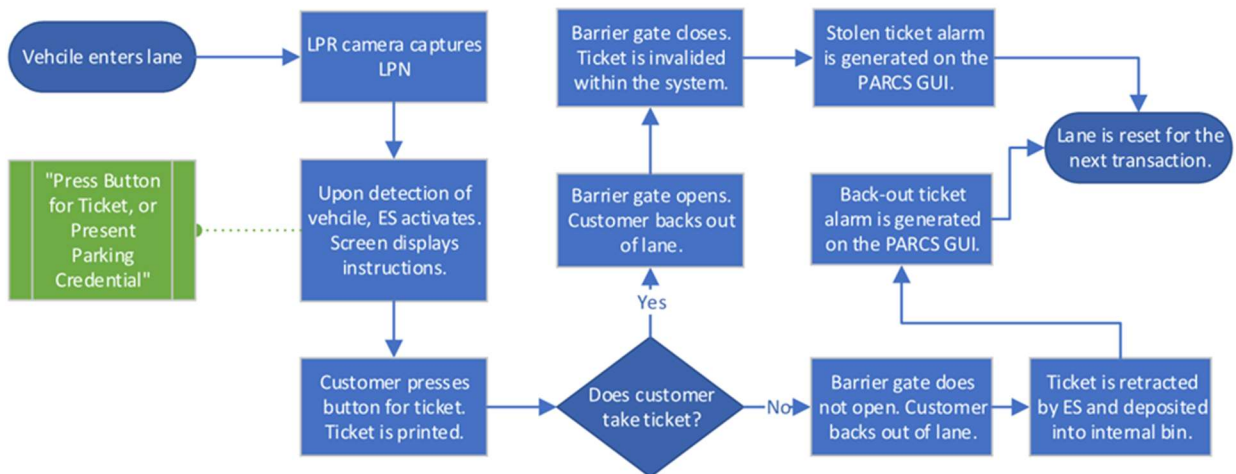




## 2) Normal Entry – LPR/Barcode/QR Code/Proximity Card/Bluetooth/NFC Credentials



## 3) Entry Exception Transactions



## 9. Cash/Credit Card Pay Stations

- a. CONTRACTOR shall provide and install Cash/Credit Card pay stations in the parking facilities and test bed, as indicated in Exhibit F.
- b. CONTRACTOR shall provide and install pay stations equipped with the following components and capabilities:
  - 1) Access door with appropriate tamper-resistant locking system
    - i. Access door shall require a key to open the Pay on Foot (POF) Station access door with all POF keyed alike. Once the access door is opened, a password entry or other access control as approved by COUNTY shall be completed within a user selectable time frame (in minutes) before an alarm shall be initiated.
    - ii. The PARCS shall log when a POF cabinet has been opened or closed with date and time recorded in real-time on the system event log.
  - 2) Color, touchscreen display with minimum 7" display, measured diagonally.
    - i. Displays shall utilize visual instructions for customers to understand the sequence of events to complete a transaction.
    - ii. Displays shall have a cancel button that allows a customer to cancel a transaction once a parking ticket has been inserted or scanned.
    - iii. All text/instructions shall be in English or other approved language with universal icons and graphics; Customer interface shall have two user-selectable languages at a minimum, including English and Spanish.

- 3) Colors for the POF, all text, and graphics shall be configurable and approved by COUNTY prior to manufacturing and implementation.
- 4) Barcode reader integrated into the face of the POF capable of reading standard barcodes and QR codes from physical printed media and electronically displayed on a mobile device.
- 5) Insertion-style and NFC-enabled credit card reader that:
  - i. Accepts magnetic stripe credit and debit cards.
  - ii. Accepts EMV chip credit and debit cards.
  - iii. Accepts NFC tap credit and debit cards.
  - iv. Accepts NFC enabled mobile devices, payments accepted from Apple Pay, Android Pay, and Samsung Pay at a minimum.
  - v. Accepts payments from American Express, Discover, MasterCard, and Visa.
  - vi. Is P2PE Certified.
- 6) Push button/touchscreen-activated VoIP intercom integrated into the face of the POF.
- 7) Recycling bank note acceptor capable of accepting all U.S. bank note types in circulation at time of Agreement commencement and is user upgradable as new bank note types are released. The acceptor shall:
  - i. Accept all legal variations of U.S. bill types in denominations of \$1, \$5, \$10, \$20, \$50, and \$100.
  - ii. Have a bill escrow feature.
  - iii. Utilize a self-locking bank note acceptor vault.
  - iv. Compute and dispense change via \$1, \$5, and \$10 bills.

8) Ability to process split payment transactions, i.e. the customer can insert partial cash payment and the amount due shall be reduced accordingly. Then the remaining amount due can be paid via credit card.

9) Offline functionality

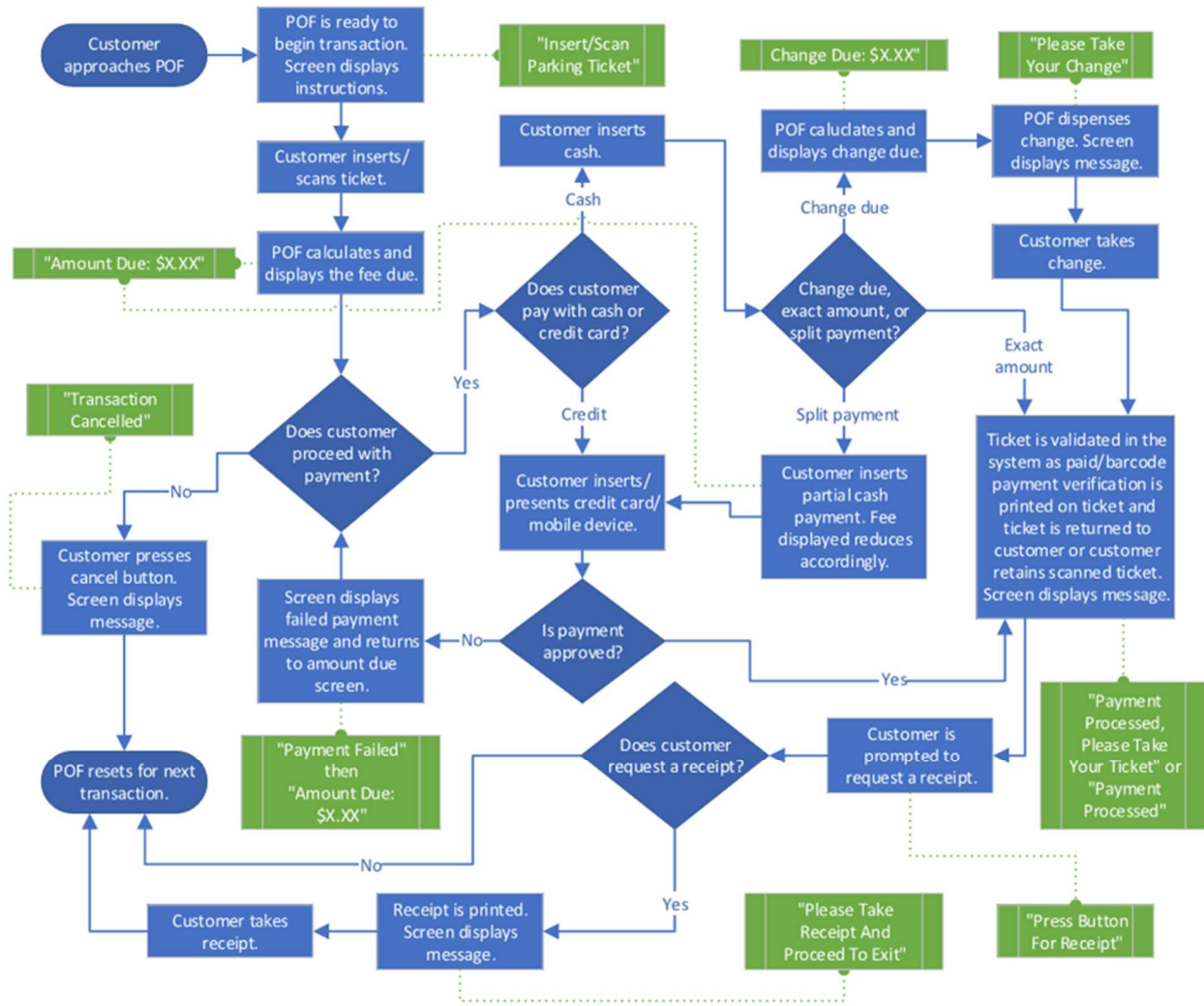
- i. POF shall be capable of operating independently when there is a temporary network communication failure.
- ii. POF shall store all transactional data and upload to the PARCS application up restoration of network communication.
- iii. POF shall have the ability to store credit card authorization requests and forward stored transactions for approval upon restoration of network communication. [Or a cellular communication backup if proposed]
- iv. Alarm for POF offline condition shall be displayed on the PARCS GUI.
- v. Receipt printer that is capable of producing receipts for all transactions
  - Upon successful payment, the PARCS prints a receipt that includes:
    - COUNTY-approved header.
    - Transaction number.
    - POF number.
    - Entry date/time and Exit date/time.
    - Length of stay.
    - Parking fee.

- Validation/discount amount, if applicable.
- Cash amount paid, if applicable.
- Change due, if applicable.
- Credit card amount paid, if applicable.
- Credit card type, if applicable.
- Last 4 digits of credit card number, if applicable.
- CC Auth code, if applicable.
- User configurable for receipts to be auto-issue or by request.
- Automatic generation of receipt stock low alarm in PARCS application.
- Automatic generation of receipt stock out alarm generated in PARCS application.
- vi. Pinhole camera with integration to PARCS workstations such that the camera view is activated on the workstation display screen automatically when intercom call is answered by the operator.

10) The PARCS shall use the following workflows for POF Use Cases:

- i. Normal POF Transaction

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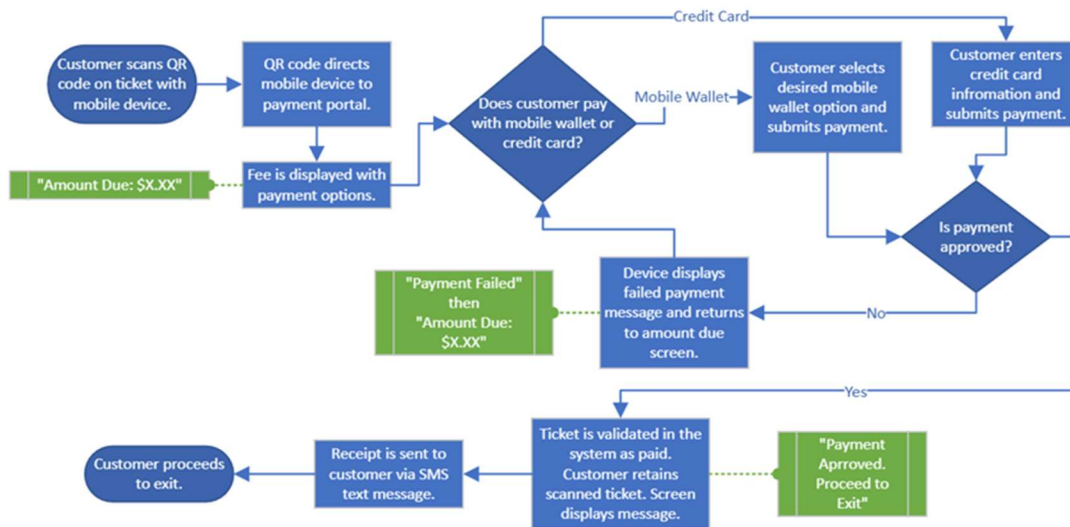
## 10. Credit Card POF Pay Stations

- a. CONTRACTOR shall provide and install Credit Card POF in the parking facilities and test bed, as indicated in Exhibit F.
- b. Credit Card Only POF shall have the same features and functions as the Cash/Credit Card paystations with the exception of the cash-related features and functions.

## 11. Scan-to-Pay Functionality

- 1) CONTRACTOR shall provide a scan-to-pay solution that allows customers to scan a QR code printed on the parking ticket with a mobile device and pre-pay their parking fee prior to approaching the exit lanes.

- 2) QR code scan shall automatically direct the internet browser on the mobile device to an on-line payment portal.
- 3) Payment portal shall be an adaptive website that automatically adjusts to the screen on any mobile device or tablet.
- 4) Customer shall not need to download a mobile application.
- 5) Payment portal shall provide the ability for customers to enter their email and/or mobile number to receive receipts for parking payments.
- 6) All scan-to-pay revenue and activity shall be reported through the PARCS.
- 7) The PARCS shall use the following workflow for Scan-to-Pay functionality:



## 12. Exit Stations (EX)

- a. CONTRACTOR shall provide and install Exit Stations (EX) at the public exit lanes and test bed, as indicated in Exhibit F.



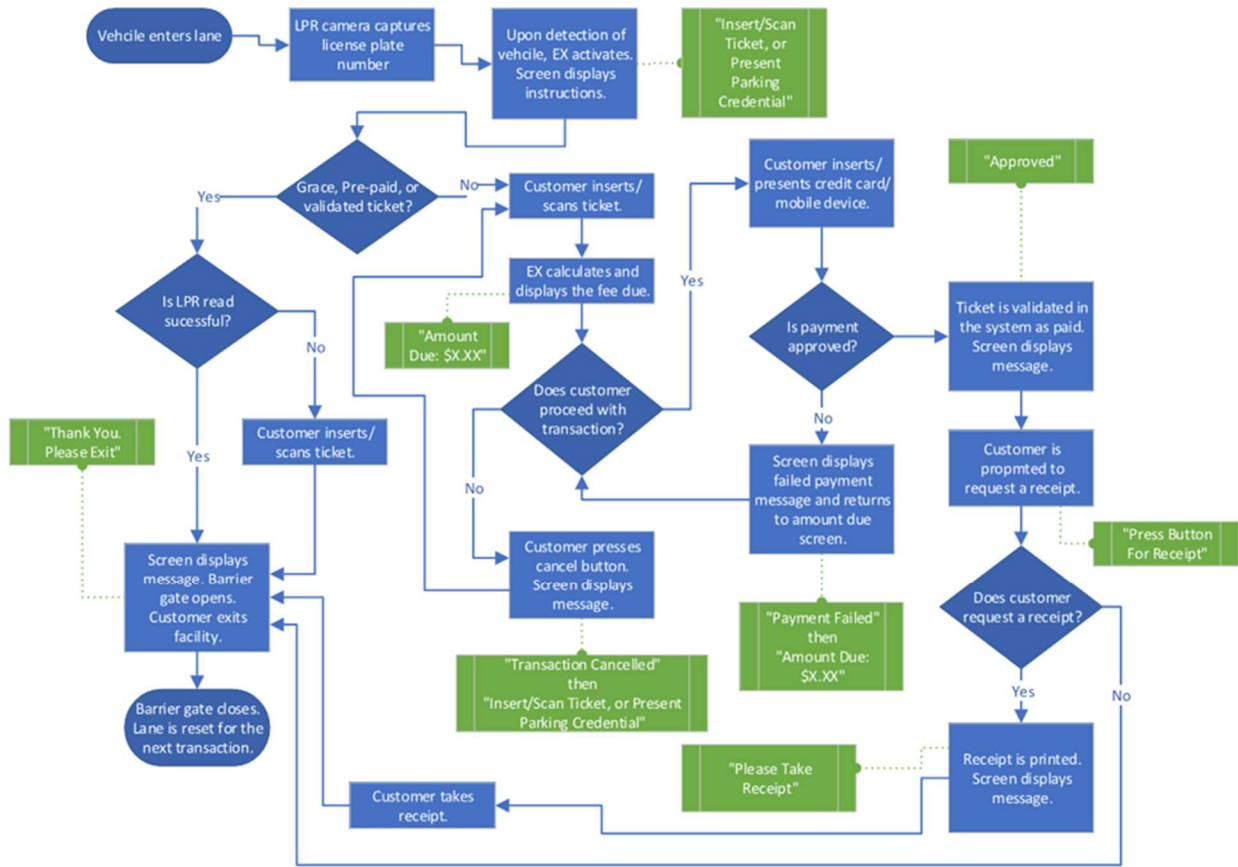
b. CONTRACTOR shall provide and install EX equipped with the following components, capabilities, and features:

- 1) Access door with appropriate tamper-resistant locking system.
- 2) Color, touchscreen display with minimum 7" display, measured diagonally.
  - i. Displays shall utilize visual instructions for customers to understand the sequence of events to complete a transaction.
  - ii. All text and instructions shall be in English or other approved language(s) with universal icons and graphics. Customer interface shall have two user-selectable languages at a minimum, including English and Spanish.
- 3) Colors, all text, and graphics for the EX, shall be configurable and approved by COUNTY prior to manufacturing.
- 4) Ticket transport mechanism, or external barcode reader which reads and verifies unpaid, paid, and validated tickets.
- 5) Barcode reader integrated into the face of the EX capable of reading standard barcodes and QR codes that are physically printed on paper media or electronically displayed on a mobile device screen.
- 6) Insertion-style and NFC-enabled credit card reader that:
  - i. Accepts magnetic stripe credit and debit cards.
  - ii. Accepts EMV chip credit and debit cards.
  - iii. Accepts NFC tap credit and debit cards.
  - iv. Accepts NFC enabled mobile devices, payments accepted from Apple Pay, Android Pay, and Samsung Pay at a minimum.

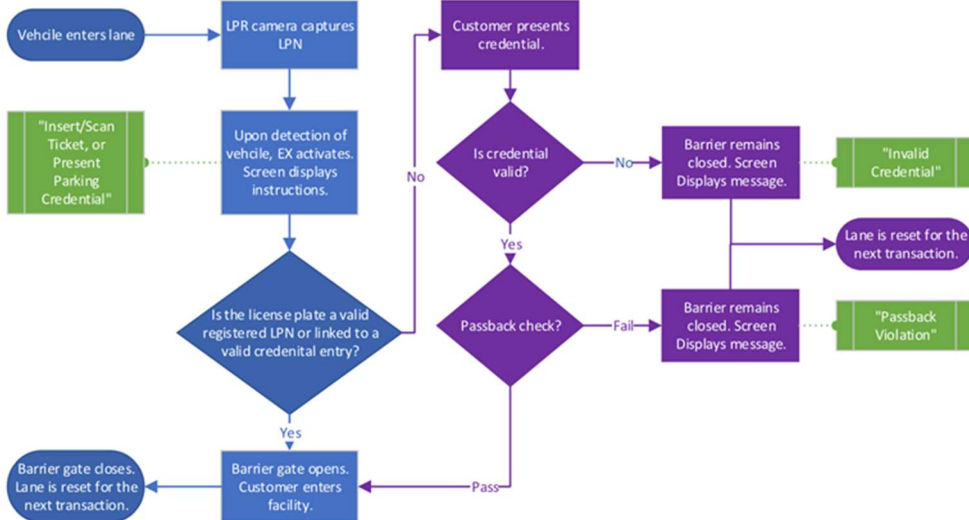
- v. Accepts payments from American Express, Discover, MasterCard, and Visa cards.
  - vi. Is P2PE Certified.
- 7) Supports credit card in/credit card out functionality.
  - 8) Proximity card reader that reads and verifies RFID credentials.
  - 9) NFC reader that reads and verifies NFC credentials.
  - 10) Bluetooth reader that reads and verifies Bluetooth credentials.
  - 11) Cancel button/touchscreen icon.
  - 12) Push button/touchscreen-activated VoIP intercom integrated into the face of the EX.
  - 13) Offline functionality that shall:
    - i. Allow the EX to operate independently when there is a temporary network communication failure.
    - ii. Store all transactional data and upload to the PARCS application up restoration of network communication.
    - iii. Be able to store credit card authorization requests and forward stored transactions for approval upon restoration of network communication. [Or a cellular communication backup if proposed]
    - iv. Generates alarm for EX offline condition to be displayed in PARCS application.
  - 14) Receipt printer that is capable of producing receipts for all transactions.

- i. Upon successful payment, print a receipt that shall include:
    - Owner approved header.
    - Transaction number.
    - Exit lane number.
    - Entry date/time and Exit date/time.
    - Length of stay.
    - Parking fee.
    - Validation/discount amount, if applicable.
    - Payment type.
    - Credit card type.
    - Last 4 digits of credit card number.
    - Credit Card Authorization code.
  - ii. Receipt printing shall be ser configurable for receipts to be auto-issue or by request.
  - iii. The PARCS shall automatically generate low receipt stock alarms in the PARCS application.
  - iv. The PARCS shall automatically generate empty receipt stock alarms in the PARCS application.
- 15) Pinhole camera with integration to command center workstations such that the camera view is activated on the workstation display screen automatically when intercom call is answered by the operator.
- 16) Interfaces with LPR camera, lane status sign, BG, and vehicle detectors in the respective lanes.
- c. The PARCS shall use the following workflow for EX functionality:

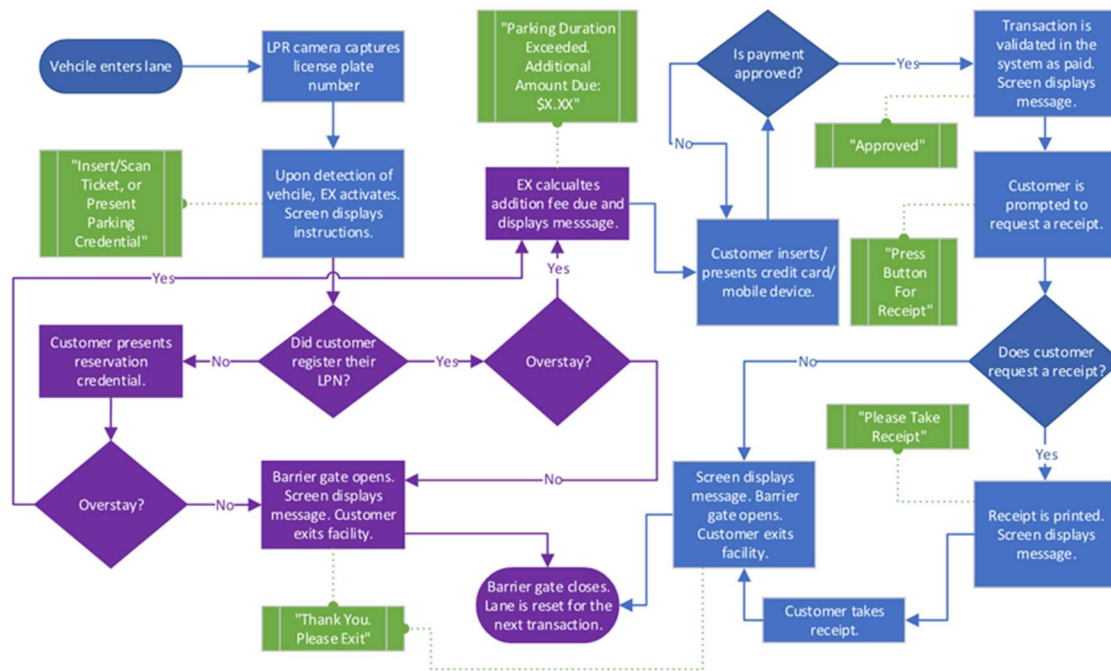
## 1) Normal Exit – Transient Customer



## 2) Normal Exit – Registered LPN/Barcode/QR Code/Proximity Card/Bluetooth/NFC Credential:



### 3) Normal Exit – Pre-booked Customer:



### 13. Barrier Gates (BG)

- a. CONTRACTOR shall provide and install articulating Barrier Gates (BG) at all entry and exit lanes, as indicated in Exhibit F.
- b. All gates referenced in this specification section shall contain the following:
  - 1) Aluminum or fiberglass gate with padded arm, straight arm or articulating arm as indicated in Exhibit F.
  - 2) Electronically controlled rebound feature.
  - 3) A switch to manually open and close the barrier arm, located inside the barrier gate housing.
  - 4) Single piece gate arm or articulated as required by height limitations.
- c. The BG shall have enough power or resistance to ensure they cannot manually be forced open.

- d. CONTRATOR shall provide and install gate controllers with the following features and functionalities:
  - 1) Microprocessor controlled with communication of gate status and functions sent to the PARCS workstations.
  - 2) Directional logic with electronic outputs to alarms, counters, and reporting of atypical lane activity to the PARCS.
  - 3) Ability to test gate operability and controller programming on-site without use of special diagnostic equipment.
  - 4) "AUTO-MANUAL" switch, and "ON-OFF" switch for gate.
  - 5) Contains power supplies, dust-proof relays, and other circuit components to control gate.
  - 6) Receives inputs from the ES, Pay station, or EX and opens after receiving the appropriate signal and closes after the vehicle passes over the closing loop.
  - 7) Receives commands from the PARCS workstations for remote opening and closing of the BG.
- e. The BG installed at all lanes shall default to the open position in the event there is a power failure.

#### 14. Vehicle Detection Devices (Loops)

- a. CONTRACTOR shall remove and replace existing loops in all locations.
- b. CONTRATOR shall provide and install new loops.
- c. Loop detectors shall detect vehicular presence, legal entry, legal exit, illegal exit, illegal entry, and back-out.
- d. Loop detectors shall detect and block processing of stolen tickets in both "ABA" and "ABCBA" loop activation sequences.

- e. Each public entry lane shall contain three (3) vehicle detection loops. Entry lanes shall have one (1) loop for triggering the LPR camera, (1) one loop for activating the ES, and one (1) BG closing loop.
- f. Each public exit lane shall contain three (3) vehicle detection loops. Exit lanes have one (1) loop for triggering the LPR camera, one (1) loop for activating the EX, and one (1) BG closing loop.
- g. Loop detectors shall be dual channel detectors.
- h. Loop detectors shall provide two (2) channel pulse and presence outputs.
- i. Loop detectors shall provide separate, momentary contact closures upon detection of a vehicle, along with continuous contact closures during the period that the vehicle is detected.
- j. Loop detectors shall contain two fully separate, self-tuning, vehicle loop detectors and directional logic circuitry.
- k. Loop detectors shall incorporate a sensitive tailgate recognition system capable of resolving two (2) automobiles within one (1) foot of each other on a standard 2.5 ft x 6 ft loop.
- l. Loop detectors shall each have adjustable sensitivity modes.
- m. Different sensitivity settings shall allow vehicles of varying height and size to be properly detected.
- n. Loop detectors shall be fully microprocessor-based.
- o. Loop detectors shall generate two loop frequencies. No two frequencies shall be the same to minimize the possibility of detector crosstalk or interference between two detector loops mounted within close proximity. Detectors generating an identical frequency are unacceptable.

- p. Loop wire shall be #14 or #16 American Wire Gauge (AWG) stranded wire with Cross Linked Polyethylene (XLPE) cable insulation.

15. PARCS Workstations

- 1) The PARCS shall be accessible on a web-based browser.
- 2) CONTRACTOR shall provide and maintain all PARCS workstation software to the latest versions.
- 3) Each workstation shall be used for CCF, LPR image reviews, pinhole camera views and reports.

16. Access Credential Management System (ACMS)

- a. CONTRACTOR shall provide an ACMS application that allows COUNTY to issue access credentials to vendors/contractors.
- b. The ACMS shall accommodate multiple access credential types for users including:
  - 1) AVI transponders.
  - 2) Proximity cards.
  - 3) QR codes.
  - 4) License plate number.
- c. The ACMS shall provide the following features:
  - 1) Account management features to assign an access credential to master accounts with individual detail.
  - 2) Send emails to a customer group.
  - 3) Timed nested areas with violations alerts and reports.
  - 4) Allows multiple access credentials to be registered but only allows one in a parking facility at a time.



- 5) Accounts with a limited number of credentials allowed in the parking facilities at one time. Access is blocked for account credentials exceeding the allowed number or access is allowed.
- 6) Set access restrictions by facility, master account, sub account, and individual credential for time of day and day of week parameters.
- 7) Setting of unlimited in/out privileges with no restrictions, and the ability to set day and time restrictions.
- 8) Manages the lifecycle of an individual credential, beginning with the credential inventory, credential issuance, and ending with the deactivation or replacement of the credential.
- 9) Requires PARCS users to enter authentication information (login/password) to access the system.
- 10) Fully integrated with the PARCS, so that under normal operations, the PARCS can activate and deactivate a COUNTY-issued access credential and block lost or stolen credentials from further use.
- 11) Access credential activation, deactivation, and blocking shall be recognized in the lane immediately upon performing such action at the PARCS workstation.
- 12) Securely activate and personalize an access credential.
- 13) Allow authorized users with computer (via a browser) to create accounts and activate/deactivate credentials.
- 14) Allow account settings to be changed for a credential.
- 15) Record all card usage including the lane ID, entry/exit date/time, and credential number, passback status.
- 16) Retain credential account and activity history after the credential is deactivated and re-issued to a different user.

- 17) Provide ability to have master accounts with sub-accounts.
- 18) Set access restrictions by facility, master account, sub-account, and individual credential for time of day and day of week parameters.
- 19) Provide passback functionality with two settings as follows:
  - i. Neutral Passback – allows access regardless of the in/out status of the access credential.
  - ii. Hard Passback – does not allow entry/exit if access credential in/out sequence is violated and records the passback violation in the system and in a passback violation report.
- 20) Assign passback setting (neutral or hard) by master account, subaccounts, individual credential, and by facility.
- 21) Provide the ability to reset the access credential status for individual access credentials, by group, and by facility.
- 22) Record and report all card activity data including the lane ID, entry/exit date/time, credential number, and passback status.
- 23) Generate a record of all activity related to a master account or an individual credential in the ACMS database for a selectable time.
- 24) Troubleshoot faulty credentials. Allow quick look-up of the credential status, credential lane activity and payment history to determine if the gate is not vending due to passback violation, inactive status, or payment issues.
- 25) ACMS software shall have, at a minimum, the following data input fields available for each credential account:

- i. Unique credential number.
- ii. Credential type.
- iii. Customer ID number.
- iv. Account number.
- v. Credential holder name.
- vi. Credential validity period.
- vii. Credential holder organization.
- viii. Credential holder telephone number.
- ix. Credential holder email address.
- x. Parking privilege code(s).
- xi. License plate number(s).
- xii. Vehicle make/model.

#### 17. Handheld Point of Sale Device

- a. CONTRATOR shall provide a solution that allows a member of the SMF operations team to process a cash or bankcard transaction in an unstaffed lane.
- b. The handheld device shall:
  - 1) Process bankcards with encryption in real-time.
  - 2) Process validations as a payment option.
  - 3) Issue a receipt to the customer.
- c. The handheld device shall interface or integrate with the PARCS so that the revenue collected in the lanes:
  - 1) Is recorded in the PARCS.

- 2) Provides the number of transactions and dollar amounts collected for each payment type accepted by the PARCS.
- 3) Provides a method to reconcile the transactions processed by the handheld to the transactions recorded in PARCS.

#### 18. LPR Subsystem

- a. Throughout this section, the term "LPR database" refers to a generic database(s) that may be housed entirely or in part on the PARCS central databases or on the LPR Subsystem hardware.
- b. CONTRACTOR shall provide and install LPR at all entry and exit lanes.
- c. The LPR Subsystem consists of all hardware and software necessary to provide a complete and functional LPR subsystem that achieves COUNTY'S required functionality and accuracy, and that does not adversely affect any function of the PARCS.
- d. CONTRACTOR shall provide an LPR subsystem that is fully interfaced and integrated into the PARCS, including tying the LPN captured at entry to the unique entry credential information for every transaction as well as registering LPNs to serve as the entry credential. Should the entry information need to be obtained at an exit station to process the transaction (i.e. unreadable credential), both the LPN and credential shall be removed from their respective active inventories once the vehicle has exited.
- e. The LPR subsystem shall provide "frictionless" transaction processing for transactions where a valid LPN match is made for the entry and exits as follows:
  - 1) Grace ticket: For a standard ticketed entry transaction where the LPN was successfully captured at entry, the customer proceeds to the exit within the free grace period, and where the LPN is successfully matched at

exit, the gate shall automatically vend without the patron having to interact with the EX.

- 2) Registered LPN: LPN can be registered as an access credential with active, passive, or no pass-back rules enforced, configurable by COUNTY. When a registered LPN in the proper pass-back sequence is recognized at the entry or exit, the gate shall automatically vend without the patron having to interact with the ES/EX. Customers with registered LPNs shall also be able to have redundant credentials, including barcode and proximity card, that they can use interchangeably in the event that the LPR system fails to obtain a valid read of the LPN. Pass-back rules shall apply to the user account regardless of the sequence in which different credentials are utilized.
- 3) Validated credential: For a standard entry transaction where the LPN was successfully captured at entry, the customer has their credential electronically validated in the system for 100% of the fee, and where the LPN is successfully matched at exit, the gate shall automatically vend without the patron having to interact with the EX.
- 4) Paid Ticket via POF or Scan-to-Pay: For a standard entry transaction where the LPN was successfully captured at entry, the customer pays their ticket at a POF or via the Scan-to-Pay feature, and where the LPN is successfully matched at exit, the gate shall automatically vend without the patron having to interact with the EX.
- 5) QR Code/Barcode/Bluetooth/NFC credential (LPN not registered): For a valid credential entry transaction where the LPN was successfully captured at entry, and where the LPN is successfully matched at exit, the gate shall automatically vend without the patron having to interact with the EX. Pass-back status shall be updated for the credential account regardless of if the patron was allowed to exit via LPN or if they used their credential.

f. LPR Cameras

- 1) CONTRACTOR shall provide and install LPR cameras in all entry and exit lanes, as indicated in Exhibit F.
- 2) CONTRACTOR shall provide and install image capture cameras including any lights or shade canopies necessary at all entry and exit lanes to provide specified system functionality.
- 3) CONTRACTOR shall provide and utilize theft deterrent and vandal resistant housings that meet applicable code requirements for outdoor equipment.
- 4) Recommend the exact location of each device, subject to COUNTY approval.
- 5) Entry and exit lane layouts are to be pre-capture, meaning that the cameras are placed such that a vehicle's LPN is captured prior to the vehicle pulling up to the ES/EX.
- 6) The primary method of illumination for license plate capture shall be infrared light.
- 7) LPR system shall provide secondary capture with a full color overview of the vehicle in the lane that shall be associated with the transaction as well as a zoomed-in image of the license plate.
- 8) Both infrared and full-color images shall be viewable by users during transaction review and remote transaction processing.

g. LPR PARCS workstation functionality:

- 1) The PARCS shall provide an operator with the ability to review and correct LPR data and manage LPR exception transactions at the entries and exits.
- 2) The PARCS shall provide remote processing of exception transactions (e.g. lost credential, unreadable credential, etc.) by authorized users from any workstation. The authorized user shall have the ability

to use the LPR data sent from the lane to the workstation to verify entry information and transmit the entry information to the exit station for automated calculation of the appropriate parking fee.

- 3) Remote transaction processing shall be accomplished from the workstation via a fully automated software tool designed specifically for that purpose.
  - i. Users shall be able to easily navigate to a remote transaction processing screen on the workstation.
  - ii. Automated LPN entry event lookups shall be accomplished through a minimal series of mouse clicks.
  - iii. User shall not be required to manually type in any transaction information (lane number, LPN, etc.).
  - iv. Once a matching entry event is located by the LPR lookup tool, the user shall be presented with a screen that displays the entry transaction information and LPR photo(s) as well as the exit transaction information and LPR photo(s). In addition, the resulting fee shall be automatically calculated and displayed on the screen. The user shall be given the option to proceed with sending the calculated fee to the exit lane or to cancel the lookup by the click of buttons on the screen.
  - v. In the event that no entry data can be found in the LPR database for an unreadable credential, the user shall be given the option to input the credential number into the workstation. If the credential is found, the fee shall be automatically calculated, and the user shall be given the option to proceed with sending the calculated fee to the exit lane or to cancel the lookup by the click of buttons on the screen. Upon completion of the transaction the credential shall be marked as 'closed' in the system.
  - vi. In the event that no LPR or credential number is found, the user shall be given the option to

manually enter an entry date/time or send a manually entered flat fee from the workstation to the exit lane and include an input field to explain the fee charged.

- 4) Remote transaction processing shall be possible from any PARCS workstation by authorized users.
- 5) LPR and LPI data shall be extracted and sent to approved internal or external groups, e.g., the police department, either via API or SFTP.

#### h. LPR Subsystem Performance Requirements

- 1) The LPR Subsystem shall 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) The LPR Subsystem shall achieve an N Factor rating of 95% meaning specifically that the LPR Subsystem shall read all license plate characters, exclusive of stacked characters, correctly 95 percent (95%) of the time for all non-exception vehicles as defined within this section. Missing, misread, or additional characters as determined by the LPR Subsystem shall be 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 shall count against the read rate. (i.e., "1ABC123" would not constitute an N read.)
- 3) The LPR Subsystem shall achieve an N-2 Factor rating of 98% meaning specifically that the LPR Subsystem shall read all but two LPN characters, exclusive of stacked characters, correctly 98 percent (98%) of the time for all non-exception vehicles as defined within this section. Missing, misread, or additional characters as determined by the LPR Subsystem shall be 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 shall not count against the accuracy of the LPR Subsystem. For the purposes of the LPR performance requirements an exception vehicle is defined as:
  - i. Any vehicle whose license plate is significantly obstructed, obscured, or encroached upon by a foreign object.
  - ii. Oversized vehicles that have a total distance between the center of the drivers' side window and the end of the rear bumper greater than fifteen (15) feet.
  - iii. 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.
  - iv. Vehicles with no license plate.
  - v. Vehicles with temporary cardboard "Dealer Plates."
- 5) Ambient lighting conditions shall have no effect on the accuracy of the LPR system regardless of the time of the day and night. CONTRACTOR shall provide any necessary shading or lighting elements required to mitigate the effect of the ambient lighting conditions on the LPR system performance.
- 6) CONTRACTOR shall provide a means, subject to approval by COUNTY, to remotely score the LPR Subsystem to ensure it meets the performance requirements. The PARCS shall transfer images from each lane to a shared drive or FTP site that can then be

viewed and scored on a standalone PC by COUNTY or its designated representative. COUNTY shall be able to select any images stored on the LPR database for scoring purposes. CONTRACTOR shall provide all software needed to test the LPR Subsystem's performance. The software shall be downloadable to a standalone PC used for testing.

- 7) CONTRATOR shall provide an automated configuration option from the workstation to set the LPR to require matching at N, N-1, or N-2 levels:
  - i. N Matching requires that the license plate read be an N read at both entry and exit in order for the system to consider the plates a match. Example: ABC123 = ABC123
  - ii. N-1 Matching allows plate reads to differ by one (1) character and the system shall still consider the plates a match. Example: ABC123 = A8C123
  - iii. N-2 Matching allows plate reads to differ by two (2) characters and the system shall still consider the plates a match. Example: ABC123 = A8O123
- 8) CONTRACTOR shall recommend protection for the LPR cameras from vehicle strikes both from vehicles pulling forward as well as from reversing vehicles. Vehicle protection shall include but may not be limited to metal bollards and concrete barriers. Vehicle protection shall be subject to COUNTY approval.

#### 19. Mobile LPI Subsystem

- a. CONTRACTOR shall provide a Mobile License Plate Inventory (MLPI) system to manually capture vehicle LPNs for an MLPI database to assist in exception transaction processing and to facilitate customer service activities such as helping customers locate a lost vehicle.
- b. The MLPI Subsystem shall utilize route-specific software for the inventory taking process, meaning that the inventory takers follow a pre-defined route when circulating through the facilities to obtain the inventories.

- c. CONTRACTOR shall provide a GUI capability to alter the pre-defined route in order to reflect changed parking configurations with authorized user access, as configured in the PARCS, required to modify routes or data.
- d. CONTRACTOR shall provide all hardware and software for a fully functioning mobile LPI taking and reporting system that is completely and fully reconcilable with the PARCS ticket inventory and the LPR system's active image inventory.
- e. The MLPI subsystem shall accommodate the following tasks:
  - 1) Inventory taking – Facilitate MLPI inventory using vehicle-mounted LPI cameras to record each vehicle's LPN. Record LPI data by facility, floor, aisle, unique space number, and LPN.
  - 2) Inventory upload – Upload of the MLPI inventory via a wireless connection with alternate docking station connected to a PARCS workstation with appropriate checks and balances in-place to detect possible data entry errors.
  - 3) Route modification – Functionality to add, delete, or modify the inventory routes as well as add or delete entire structures or facilities from the MLPI system.
  - 4) Recognize a vehicle that has changed spaces since the last inventory was taken, but that has not exited the facility and re-entered.
- f. Vehicle MLPI equipment
  - 1) CONTRACTOR shall provide the following:
    - i. MLPI cameras, computers and other equipment required for three (3) COUNTY-provided vehicles to perform the nightly MLPI.
    - ii. The MLPI cameras utilized for MLPI shall use infrared read technology to capture license plates.

- iii. The MLPI vehicle unit shall alert the driver of LP's that are not accurately read (below the defined confidence factor).
  - iv. The MLPI unit shall display the actual LP image on the computer, show the LP number captured by the camera, and allow the driver to input the correct LP number into the computer.
  - v. The MLPI vehicle computer shall alert the driver when no LP is captured. The MLPI unit shall display the actual LP image on the computer and allow the driver to input the correct LP number into the computer.
- 2) The MLPI vehicle computer shall upload the collected inventory data to the PARCS server each night and download the most recent information from the server before taking the nightly inventory.
- 3) MLPI system software database shall reside on the PARCS Servers for vehicle units and handheld units.
- 4) The MLPI shall allow some portion of inventory to be taken with handheld units if needed. The handheld data shall upload/download to the same database as the MLPI data.
- 5) The handheld devices shall meet the following requirements:
- i. Units shall be watertight, shock resistant, and capable of continuous, dependable operation within the range of weather conditions experienced at the project site.
  - ii. Unaffected by inadvertent dropping on pavement from a height of four (4) feet.
  - iii. Weigh less than two (2) lbs.
  - iv. Unit shall operate and contain enough data for eight (8) hours of collection and contain enough

battery charge to upload all data to the DMS and have a rechargeable battery that can be recharged within four (4) hours. Units shall contain inventory application specific software.

- v. Shall be menu driven and user friendly to operate.
- vi. Provides backlit keyboard for data input. The operator can choose to input data via keyboard or touchscreen, but the system does not require some data to be input via touch screen and other data to be input via keys.
- vii. Capable of storing at least 7,000 license plate numbers of up to eight (8) digits each, state of origin, facility location, row, and stall number.
- viii. Full alphanumeric keyboard with traditional 10-key numeric format that does not require using a stylus and keys to input a plate number.
- ix. Labels on keys shall persist for the life of unit.
- x. Minimum of a four (4)-line display (16 characters each) that is highly visible in daylight and darkness.
- xi. Communication port on each cradle compatible with workstations linked to the LPD server.
- xii. One (1) charging unit for each handheld device.
- xiii. Each handheld inventory device shall be capable of being used in any of the COUNTY parking facilities.
- xiv. Through a user selectable menu, the Inventory Taker shall select the appropriate parking facility for inventory taking.
- xv. It shall be possible for the COUNTY to add, change, or delete from the menu which parking facility to be inventoried.

- xvi. The programmable feature, to add, change, or delete a parking facility, parking level, or area within a parking level, shall be password protected and accessible only by COUNTY.
- xvii. The parking facility designator codes shall be a minimum of five (5) characters.
- xviii. Each handheld unit shall be able to accept all the inputs necessary to inventory a minimum of seven thousand (7,000) parking spaces.
- xix. The handheld inventory device shall be programmable such that the inventory taking process can be recorded by level, row, and space. It shall be possible to add to, change, or delete from the user selectable menu options, the number of parking levels or parking areas available within a parking facility.
- xx. The handheld inventory device shall allow the option of mapping inventory routes for automated license plate number entry. Instead of entering each plate into inventory each night, this option displays the prior day plate number for the space and allows the inventory taker to confirm the plate number, input a new plate, or delete a plate if the space is empty.
- xxi. LPI units are to be swappable so if one fails another one can be used for a different mapped route.
- xxii. Uploads and downloads from the LPI units to the LPI workstation shall occur for all LPI units that are in cradles connected to the workstation.
- xxiii. The handheld device's software shall contain data fields to enter the vehicle's license plate number and the appropriate province or state. The license plate number field shall be an eight (8)-character field. The state field shall be a two (2)-character field defaulted to "CA" for California.

- xxiv. Once the inventory taking process is completed, the handheld device is set into a cradle that shall be connected by a data cable to a workstation operating in conjunction with the PARCS. The inventory taker shall upload the current night's inventory to the PARCS via a workstation.
- xxv. Each handheld shall have an uploading cradle so that the upload sequence can be initiated for all handhelds without requiring the operator to perform additional procedures on the LPI workstation or handhelds. The handheld shall be able to receive downloads from the PARCS central server when cradled.
- xxvi. Appropriate checks and balances shall be in-place to detect and report possible data entry errors. For example, if a previous night's license plate number was "AAB 112" and the current night's license plate number is "AEB 112," an Exception/Error Report shall prompt the inventory taker to confirm that the entry "AEB 112 is correct." The exception reporting process shall identify all details related to the location of the parked vehicles and continue until a "clean" inventory is achieved.

6) CONTRACTOR shall provide vehicle MLPI equipment with the following capabilities and features:

- i. Permanently mountable to COUNTY inventory vehicles.
- ii. LPN Field that accommodates one to eight characters.
- iii. Vehicle-mounted LPI workstation/laptop with full alpha-numeric keypad with physical keys for all characters, i.e., no user is not required to press a "shift" or "alt" key to switch between letters and numbers.

- iv. LPR feature that allows the plate to be captured by the camera and read using an optical character recognition software algorithm. LPRs can be corrected by the user in the event of errors.
- v. Automatically recalls the LPN that was parked in each space on the previous night.
- vi. Docking capability for upload of LPN Inventory.
- vii. Environmental ratings as specified herein.
- viii. LPI Workstation Functionality  
The LPI subsystem shall be accessible from any authorized workstation on the COUNTY network.

## 20. Valet System

- a. If COUNTY opts for a valet system, CONTRACTOR shall provide a fully integrated valet system to accommodate valet customers located at the SMF's new valet layout at both Terminal A and Terminal B.
- b. The valet system shall include a mobile vehicle camera imaging solution to identify and document existing vehicle damage.
- c. All data from the valet devices shall be reported to the DMS in real time and included in the PARCS reporting.
- d. CONTRACTOR shall provide one (1) central cashier station each at both Terminals drop-off locations to process customer cash, bankcards, and validation payments.
- e. The valet system shall include four (4) handheld devices each at both Terminals to check in customers and process customer bankcard payments. The handheld devices shall meet the following features and parameters:
  - 1) Require a user login.
  - 2) Communication to the PARCS from any parking facility via wireless network that has security measures to prevent unauthorized use.



- 3) Provide accountability of tickets issued and ticket payments processed.
  - 4) Access data from the PARCS to assist customers in processing their transaction.
  - 5) Automatically read valet tickets.
  - 6) Computes the parking fee.
  - 7) Processes a bankcard.
  - 8) Issues a receipt, if requested.
- f. The handheld devices shall be integrated with the PARCS so that the payment data is transmitted to the PARCS server and the ticket is marked as closed.
  - g. The valet system shall interface with COUNTY'S flight database for notification of flight arrivals that result in alerting for vehicle retrieval.
  - h. The valet system shall allow valet customers to text, call, or email their arrival information to alert the valet system for vehicle retrieval.
  - i. CONTRACTOR shall provide a valet mobile application to carry out the functions of the system.

## 21. Online Validation System

- a. CONTRACTOR shall provide three (3) online validation scanning devices:
  - 1) One (1) device in the parking office.
  - 2) Two (2) devices for COUNTY tenants.
- b. Each validation unit shall scan the paper ticket's barcode and apply a pre-programmed validation value.
- c. The validation system shall provide the following validation values:

- 1) Dollar discount
  - 2) Time discount
  - 3) Percentage discount
- d. When validations are created or applied, the system shall record the data, time, device ID, User ID, account number, validation value, and validation parameters.
  - e. When validations are used, the system shall record the entry media number, exit date/time, lane ID, account number, total fee, validated amount, and fee paid.
  - f. The validation system shall provide data and reports of detailed and summary activity by account to be used for invoicing validation usage (invoice feature is not part of the PARCS scope).
  - g. Validations shall allow use restrictions by parking facility/area, time of day, day of week, expiration date, invalid if duration is greater than a programmable number of time (minutes/hours/days).

## 22. Pinhole Camera System

- a. The PARCS shall provide a pinhole camera system.
- b. Pinhole cameras shall be installed on the face of each ES, EX, and all pay stations.
- c. Pinhole cameras shall be integrated to display on the command center workstation screen in real time when the intercom is activated.
- d. The pinhole cameras shall be able to legibly display a parking ticket sequence number (e.g., for unreadable tickets) and other related to parking access and parking fees/discounts to assist the remote user in processing the transaction.

## 23. Uninterruptible Power Supplies (UPS)

- a. CONTRACTOR shall provide all UPS units to support the PARCS equipment, as indicated in Exhibit F.
- b. UPS shall provide thirty (30) minutes of full lane functionality on battery backup power for all entry lanes, exit lanes, and pay-on-foot stations.
- c. CONTRACTOR shall inspect all islands where UPS units shall be installed to verify feasibility of mounting the UPS units to the new PARCS equipment versus mounting the UPS units on the concrete islands.
- d. CONTRACTOR shall identify to COUNTY where island modifications are required to facilitate the mounting of UPS units.

#### 24. Dynamic Signage

- a. CONTRACTOR shall provide dynamic signage, as indicated in Exhibit F.
- b. Entry lane dynamic signage
  - 1) The entry lane signs shall display the lane status of all reversible entry lanes and exit lanes. They shall display green static "OPEN" to indicate an active lane/direction or red static "FULL" to indicate a closed or inactive lane/direction.
  - 2) The signs shall utilize red and green LED lighting.
  - 3) The signs shall have dimensions of 10" height x 10" width x 2.5" depth.
  - 4) The sign hardware shall be Signal-Tech Model TCL1026GR-100, or equivalent.
- c. Exit plaza overhead dynamic message sign.
  - 1) The exit plaza signs shall display the lane functionality of each exit lane in the exit plaza. Sample messages "OPEN", "CASHIER ON DUTY", "CREDIT CARD ONLY", "CLOSED", etc.

- 2) The signs shall utilize full-color RGB LED lighting.
- 3) The sign hardware shall be Daktronics GS6-40x175-15.85mm, or equivalent.

#### D. Source Quality Control

##### 1. Internal PARCS Tests

- i. All equipment shall have successfully passed formal manufacturing tests and quality assurance inspections to validate compliance with these functional specifications prior to the start of installation.
- ii. Records for formal internal CONTRACTOR testing and inspection for performance, materials quality and/or workmanship to be maintained by CONTRACTOR and made available if requested by COUNTY prior to the start of installation or at any point throughout the Term of the Agreement.
- iii. CONTRACTOR shall have readily available proof of product reliability analysis and testing should reliability become a problem at any time from the beginning of installation testing through the final operational test period.

#### **IV. EXECUTION**

##### A. Examination

CONTRACTOR shall:

1. Verify all existing conditions in the field prior to implementation. If conditions in the field are different from the conditions described and shown in the drawings, CONTRACTOR shall notify COUNTY in writing of the exact differences and shall inform the COUNTY in writing of any implications the differences have on the project.
2. Verify that all required PARCS conduits and wiring are properly located and installed prior to installing PARCS equipment.

3. Examine substrates, areas, and conditions 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 this Agreement.

#### B. Preparation

1. Islands or pads containing PARCS equipment must not be poured until stub ups and any necessary anchor bolts are properly placed and verified by both COUNTY and CONTRACTOR.
2. Any conflicts with installation at a particular location must be resolved by COUNTY and CONTRACTOR prior to pouring lanes and pads for PARCS equipment.

#### C. Installation

1. Adhere to the phasing limitations specified in this Scope of Work.
2. CONTRACTOR shall verify that the installation locations are prepared and ready to have the equipment installation completed. CONTRACTOR must notify COUNTY, in writing, if CONTRACTOR finds that the installation location is not prepared for installation due to unfinished work outside of this Scope of Work. The written notification shall provide detail of the elements that need modification to prepare the location for equipment installation.
3. CONTRACTOR shall proceed with installation only after unsatisfactory conditions have been remedied to COUNTY'S satisfaction.
4. CONTRACTOR shall install all PARCS equipment per equipment manufacturer recommendations.
5. Any patches, upgrades, updates, or modifications to the PARCS software during the installation period require appropriate documentation and COUNTY approval before the modification is made.

6. If necessary, during installation and the warranty period, COUNTY shall attempt to make available to CONTRACTOR an area to serve as an office/work area for the technicians that support the system. It is the responsibility of the on-site technicians to keep the office/work area clean and free of all hazards.
7. Finishing Requirements:
  - a. For PARCS equipment bolted to concrete, the interface between the base of the PARCS field equipment and the concrete surface shall be sealed with a material approved by COUNTY at the PDR.
  - b. The sealant shall perform as a durable, watertight seal and shall be resistant to abrasion, weather, staining, and migration.
  - c. The sealant shall not deteriorate in any manner except as indicated in the manufacturer's data.
  - d. CONTRACTOR shall install the sealant in compliance with the manufacturer's requirements and recommendations.
8. Project Schedule responsibilities:
  - a. CONTRACTOR shall maintain an approved project schedule beginning with NTP and continuing through final system acceptance.
  - b. CONTRACTOR shall maintain the original project baseline schedule with the updated schedule to track overruns.
  - c. CONTRACTOR shall present to COUNTY an updated project schedule at the weekly construction meetings.
  - d. Updated project schedules shall detail work accomplished in the past week, and upcoming work in the next two (2) weeks.
  - e. CONTRACTOR shall update all task and milestone percent completes on a weekly basis.

9. PARCS System Access [If an onsite PARCS server solution is proposed]

- a. During installation, warranty, and post-warranty, real-time communication between the PARCS and CONTRACTOR'S software support team for supporting the system may be required. This communication shall be via a COUNTY-provided VPN connection and shall be required to go through the firewall to get onto COUNTY'S network to access the PARCS servers.
- b. Multi-factor authentication shall be required for remote access.
- c. CONTRACTOR shall coordinate with COUNTY to obtain VPN access to the COUNTY network and set up user accounts. Accounts shall not be persistent. All access shall be requested with a duration and task list when required.
- d. Each individual accessing the COUNTY network is required to have an account. Group accounts are prohibited.

D. Field Quality Control and Acceptance Testing

1. General Requirements for All Acceptance Tests

- a. When the installation and configurations for the related PARCS acceptance test components have been completed, CONTRACTOR shall conduct its internal testing of the acceptance test. Internal testing shall follow the identical test procedures that shall be used during acceptance tests observed by COUNTY.
- b. Upon successful completion of CONTRACTOR'S test, CONTRACTOR and COUNTY shall perform the acceptance tests to verify performance. The acceptance tests shall only be observed by COUNTY after a fully completed and signed test script verifying successful completion of CONTRACTOR'S internal testing is submitted and reviewed by COUNTY.

- c. Signed internal test scripts shall be submitted to COUNTY seven (7) calendar days prior to the scheduled test with COUNTY.
- d. Acceptance tests shall be conducted for each PARCS component as defined herein.
- e. CONTRACTOR shall not activate the system for service until the acceptance tests have been successfully completed and COUNTY has notified CONTRACTOR of acceptance.
- f. CONTRACTOR shall submit test scripts for each of the acceptance tests defined herein at least fourteen (14) days prior to each acceptance test.
- g. CONTRACTOR shall provide test procedure documents acceptance tests as part of the Test Plan in accordance with the submittal guidelines.
- h. Acceptance test procedures documents shall include the following sections:
  - 1) Narrative describing the general procedures to be followed.
  - 2) Definition of all minor and major deviation types.
  - 3) Checklist of all items necessary to conduct the test (e.g., PARCS devices included in the test, consumables, validations, credit cards for payments, vehicles, etc.).
  - 4) Checklist for the components of each acceptance test.
  - 5) Signature page for all acceptance test participants' signatures.
  - 6) Step by step instructions for testing each functionality.
  - 7) Tests for verifying the reporting requirements.
  - 8) Area within each test section to denote "pass" or "fail."



9) Section for listing and describing test deviations.

- i. CONTRACTOR shall provide all ancillary items necessary to complete the acceptance tests for testing purposes. CONTRACTOR shall make available sufficient personnel to perform the acceptance tests in an efficient and timely manner.
  - 1) The acceptance tests shall be considered successfully completed when all components have passed their respective test procedures and all test documents have been signed by COUNTY and CONTRACTOR.
  - 2) Major deviations found during the acceptance LAT shall result in a retest of the failed procedures.
  - 3) Minor deviations resulting in the creation of punch list items shall not be considered grounds for failure of the overall acceptance tests.
  - 4) CONTRACTOR agrees to credit COUNTY from its total maximum payment specified in Exhibit C for any travel and/or labor costs incurred by COUNTY or its representatives because of additional effort required to retest failed devices.
  - 5) Minor deviations are any failure that does not affect system functionality, fee calculation accuracy, transaction count accuracy, exception count accuracy, active ticket inventory accuracy (system vs. actual), transaction processing, credit card processing, calculations, or report accuracy.
  - 6) Major deviations are any failures that affect system functionality, fee calculation accuracy, transaction count accuracy, exception count accuracy, active ticket inventory accuracy (system vs. actual), transaction processing, credit card processing, calculations, or report accuracy.

## 2. Bank Card Acceptance Test (BAT) Requirements:

- a. The BAT is conducted after the first point-of-sale (pay station or EX) is installed to confirm that bank cards are processed and reported correctly.
- b. CONTRACTOR shall conduct a Bank Card Acceptance Test as a demonstration to COUNTY or its representatives that the installed bank card system complies with the provisions of this Agreement, CONTRACTOR'S product data, and to other documentation, such as user manuals.
- c. CONTRACTOR shall coordinate with COUNTY to establish criteria to be demonstrated in Bank Card Acceptance Test, at a minimum:
  - 1) Successful processing of test payments with all credit card types accepted by COUNTY.
  - 2) Demonstration of appropriate bank card processing failures/rejections for card types that are not accepted by COUNTY, cards that have exceeded their credit limit, and expired cards.
  - 3) Demonstration of registration and processing of credit card on file payments.
  - 4) Demonstration of processing of offline and store and forward credit card payments.
  - 5) Demonstration of denied processing if the transaction total exceeds COUNTY'S offline ceiling (\$400.00).

### 3. Module Acceptance Test (MAT)

- a. The MAT shall test the backend features of the software applications as well as confirming related activity in the field equipment.
- b. MATs shall be conducted for each of the following software modules:
  - 1) CCF
  - 2) CMS

- i. Account management.
- ii. Access restrictions.
- iii. Credit card on file charges with auto shut off for delinquent accounts.

3) LPR performance.

4) Validations.

5) Full report package for all PARCS.

#### E. Acceptance Testing

##### 1. Factory Acceptance Test (FAT)

- a. CONTRACTOR shall conduct a FAT to verify the functional performance of all systems, subsystems, and components of the PARCS to ensure adherence to these functional specifications, prior to installing any equipment in the parking facilities.
- b. CONTRACTOR shall demonstrate the performance of the PARCS at a location mutually agreed upon by COUNTY and CONTRACTOR.
- c. CONTRACTOR shall configure a lane of each type and POF with all applicable components to simulate the configuration as installed in the parking facilities.
- d. CONTRACTOR shall provide all ancillary items necessary to complete the FAT including:
  - 1) Credit card test bed
  - 2) Payment methods of all types for testing
  - 3) All ticket and ticketless media needed for each transaction type.
  - 4) All keys to access equipment housings

- e. All systems, subsystems, and components of the PARCS shall successfully complete the FAT prior to the shipment of any equipment to the project site.
- f. Successfully completion of the FAT is accomplished when all systems, subsystems, and components have passed their respective test procedures and all test documents have been signed by the Owner and the Contractor.
  - 1) Minor deviations shall not be considered grounds for failure of the FAT.
  - 2) Major deviations found during the FAT shall result in the retest of the respective equipment, software, or subsystem before the FAT shall be considered successfully complete.
- g. CONTRACTOR shall provide to COUNTY a plan for the FAT in accordance with the submittal guidelines. CONTRACTOR shall provide test procedures for each lane type or device type that shall include:
  - 1) Narrative describing the general procedures to be followed.
  - 2) Definition of all minor and major deviation types.
  - 3) Checklist of all items necessary to conduct the test (e.g. unpaid tickets, license plates, exceptions tickets, credit cards, proximity cards, equipment keys, etc.).
  - 4) Checklist for the components of each lane or device.
  - 5) Step by step instructions for testing each functionality.
  - 6) Tests for verifying reports.
  - 7) Area within each test section to denote "pass" or "fail."
  - 8) Section for listing and describing test deviations.
- h. COUNTY shall designate representatives to participate in the FAT.

## 2. Lane Acceptance Test (LAT)

- a. CONTRACTOR shall conduct LATs as a demonstration to COUNTY or its representatives that the installed equipment complies with this Agreement, CONTRACTOR'S product data, and to other documentation, such as user manuals.
- b. When a PARCS equipment location installation has been completed, CONTRACTOR shall conduct its internal testing of the installed equipment.
  - 1) Internal testing shall follow the identical LAT test procedures that shall be used during LATs observed by COUNTY.
- c. Upon successful completion of CONTRACTOR'S internal test, CONTRACTOR and COUNTY shall perform the LAT to verify performance.
  - 1) The LAT shall only be observed by COUNTY after receiving and reviewing a fully completed and signed test script verifying successful completion of CONTRACTOR'S internal lane testing.
  - 2) Signed internal test scripts shall be submitted at least (1) one calendar day prior to the scheduled test with COUNTY.
- d. LATs shall be conducted for each entry lane, POF, and exit lane and shall include tests of PARCS equipment and software.
- e. CONTRACTOR shall not activate the system for service until all LATs have been successfully completed for each lane or device and COUNTY has notified CONTRACTOR that it is ready to put the equipment into operation.
- f. CONTRACTOR shall provide to COUNTY test procedure documents for LATs as part of the Test Plan in accordance with the submittal guidelines. LAT Test Procedures Documents shall be provided for each count location type and test procedures shall include the following sections:

- 1) Narrative describing the general procedures to be followed.
  - 2) Definition of all minor and major deviation types.
  - 3) Checklist of all items necessary to conduct the test (e.g. PARCS devices included in the test, credentials, consumables, validations, credit cards for payments, vehicles, etc.).
  - 4) Checklist for the components of each PARCS equipment location.
  - 5) Step by step instructions for testing each functionality.
  - 6) Test for verifying the reporting requirements.
  - 7) Area within each test section to denote "pass" or "fail."
  - 8) Section for listing and describing test deviations.
- g. CONTRACTOR shall provide all ancillary items necessary to complete the LATs for testing purposes.
- h. CONTRACTOR shall make available enough personnel to perform the LAT in an efficient and timely manner.
- i. The LAT shall be considered successfully completed when all components have passed their respective test procedures.
- 1) Minor deviations resulting in the creation of punch list items shall not be considered grounds for failure of the overall LAT.
  - 2) Major deviations found during the LAT shall result in the retest of the lane or device.
- j. CONTRACTOR agrees to credit COUNTY from its total maximum payment specified in Exhibit C for any travel and/or labor costs incurred by COUNTY or its

representatives as a result of additional effort required to retest failed devices.

- k. Minor deviations are any failure that does not affect system functionality, fee calculation accuracy, transaction count accuracy, exception count accuracy, active credential inventory accuracy (system vs. actual), transaction processing, credit card processing, calculations, or report accuracy.
- l. Major deviations are any failures that affect system functionality, fee calculation accuracy, transaction count accuracy, exception count accuracy, active credential inventory accuracy (system vs. actual), transaction processing, credit card processing, calculations, or report accuracy.

### 3. System Acceptance Test (SAT)

- a. The SAT shall be comprised of all equipment, systems, and subsystems performing under actual conditions, e.g., customer use, normal activity recording, and reporting procedures. This SAT shall demonstrate, over a period of 30 consecutive calendar days, the successful performance of all aspects of the PARCS.
- b. During the SAT only routine maintenance procedures, as defined by the preventative maintenance procedures manual and according to industry standards, shall be permitted. All other maintenance procedures shall be approved in writing by COUNTY before they are performed; otherwise, they shall constitute a failure of the SAT and a mandatory restart. Rebooting a device to resolve an issue is not considered routine maintenance and shall be counted as a device failure.
- c. COUNTY reserves the right to be present for all maintenance services during the SAT.
- d. For purposes of the SAT, a subsystem is defined to be any one of the following:

#### 1) PARCS Application Software

- 2) Data Communication System
- 3) PARCS Servers
- 4) Entry Lanes
- 5) Exit Lanes
- 6) Pay stations
- 7) Intercom System
- 8) CCTV System
- 9) Interfaces and Integrations
- 10) PARCS Reporting System

- e. The SAT shall begin after successful completion of all LATs on a date mutually selected and agreed to in writing by the COUNTY and CONTRACTOR at a time designated by COUNTY.
- f. The SAT monitors the performance of the entire system operating as a single unit. CONTRACTOR shall submit an SAT test document as part of their Test Plan in accordance with the submittal requirements.
- g. SAT test documents are intended to outline procedures for monitoring the overall performance of the PARCS and shall not include test procedures for individual components. The SAT test documents shall include:
  - 1) Narrative describing the general procedures to be followed.
  - 2) Methodology for calculation of downtime and accuracy for the various PARCS components.
  - 3) Electronic tracking document to be used during the SAT period for documenting failures and downtime.



- h. The SAT shall continue for thirty (30) consecutive 24-hour periods during which all the performance criteria, stated below, shall have been met.
- i. If, during the 30-day period, the system fails to meet any one of the following specified performance criteria, the test shall begin anew on a day agreed upon by COUNTY and CONTRACTOR.
- j. CONTRACTOR shall agree to credit COUNTY from the total maximum payment specified in Exhibit C for any travel and/or labor costs incurred by COUNTY as a result of retesting the system.
- k. The performance criteria for successful completion of the SAT shall include:
  - 1) No individual subsystem shall be operationally unavailable for four (4) or more cumulative hours during the 30-day test period.
  - 2) No individual subsystem shall be operationally unavailable for more than two (2) consecutive hours.
  - 3) If any single component fails more than once during the 30-day period for the same reason, it shall be replaced upon the second failure with a newly manufactured component of the same type and the test shall continue.
  - 4) No component of a given type shall fail more than three (3) times for the same reason during the 30-day test period. Upon the fourth failure, CONTRACTOR shall investigate all components of that type and if deemed deficient, components shall all be replaced or modified to correct the common deficiency, and the test shall be restarted from the beginning.
- l. In addition to the PARCS reports generated during the SAT, CONTRACTOR shall provide COUNTY with a one-page summary report that clearly provides the overall percentage of system downtime and causes of that down time.

- m. CONTRACTOR shall provide COUNTY with a corrective action report that provides a detailed description of each failure that occurs during the SAT. The corrective action report shall include the type of failure, why the failure occurred, what was done to remedy the failure, and whether or not the failure resulted in a restart of the SAT.
- n. A subsystem shall be considered unavailable as long as no major component of the subsystem is functioning.
- o. An inoperative subsystem shall not be deemed unavailable if it has become inoperative because of:
  - 1) Outage of line power beyond the required duration of UPS power backup.
  - 2) Malicious damage or vandalism to a component(s) by employees, customers, or others.
  - 3) Network connectivity issues beyond the PARCS.
  - 4) PARCS failures due to issues and/or failures outside of CONTRACTOR'S control.
  - 5) Failures caused by a third party.
  - 6) Act of God.
- p. Should a failure occur in the system that is caused by normal hardware failure, it shall be repaired, and the test shall be resumed with downtime accrued. Where the failure causes inadequate test data to be collected or a loss of test data, the test shall be restarted from a point where it can be successfully completed with data to verify compliance with this Agreement and the test procedures document.
- q. If the system "crashes" during a test, then the test shall be stopped. "Crash" is defined as a failure in which the PARCS cannot properly process vehicles or record transactions. CONTRACTOR shall analyze the cause of the system "crash," document the cause in a system problem

report, responsively repair the flaw, and document the repair in a corrective action report.

- r. Where corrective action impacts delivered documentation, the documentation shall be corrected prior to Final System Acceptance.
- s. Upon formal written approval of the corrective action report by COUNTY, testing may continue if a problem has been encountered and CONTRACTOR can clearly demonstrate that the failure is associated only with one function of the system, corrective action has been taken to remedy the failure, and the corrective action shall not impact other areas of the system.
- t. Where the system does not perform a function or incorrectly performs the function, but the system does not crash, testing may continue, as long as the function is corrected, and all of the following conditions are met:
  - 1) The functionality of processing vehicles and recording transactions works properly according to this Scope of Work.
  - 2) No personnel, vehicle or driver safety issues exist.
  - 3) PARCS applications continue to function normally.
  - 4) Failure does not cause loss or contamination of data.
  - 5) All reports are 100% accurate.
- u. Where the above criteria are not met, the test shall be stopped, and corrective action shall be taken and verified prior to testing restart.
- v. During the test, the continued availability of the system shall be demonstrated. Where a failure occurs that causes data loss, system instability (crash), and/or contamination of the data and the database, CONTRACTOR shall immediately correct the problem. Testing shall continue until a consecutive 30-day period of stable operation is achieved. Stability is defined as the proper functioning of the PARCS with a failure having no

impact on the continued system operation or on the integrity of data.

#### 4. Punch List

- a. Starting with the beginning of installation through Final System Acceptance, CONTRACTOR shall submit a document on a weekly basis showing the status of all outstanding system issues, regardless of severity, including the plan for resolution and estimated completion date.
- b. All deviations noted during acceptance testing shall be recorded on the Punch List.

#### 5. Final System Acceptance

Final System Acceptance shall be submitted by COUNTY, in writing to CONTRACTOR, upon successful completion of all acceptance tests, and upon verification by COUNTY of complete resolution of all outstanding items on the Punch List.

#### F. Instruction and Training

1. By means of onsite instructional classes augmented by individual instruction as necessary, CONTRACTOR shall fully instruct COUNTY'S designated staff in the operation, adjustment, and maintenance of all products, equipment, and systems.
2. CONTRACTOR shall coordinate scheduling of instruction and training classes with COUNTY to avoid conflicts and peak-period personnel demands. CONTRACTOR shall submit a proposed instruction schedule at a joint meeting conducted prior to equipment installation. COUNTY shall tentatively approve or suggest changes to the training schedule at that time.
3. CONTRACTOR shall submit an outline of the instruction material and approximate duration of the session. Ample time shall be allotted within each session for CONTRACTOR to fully describe and demonstrate all aspects of the PARCS and allow COUNTY personnel to have hands-on experience with the PARCS.

4. All instruction courses shall consist of classroom instruction and actual "hands-on" experience. Classes shall be set up in a room designated by COUNTY. CONTRACTOR shall provide one (1) instructor for the duration of each program.
5. The instructor shall speak fluent English in a clear and precise manner.
6. The class material shall include schematics, as well as an overview and descriptions of the equipment.
7. CONTRACTOR shall provide all documentation required for instructing COUNTY personnel. COUNTY retains the right to copy training materials as frequently as required for ongoing internal use only.
8. An instructional notebook or user's manual shall accompany every instruction course. CONTRACTOR shall submit a hardcopy of the user's manual per the submittal guidelines. In addition, all manuals (instruction and maintenance) shall be submitted in electronic format (PDF) on a USB thumb drive. The electronic documents must be searchable.
9. The user's manuals shall be written in common English with appropriate photos, diagrams, and schematics to supplement the text.
10. Training classes shall be provided for the following groups:
  - a. Parking Ambassadors
  - b. Parking Management Office Staff
  - c. System Administrators
  - d. Accounting/Audit
  - e. Maintenance Staff
11. CONTRACTOR shall train maintenance staff to Level 1 and Level 2 skill levels:
  - a. Level 1 hardware maintenance covers basic maintenance tasks in response to uncomplicated equipment issues.

Examples of Level 1 services include, but are not limited to:

- 1) Reattaching or replacing broken barrier gate arms.
- 2) Clearing receipt paper jams.
- 3) Clearing credit card jams.
- 4) Replenishing receipt stock.

b. Level 2 hardware maintenance covers advanced maintenance tasks in response to moderate to severe equipment issues. Examples of Level 2 services include, but are not limited to:

- 1) Replacing malfunctioning components with spare parts (ex: credential readers, device screens, light kits, intercom boards, device doors, etc.)
- 2) Diagnosing minor device malfunctions.
- 3) Rebooting a device.

#### G. Equipment Protection

1. All above ground equipment components installed near drive aisles shall be protected from damage by vehicular movements by protective bollards or other barriers as recommended by CONTRACTOR and approved by COUNTY. CONTRACTOR is responsible for final bollard location to ensure installed bollard does not prevent access to the PARCS devices or interfere with the travel path of PARCS access doors.
2. Each above ground island-mounted device shall be protected by one or more bollards.

#### H. Spare Parts

1. CONTRACTOR shall provide the following spare components to be delivered upon completion and sign-off of the PARCS SAT:

Equipment	Quantity
Entry station	1
Exit station	1
Cash / credit pay station	1
Barrier gates	2
Barrier gate arms	5
EMV payment terminals	5
Proximity card readers	3
AVI reader	1
LPR Cameras	2
Service toolsets	2

2. CONTRACTOR shall provide guaranteed component pricing for seven (7) years following the NTP date. These prices shall be valid prices for COUNTY to purchase the components and spare parts through a service agreement between COUNTY and CONTRACTOR.
3. The proposed spare parts list is subject to the approval of COUNTY, and COUNTY reserves the right to modify the spare parts inventory throughout the Term of this Agreement.
4. All spare parts that are provided to COUNTY at the end of the Warranty period shall have a one (1) year warranty from the date the spare parts were handed over to COUNTY.
5. All equipment and parts shall be newly manufactured within the six (6) months from delivery and never installed in any other operational system other than for factory test purposes.
6. COUNTY shall provide a storage location of the spare parts to be determined when necessary.
7. CONTRACTOR shall have access to the spare parts inventory and shall have the responsibility of ordering replacement components or parts as components or parts are used prior to completion of the Warranty.
8. CONTRACTOR shall make all PARCS components available for ten (10) years after the PARCS system acceptance.

9. In the event that CONTRACTOR withdraws from the manufacture, distribution, or support of parking revenue control systems in the United States; or sunsets a hardware component, CONTRACTOR shall provide COUNTY with the notice of such occurrence at least one hundred and twenty (120) calendar days in advance of withdrawal.
10. CONTRACTOR shall provide COUNTY with manufacturing specifications for all CONTRACTOR-manufactured components of the PARCS, and COUNTY shall be afforded the opportunity to purchase a suitable number of spares of all discontinued components.

#### I. Test Bed

1. The test bed shall consist of a separate test instance of Airport parking data to use for testing before implementing changes and upgrades to the live PARCS.
2. The test bed shall include the following:
  - a. One (1) entry lane equipped with an Entry Station, entry media readers as defined in the Entry Lane Requirements, LPR camera, barrier gate, loops, vehicle detectors, and integrated with a red/green lane status light.
  - b. One (1) exit lane equipped with an Exit Station, exit media readers as defined in the Exit Lane Requirements, LPR camera, barrier gate, loops, vehicle detectors, and integrated with a red/green lane status light.
  - c. One (1) cash / credit pay station machine.
  - d. The test PARCS server environment shall replicate all functions of the Production PARCS server. The test PARCS server environment may be sized to support only the needs of the PARCS test bed.
  - e. CONTRACTOR shall mount and connect the PARCS equipment, together with any required network interface devices (such as a switch/router) into the test network. The test network shall be independent of the PARCS network.



- f. The production PARCS server shall transmit to the test bed's PARCS server configuration files and other data as necessary to maintain synchronization with the production environment. Under no circumstances shall the test bed's PARCS server transmit transactional or other data to the production PARCS server.
- g. The test bed and the PARCS server shall both use the same version of software, other than during the testing of a new software version on the test bed.
- h. System time shall be synchronized between the test bed and the PARCS server.
- i. Bankcard clearing house communications shall occur between the test bed and the PARCS server so that bankcard requirements may be tested.
- j. CONTRACTOR shall provide a Test Bed Installation Plan at the PDR for the Airport's review.

#### J. PARCS Performance Standards

Performance standards for the PARCS are specified in Exhibit G, attached hereto and incorporated herein.

#### K. COUNTY'S Project Management Rights

COUNTY reserves the right to approve CONTRACTOR'S selection of project manager for activities related to this Agreement. COUNTY reserves the right to mandate the assignment of a new project manager for activities related to this Agreement due to performance failures.

#### L. SCHEDULE

CONTRACTOR shall perform the services in an expeditious manner in accordance with a mutually acceptable schedule developed between COUNTY and CONTRACTOR.

#### M. RESPONSIBILITIES OF COUNTY AND CONTRACTOR FOR SCOPE

1. COUNTY, or its authorized representatives, shall review all documents submitted by CONTRACTOR and render decisions pertaining thereto as promptly as is reasonable under the circumstances at the time in order to avoid unreasonable delay of the progress of CONTRACTOR. COUNTY shall furnish information and services as required by this Agreement and shall render approvals and decisions as expeditiously as is reasonably necessary under the circumstances at the time for the orderly progress of the CONTRACTOR'S services and of the project.
2. CONTRACTOR shall be solely responsible for the quality and accuracy of its work and the work of its subconsultants performed in connection with this Agreement. Any review, approval, or concurrence therewith by the COUNTY shall not be deemed to constitute acceptance or waiver by the COUNTY of any error or omission as to such work. CONTRACTOR shall coordinate the activities of any subcontractors.
3. CONTRACTOR shall be solely and completely responsible for implementing the applicable COVID-19 guidelines from the California Division of Industrial safety and the applicable COVID-19 guidance form the Centers for Disease Control and Prevention (CDC) including staff education, staff training, routine cleaning of staff and public space, on-site washing facilities, and to the extent applicable personal Protective Equipment (PPE) donning and maintenance. CONTRACTOR shall submit a plan for compliance with these standards to the COUNTY. This safety plan and/or narrative description shall describe the education, training, routine cleaning, on-site washing facilities and the PPE to be used or provided by the CONTRACTOR. Compliance with these standards is not a reimbursable expense pursuant to this Agreement.

#### N. AUTHORITY OF CONTRACTOR PERFORMING SCOPE OF WORK

CONTRACTOR is retained to provide and perform the scope of work covered by this Agreement. CONTRACTOR, including CONTRACTOR'S assigned personnel, shall have no authority to represent COUNTY or COUNTY staff at any meetings of public or private agencies unless an appropriate COUNTY official provides prior written authorization for such representation which outlines the purpose, scope and duration of such representation.

CONTRACTOR shall possess no authority or right to act on behalf

of COUNTY in any capacity whatsoever as agent, nor to bind COUNTY to any obligations whatsoever. COUNTY is responsible for making all policy and governmental decisions related to the work covered by this Agreement.

#### O. PUBLICATION OF DOCUMENTS AND DATA

CONTRACTOR shall not publish, or disclose to any third party, documents, data, or any confidential information relative to the work of the COUNTY without the prior written consent of COUNTY, however, submission or distribution to meet official regulatory requirements, or for other purposes authorized by this Agreement, shall not be construed as publication in derogation of the rights of either the COUNTY or CONTRACTOR.

**EXHIBIT B to Agreement  
between the COUNTY OF SACRAMENTO (COUNTY) and  
[CONTRACTOR] (CONTRACTOR)**

**FINAL INSURANCE REQUIREMENTS MAY DIFFER DEPENDING ON  
PROPOSAL**

**INSURANCE REQUIREMENTS FOR CONTRACTORS**

Without limiting CONTRACTOR'S indemnification, CONTRACTOR shall procure and maintain for the duration of the Agreement, insurance against claims for injuries to persons or damages to property which may arise from or in connection with the performance of the Agreement by the CONTRACTOR, its agents, representatives or employees. COUNTY shall retain the right at any time to review the coverage, form, and amount of the insurance required hereby. If in the opinion of the County Risk Manager, insurance provisions in these requirements do not provide adequate protection for COUNTY and for members of the public, COUNTY may require CONTRACTOR to obtain insurance sufficient in coverage, form and amount to provide adequate protection. COUNTY'S requirements shall be reasonable but shall be imposed to assure protection from and against the kind and extent of risks that exist at the time a change in insurance is required.

**I. VERIFICATION OF COVERAGE**

CONTRACTOR shall furnish the COUNTY with certificates evidencing coverage required below. **Copies of required endorsements must be attached to provided certificates.** The County Risk Manager may approve self-insurance programs in lieu of required policies of insurance if, in the opinion of the Risk Manager, the interests of the COUNTY and the general public are adequately protected. All certificates, evidences of self-insurance, and additional insured endorsements are to be received and approved by the COUNTY before performance commences. The COUNTY reserves the right to require that CONTRACTOR provide complete, certified copies of any policy of insurance offered in compliance with these specifications.

**II. MINIMUM SCOPE OF INSURANCE**

Coverage shall be at least as broad as:

- A. GENERAL LIABILITY: Insurance Services Office's Commercial General Liability occurrence coverage form CG 0001. Including, but not limited to Premises/Operations, Products/Completed Operations, Contractual, and Personal & Advertising Injury, without additional exclusions or limitations, unless approved by the County Risk Manager.
  
- B. AUTOMOBILE LIABILITY: Insurance Services Office's Commercial Automobile Liability coverage form CA 0001.
  - 1. Commercial Automobile Liability: auto coverage symbol "1" (any auto) for corporate/business owned vehicles. If there are no owned or leased vehicles, symbols 8 and 9 for non-owned and hired autos shall apply.
  
  - 2. Personal Lines automobile insurance shall apply if vehicles are individually owned.
  
- C. WORKERS' COMPENSATION: Statutory requirements of the State of California and Employer's Liability Insurance.
  
- D. PROFESSIONAL LIABILITY or Errors and Omissions Liability insurance appropriate to the CONTRACTOR'S profession.
  
- E. UMBRELLA or Excess Liability policies are acceptable where the need for higher liability limits is noted in the Minimum Limits of Insurance and shall provide liability coverages that at least follow form over the underlying insurance requirements where necessary for Commercial General Liability, Commercial Automobile Liability, Employers' Liability, and any other liability coverage (other than Professional Liability) designated under the Minimum Scope of Insurance.
  
- F. CRIME INSURANCE: Including coverage for Employee Theft of Client Property.

G. CYBER LIABILITY: Sufficiently broad to respond to the duties and obligations as is undertaken by CONTRACTOR in this agreement.

H. TECHNOLOGY PROFESSIONAL LIABILITY ERRORS AND OMISSIONS INSURANCE appropriate to the CONTRACTOR'S profession and work hereunder.

I. BUILDERS' RISK INSURANCE/INSTALLATION FLOATER: In effect at all times during the project for construction or installation of equipment.

### **III. MINIMUM LIMITS OF INSURANCE**

CONTRACTOR shall maintain limits no less than:

A. General Liability shall be on an Occurrence basis (as opposed to Claims Made basis). Minimum limits and structure shall be:

General Aggregate:	\$5,000,000
Products Comp/Op Aggregate:	\$5,000,000
Personal & Adv. Injury:	\$1,000,000
Each Occurrence:	\$5,000,000
Fire Damage:	\$ 100,000

Contractors and Contractors engaged in other projects of construction shall have their general liability Aggregate Limit of Insurance endorsed to apply separately to each job site or project, as provided for by Insurance Services Office form CG-2503 Amendment-Aggregate Limits of Insurance (Per Project).

B. AUTOMOBILE LIABILITY:

1. Commercial Automobile Liability for Corporate/business owned vehicles including non-owned and hired, \$1,000,000 Combined Single Limit for landside driving; \$5,000,000 for airside driving.

2. Personal Lines Automobile Liability for Individually owned vehicles, \$250,000 per person, \$500,000 each accident, \$100,000 property damage.

C. WORKERS' COMPENSATION: Statutory.

D. EMPLOYER'S LIABILITY: \$1,000,000 per accident for bodily injury or disease.

E. PROFESSIONAL LIABILITY OR ERRORS AND OMISSIONS LIABILITY: \$5,000,000 per claim and aggregate.

F. Crime Insurance or Fidelity/Crime Bond, including coverage for Employee Theft of Client Property, shall be obtained in an amount not less than \$1,000,000. The County of Sacramento shall be added as Loss Payee.

Cyber Liability Insurance, with limits not less than \$5,000,000.

Coverage shall be sufficiently broad to respond to the duties and obligations as is undertaken by CONTRACTOR in this agreement and shall include, but not be limited to, claims involving security breach, system failure, data recovery, business interruption, cyber extortion, social engineering, infringement of intellectual property, including but not limited to infringement of copyright, trademark, trade dress, invasion of privacy violations, information theft, damage to or destruction of electronic information, release of private information, and alteration of electronic information. The policy shall provide coverage for breach response costs, regulatory fines and penalties as well as credit monitoring expenses.

Technology Professional Liability Errors and Omissions Insurance appropriate to the CONTRACTOR'S profession and work hereunder, with limits not less than \$5,000,000 per occurrence. Coverage shall be sufficiently broad to respond to the duties and obligations as is undertaken by the CONTRACTOR in this agreement and shall include, but not be limited to, claims involving security breach, system failure, data recovery, business interruption, cyber extortion, social engineering, infringement of intellectual property, including but not

limited to infringement of copyright, trademark, trade dress, invasion of privacy violations, information theft, damage to or destruction of electronic information, release of private information, and alteration of electronic information. The policy shall provide coverage for breach response costs, regulatory fines and penalties as well as credit monitoring expenses. The Policy shall include or be endorsed to include property damage liability coverage for damage to, alteration of, loss of, or destruction of electronic data and/or information "property" of the Agency in the care, custody, or control of the CONTRACTOR.

Builders' Risk Insurance/Installation Floater is required for projects involving construction in an amount equal to one hundred percent (100%) of the value of the project, covering the entire work, including all materials and equipment stored at the site and offsite for incorporation into the work, and additionally including such property in transit. Such insurance shall insure against "all risk" or "special form" perils including risks from any and all testing of equipment and providing coverage for earthquakes and terrorism. Such insurance shall be extended to cover soft costs incurred during any delayed completion period covered by an insured peril for a period of not less than two (2) years. Such insurance shall include the County of Sacramento as a loss payee.

The CONTRACTOR, and each of its subcontractors, shall separately insure its own equipment for loss or damage equal to the total replacement cost value. The CONTRACTOR and each of its SUB-CONTRACTOR's Property and Inland Marine policies shall include or be endorsed to include a Waiver of Subrogation endorsement in favor of the County, its officers, directors, officials, employees, agents, and authorized volunteers.



#### **IV. DEDUCTIBLES AND SELF-INSURED RETENTION**

Any deductibles or self-insured retention that apply to any insurance required by this Agreement must be declared and approved by the COUNTY.

#### **V. CLAIMS MADE POLICIES**

If coverage is written on a Claims Made form:

- A. The "Retro Date" must be shown, and must be on or before the date of the Agreement or the beginning of Agreement performance by CONTRACTOR.
- B. Insurance must be maintained and evidence of insurance must be provided for at least one (1) year after completion of the Agreement.
- C. If coverage is cancelled or non-renewed, and not replaced with another claims made policy form with a "Retro Date" prior to the contract effective date, the CONTRACTOR must purchase "extended reporting" coverage for a minimum of one (1) year after completion of the Agreement.

#### **VI. OTHER INSURANCE PROVISIONS**

The insurance policies required in this Agreement are to contain, or be endorsed to contain, as applicable, the following provision:

A. All Policies:

- 1. ACCEPTABILITY OF INSURERS: Insurance is to be placed with insurers with a current A.M. Best's rating of no less than A-VII. The County Risk Manager may waive or alter this requirement, or accept self-insurance in lieu of any required policy of insurance if, in the opinion of the Risk Manager, the interests of the COUNTY and the general public are adequately protected.

2. MAINTENANCE OF INSURANCE COVERAGE: The CONTRACTOR shall maintain all insurance coverages and limits in place at all times and provide the COUNTY with evidence of each policy's renewal ten (10) days in advance of its anniversary date.

CONTRACTOR is required by this Agreement to immediately notify COUNTY if they receive a communication from their insurance carrier or agent that any required insurance is to be canceled, non-renewed, reduced in scope or limits or otherwise materially changed. CONTRACTOR shall provide evidence that such cancelled or non-renewed or otherwise materially changed insurance has been replaced or its cancellation notice withdrawn without any interruption in coverage, scope or limits. Failure to maintain required insurance in force shall be considered a material breach of the Agreement.

**VII. COMMERCIAL GENERAL LIABILITY AND/OR COMMERCIAL AUTOMOBILE LIABILITY, BUILDERS' RISK INSURANCE**

- A. ADDITIONAL INSURED STATUS: The COUNTY, its officers, directors, officials, employees, and volunteers are to be endorsed as additional insureds as respects: liability arising out of activities performed by or on behalf of the CONTRACTOR; products and completed operations of the CONTRACTOR; premises owned, occupied or used by the CONTRACTOR; or automobiles owned, leased, hired or borrowed by the CONTRACTOR. The coverage shall contain no endorsed limitations on the scope of protection afforded to the COUNTY, its officers, directors, officials, employees, or volunteers.
- B. CIVIL CODE PROVISION: Coverage shall not extend to any indemnity coverage for the active negligence of the additional insured in any case where an agreement to indemnify the additional insured would be invalid under Subdivision (b) of Section 2782 of the Civil Code.
- C. PRIMARY INSURANCE: For any claims related to this Agreement, the CONTRACTOR'S insurance coverage shall be endorsed to be

primary insurance as respects the COUNTY, its officers, officials, employees and volunteers. Any insurance or self-insurance maintained by the COUNTY, its officers, directors, officials, employees, or volunteers shall be excess of the CONTRACTOR'S insurance and shall not contribute with it.

D. SEVERABILITY OF INTEREST: The CONTRACTOR'S insurance shall apply separately to each insured against whom claim is made or suit is brought, except with respect to the limits of the insurer's liability.

E. SUBCONTRACTORS: CONTRACTOR shall be responsible for the acts and omissions of all its subcontractors and additional insured endorsements as provided by CONTRACTORS subcontractor.

### **VIII. WORKERS' COMPENSATION**

Workers' Compensation Waiver of Subrogation: The workers' compensation policy required hereunder shall be endorsed to state that the workers' compensation carrier waives its right of subrogation against the COUNTY, its officers, directors, officials, employees, agents or volunteers, which might arise by reason of payment under such policy in connection with performance under this Agreement by the CONTRACTOR. Should CONTRACTOR be self-insured for workers' compensation, CONTRACTOR hereby agrees to waive its right of subrogation against COUNTY, its officers, directors, officials, employees, agents or volunteers.

### **IX. PROPERTY**

Course of Construction (COC) Waiver of Subrogation: Any Course of Construction (COC) policies maintained by the CONTRACTOR in performance of the Agreement shall contain the following provisions:

1. The COUNTY shall be named as loss payee.

2. The Insurer shall waive all rights of subrogation against the COUNTY.

Inland Marine Waiver of Subrogation: Any Inland Marine insurance policies maintained by the CONTRACTOR in performance of the Agreement shall be endorsed to state that the insurer shall waive all rights of subrogation against the COUNTY.

**X. NOTIFICATION OF CLAIM**

If any claim for damages is filed with CONTRACTOR or if any lawsuit is instituted against CONTRACTOR, that arise out of or are in any way connected with CONTRACTOR'S performance under this Agreement and that in any way, directly or indirectly, contingently or otherwise, affect or might reasonably affect COUNTY, CONTRACTOR shall give prompt and timely notice thereof to COUNTY. Notice shall be prompt and timely if given within thirty (30) days following the date of receipt of a claim or ten (10) days following the date of service of process of a lawsuit.

**EXHIBIT C to Agreement  
between the COUNTY OF SACRAMENTO (COUNTY) and  
[CONTRACTOR] (CONTRACTOR)**

**BUDGET REQUIREMENTS**

**FINAL EXHIBIT WILL DIFFER BASED ON PROPOSAL**

**I. MAXIMUM PAYMENT TO CONTRACTOR**

The total maximum payment amount to CONTRACTOR is \$\_\_\_\_\_ during the Term of this Agreement.

**II. PRICING**

**III. INVOICES**

Invoices shall be submitted via e-mail to Airport Accounting at air-invoice@saccounty.gov. Changes to the invoice address will be made to CONTRACTOR in writing by COUNTY and will be effective upon receipt.

**IV. ITEMIZED TASKS AND SUBTASKS**

If CONTRACTOR'S Proposal contains a schedule of tasks or subtasks with identified levels of effort such as estimated hours and/or estimated costs, or identifiable work products, milestones, or other events, then compensation for these individual tasks or activities shall not exceed the identified estimate or other limiting factors without the written approval of COUNTY'S Project Manager. CONTRACTOR shall promptly notify COUNTY'S Project Manager in writing of any tasks, subtasks, work products, or milestones that need to be reevaluated and indicate the reason and/or justification for such reevaluation. COUNTY'S Project Manager is authorized to negotiate adjustments of individual tasks so long as the work is within the general scope of the project and the total compensation does not exceed the Maximum Total Payment Amount under this Agreement listed above.

**V. WORK NOT IN SCOPE OF SERVICES**

CONTRACTOR shall immediately notify the COUNTY'S Project Manager in writing of any work that the COUNTY requests to be

performed that CONTRACTOR believes is outside of the original scope of work covered by this Agreement. If it is determined that said request is outside of the scope of work, such work shall not be performed unless and until the Director approves such request in writing and authorizes the use of any contingency funds for such work, or an amendment providing for an adjustment in CONTRACTOR'S compensation is approved and executed by both parties.

**VI. NOTIFICATION OF 75% EXPENDITURE OF COMPENSATION**

CONTRACTOR shall notify COUNTY'S Project Manager in writing upon expenditure of seventy-five percent (75%) of the authorized Agreement amount. Such notice shall identify the percentage of funds expended, the percentage of work completed, an explanation of any variation between these two (2) percentages, and an assessment of the cost of the remaining work to be performed.

**EXHIBIT D to Agreement  
between the COUNTY OF SACRAMENTO (COUNTY) and  
[CONTRACTOR] (CONTRACTOR)**

**FAA CONTRACT PROVISIONS**

**I. GENERAL CIVIL RIGHTS PROVISIONS**

The CONTRACTOR agrees to comply with pertinent statutes, Executive Orders and such rules as are promulgated to ensure that no person shall, on the grounds of race, creed, color, national origin, sex, age, or disability be excluded from participating in any activity conducted with or benefiting from Federal assistance. This provision binds the CONTRACTOR and subtier contractors from the bid solicitation period through the completion of the contract. This provision is in addition to that required of Title VI of the Civil Rights Act of 1964.

**II. TITLE VI SOLICITATION NOTICE**

The County of Sacramento, in accordance with the provisions of Title VI of the A6. A6.3.1 Civil Rights Act of 1964 (78 Stat. 252, 42 U.S.C. §§ 2000d to 2000d-4) and the Regulations, hereby notifies all bidders that it will affirmatively ensure that any contract entered into pursuant to this advertisement, disadvantaged business enterprises will be afforded full and fair opportunity to submit bids in response to this invitation and will not be discriminated against on the grounds of race, color, or national origin in consideration for an award.

**III. COMPLIANCE WITH NONDISCRIMINATION REQUIREMENTS:**

During the performance of this contract, the CONTRACTOR, for itself, its assignees, and successors in interest (hereinafter referred to as the "CONTRACTOR") agrees as follows:

- A. Compliance with Regulations: The CONTRACTOR (hereinafter includes Contractors) will comply with the Title VI List of Pertinent Nondiscrimination Acts And Authorities, as they may be amended from time to time, which are herein incorporated by reference and made a part of this contract.

- B. Non-discrimination: The CONTRACTOR, with regard to the work performed by it during the contract, will not discriminate on the grounds of race, color, or national origin in the selection and retention of subcontractors, including procurements of materials and leases of equipment. The CONTRACTOR will not participate directly or indirectly in the discrimination prohibited by the Nondiscrimination Acts and Authorities, including employment practices when the contract covers any activity, project, or program set forth in Appendix B of 49 CFR Part 21.
- C. Solicitations for Subcontracts, Including Procurements of Materials and Equipment: In all solicitations, either by competitive bidding, or negotiation made by the CONTRACTOR for work to be performed under a subcontract, including procurements of materials, or leases of equipment, each potential subcontractor or supplier will be notified by the CONTRACTOR of the CONTRACTOR'S obligations under this contract and the Nondiscrimination Acts And Authorities on the grounds of race, color, or national origin.

Information and Reports: The CONTRACTOR will provide all information and reports required by the Acts, the Regulations, and directives issued pursuant thereto and will permit access to its books, records, accounts, other sources of information, and its facilities as may be determined by the sponsor or the Federal Aviation Administration (FAA) to be pertinent to ascertain compliance with such Nondiscrimination Acts And Authorities and instructions. Where any information required of a CONTRACTOR is in the exclusive possession of another who fails or refuses to furnish the information, the CONTRACTOR will so certify to the sponsor or the Federal Aviation Administration, as appropriate, and will set forth what efforts it has made to obtain the information.

- D. Sanctions for Noncompliance: In the event of an CONTRACTOR'S noncompliance with the Non-discrimination provisions of this contract, the sponsor will impose such contract sanctions as it or the Federal Aviation Administration may determine to be appropriate, including, but not limited to:
1. Withholding payments to the CONTRACTOR under the contract until the CONTRACTOR complies; and/or



2. Cancelling, terminating, or suspending a contract, in whole or in part.
- E. Incorporation of Provisions: The CONTRACTOR will include the provisions of paragraphs one through six in every subcontract, including procurements of materials and leases of equipment, unless exempt by the Acts, the Regulations and directives issued pursuant thereto. The CONTRACTOR will take action with respect to any subcontract or procurement as the sponsor or the Federal Aviation Administration may direct as a means of enforcing such provisions including sanctions for noncompliance. Provided, that if the CONTRACTOR becomes involved in, or is threatened with litigation by a subcontractor, or supplier because of such direction, the CONTRACTOR may request the sponsor to enter into any litigation to protect the interests of the sponsor. In addition, the CONTRACTOR may request the United States to enter into the litigation to protect the interests of the United States.
1. The CONTRACTOR for himself/herself, his/her heirs, personal representatives, successors in interest, and assigns, as a part of the consideration hereof, does hereby covenant and agree (in the case of deeds and leases add, "as a covenant running with the land") that (1) no person on the ground of race, color, or national origin, will be excluded from participation in, denied the benefits of, or be otherwise subjected to discrimination in the use of said facilities, (2) that in the construction of any improvements on, over, or under such land, and the furnishing of services thereon, no person on the ground of race, color, or national origin, will be excluded from participation in, denied the benefits of, or otherwise be subjected to discrimination, (3) that the CONTRACTOR will use the premises in compliance with all other requirements imposed by or pursuant to the List of discrimination Acts And Authorities.
  2. With respect to (licenses, leases, permits, etc.), in the event of breach of any of the above nondiscrimination covenants, County of Sacramento will have the right to terminate the (license, permit, etc., as appropriate) and to enter or re-enter and repossess said land and the facilities thereon, and hold the same as if said (license, permit, etc., as appropriate) had never been made or issued.

3. With respect to deeds, in the event of breach of any of the above nondiscrimination covenants, County of Sacramento will there upon revert to and vest in and become the absolute property of (Title of Sponsor) and its assigns.\*

**IV. TITLE VI LIST OF PERTINENT NONDISCRIMINATION ACTS AND AUTHORITIES**

During the performance of this contract, the CONTRACTOR, for itself, its assignees, and successors in interest (hereinafter referred to as the "CONTRACTOR") agrees to comply with the following non-discrimination statutes and authorities; including but not limited to:

- A. Title VI of the Civil Rights Act of 1964 (42 U.S.C. § 2000d et seq., 78 stat. 252), (prohibits discrimination on the basis of race, color, national origin);
- B. 49 CFR part 21 (Non-discrimination In Federally-Assisted Programs of The Department of Transportation—Effectuation of Title VI of The Civil Rights Act of 1964);
- C. The Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970, (42 U.S.C. § 4601), (prohibits unfair treatment of persons displaced or whose property has been acquired because of Federal or Federal-aid programs and projects);
- D. Section 504 of the Rehabilitation Act of 1973, (29 U.S.C. § 794 et seq.), as amended, (prohibits discrimination on the basis of disability); and 49 CFR part 27;
- E. The Age Discrimination Act of 1975, as amended, (42 U.S.C. § 6101 et seq.), (prohibits discrimination on the basis of age);
- F. Airport and Airway Improvement Act of 1982, (49 USC § 471, Section 47123), as amended, (prohibits discrimination based on race, creed, color, national origin, or sex);
- G. The Civil Rights Restoration Act of 1987, (PL 100-209), (Broadened the scope, coverage and applicability of Title VI of the Civil Rights Act of 1964, The Age Discrimination Act of 1975 and Section 504 of the Rehabilitation Act of 1973, by expanding the definition of the terms "programs or activities" to include all of the programs or activities of the Federal-aid recipients, sub-recipients and CONTRACTORS, whether such programs or activities are Federally funded or not);

- H. Titles II and III of the Americans with Disabilities Act of 1990, which prohibit discrimination on the basis of disability in the operation of public entities, public and private transportation systems, places of public accommodation, and certain testing entities (42 U.S.C. §§ 12131 – 12189) as implemented by Department of Transportation regulations at 49 CFR parts 37 and 38;
- I. The Federal Aviation Administration’s Non-discrimination statute (49 U.S.C. § 47123) (prohibits discrimination on the basis of race, color, national origin, and sex);
- J. Executive Order 12898, Federal Actions to Address Environmental Justice in Minority Populations and Low-Income Populations, which ensures non-discrimination against minority populations by discouraging programs, policies, and activities with disproportionately high and adverse human health or environmental effects on minority and low-income populations
- K. Executive Order 13166, Improving Access to Services for Persons with Limited English Proficiency, and resulting agency guidance, national origin discrimination includes discrimination because of limited English proficiency (LEP). To ensure compliance with Title VI, you must take reasonable steps to ensure that LEP persons have meaningful access to your programs (70 Fed. Reg. at 74087 to 74100);
- L. Title IX of the Education Amendments of 1972, as amended, which prohibits you from discriminating because of sex in education programs or activities (20 U.S.C. 1681 et seq).

**V. FEDERAL FAIR LABOR STANDARDS ACT**

All contracts and subcontracts that result from this solicitation incorporate by reference the provisions of 29 CFR Part 201, the Federal Fair Labor Standards Act (FLSA), with the same force and effect as if given in full text. The FLSA sets minimum wage, overtime pay, recordkeeping, and child labor standards for full and part time workers. The [CONTRACTOR | Contractor] has full responsibility to monitor compliance to the referenced statute or regulation. The [CONTRACTOR | Contractor] must address any claims or disputes that arise from this requirement directly with the U.S. Department of Labor – Wage and Hour Division.

**VI. OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970**

All contracts and subcontracts that result from this solicitation incorporate by reference the requirements of 29 CFR Part 1910 with the same force and effect as if given in full text. CONTRACTOR must provide a work environment that is free from recognized hazards that may cause death or serious physical harm to the employee. The CONTRACTOR retains full responsibility to monitor its compliance and their subcontractor's compliance with the applicable requirements of the Occupational Safety and Health Act of 1970 (29 CFR Part 1910). CONTRACTOR must address any claims or disputes that pertain to a referenced requirement directly with the U.S. Department of Labor – Occupational Safety and Health Administration.

**EXHIBIT E to Agreement  
between the COUNTY OF SACRAMENTO (COUNTY) and  
[CONTRACTOR] (CONTRACTOR)**

**SACRAMENTO COUNTY IT REQUIREMENTS**

**I. DEFINITIONS**

- A. **Application Programming Interface (API):** A set of functions and procedures allowing the creation of applications that access the features or data of an operating system, application, or other service.
- B. **CONTRACTOR:** The contractor and its employees, subcontractors, agents and affiliates who are providing the services agreed to under this Agreement.
- C. **COUNTY Data:** All data created or in any way originating with COUNTY, and all data that is the output of computer processing or other electronic manipulation of any data that was created by or in any way originated with COUNTY, whether such data or output is stored on COUNTY'S hardware, CONTRACTOR's hardware, hardware owned by subcontractors of CONTRACTOR, or exists in any system owned, maintained or otherwise controlled by COUNTY, CONTRACTOR, or subcontractors of CONTRACTOR.
- D. **Data Breach:** The misappropriation of COUNTY Data in the custody of CONTRACTOR or the compromise of the security, confidentiality or integrity of COUNTY Data Processing System maintained by CONTRACTOR.
- E. **Cloud Solution:** The use of Software as a Service (SaaS), Platform as a Service (PaaS), Infrastructure as a Service (IaaS), and others storing, processing, and/or transmitting of COUNTY Data in environments outside the control of COUNTY.
- F. **FedRAMP:** Federal Risk and Authorization Management Program. Information about FedRAMP can be found at [www.fedramp.gov](http://www.fedramp.gov).
- G. **Hybrid Solution:** The use of both a Cloud Solution and On-Premise Solution.

- H. **Internet Protocol (IP) address:** A numerical label assigned to each device connected to a computer network that uses the Internet Protocol for communication.
- I. **On-Premise Solution:** The use of a solution that is installed and run on computers that are on COUNTY’s premises.
- J. **StateRAMP:** State Risk and Authorization Management Program. Information about StateRAMP can be found at [www.stateramp.org](http://www.stateramp.org).
- K. COUNTY Contacts:

Role	COUNTY OF SACRAMENTO	Contact information
Approving Official /CISO	Rami Zakaria	Desk: (916) 874-7825 <a href="mailto:CIO@saccounty.gov">CIO@saccounty.gov</a>
Reporting/ Information Security	Information Security Office (ISO) Glenn Herdrich	Desk: (916) 875- 5274 <a href="mailto:herdrichg@saccounty.gov">herdrichg@saccounty.gov</a> Group:(916) 874-5171 <a href="mailto:iso@saccounty.gov">iso@saccounty.gov</a>

## **II. COMPLIANCE**

### **A. Cloud Solution**

1. CONTRACTOR shall achieve FedRAMP or StateRAMP Ready Status for the Cloud Service being provided within 90 days of the Agreement execution. Upon issuance of this Agreement, CONTRACTOR must achieve full FedRAMP or StateRAMP authorization for the applicable security control category within 12 months. CONTRACTOR must comply with required continuous monitoring to maintain FedRAMP or StateRAMP authorizations.
2. COUNTY reserves the right to request and review all Third Party Assessment Organization (3PAO) audits, risk assessments, vulnerability assessments, and penetration tests of the contractor’s environment. CONTRACTOR must respond to all flaws discovered that could affect performance to FedRAMP or StateRAMP specifications. CONTRACTOR must provide a timeframe acceptable to COUNTY to resolve the identified issue and/or implement a compensating control.
3. Any deviation from these requirements must be approved by the COUNTY Chief Information Security Officer or designee in writing.

## B. On-Premises Solution

CONTRACTOR shall ensure that applicable Information Systems that CONTRACTOR provides as a part of this agreement are capable of running the following security tools:

<b>Security Tool</b>	<b>Applicable Information Systems</b>
CrowdStrike Falcon	Servers, Workstations, Non-Hardened Appliance
Tanium	Servers, Workstations, Non-Hardened Appliance
Splunk Universal forwarder or alternative log forwarder	Servers, Workstations, Non-Hardened Appliance, Internet-of-Things (IoT)

1. COUNTY reserves the right to conduct audits, risk assessments, vulnerability assessments, and penetration tests of CONTRACTOR's solution.
2. CONTRACTOR must respond within 30 days to all Critical and Important flaws discovered that could affect the security of the solution.
3. CONTRACTOR must resolve the identified issue and/or implement a compensating control within 90 days.
4. Any deviation from these requirements must be approved by the COUNTY Chief Information Security Officer or designee in writing.

## C. Hybrid Solution

CONTRACTOR must comply with both Cloud Solution and On-Premises Solution requirements for corresponding system components.

## III. **NON-DISCLOSURE**

CONTRACTOR shall require commercially reasonable non-disclosure agreements with applicable employees and subcontractors, and limit COUNTY Data knowledge to that which is necessary to perform job duties involved in the performance of this Agreement.

#### **IV. DATA OWNERSHIP**

- A. COUNTY solely and exclusively owns and retains all right, title and interest, whether express or implied, in and to any and all COUNTY data. CONTRACTOR neither has nor acquires, any right, title or interest, whether express or implied, in and to COUNTY data.
- B. CONTRACTOR shall only use COUNTY data for the purposes set forth in this Agreement. CONTRACTOR shall only access COUNTY data as necessary for performance of this Agreement. CONTRACTOR will not access COUNTY user accounts except to respond to service or technical problems or at the COUNTY'S specific request.
- C. All COUNTY data, including copies, summaries and derivative works thereof, must be remitted, in a mutually agreeable format and media, to COUNTY by CONTRACTOR upon request or upon completion, termination or cancellation of this Agreement. The foregoing sentence does not apply if the COUNTY Chief Information Security Officer or delegate authorizes in writing CONTRACTOR to sanitize and/or destroy the data in a manner acceptable to COUNTY and CONTRACTOR certifies in writing the sanitization and/or destruction of the data.
- D. Within 90 days following any remittance of COUNTY Data to COUNTY, CONTRACTOR shall, unless otherwise instructed by COUNTY in writing, sanitize and/or destroy any remaining data in a manner acceptable to COUNTY, and certify in writing that the sanitization and/or destruction of the data has occurred. Any such remittance, sanitization or destruction will be at CONTRACTOR'S sole cost and expense.

#### **V. DATA LOCATION**

CONTRACTOR shall provide its services to the COUNTY solely from data centers in the United States (U.S.). Storage of COUNTY Data at rest shall be located solely in data centers in the U.S. CONTRACTOR shall not allow its personnel or contractors to store COUNTY Data on portable devices, including but not limited to personal computers, except for devices that are used and kept only at its U.S. data centers and used for this Agreement. CONTRACTOR shall permit its personnel and contractors to access COUNTY Data remotely only as required to provide technical support. CONTRACTOR may provide technical user support on a 24/7 basis using a follow-the-sun model, unless otherwise prohibited in this Agreement.



## **VI. NOTIFICATION OF LEGAL REQUESTS**

- A. CONTRACTOR shall immediately notify COUNTY upon receipt of any subpoenas, service of process, litigation holds, discovery requests and other legal requests related to all data given to CONTRACTOR by COUNTY in the performance of this Agreement, and in no event later than 24 hours after it receives the request.
- B. CONTRACTOR shall not respond to legal requests related to COUNTY without first notifying COUNTY other than to notify the requestor that the information sought is potentially covered under a non-disclosure agreement.
- C. CONTRACTOR shall retain and preserve COUNTY Data in accordance with COUNTY'S instruction and requests, including, without limitation, any retention schedules and/or litigation hold orders provided by COUNTY to CONTRACTOR, independent of where the COUNTY Data is stored, at CONTRACTOR'S sole cost and expense.

## **VII. SECURITY BREACHES**

- A. Upon becoming aware of a potential, suspected, or actual Data Breach involving COUNTY data, the CONTRACTOR shall without undue delay (and in no event later than 72 hours of becoming aware of such Data Breach) inform COUNTY and provide written details of the Data Breach, including the type of data affected, the identity of affected person(s), the likely consequences of the Data Breach, any other information COUNTY may reasonably request concerning the affected persons, and the measures taken or proposed to be taken to address it, as soon as such information becomes known or available to CONTRACTOR.
- B. CONTRACTOR will promptly take reasonable steps to contain, investigate and mitigate any Data Breach. CONTRACTOR will provide timely information about the Data Breach including, but not limited to, the nature and consequences of the Data Breach; the measures taken and/or proposed by CONTRACTOR to mitigate or contain the Data Breach; the status of CONTRACTOR investigation of the Data Breach; a contact point from which additional information may be obtained; and the categories and approximated number of data records concerned, if available.

- C. CONTRACTOR'S communications with COUNTY in connection with a Data Breach shall not be construed as an acknowledgment by CONTRACTOR of any fault or liability with respect to the Data Breach.
- D. The parties agree to coordinate in good faith on developing the content of any related public statements or any required notices for the affected persons and/or the relevant legal authorities, except as otherwise required by applicable law. In the event of a Personal Data Breach, CONTRACTOR will provide timely information and cooperation as COUNTY may require to fulfill COUNTY'S Data Breach reporting obligations under applicable law; take such measures and actions as are appropriate to remedy or mitigate the effects of the Data Breach; and shall keep COUNTY up-to-date about all developments in connection with the Data Breach.
- E. CONTRACTOR shall perform all requirements in the above subsections (a)-(d) of this section at CONTRACTOR'S sole cost and expense.

**VIII. ACCESS TO SECURITY LOGS AND REPORTS**

CONTRACTOR shall support logging in a format as agreed to by both CONTRACTOR and COUNTY. Logging capabilities shall include latency statistics, user access, user access internet protocol (IP) address, application programming interface (API) calls for COUNTY'S account including the source IP address of the API caller, the request parameters and the response elements returned, user access history and security logs for all COUNTY Data and digital content related to this Agreement. The logs shall be sufficient to enable COUNTY to perform to COUNTY'S satisfaction security analysis, resource change tracking and compliance auditing.

**IX. SUBCONTRACTOR DISCLOSURE**

CONTRACTOR shall identify in writing to COUNTY as soon as known by CONTRACTOR all of its strategic business partners related to services provided under this Agreement, including but not limited to all subcontractors or other entities or individuals who may be a party to a joint venture or similar agreement with CONTRACTOR, and who shall be involved in any application development and/or operations

**X. RIGHT TO REMOVE INDIVIDUALS**

COUNTY shall have the right at any time to require that CONTRACTOR remove from interaction with COUNTY any CONTRACTOR representative

who COUNTY believes is detrimental to its working relationship with CONTRACTOR. COUNTY shall provide CONTRACTOR with notice of its determination, and the reasons it requests the removal. If COUNTY signifies that a potential security violation exists with respect to the request, CONTRACTOR shall immediately remove such individual. CONTRACTOR shall not assign the person to any aspect of this Agreement or future work orders without COUNTY'S consent.

## **XI. TERMINATION AND SUSPENSION OF SERVICE**

- A. In the event of termination of this Agreement, CONTRACTOR shall implement an orderly return of COUNTY Data in a mutually agreeable format at CONTRACTOR'S sole cost and expense. CONTRACTOR shall guarantee the subsequent secure disposal of COUNTY Data.
- B. During any period of suspension or contract negotiation or disputes, CONTRACTOR shall not take any action to intentionally erase any COUNTY Data.
- C. In the event of termination of any services or this Agreement in entirety, CONTRACTOR shall not take any action to intentionally erase any COUNTY Data for a period of 90 days after the effective date of the termination. After such 90-day period, CONTRACTOR shall have no obligation to maintain or provide any COUNTY Data and shall thereafter, unless legally prohibited, dispose of all COUNTY Data in its systems or otherwise in its possession or under its control at CONTRACTOR'S sole cost and expense. Within this 90- day timeframe, CONTRACTOR will continue to secure and back up COUNTY Data covered under this Agreement.
- D. COUNTY shall be entitled at no additional cost to COUNTY to any post-termination assistance generally made available with respect to the Services unless a unique data retrieval arrangement has been established as part of the Service Level Agreement.
- E. When requested by COUNTY, CONTRACTOR shall, at CONTRACTOR'S sole cost and expense, destroy all requested data in all of its forms, for example: disk, CD/DVD, backup tape, and paper. Data shall be permanently deleted and shall not be recoverable, according to National Institute of Standards and Technology (NIST) approved methods. - Certificates of destruction shall be provided to the COUNTY at no additional cost to COUNTY.

## **XII. CONTRACT AUDIT**

CONTRACTOR shall allow COUNTY to audit conformance to the Agreement terms. COUNTY may perform this audit or contract with a third party at its discretion and at COUNTY'S expense.

## **XIII. WEB ACCESSIBILITY (only applicable to web-based solutions)**

COUNTY strives to achieve web accessibility by complying with the requirements of Section 508 of the Rehabilitation Act of 1973 §1194.22, as amended (29 U.S.C. Section 794d). County websites (and those provided by 3<sup>rd</sup> party service providers, aka CONTRACTOR) shall be designed based on standards from the Worldwide Web Consortium (W3C) Web Content Accessibility Guidelines (WCAG) to make web content accessible to people with disabilities.

It is the responsibility of CONTRACTOR to become familiar with these guidelines and to apply these standards in designing and creating any official County of Sacramento website. CONTRACTOR shall deliver services in compliance with Worldwide Web Consortium (W3C) Web Content Accessibility Guidelines (WCAG).

**EXHIBIT F to Agreement  
between the COUNTY OF SACRAMENTO (COUNTY) and  
[CONTRACTOR] (CONTRACTOR)**

**PARCS EQUIPMENT MATRIX**

**COVER PAGE**

**EXHIBIT G to Agreement  
between the COUNTY OF SACRAMENTO (COUNTY) and  
[CONTRACTOR] (CONTRACTOR)**

**PARCS PERFORMANCE STANDARDS**

**COVER PAGE**

**WILL DIFFER BASED ON PROPOSAL**

**EXHIBIT H to Agreement  
between the COUNTY OF SACRAMENTO (COUNTY) and  
[CONTRACTOR] (CONTRACTOR)**

**LIQUIDATED DAMAGES SCHEDULE**

<b>Item No.</b>	<b>Description</b>	<b>Fee/Contractor Liability</b>
1	CONTRACTOR fails to meet specified call response times specified in the PARCS Support Service Levels Table in Exhibit A to the Agreement.	30% reduction on overall service invoice.
2	CONTRACTOR fails to provide sufficient support staffing as defined in Sections II.(B)(21) and II.(P)(5) of Exhibit A to the Agreement.	\$100 per day of insufficient staffing.
3	Property damage caused by CONTRACTOR and/or its subcontractors and employees.	CONTRACTOR shall be liable for the full cost of all damages to COUNTY'S property and equipment.
4	CONTRACTOR fails to meet project go-live dates as determined in the Final Design Review.	\$200 per day past determined go-live date.
5	Any loss of parking revenue directly attributable to actions caused by CONTRACTOR or their subcontractors or third-party providers. Examples include, but are not limited to system failures that incorrectly raise gate arms for exiting customers without payment, revenue lost due to payment system failures, and partial or complete system failures.	CONTRACTOR will reimburse to COUNTY all lost revenue.
6	Failure to complete all preventative maintenance tasks on PARCS equipment as defined in Section II.(P)(6) of Exhibit A to the Agreement.	30% reduction on overall service invoice

**EXHIBIT I to Agreement  
between the COUNTY OF SACRAMENTO (COUNTY) and  
[CONTRACTOR] (CONTRACTOR)**

**AVI SPECIFICATIONS**

- A. CONTRACTOR shall provide an AVI subsystem as part of the PARCS to replace the existing AVI system to control, track, and monitor shuttle bus, employee, and County access to the parking facilities.
- B. CONTRACTOR shall provide AVI antennas (and associated readers and mounting structures) in designated employee, public and shuttle bus entry and exit lanes as indicated in the Price Proposal Form.
- C. AVI mounting structures shall fit within the geometric circumstances of each location and maintain minimum vehicle clearance requirements.
- D. CONTRACTOR shall provide two types of transponders:
  - 1. Windshield tags with the following attributes:
    - a. Thin flexible sticker format.
    - b. Windshield-mounted to the interior of the vehicle windshield.
    - c. Multiprotocol.
    - d. Beam-powered with no battery required.
    - e. Non-transferrable with tag deactivation after initial removal from windshield.
  - 2. License Plate tags with the following attributes:
    - a. License plate-mounted to the exterior of the vehicle bumper.
    - b. Programmable with 915 MHz frequency.
    - c. Beam-powered with no battery required.
    - d. Water-resistant housing.



E. CONTRACTOR shall provide the following features and functionalities:

1. The AVI system shall read and accurately identify no less than 99.9% of properly mounted tags that pass through the read zone.
2. System consisting of antennas, readers, and local controllers (as required by the system architecture) that automatically reads vehicle's AVI transponder as the vehicle approaches the entrance or exit and transmits a signal to the AVI controller. The AVI controller confirms or denies authorization and activates gate for authorized users.
3. Ability to issue and register AVI transponders through the PARCS.
4. Authorized PARCS users shall be able to view and program AVI privileges and access rules.
5. Provide COUNTY with the appropriate tools to issue and register AVI transponders from the PARCS application.

F. AVI Readers and Antenna Housings shall be:

1. Housed in waterproof, rodent-proof, and vandal-proof harsh environment NEMA 4X (minimum) enclosures and fully operable in any temperature and humidity range occurring naturally in the region of installation.
2. Externally mounted antennas housed in a highly durable, UV- and corrosion-resistant case.

G. The AVI system shall provide continual uploading of data to the PARCS as soon as the system completes the decoding process for the transponder.

H. During a loss of communication, the AVI reader shall open the gate for any transponder that is within the transponder number validity range. This would include transponders that were set up in the system but may be out of the correct passback sequence, blocked, or expired.

I. The AVI system shall be fully auditable and provide integrated reports.

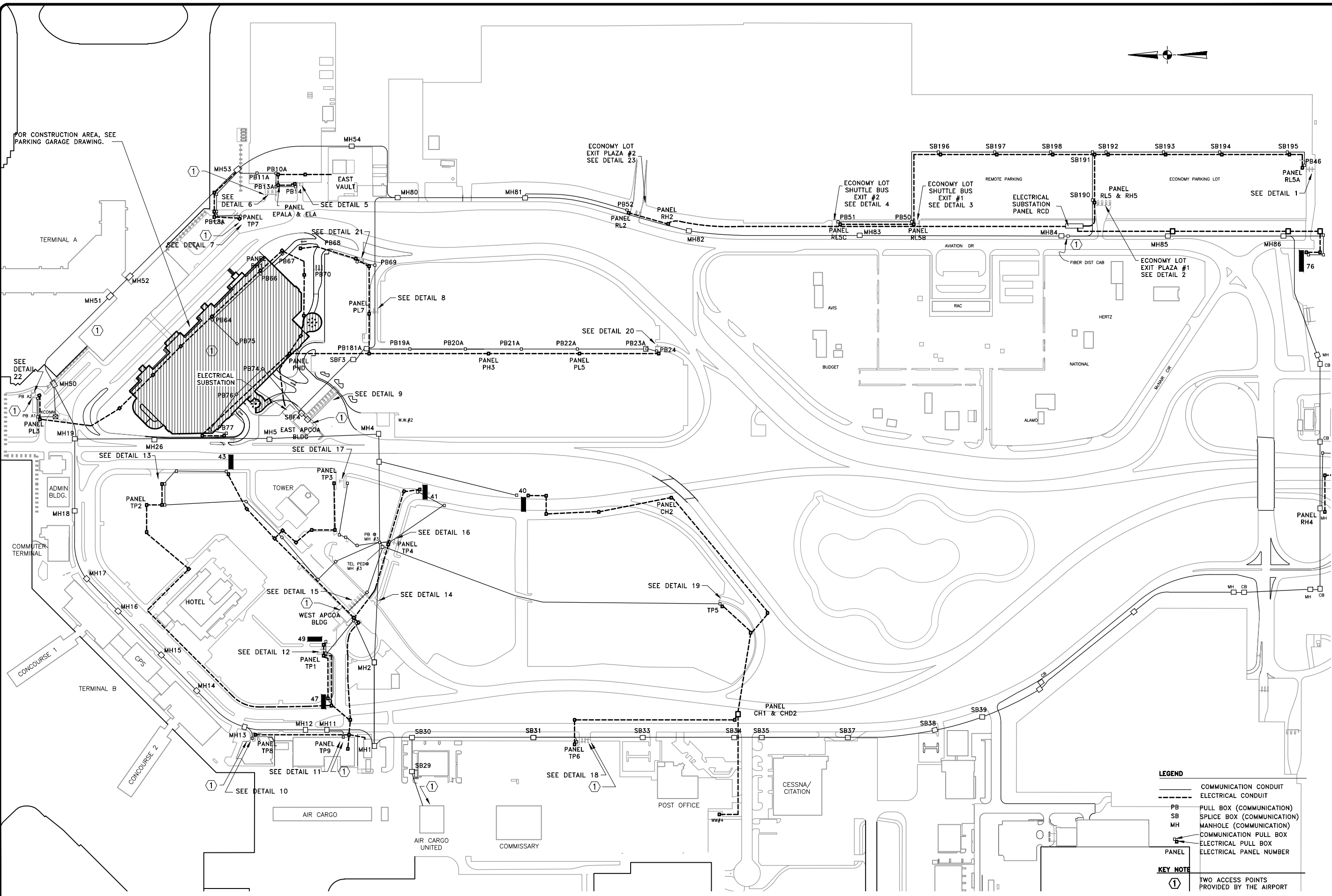
J. The AVI system shall be designed according to Federal Communication Commission regulatory compliance.

**ATTACHMENT 3**  
**REVISED EQUIPMENT COUNTS**  
**COVER PAGE**





**ATTACHMENT 4**  
**ADDITIONAL DRAWINGS**  
**COVER PAGE**



NO.	DATE	BY	DESCRIPTION

**SACRAMENTO INTERNATIONAL AIRPORT**  
**AIRPORT PARKING LOT EQUIPMENT LAYOUT**

- LEGEND**
- COMMUNICATION CONDUIT
  - - - ELECTRICAL CONDUIT
  - PB PULL BOX (COMMUNICATION)
  - SB SPLICE BOX (COMMUNICATION)
  - MH MANHOLE (COMMUNICATION)
  - COMMUNICATION PULL BOX
  - ELECTRICAL PULL BOX
  - ELECTRICAL PANEL NUMBER
- KEY NOTE**
- ① TWO ACCESS POINTS PROVIDED BY THE AIRPORT

**TELECOMM AND ELEC UTILITY LAYOUT**  
 SCALE: 1"=200'

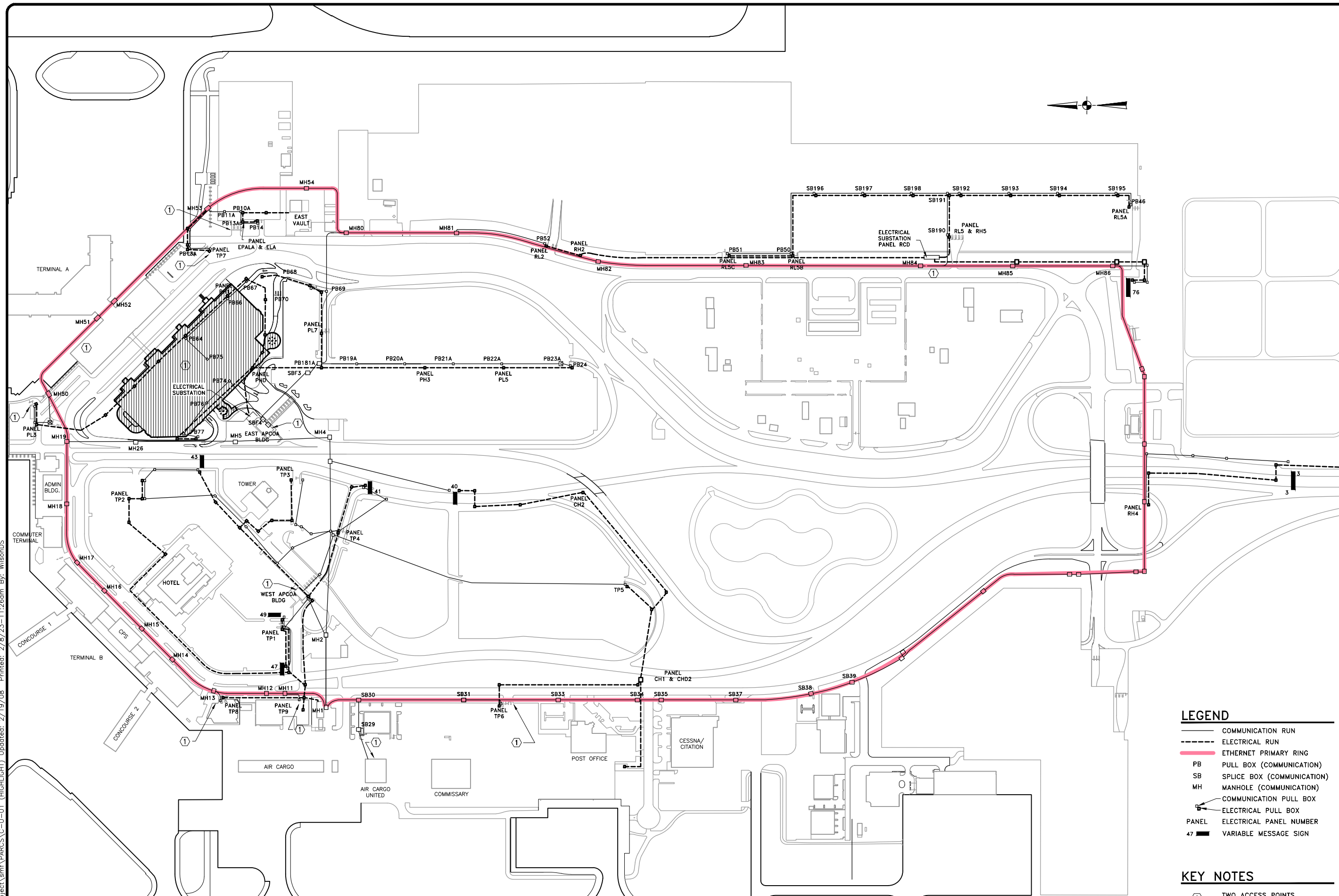
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DRAWN BY: DSU
DATE: 6/20/03
DESIGNED BY:
CHECKED BY:
DRAWING NO.:
SCALE: AS SHOWN
SHEET NO. 1 OF 6

NO.	DATE	BY	DESCRIPTION

**SACRAMENTO INTERNATIONAL AIRPORT**  
 SACRAMENTO INTERNATIONAL AIRPORT  
 PARCS AND VARIABLE MESSAGE SIGNAGE  
 COMMUNICATION AND POWER LAYOUT

LINE IS 2 INCHES AT FULL SIZE (IF NOT 2" SCALE ACCORDINGLY)
FILE NAME:
DRAWN BY:
DATE:
DESIGNED BY:
CHECKED BY:
DRAWING NO.:
SCALE: AS SHOWN
SHEET NO. 1 OF 6



- LEGEND**
- COMMUNICATION RUN
  - - - ELECTRICAL RUN
  - ETHERNET PRIMARY RING
  - PB PULL BOX (COMMUNICATION)
  - SB SPLICE BOX (COMMUNICATION)
  - MH MANHOLE (COMMUNICATION)
  - COMMUNICATION PULL BOX
  - ELECTRICAL PULL BOX
  - PANEL ELECTRICAL PANEL NUMBER
  - 47 VARIABLE MESSAGE SIGN

**KEY NOTES**

① TWO ACCESS POINTS PROVIDED BY THE AIRPORT

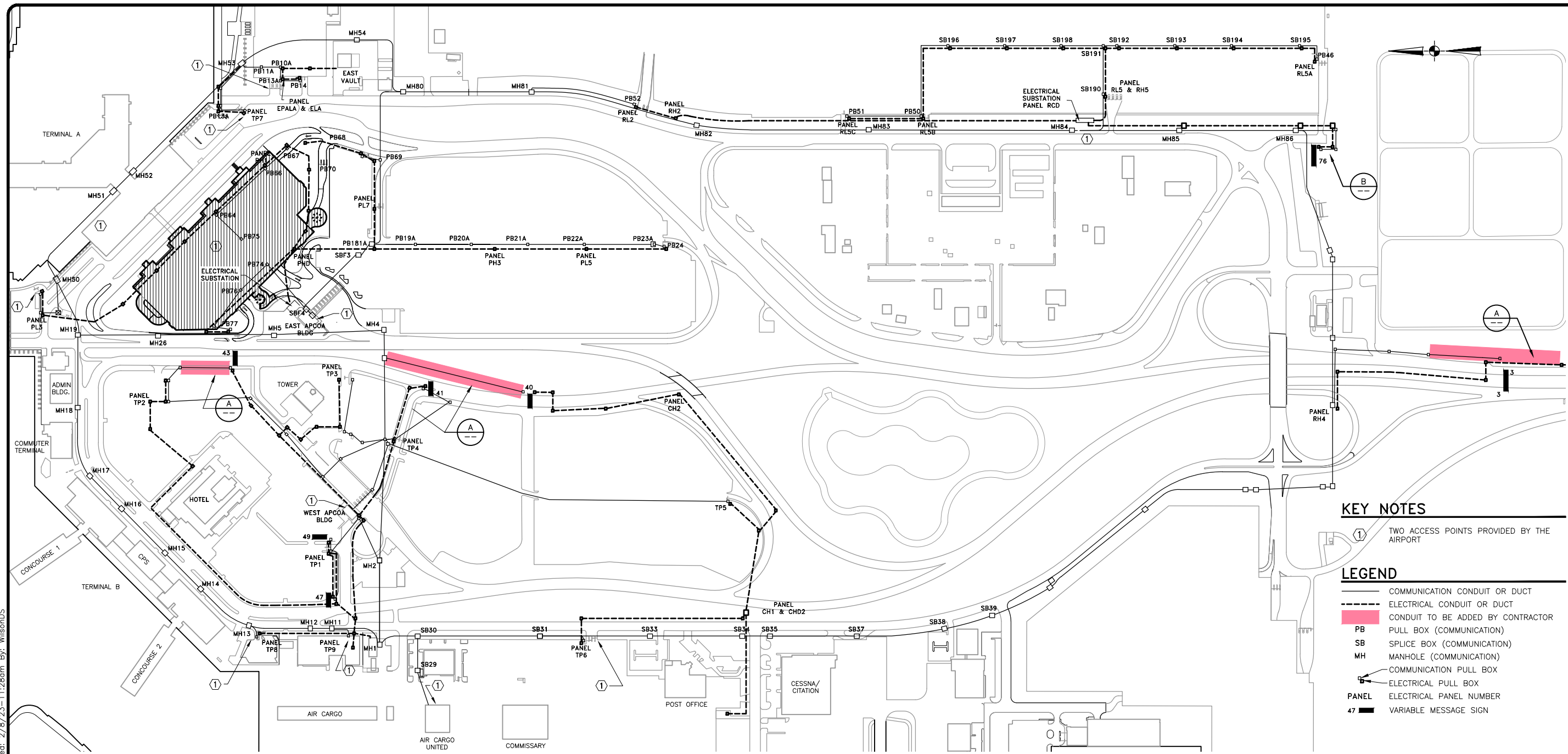
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 SCALE: 1"=200'

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NO.	DATE	BY	DESCRIPTION

**SACRAMENTO INTERNATIONAL AIRPORT**  
PARCS AND VARIABLE MESSAGE SIGNAGE  
COMMUNICATION AND POWER LAYOUT

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AT FULL SIZE
(IF NOT 2" SCALE ACCORDINGLY)
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DRAWN BY: DSW
DATE: 5/13/23
DESIGNED BY:
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SHEET NO. OF



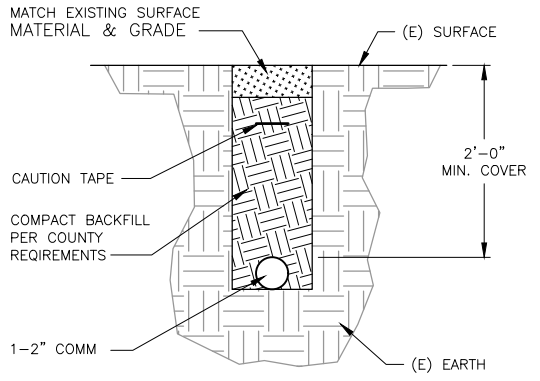
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NO SCALE

**KEY NOTES**

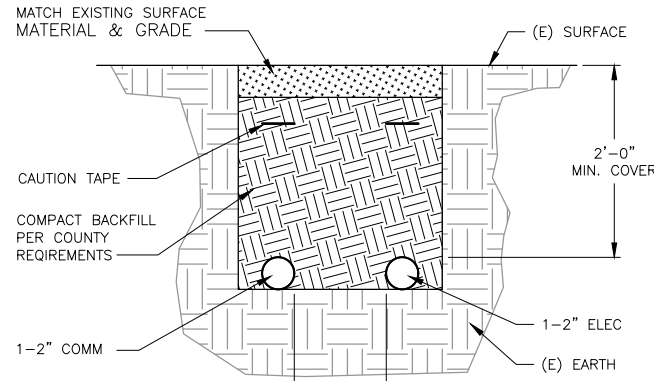
① TWO ACCESS POINTS PROVIDED BY THE AIRPORT

**LEGEND**

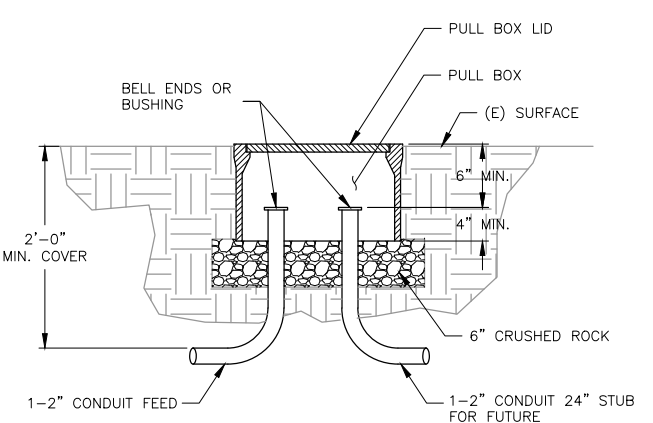
- COMMUNICATION CONDUIT OR DUCT
- ELECTRICAL CONDUIT OR DUCT
- CONDUIT TO BE ADDED BY CONTRACTOR
- PB PULL BOX (COMMUNICATION)
- SB SPLICE BOX (COMMUNICATION)
- MH MANHOLE (COMMUNICATION)
- ☐ COMMUNICATION PULL BOX
- ☐ ELECTRICAL PULL BOX
- PANEL ELECTRICAL PANEL NUMBER
- 47 VARIABLE MESSAGE SIGN



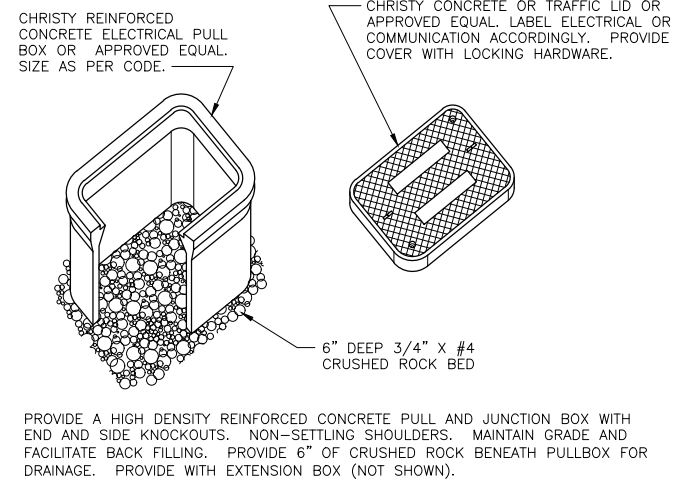
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**DETAIL B**  
NO SCALE



**DETAIL C**  
TYPICAL CONDUIT STUB UP IN PULL BOX  
NO SCALE

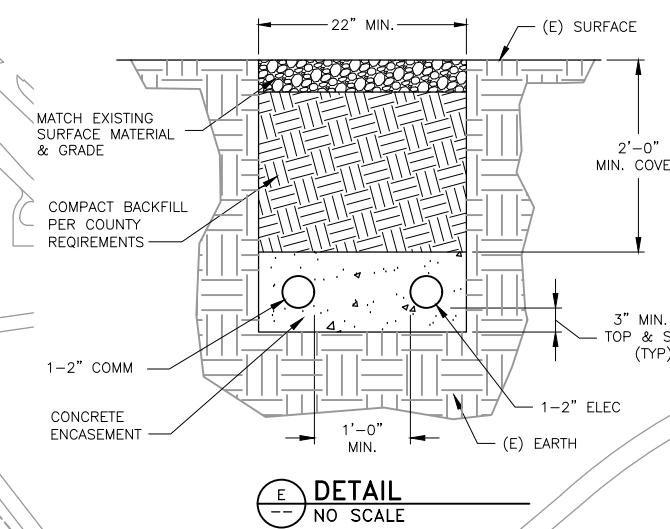
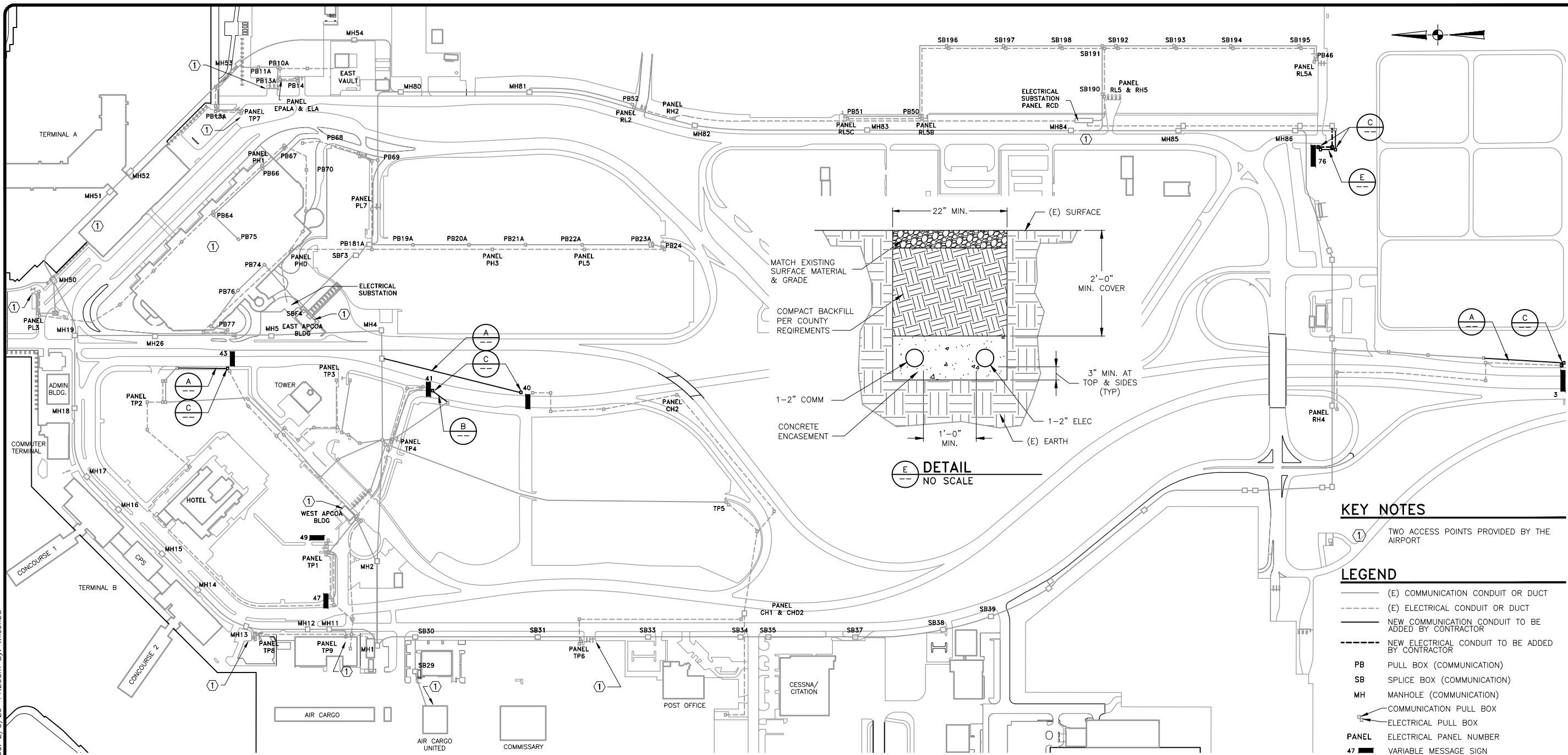


**DETAIL D**  
PULL BOX DETAIL  
NO SCALE

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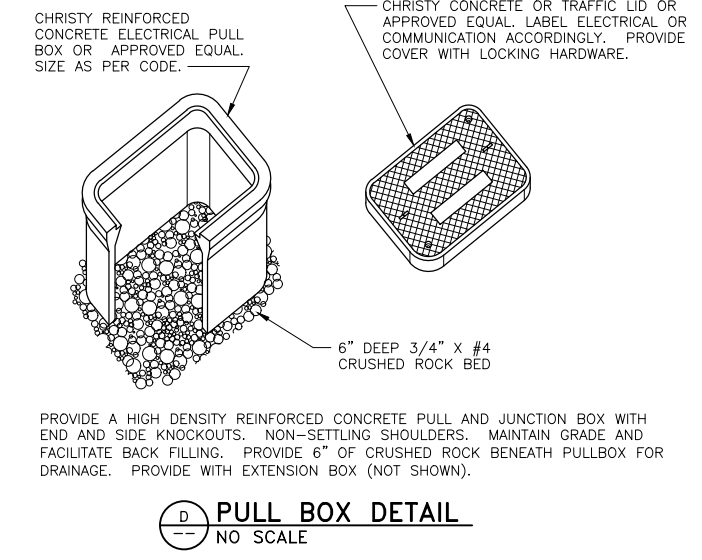
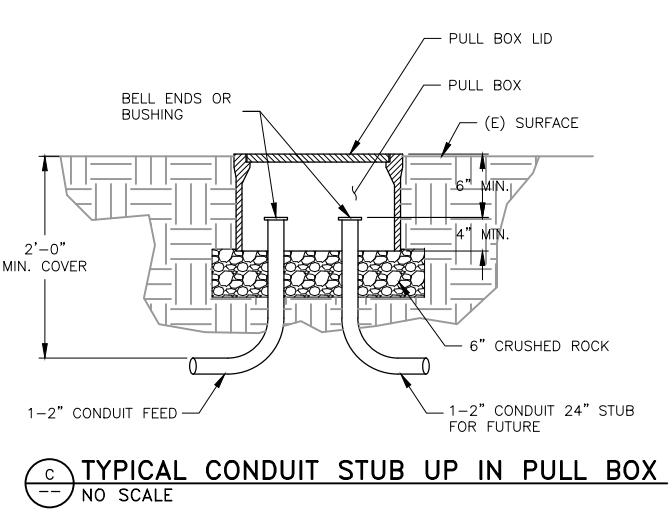
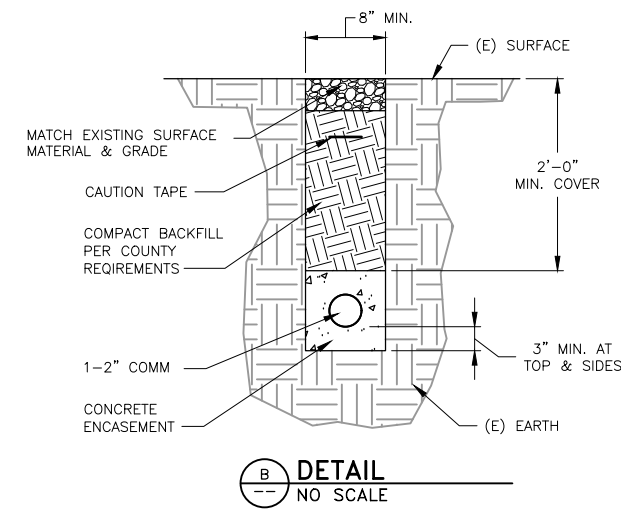
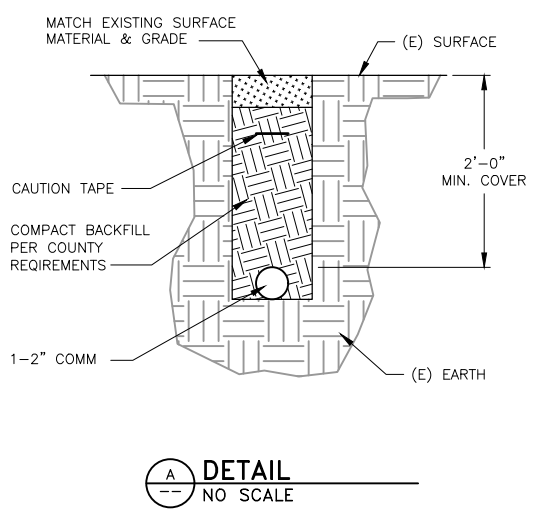
**KEY NOTES**

- ① TWO ACCESS POINTS PROVIDED BY THE AIRPORT

**LEGEND**

- (E) COMMUNICATION CONDUIT OR DUCT
- - - (E) ELECTRICAL CONDUIT OR DUCT
- NEW COMMUNICATION CONDUIT TO BE ADDED BY CONTRACTOR
- - - NEW ELECTRICAL CONDUIT TO BE ADDED BY CONTRACTOR
- PB PULL BOX (COMMUNICATION)
- SB SPLICE BOX (COMMUNICATION)
- MH MANHOLE (COMMUNICATION)
- COMMUNICATION PULL BOX
- ELECTRICAL PULL BOX
- PANEL ELECTRICAL PANEL NUMBER
- 47 VARIABLE MESSAGE SIGN

**TELECOMM AND ELEC UTILITY LAYOUT**  
NO SCALE

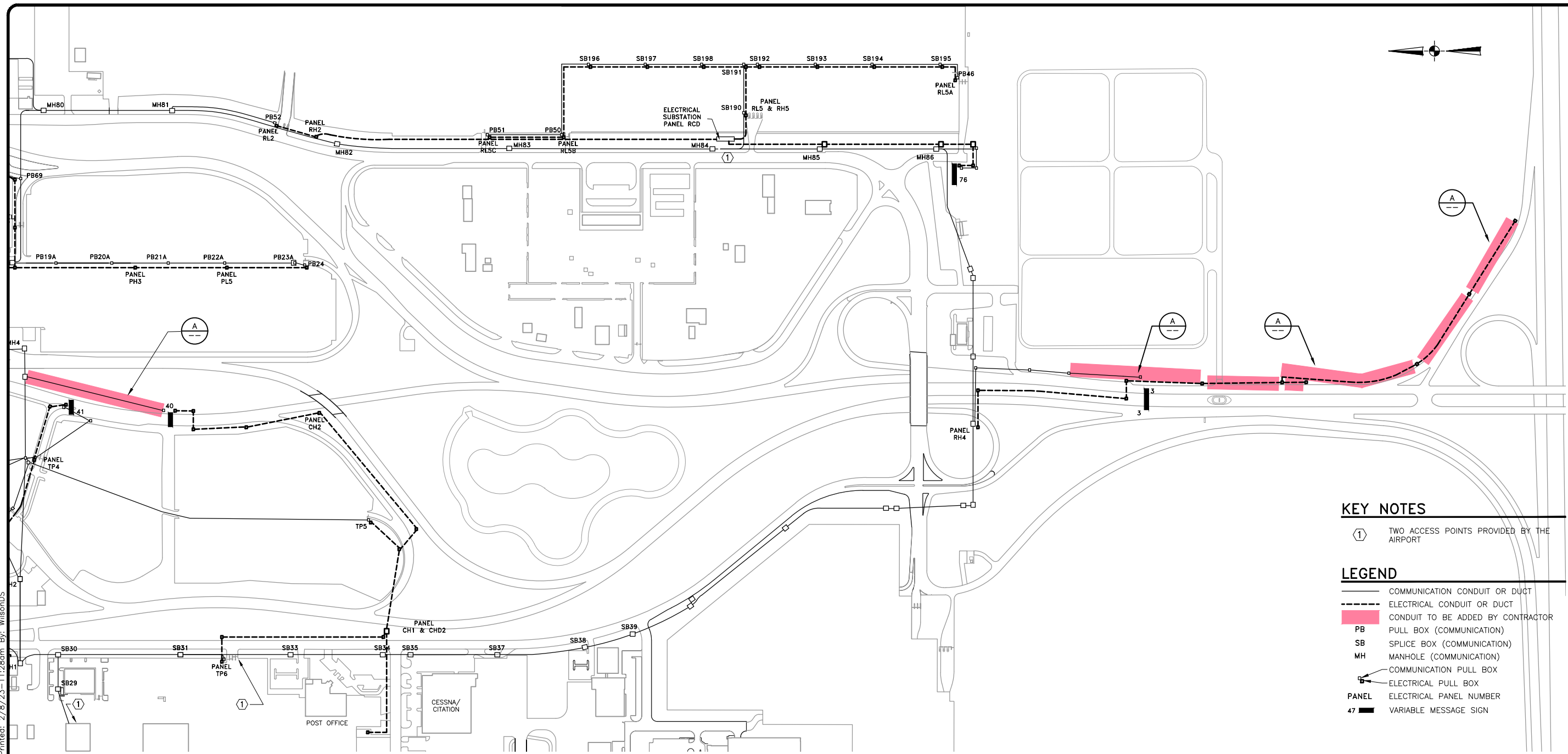


NO.	DATE	BY	DESCRIPTION

NO.	DATE	BY	DESCRIPTION

**SACRAMENTO INTERNATIONAL AIRPORT**  
PARCS AND VARIABLE MESSAGE SIGNAGE  
COMMUNICATION AND POWER LAYOUT

LINE IS 2 INCHES AT FULL SIZE (IF NOT 2" SCALE ACCORDINGLY)
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SHEET NO. OF



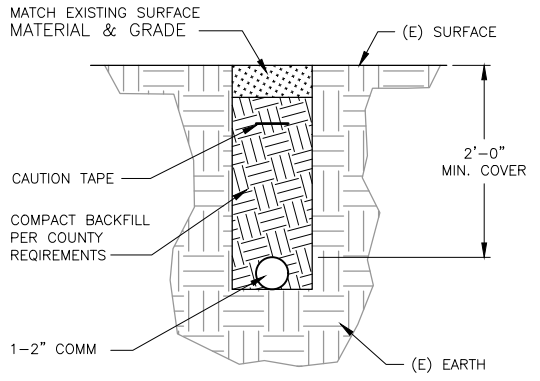
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**KEY NOTES**

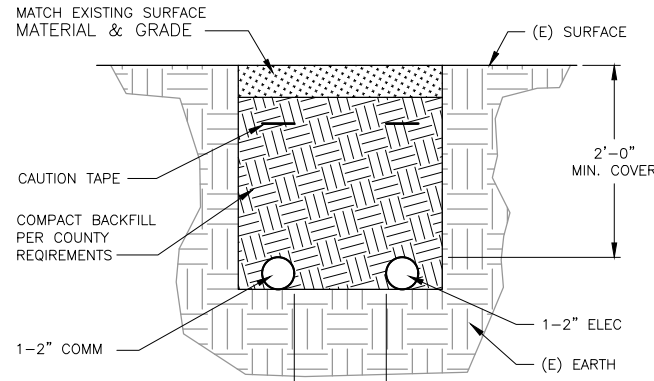
- ① TWO ACCESS POINTS PROVIDED BY THE AIRPORT

**LEGEND**

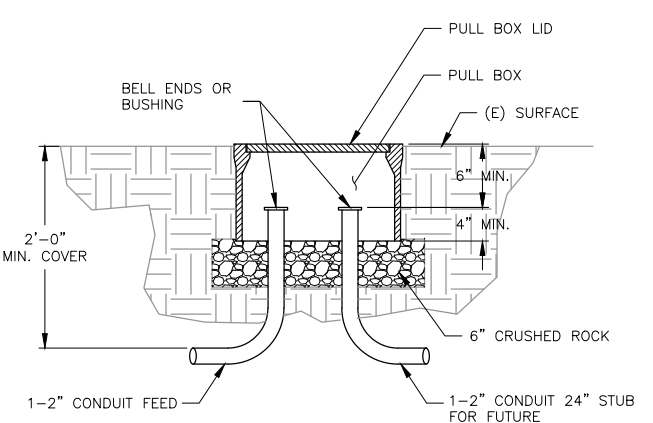
- COMMUNICATION CONDUIT OR DUCT
- ELECTRICAL CONDUIT OR DUCT
- █ CONDUIT TO BE ADDED BY CONTRACTOR
- PB PULL BOX (COMMUNICATION)
- SB SPLICE BOX (COMMUNICATION)
- MH MANHOLE (COMMUNICATION)
- COMMUNICATION PULL BOX
- ELECTRICAL PULL BOX
- PANEL ELECTRICAL PANEL NUMBER
- 47 VARIABLE MESSAGE SIGN



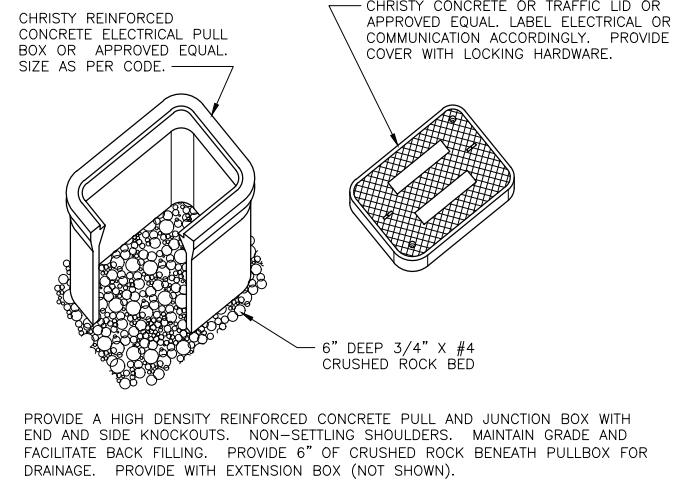
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**B** DETAIL  
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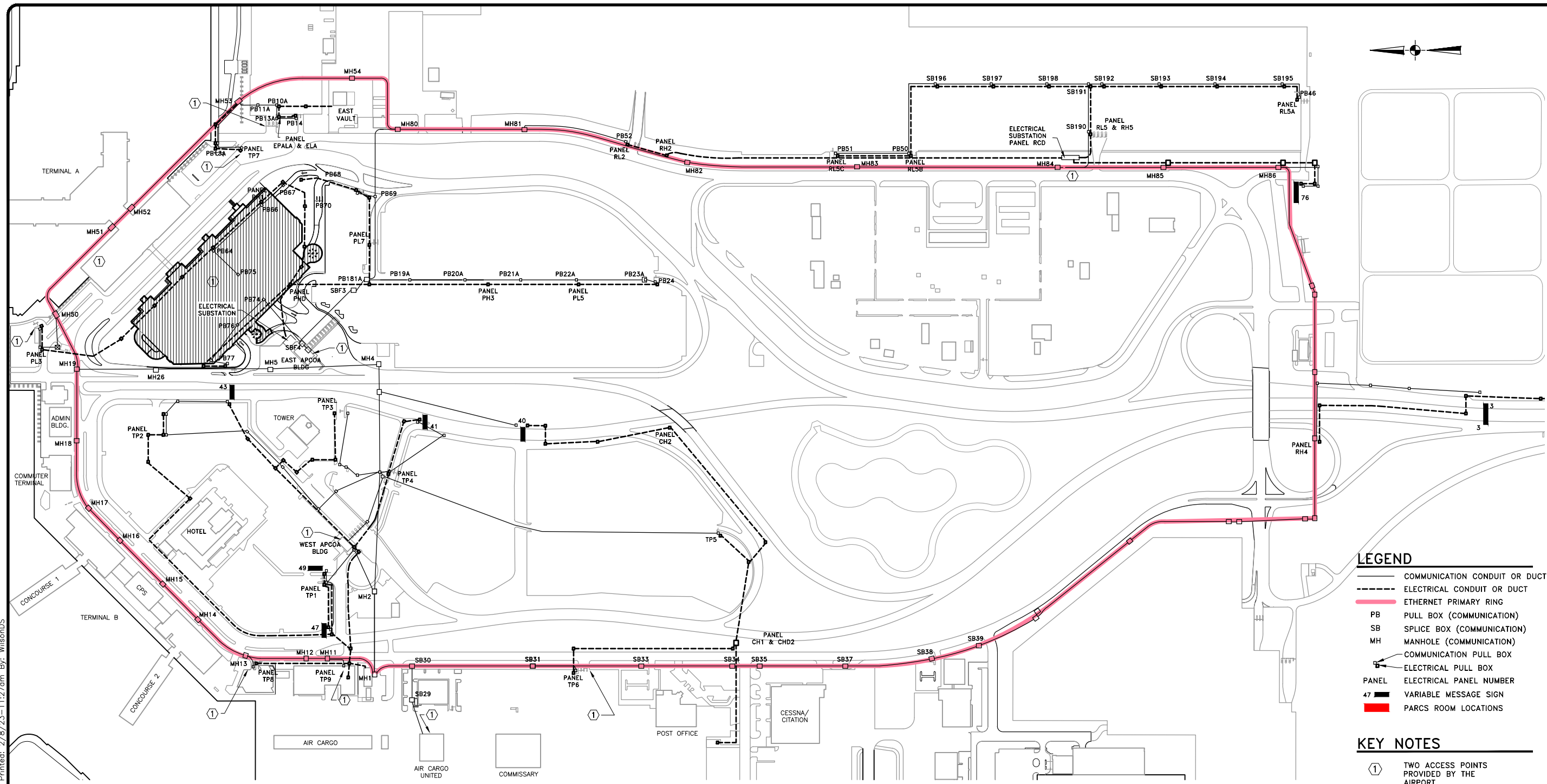
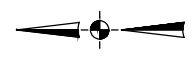


**C** TYPICAL CONDUIT STUB UP IN PULL BOX  
NO SCALE



**D** PULL BOX DETAIL  
NO SCALE

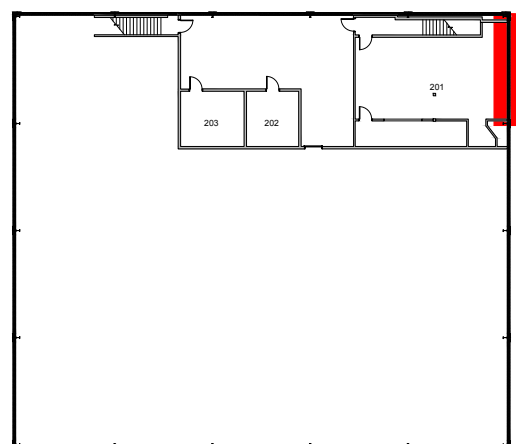
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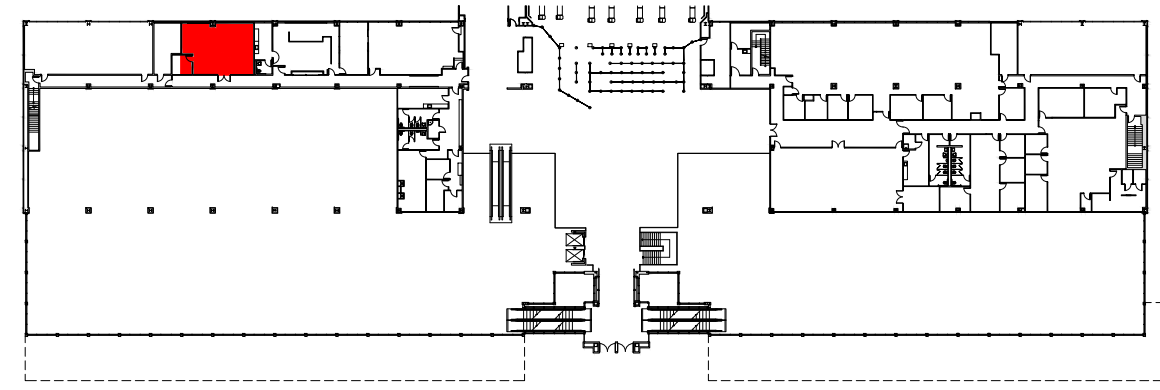
- LEGEND**
- COMMUNICATION CONDUIT OR DUCT
  - - - ELECTRICAL CONDUIT OR DUCT
  - ETHERNET PRIMARY RING
  - PB PULL BOX (COMMUNICATION)
  - SB SPLICE BOX (COMMUNICATION)
  - MH MANHOLE (COMMUNICATION)
  - COMMUNICATION PULL BOX
  - ELECTRICAL PULL BOX
  - PANEL ELECTRICAL PANEL NUMBER
  - 47 VARIABLE MESSAGE SIGN
  - PARCS ROOM LOCATIONS

- KEY NOTES**
- ① TWO ACCESS POINTS PROVIDED BY THE AIRPORT

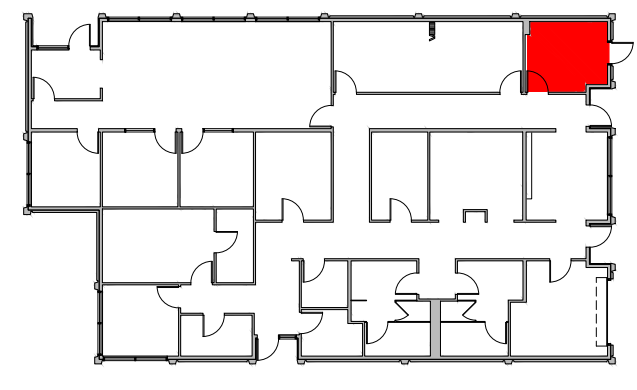
**TELECOMM AND ELEC UTILITY LAYOUT**  
 NO SCALE



**UNITED AIR CARGO MEZZANINE (SECONDARY SERVER)**  
 SCALE: N.T.S.



**TERMINAL A MEZZANINE (PRIMARY & ARCHIVE SERVERS)**  
 SCALE: N.T.S.



**EAST PARKING LOT BLDG (MAINTENANCE)**  
 SCALE: N.T.S.

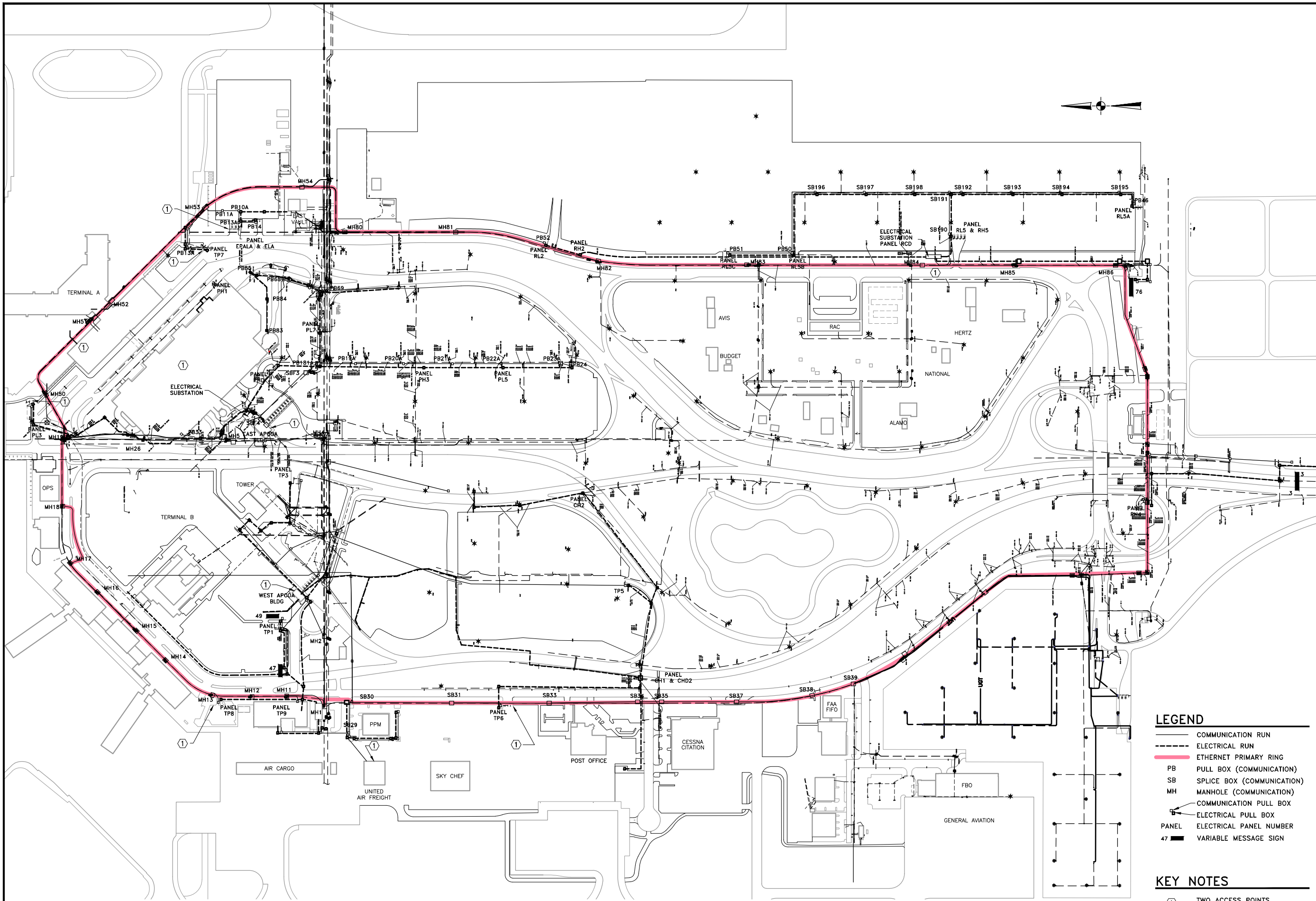
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**SACRAMENTO INTERNATIONAL AIRPORT**  
 PARCS AND VARIABLE MESSAGE SIGNAGE  
 COMMUNICATION AND POWER LAYOUT

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DRAWN BY:	DSW
DATE:	6/20/03
DESIGNED BY:	
CHECKED BY:	
DRAWING NO.	
SCALE:	AS SHOWN
SHEET NO.	1 OF 1





- LEGEND**
- COMMUNICATION RUN
  - - - ELECTRICAL RUN
  - ETHERNET PRIMARY RING
  - PB PULL BOX (COMMUNICATION)
  - SB SPLICE BOX (COMMUNICATION)
  - MH MANHOLE (COMMUNICATION)
  - ⊞ COMMUNICATION PULL BOX
  - ⊞ ELECTRICAL PULL BOX
  - PANEL ELECTRICAL PANEL NUMBER
  - 47 VARIABLE MESSAGE SIGN

- KEY NOTES**
- ① TWO ACCESS POINTS PROVIDED BY THE AIRPORT

**REVISIONS**

NO.	DATE	DESCRIPTION

FILE NAME:  
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 DATE:  
 DESIGNED BY:  
 CHECKED BY:  
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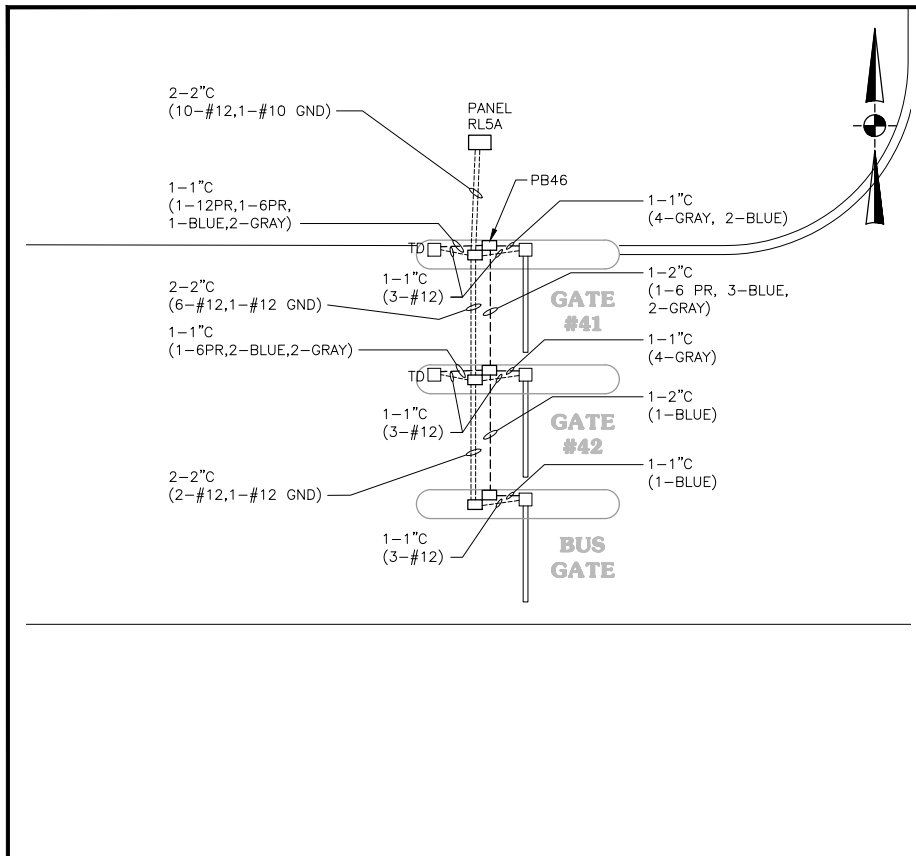
**SACRAMENTO INTERNATIONAL AIRPORT**

SHEET TITLE

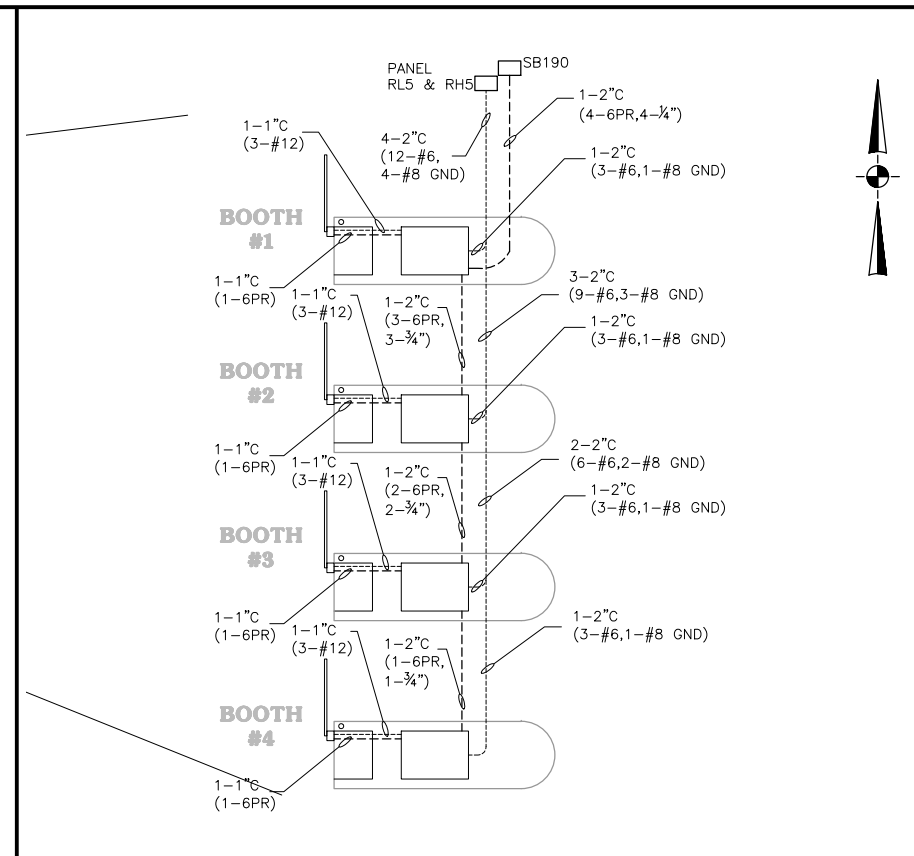
DRAWING NO.  
 SHEET NO. 1 OF 6

**TELECOMM AND ELEC UTILITY LAYOUT**  
 SCALE: 1"=200'

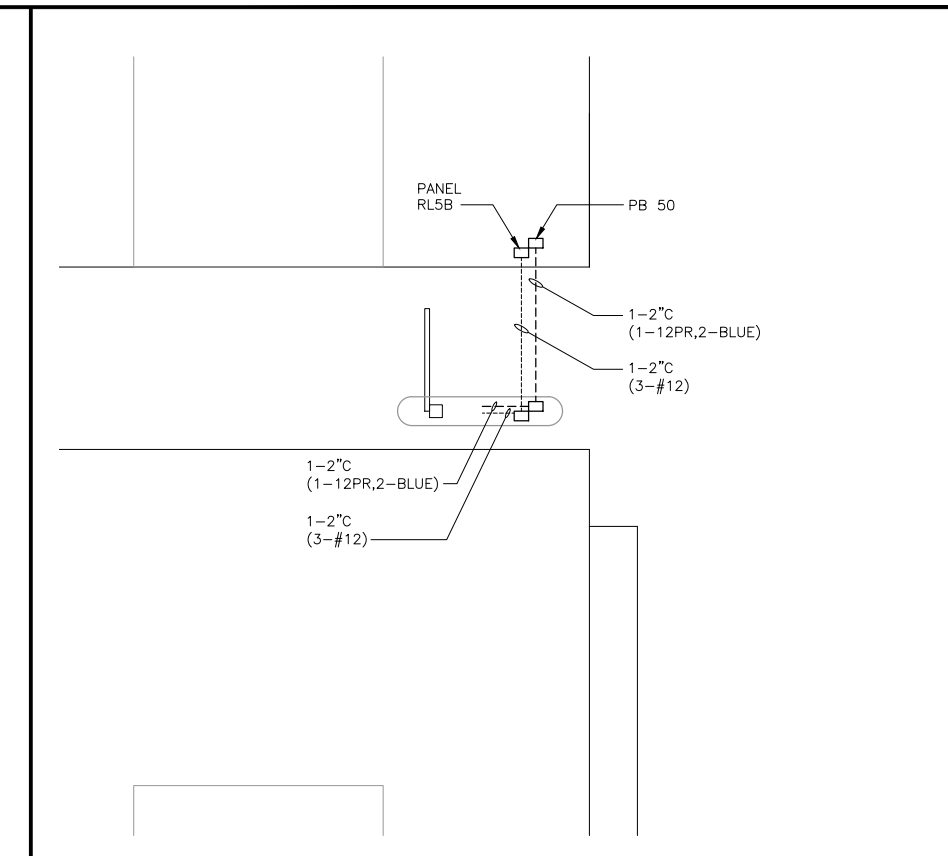
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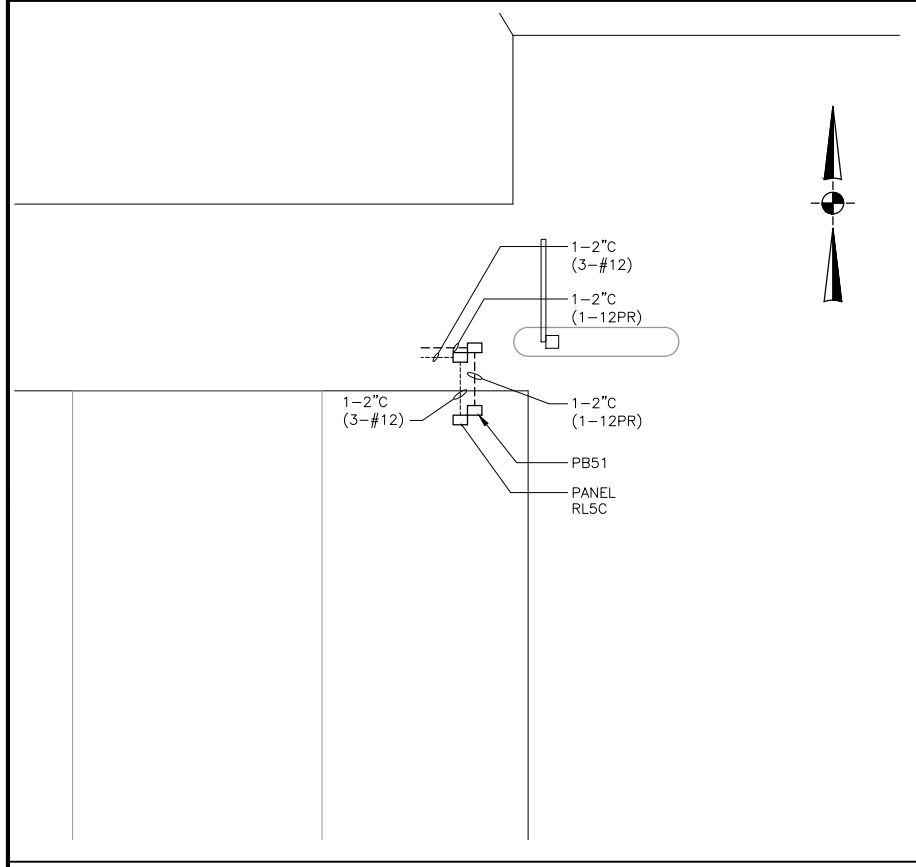
**DETAIL 1 - ECONOMY LOT ENTRANCE**  
 SCALE: 1" = 10'



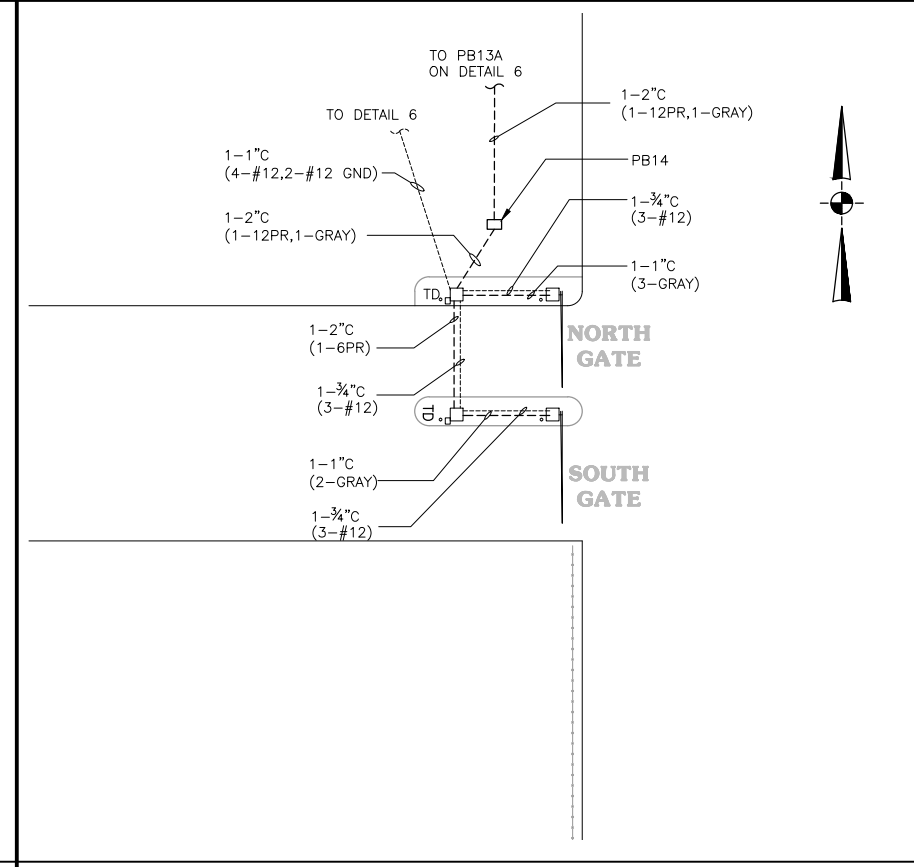
**DETAIL 2 - ECONOMY LOT EXIT PLAZA #1**  
 SCALE: 1" = 10'



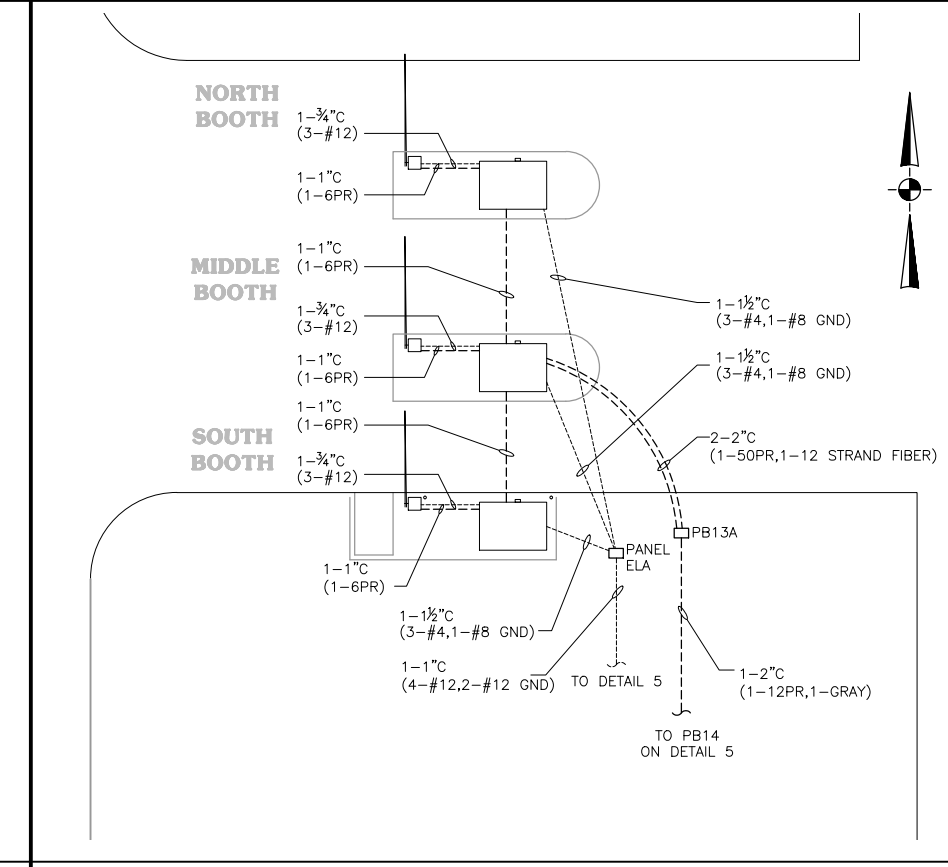
**DETAIL 3 - ECONOMY LOT SHUTTLE BUS EXIT #1**  
 SCALE: 1" = 10'



**DETAIL 4 - ECONOMY LOT SHUTTLE BUS EXIT #2**  
 SCALE: 1" = 10'



**DETAIL 5 - EMPLOYEE PARKING LOT 51 ENTRANCE**  
 SCALE: 1" = 10'



**DETAIL 6 - EMPLOYEE PARKING LOT 51 EXIT**  
 SCALE: 1" = 10'

**LEGEND**

- ELECTRICAL AND COMMUNICATION PULLBOX
- TICKET DISPENSER
- CARD READER
- COMMUNICATION RUN
- ELECTRICAL RUN
- BLUE
- GRAY
- 22 GAUGE SHIELD TWISTED COPPER WIRES FOR LOW VOLTAGE (1PAIR, 2PAIR OR 9 CONDUCTORS)

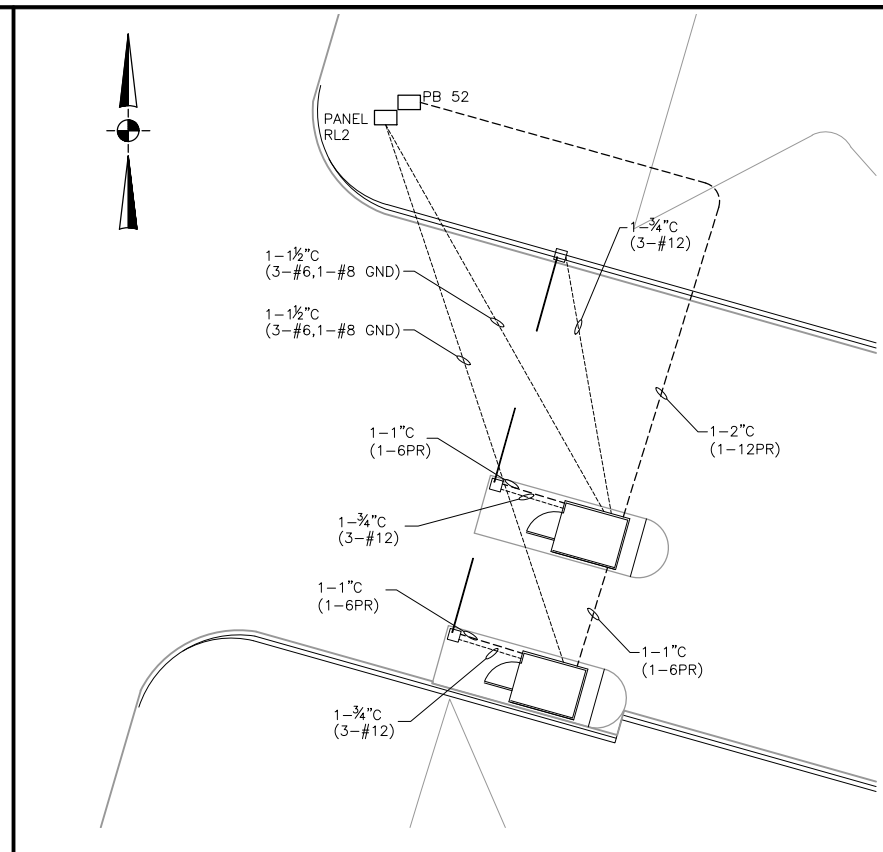
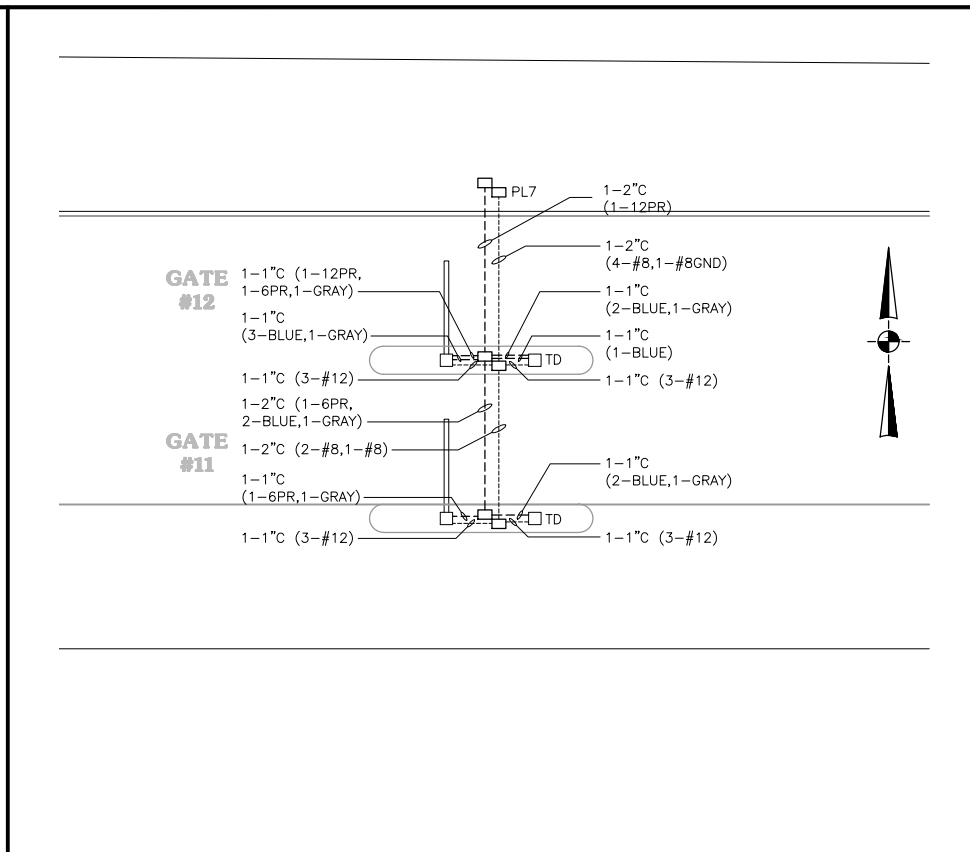
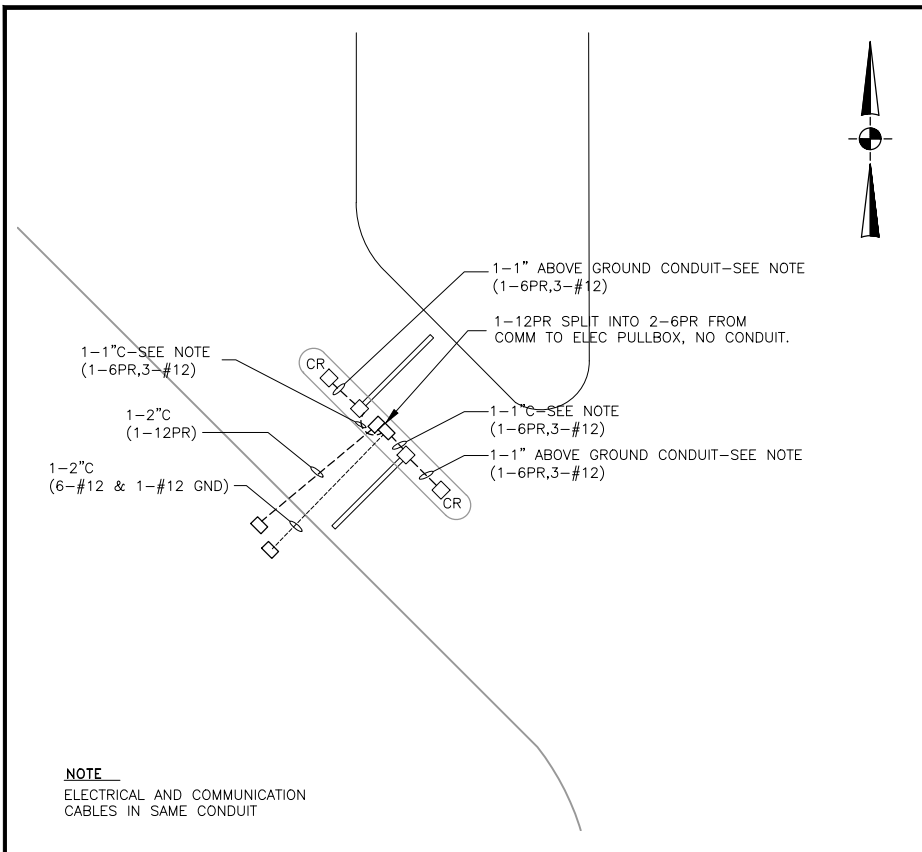
REVISIONS		
NO.	DATE	DESCRIPTION

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 CHECKED BY:  
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 AS SHOWN  
 LINE IS 2 INCHES AT FULL SIZE (IF NOT 2" SCALE ACCORDINGLY)

**SACRAMENTO INTERNATIONAL AIRPORT**

SHEET TITLE  
 AIRPORT PARKING LOT EQUIPMENT LAYOUT DETAILS

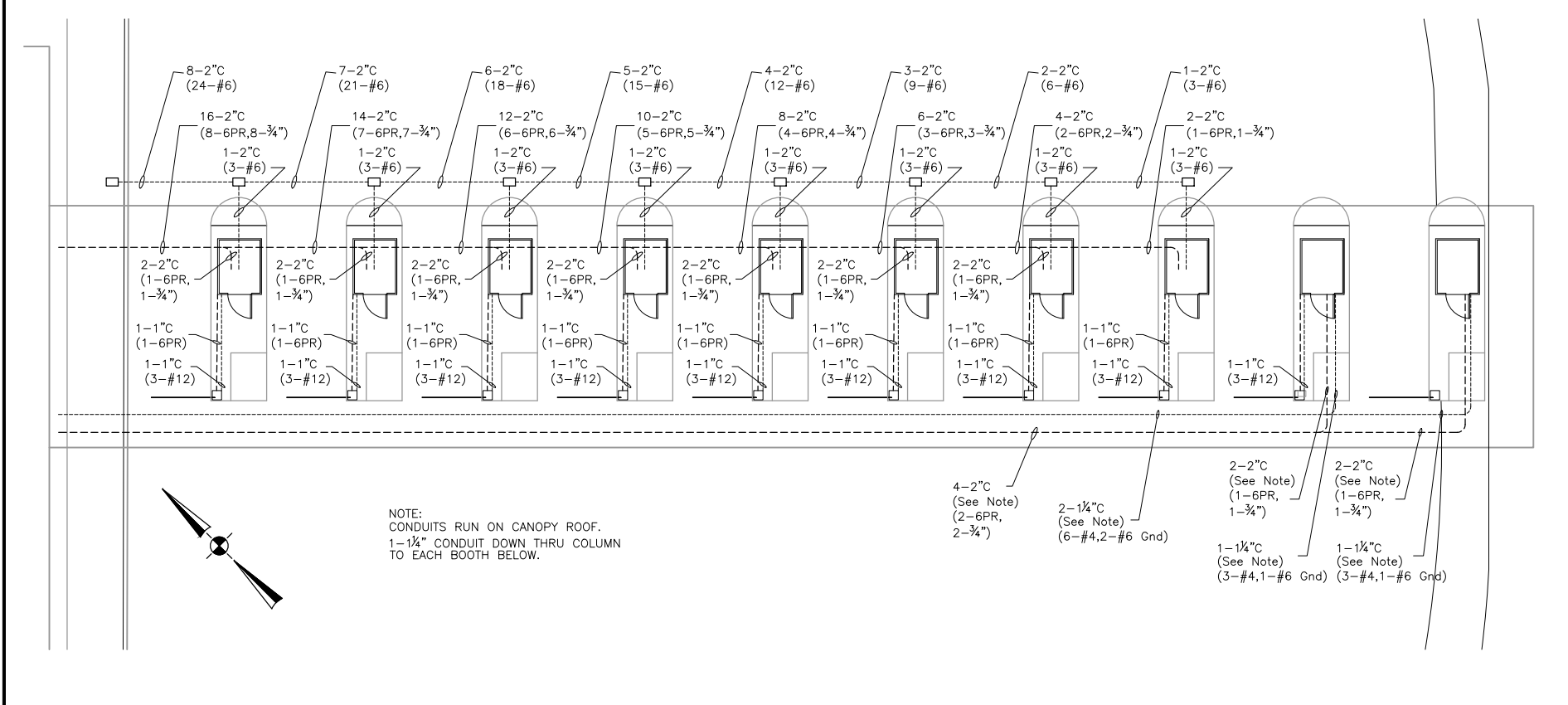
DRAWING NO.  
 SHEET NO. 2 OF 5



**DETAIL 7 - EMPLOYEE LOT 50**  
SCALE: 1" = 10'

**DETAIL 8 - DAILY A ENTRANCE**  
SCALE: 1" = 10'

**DETAIL 10 - ECONOMY LOT EXIT PLAZA #2**  
SCALE: 1" = 10'



**DETAIL 9 - EXIT PLAZA A**  
SCALE: 1" = 10'

**LEGEND**

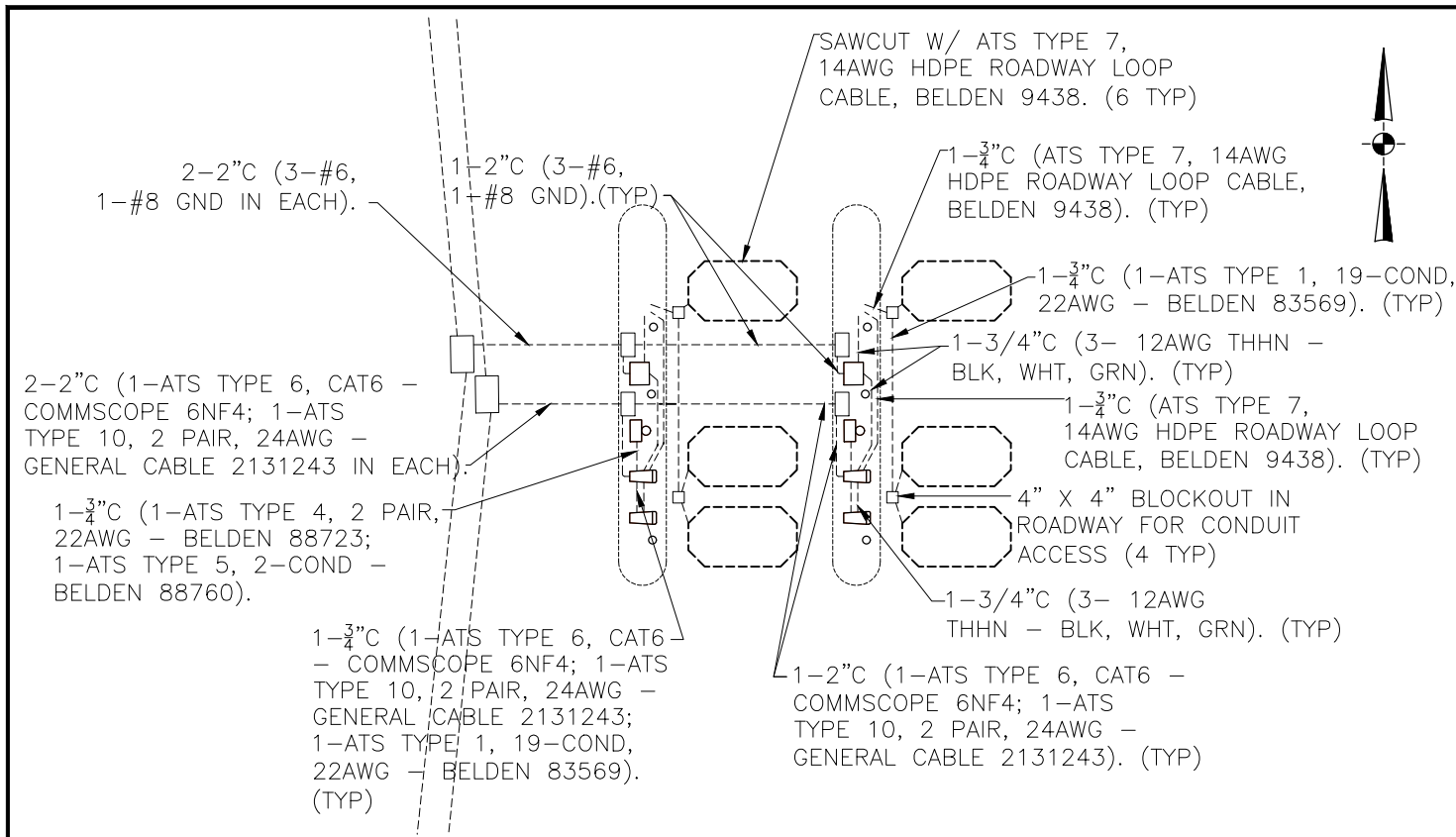
- ELECTRICAL AND COMMUNICATION PULLBOX
- COMMUNICATION RUN
- ELECTRICAL RUN
- CR CARD READER
- TD TICKET DISPENSER
- BLUE 2PAIR 22 GAUGE TWISTED COPPER WIRES
- GRAY 22 GAUGE SHIELD TWISTED COPPER WIRES FOR LOW VOLTAGE (1PAIR,2PAIR OR 9 CONDUCTORS)

REVISIONS		
NO.	DATE	DESCRIPTION

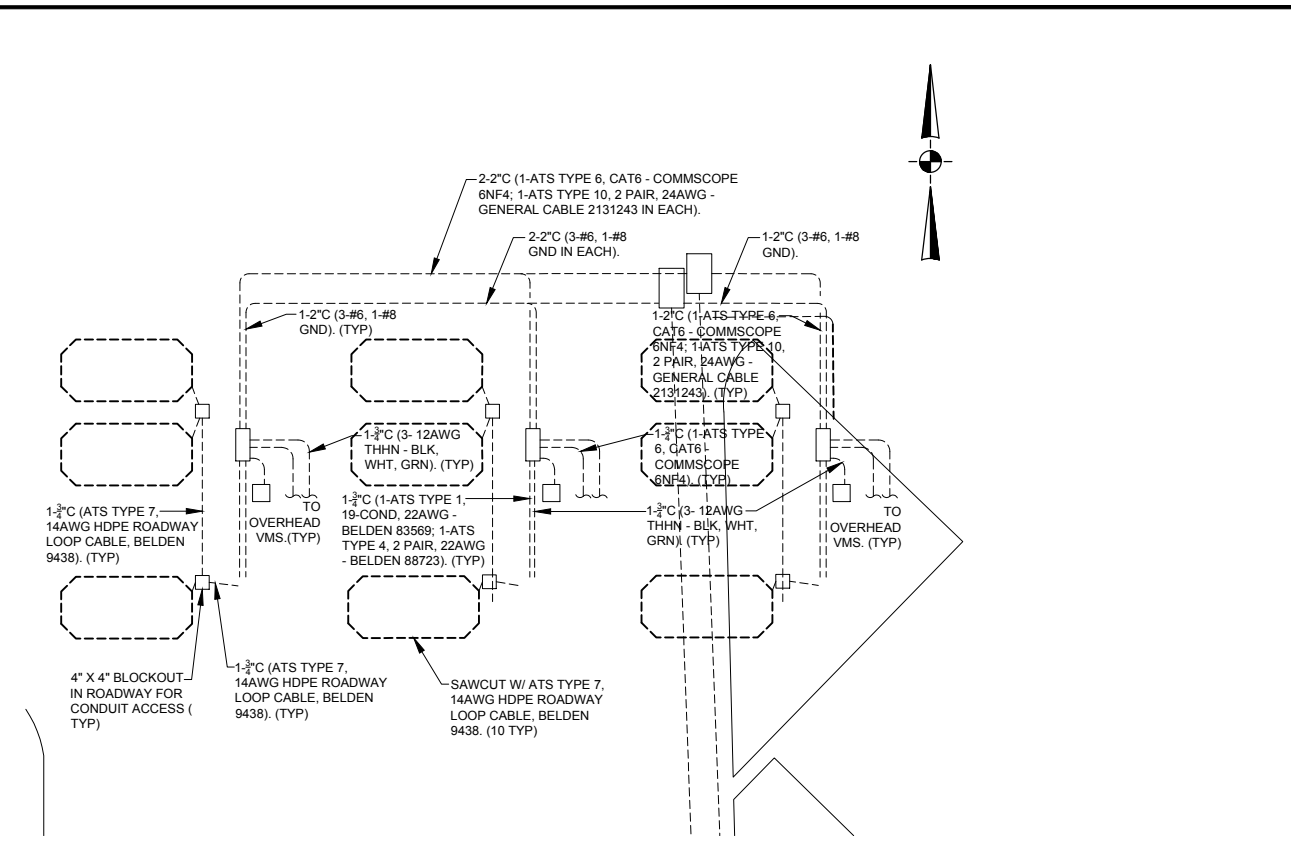
FILE NAME:
DRAWN BY: DSW
DATE: 3/13/2013
DESIGNED BY:
CHECKED BY:
SCALE: AS SHOWN
LINE IS 2 INCHES AT FULL SIZE (IF NOT 2" SCALE ACCORDINGLY)

**SACRAMENTO INTERNATIONAL AIRPORT**

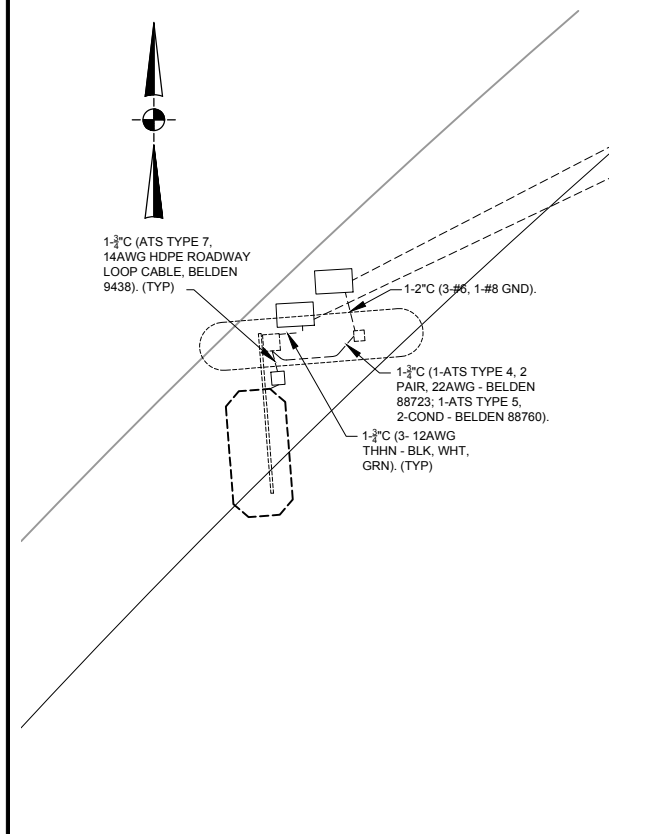
SHEET TITLE  
**AIRPORT PARKING LOT EQUIPMENT LAYOUT DETAILS**



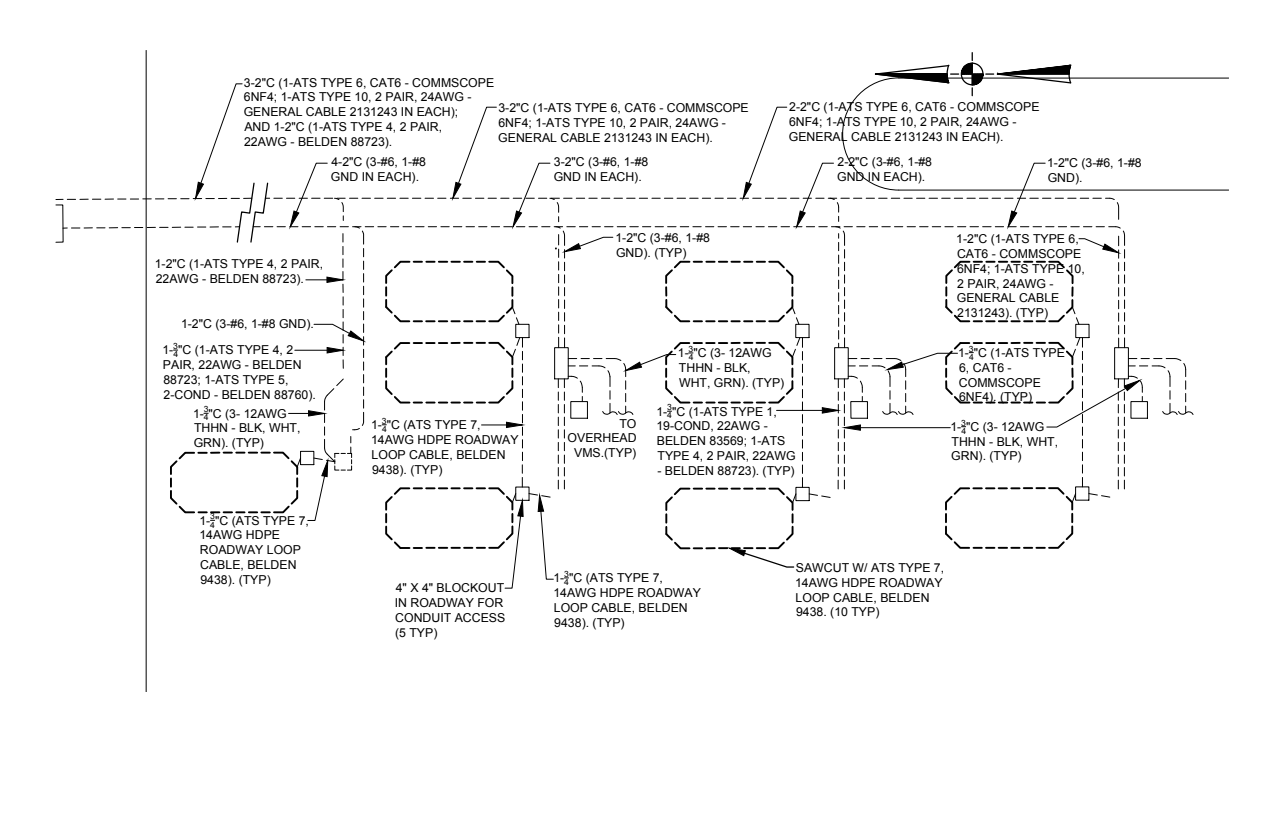
**DETAIL 12 - REVENUE ENTRY GATES HOURLY LOT B AND DAILY LOT B**  
 SCALE: 1:6



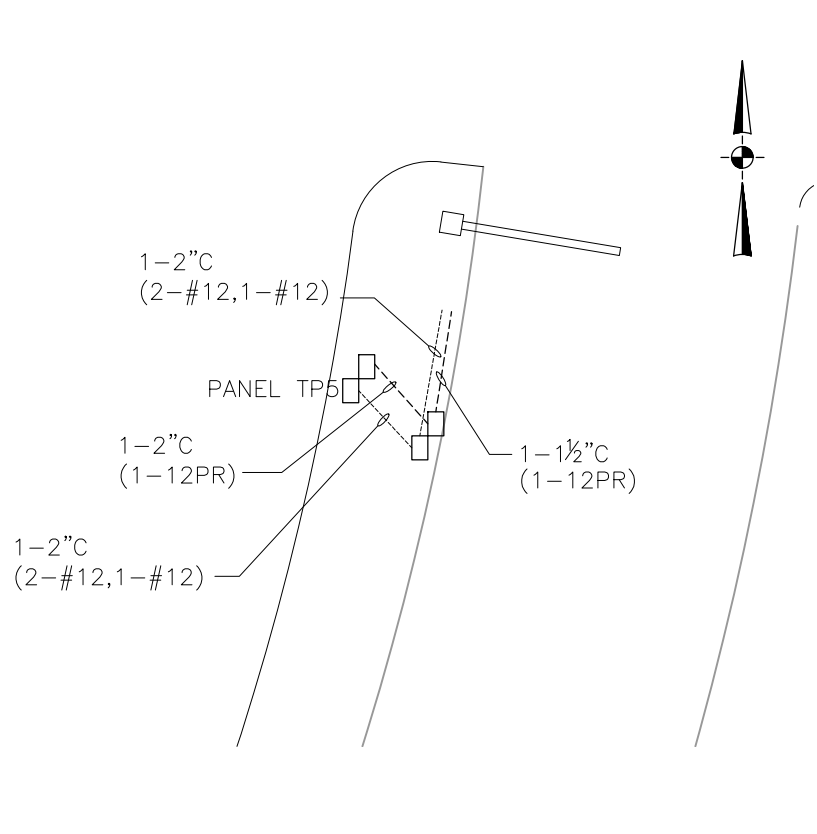
**DETAIL 13 - REVENUE EXIT GATES- HOURLY LOT B**  
 SCALE: 1:6



**DETAIL 14 - DAILY B SHUTTLE BUS EXIT**  
 SCALE: 1:6



**DETAIL 15 - REVENUE EXIT GATES DAILY LOT B**  
 SCALE: 1:6



**DETAIL 19 - DAILY B SHUTTLE BUS ENTRANCE**  
 SCALE: 1:6

REVISIONS		
NO.	DATE	DESCRIPTION

FILE NAME: C-U-01-13-DETAILS  
 DRAWN BY: DSW  
 DATE: 3/13/2013  
 DESIGNED BY:  
 CHECKED BY:  
 SCALE:  
 1" = 10'-0"  
 LINE IS 2 INCHES AT FULL SIZE (IF NOT 2" SCALE ACCORDINGLY)

**SACRAMENTO INTERNATIONAL AIRPORT**

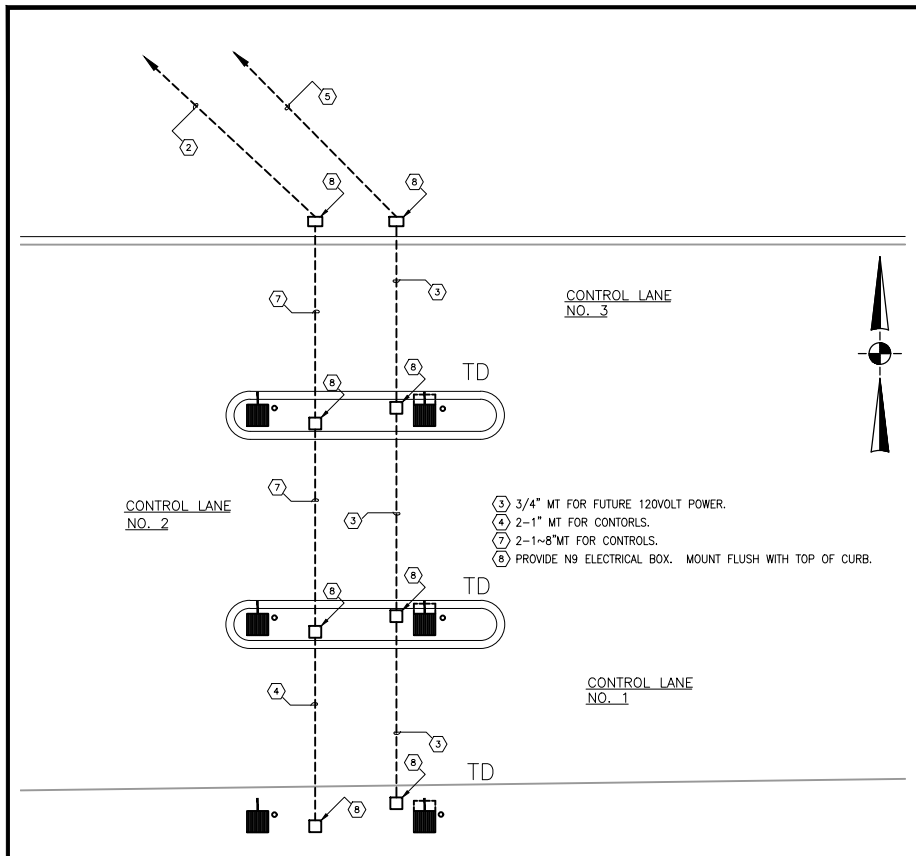
SHEET TITLE  
**AIRPORT PARKING LOT EQUIPMENT LAYOUT DETAILS**

DRAWING NO.  
 SHEET NO. 4 OF 5

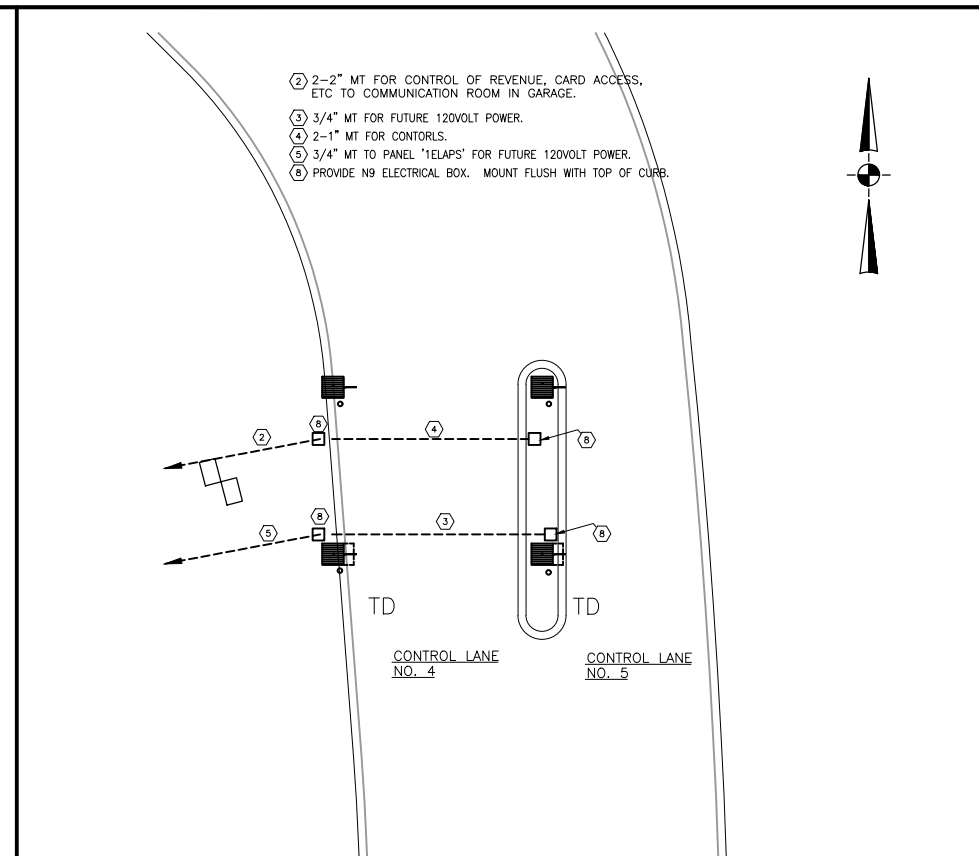
**LEGEND**

	ELECTRICAL AND COMMUNICATION PULLBOX	CR	CARD READER
	COMMUNICATION RUN	TD	TICKET DISPENSER
	ELECTRICAL RUN	BLU	2PAIR 22 GAUGE TWISTED COPPER WIRES
		GRY	22 GAUGE SHIELD TWISTED COPPER WIRES FOR LOW VOLTAGE (1PAIR, 2PAIR OR 9 CONDUCTORS)

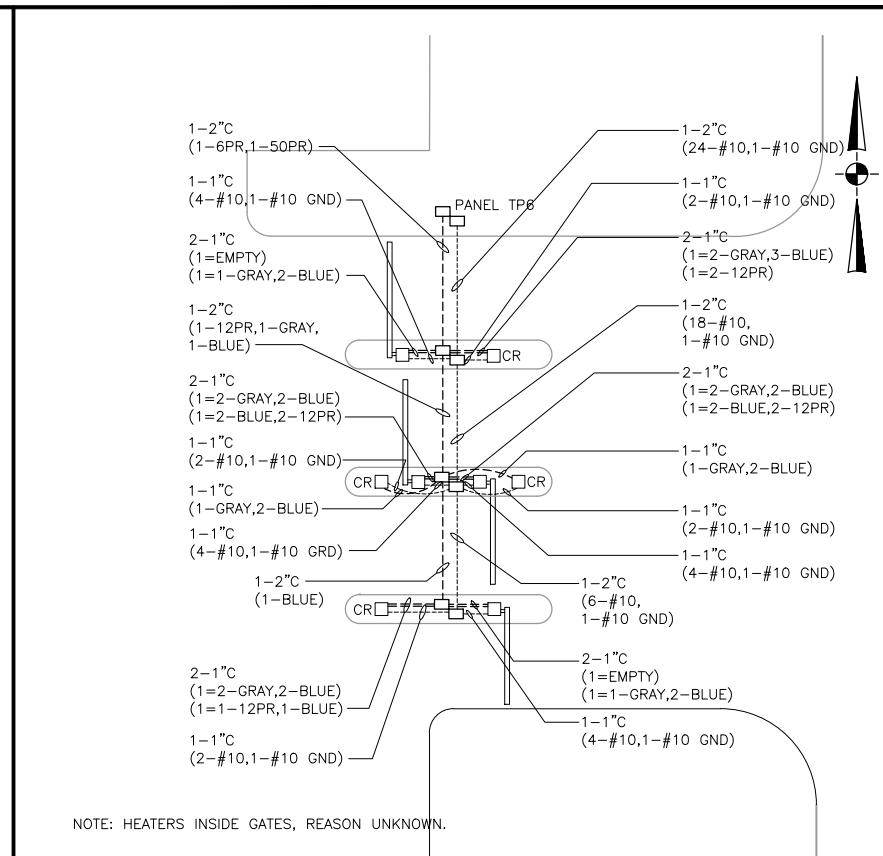
Updated: 3/13/2013 - Printed: 2/26/2023 11:31:54 AM By: Wilson, Don  
 File: V:\Projects\IAP\PARCSCU-01-13-DETAILS.dwg (Tab: SHEET 4 OF 5)



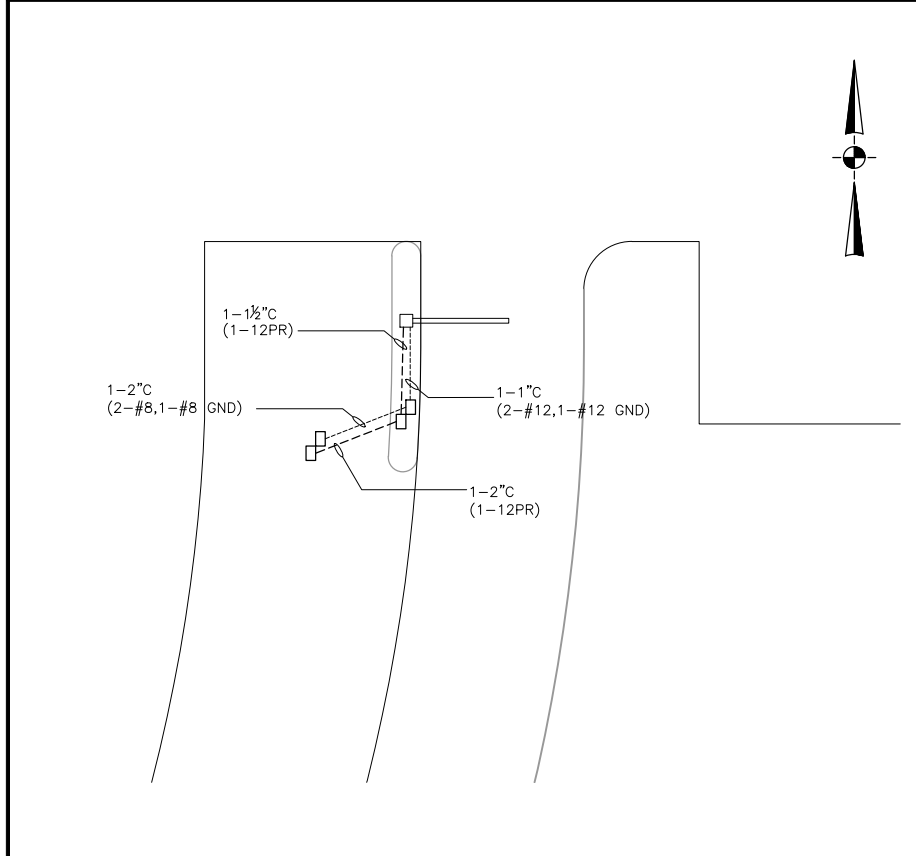
**DETAIL 16 - GARAGE A DAILY ENTRANCE**  
 SCALE: 1:6



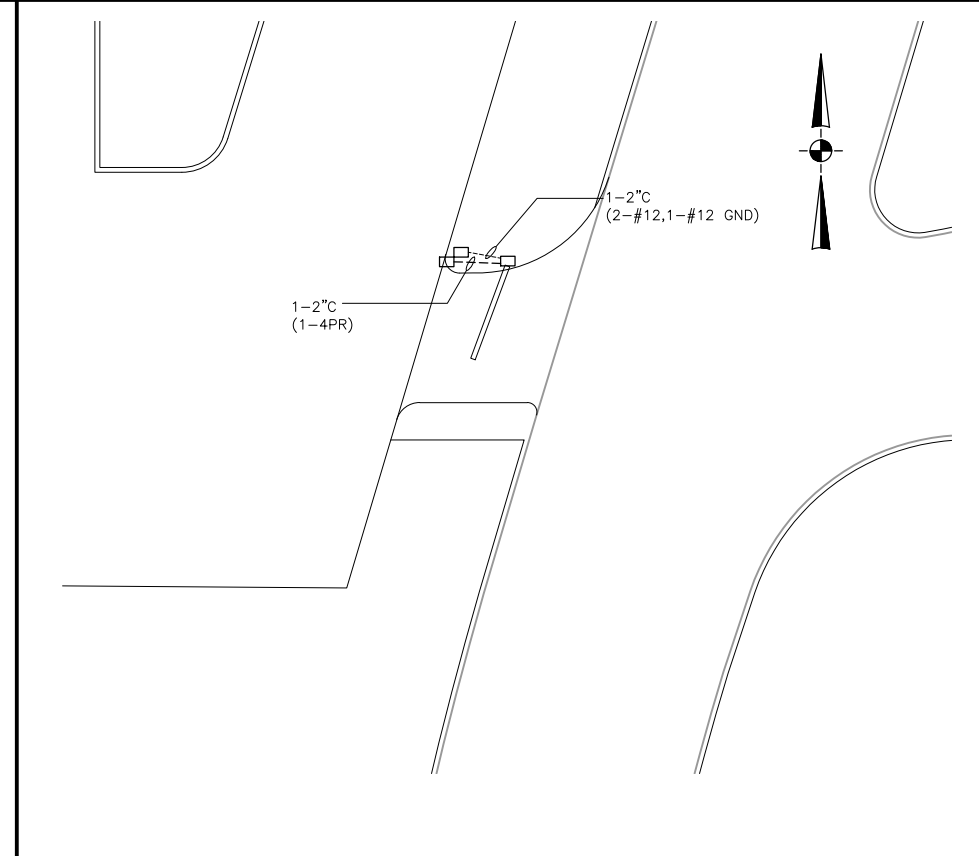
**DETAIL 17 - GARAGE A HOURLY ENTRANCE**  
 SCALE: 1:6



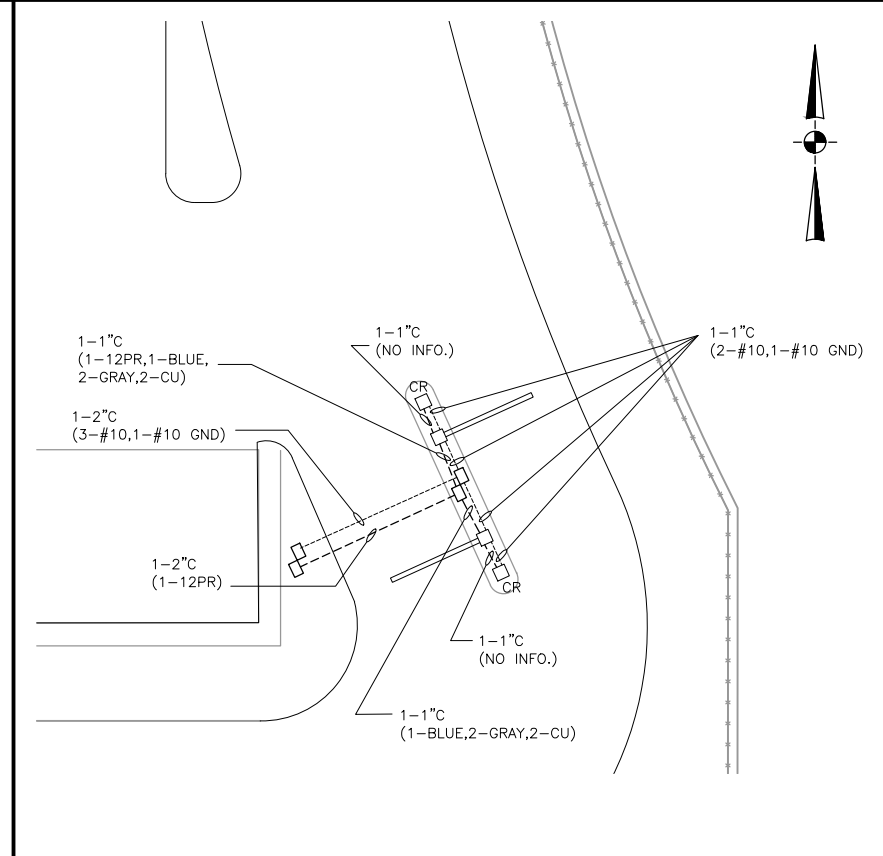
**DETAIL 18 - EMPLOYEE LOT ON LINDBERGH DRIVE**  
 SCALE: 1" = 10'



**DETAIL 20 - DAILY A SHUTTLE BUS ENTRANCE**  
 SCALE: 1" = 10'



**DETAIL 21 - DAILY A SHUTTLE BUS EXIT**  
 SCALE: 1" = 10'



**DETAIL 22 - EMPLOYEE ADMIN. LOT ENTRANCE & EXIT**  
 SCALE: 1" = 10'

REVISIONS		
NO.	DATE	DESCRIPTION

FILE NAME:  
 DRAWN BY: DSW  
 DATE: 3/13/2013  
 DESIGNED BY:  
 CHECKED BY:  
 SCALE:  
 1" = 10'-0"  
 LINE IS 2 INCHES AT FULL SIZE (IF NOT 2" SCALE ACCORDINGLY)

**SACRAMENTO INTERNATIONAL AIRPORT**

SHEET TITLE  
**AIRPORT PARKING LOT EQUIPMENT LAYOUT DETAILS**

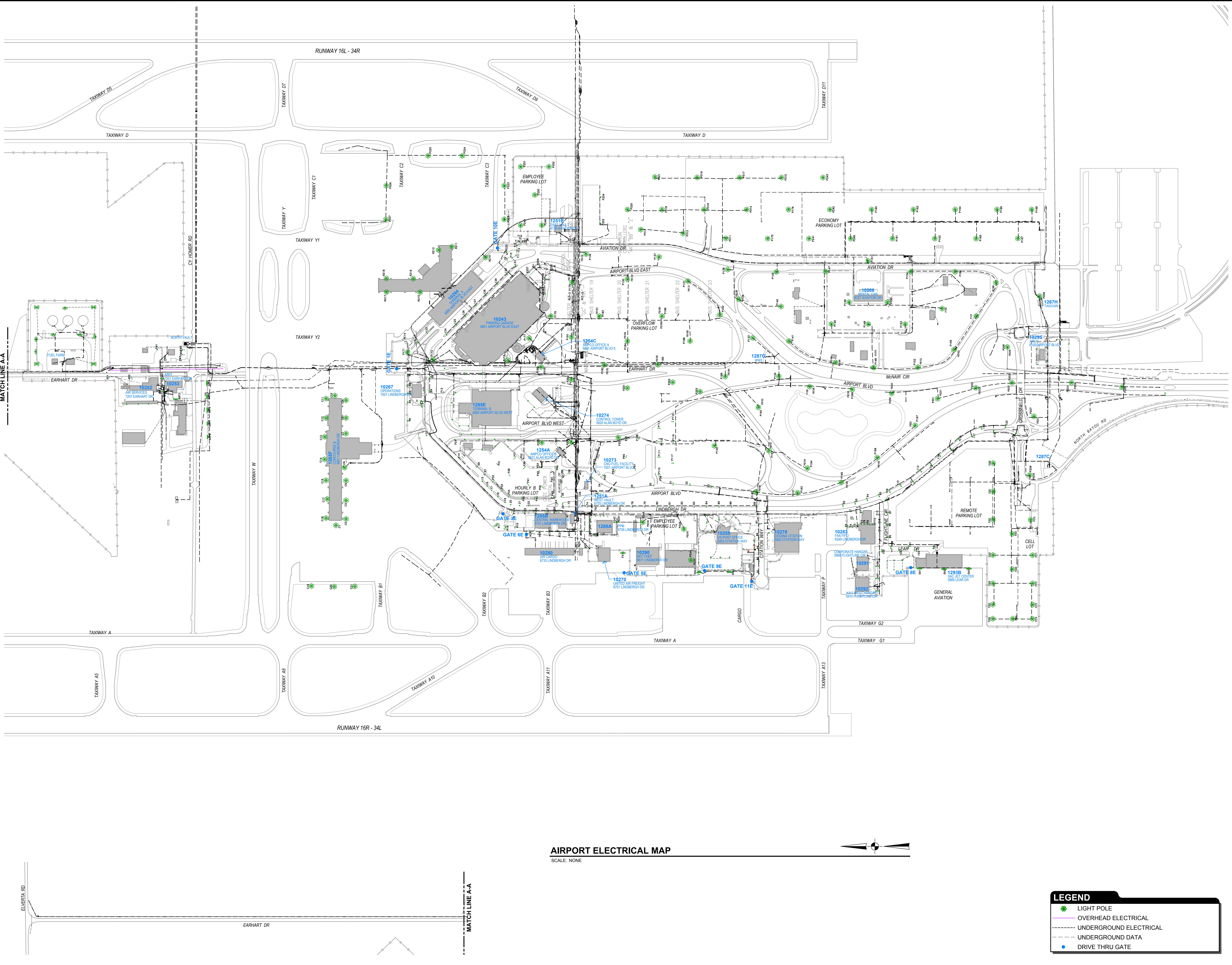
DRAWING NO.  
 SHEET NO. 5 OF 5

**LEGEND**

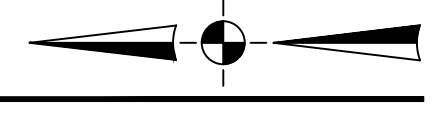
- ELECTRICAL AND COMMUNICATION PULLBOX
- COMMUNICATION RUN
- ELECTRICAL RUN
- CR CARD READER
- TD TICKET DISPENSER
- BLUE 2PAIR 22 GAUGE TWISTED COPPER WIRES
- GRAY 22 GAUGE SHIELD TWISTED COPPER WIRES FOR LOW VOLTAGE (1PAIR,2PAIR OR 9 CONDUCTORS)

Updated: 3/13/2013 - Printed: 2/6/2013 11:32:33 AM By: Wilson, Don  
 File: V:\projects\p\PARCSCU-01-13-DETAILS.dwg (Tab: SHEET 5 OF 5)





**AIRPORT ELECTRICAL MAP**  
 SCALE: NONE



**LEGEND**

- LIGHT POLE
- OVERHEAD ELECTRICAL
- - - UNDERGROUND ELECTRICAL
- - - UNDERGROUND DATA
- DRIVE THRU GATE

**REVISIONS**

NO.	DATE	DESCRIPTION

FILE NAME: CU-10250-106  
 DRAWN BY: DSW  
 DATE: 12/2/2010  
 DESIGNED BY: DSW  
 CHECKED BY:  
 SCALE:  
 NO SCALE  
 LINE IS 2 INCHES  
 AT FULL SIZE  
 (IF NOT 2" SCALE ACCORDINGLY)

**SACRAMENTO INTERNATIONAL AIRPORT**

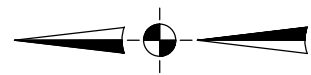
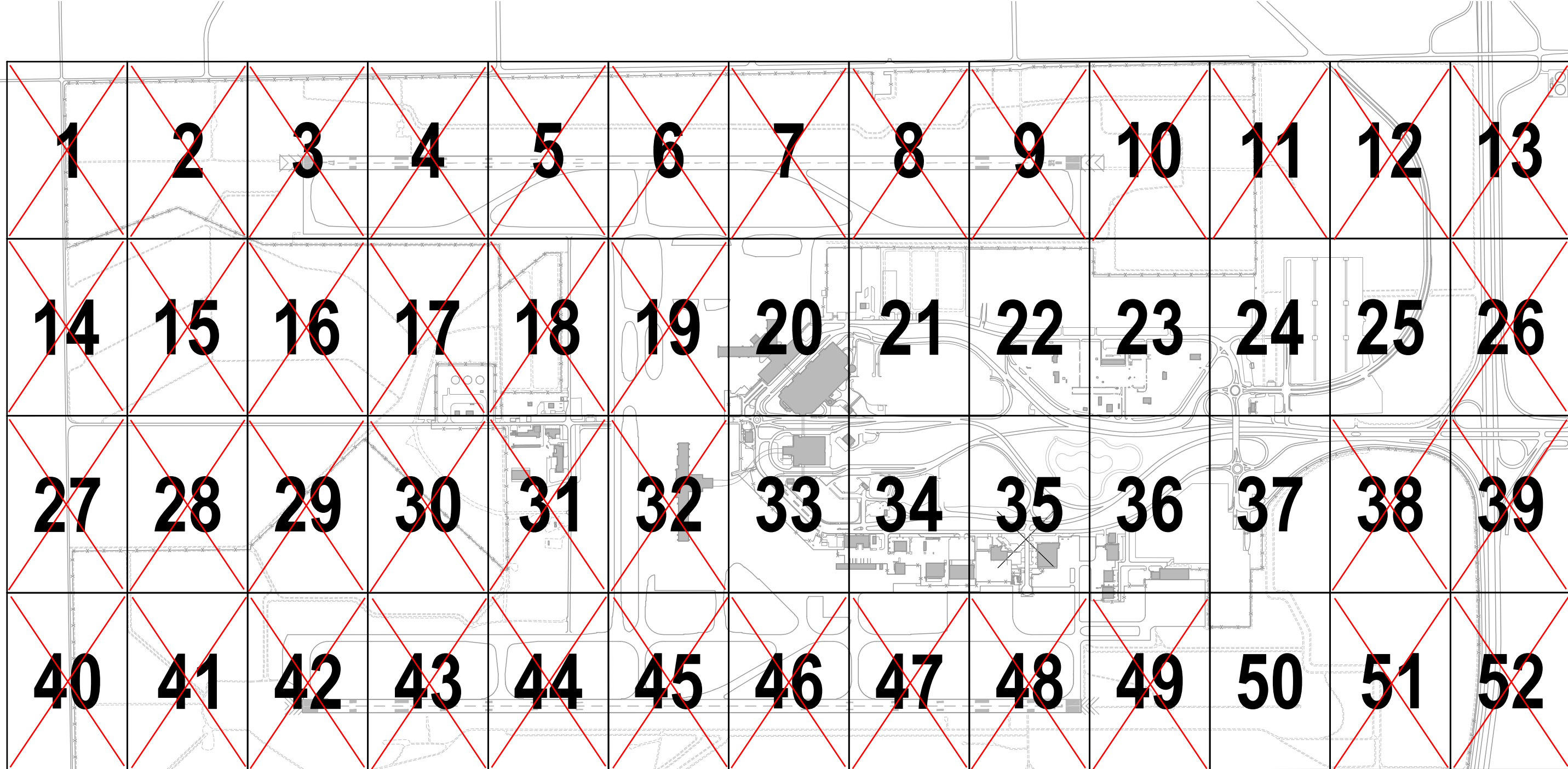
SHEET TITLE  
 ELECTRICAL SYSTEM

DRAWING NO.  
**CU-106**  
 SHEET NO. 1 OF 1

Updated: 2/9/2023 - Project: 12/15/2023 8:55:13 AM By: Wilson Don  
 File: Y:\Projects\2023\10250 - SIF\Sheets\CU-10250-106.dwg (Tab: Elec System)

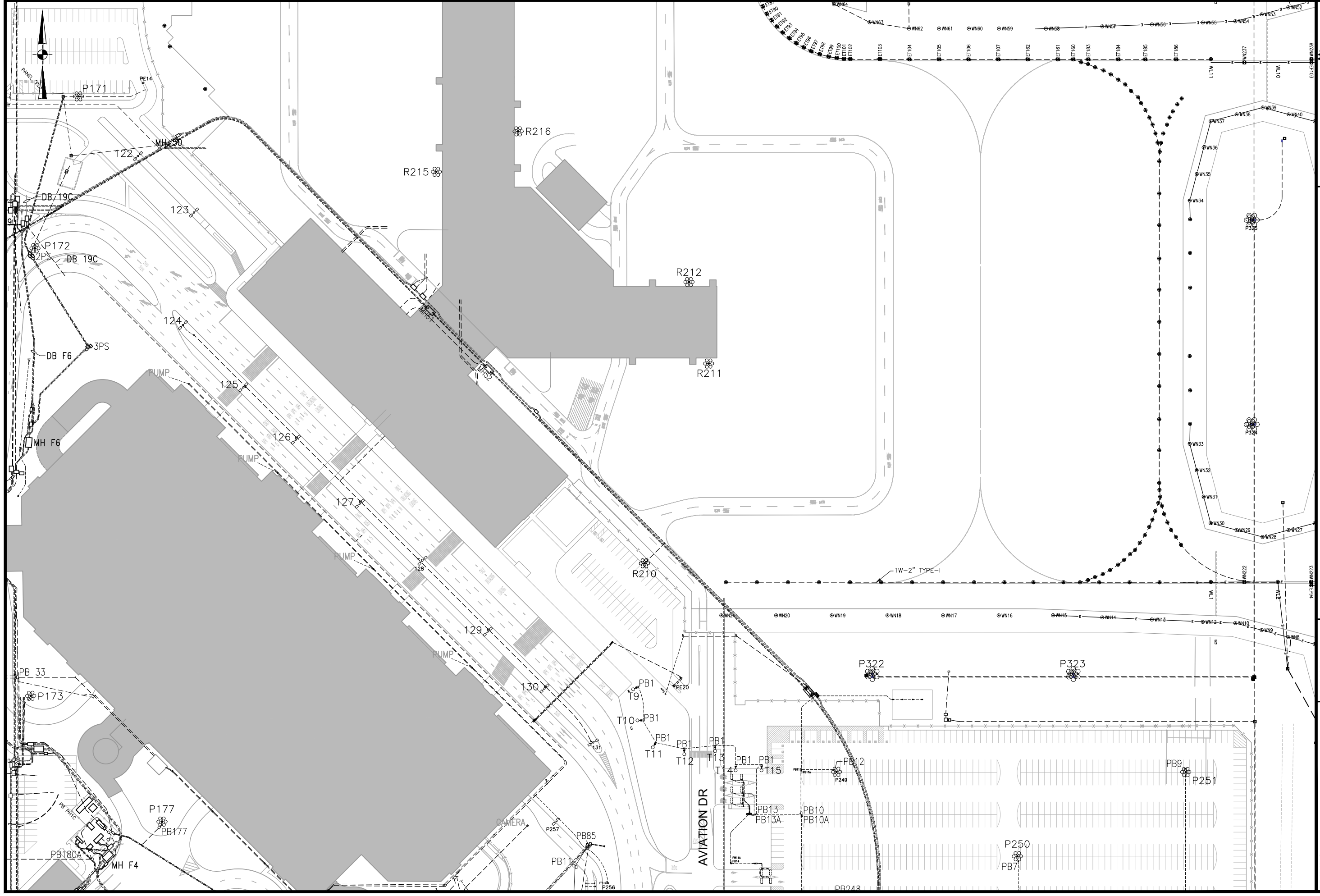


Updated: 6/9/2023 - Printed: 12/15/2023 8:35:40 AM By: Wilson, Don  
File: \\Facility\SMF\10250 - SMF\Sheets\USA\SMF-USA-Elec.dwg (Tab: INDEX)



DRAWING:	SMF-USA-Elec	DRAWN BY:	D. Wilson
SHEET:	INDEX	DATE:	6/8/2023
SCALE:	N.T.S.		

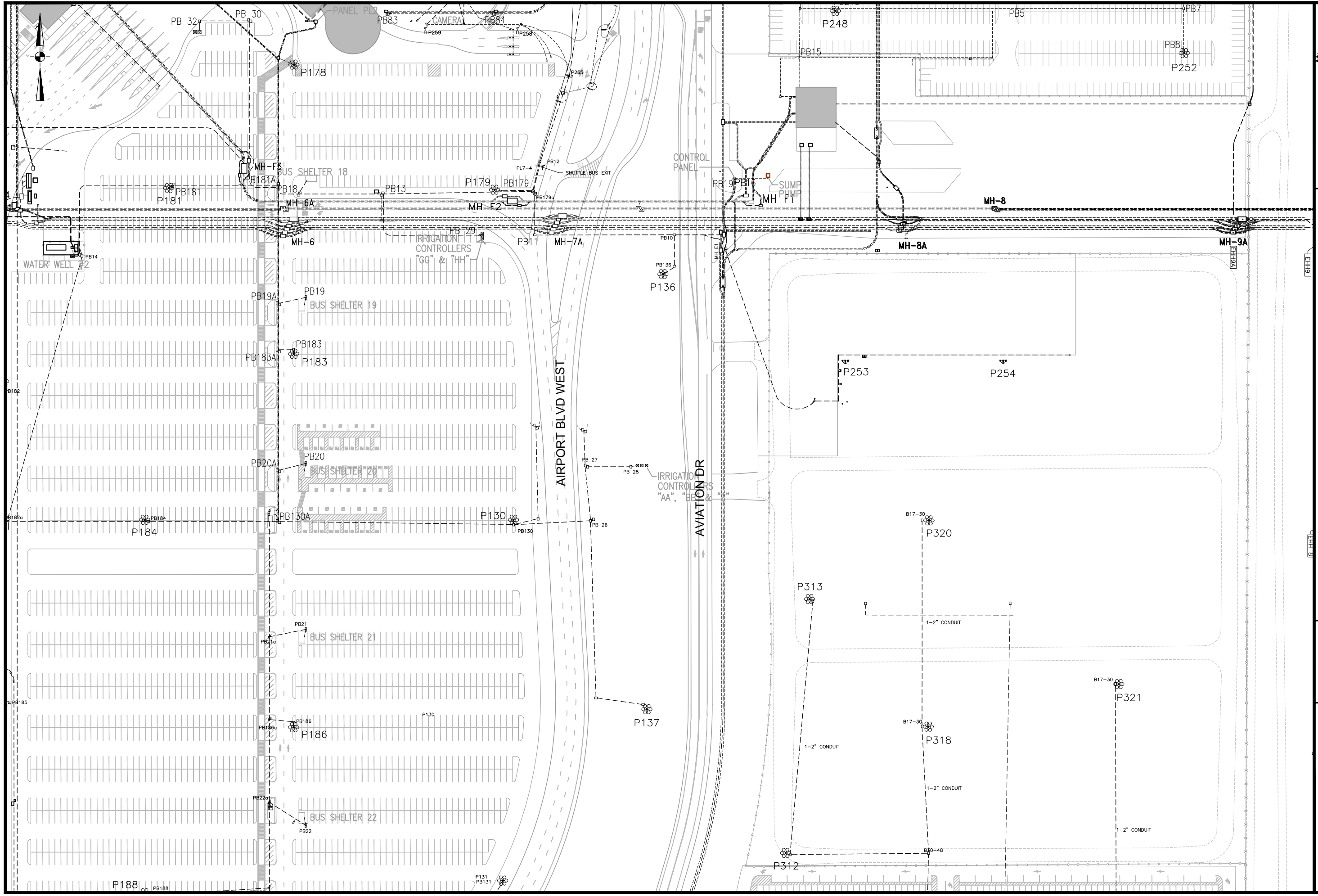
Updated: 6/9/2023 - Printed: 12/15/2023 8:39:55 AM By: Wilson, Don  
File: V:\Facility\SMF\10250 - SMF\Sheets\USA\SMF-USA-Elec.dwg (Tab: 20)



**SACRAMENTO INTERNATIONAL AIRPORT**  
ELECTRICAL UTILITY LAYOUT

DRAWING: SMF-USA-Elec	DRAWN BY: D. Wilson
	DATE: 6/8/2023
SHEET: 20 of 52	SCALE: N.T.S.

Updated: 6/9/2023 - Printed: 12/15/2023 8:40:15 AM By: Wilson, Don  
File: V:\Facility\SMF\10250 - SMF\Sheets\USA\SMF-USA-Elec.dwg (Tab: 21)

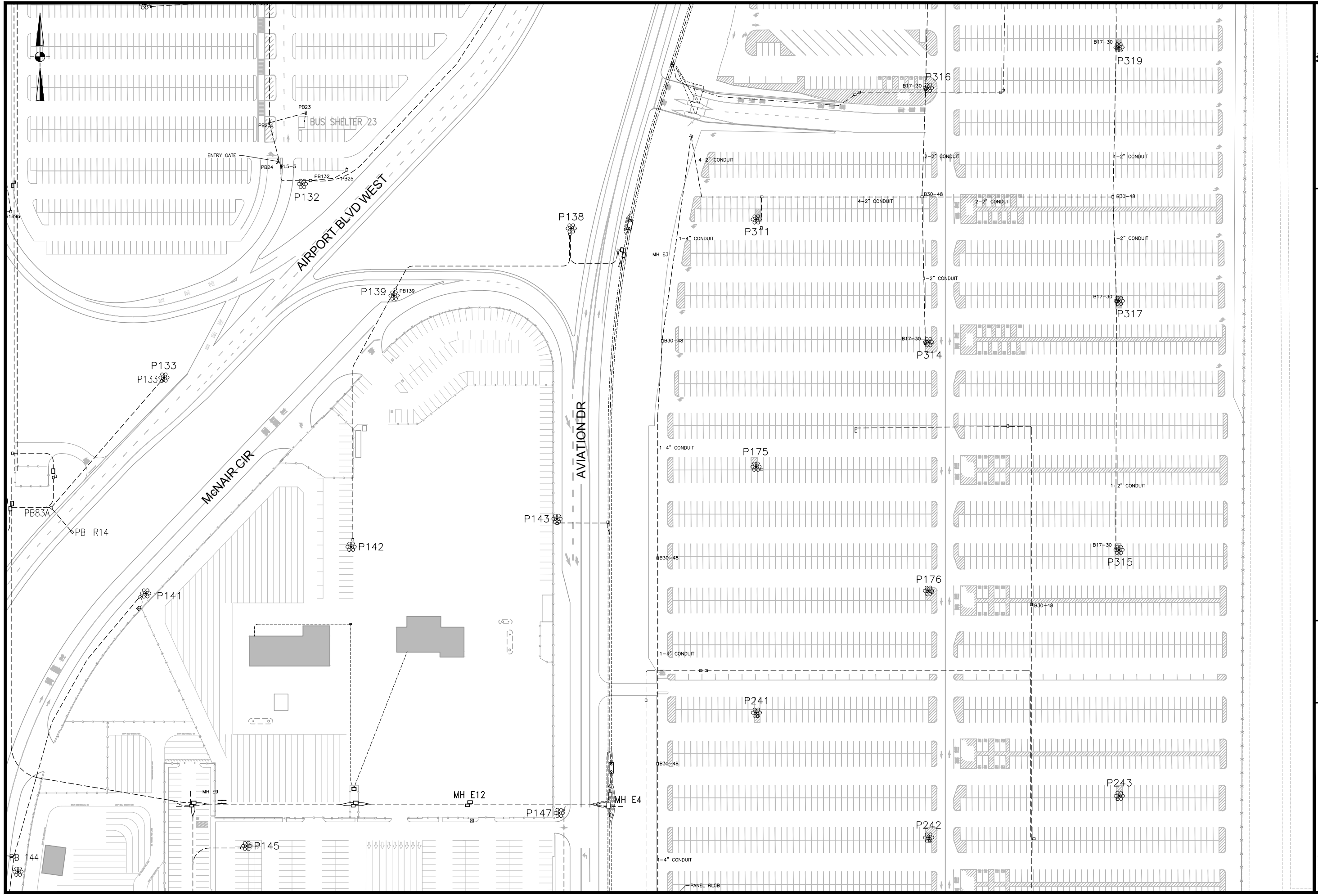


**SACRAMENTO INTERNATIONAL AIRPORT**  
ELECTRICAL UTILITY LAYOUT

DRAWING: <b>SMF-USA-Elec</b>	DRAWN BY: <b>D. Wilson</b>
	DATE: <b>6/8/2023</b>
SHEET: <b>21 of 52</b>	SCALE: <b>N.T.S.</b>



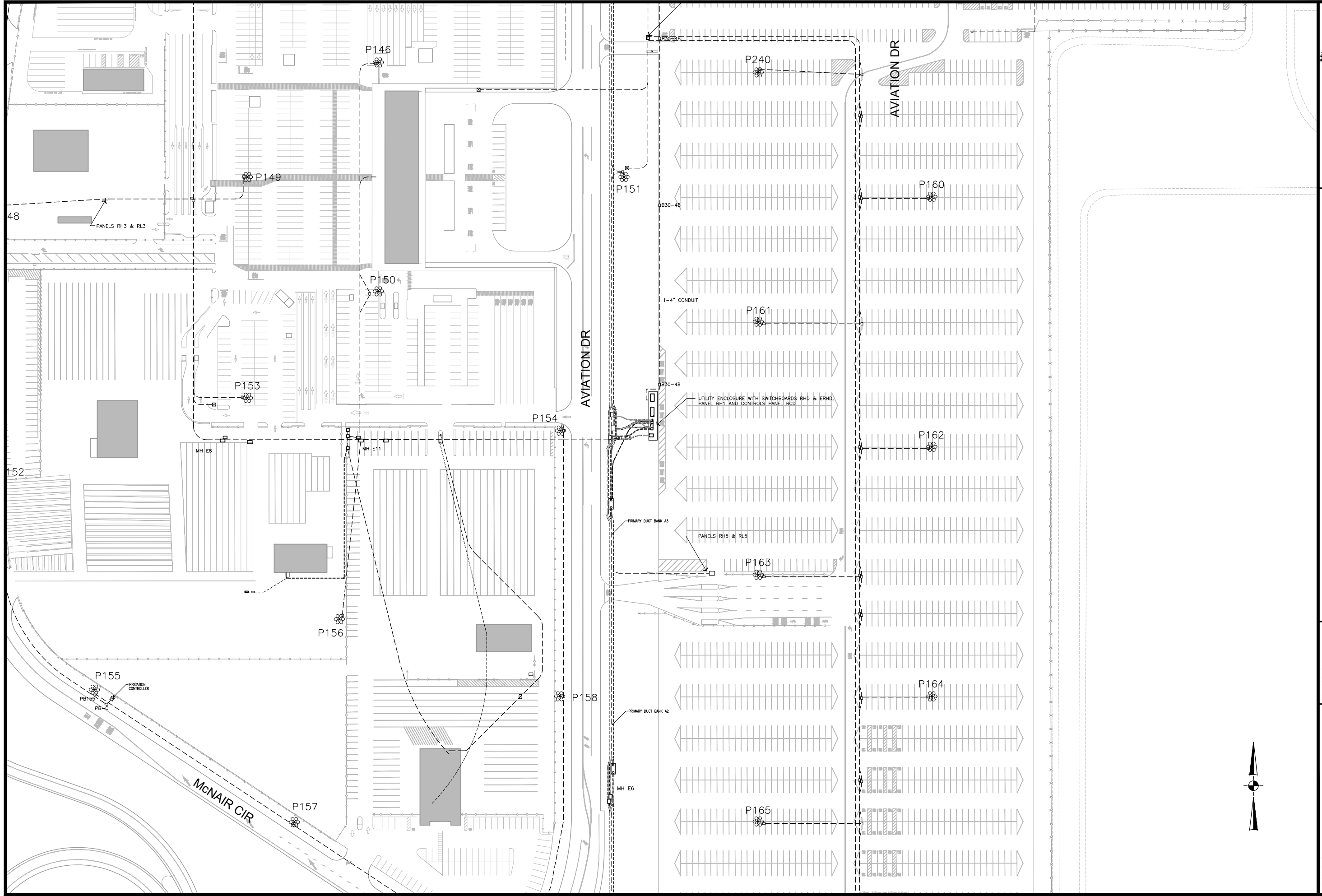
Updated: 6/9/2023 - Printed: 12/15/2023 8:40:37 AM By: Wilson, Don  
File: \\Facility\SMF\10250 - SMF\Sheets\USA\SMF-USA-Elec.dwg (Tab: 22)



**SACRAMENTO INTERNATIONAL AIRPORT**  
ELECTRICAL UTILITY LAYOUT

DRAWING: <b>SMF-USA-Elec</b>	DRAWN BY: <b>D. Wilson</b>
	DATE: <b>6/8/2023</b>
SHEET: <b>22 of 52</b>	SCALE: <b>N.T.S.</b>

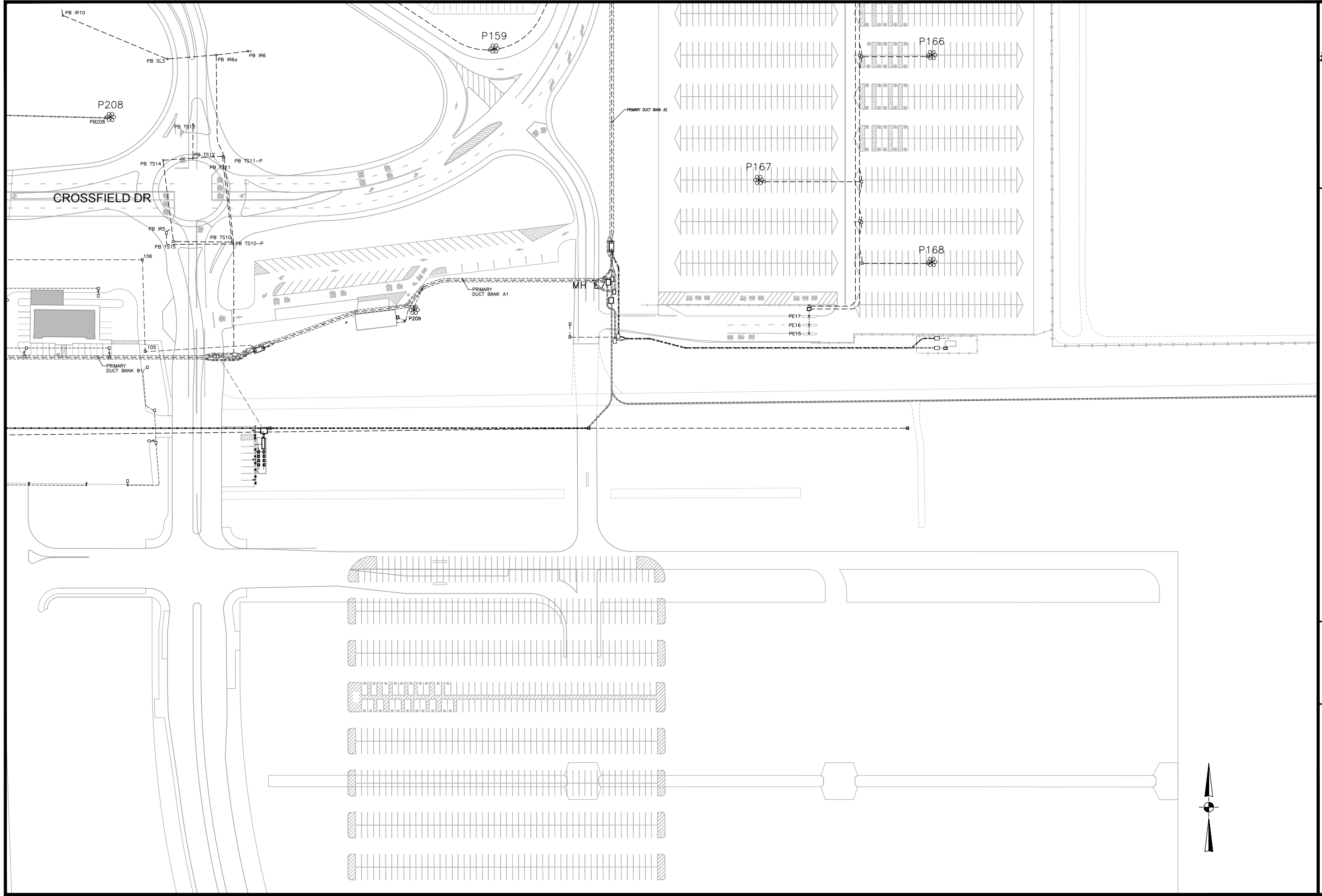
Updated: 6/9/2023 - Printed: 12/15/2023 8:40:57 AM By: Wilson, Don  
File: V:\Facility\SMF\10250 - SMF\Sheets\USA\SMF-USA-Elec.dwg (Tab: 23)



**SACRAMENTO INTERNATIONAL AIRPORT**  
ELECTRICAL UTILITY LAYOUT

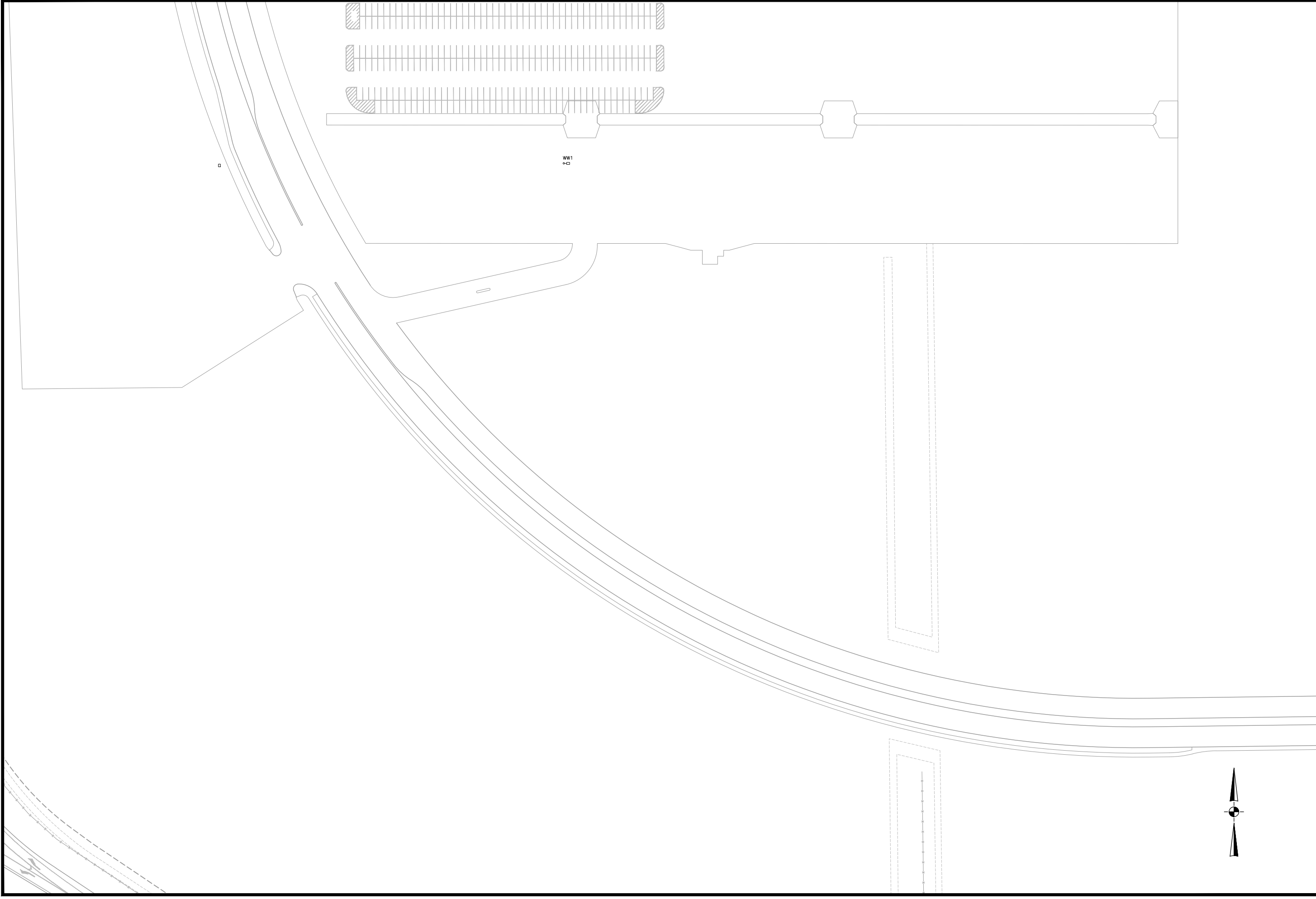
DRAWING: SMF-USA-Elec	DRAWN BY: D. Wilson
	DATE: 6/8/2023
SHEET: 23 of 52	SCALE: N.T.S.

Updated: 6/9/2023 - Printed: 12/15/2023 8:41:16 AM By: Wilson, Don  
 File: V:\Facility\SMF\10250 - SMF\Sheets\USA\SMF-USA-Elec.dwg (Tab: 24)



**SACRAMENTO INTERNATIONAL AIRPORT**  
 ELECTRICAL UTILITY LAYOUT

DRAWING: SMF-USA-Elec	DRAWN BY: D. Wilson
	DATE: 6/8/2023
SHEET: 24 of 52	SCALE: N.T.S.



DRAWING:

SMF-USA-Elec

DRAWN BY:

D. Wilson

SHEET:

25 of 52

SCALE:

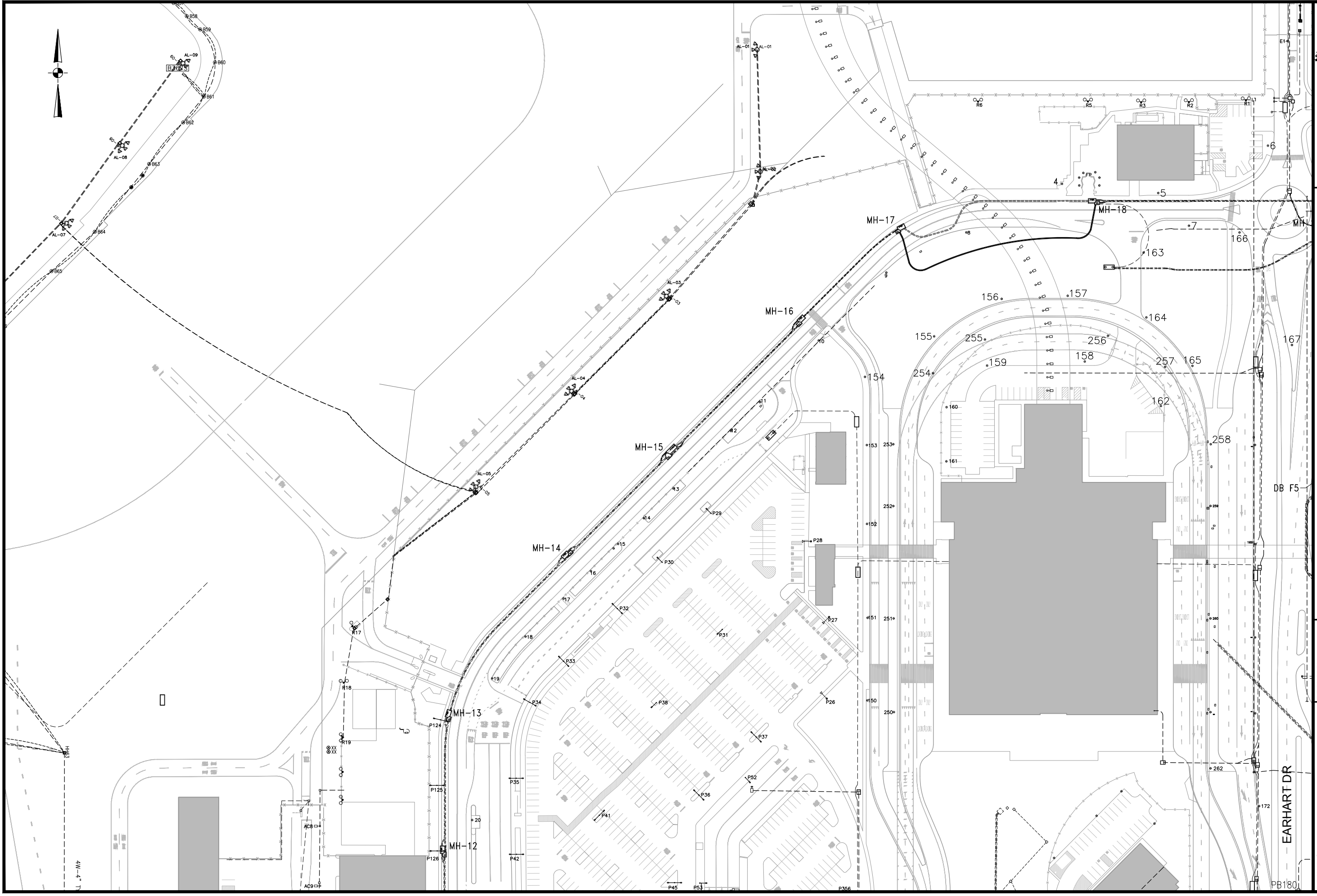
N.T.S.

SACRAMENTO INTERNATIONAL AIRPORT

ELECTRICAL UTILITY LAYOUT



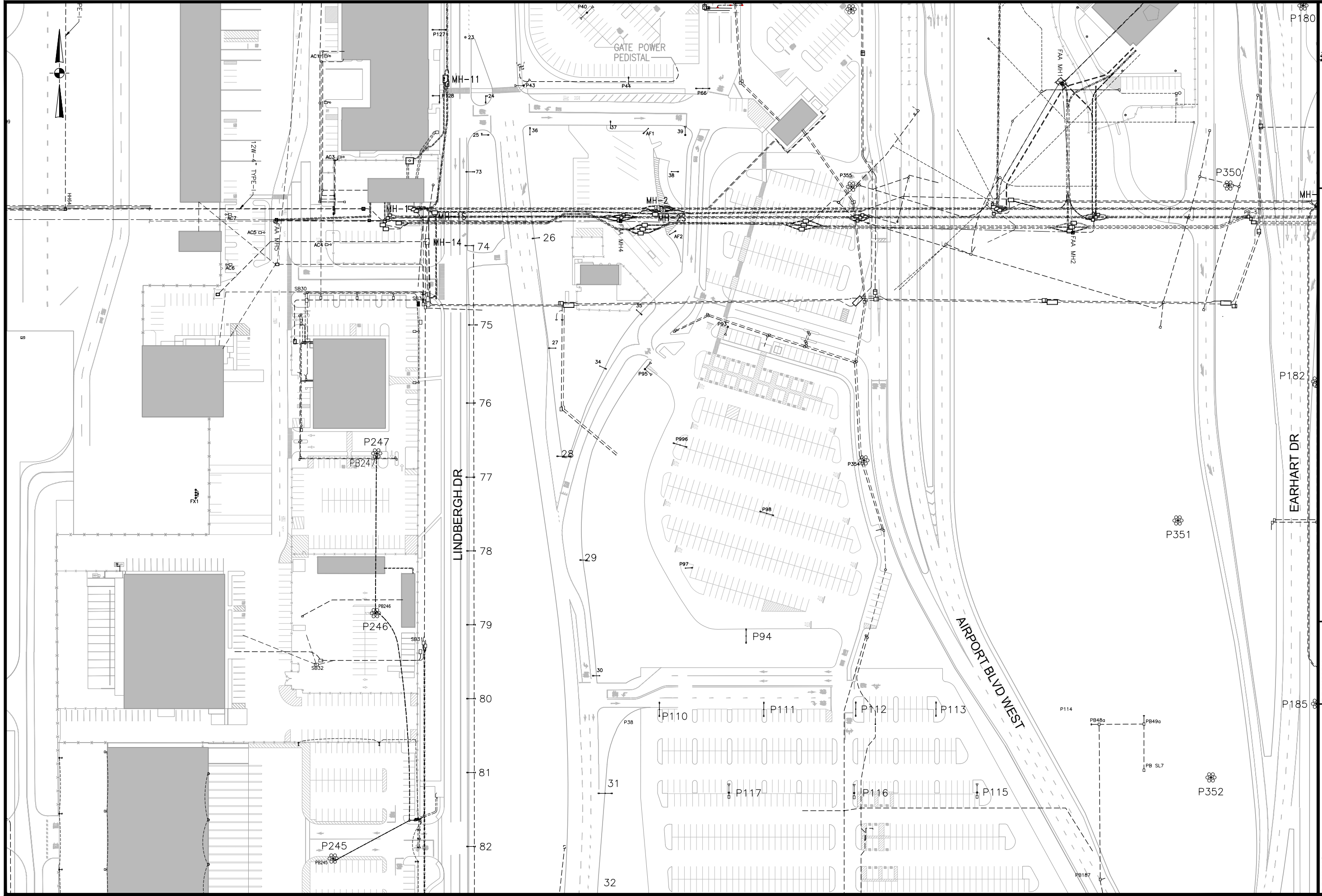
Updated: 6/9/2023 - Printed: 12/15/2023 8:43:36 AM By: Wilson, Don  
File: V:\Facility\SMF\10250 - SMF\Sheets\USA\SMF-USA-Elec.dwg (Tab: 33)



**SACRAMENTO INTERNATIONAL AIRPORT**  
ELECTRICAL UTILITY LAYOUT

DRAWING:	SMF-USA-Elec
DRAWN BY:	D. Wilson
DATE:	6/8/2023
SHEET:	33 of 52
SCALE:	N.T.S.

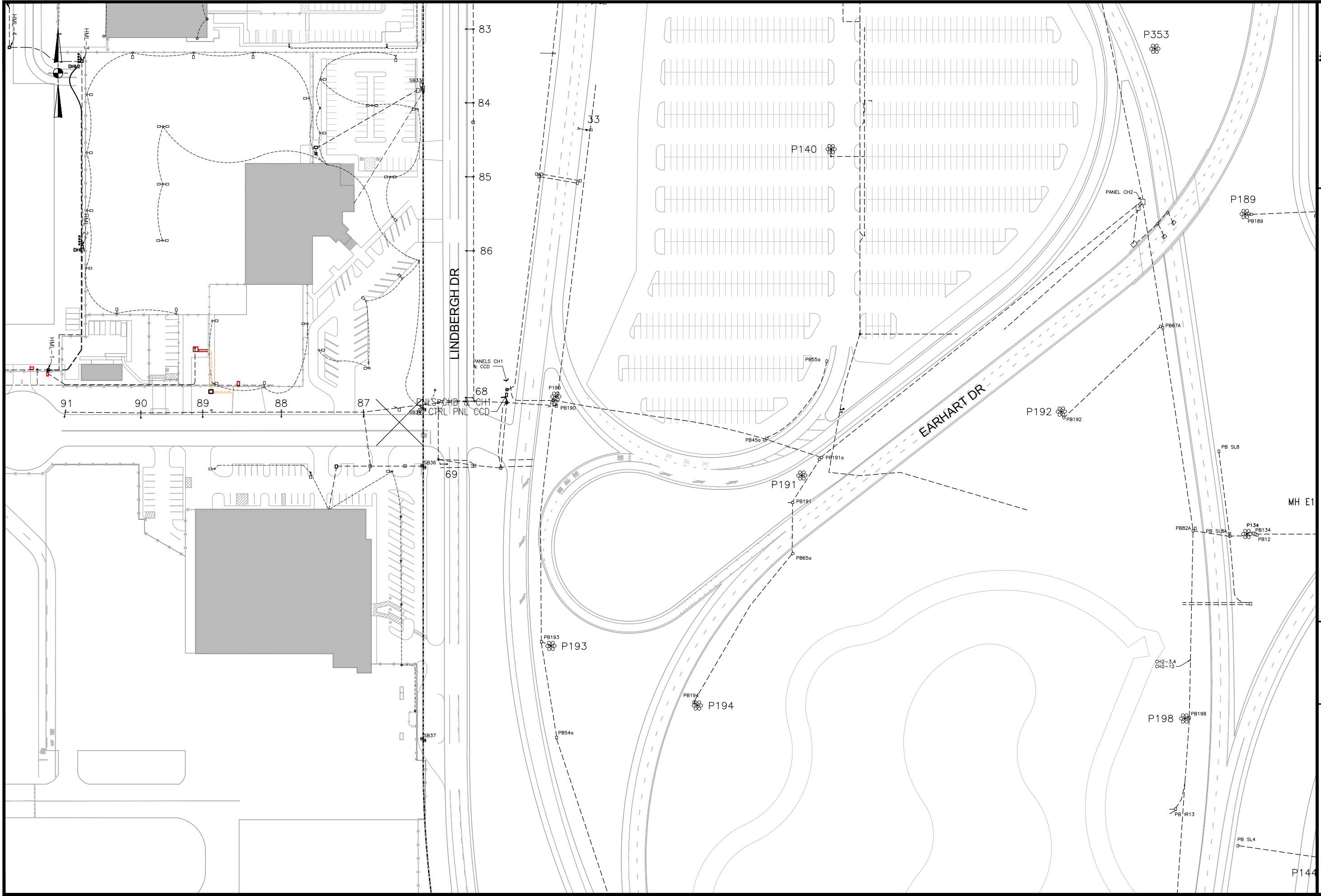
Updated: 6/9/2023 - Printed: 12/15/2023 8:43:56 AM By: Wilson, Don  
File: V:\Facility\SMF\10250 - SMF\Sheets\USA\SMF-USA-Elec.dwg (Tab: 34)



**SACRAMENTO INTERNATIONAL AIRPORT**  
ELECTRICAL UTILITY LAYOUT

DRAWING:	SMF-USA-Elec	DRAWN BY:	D. Wilson
SHEET:	34 of 52	DATE:	6/8/2023
		SCALE:	N.T.S.

Updated: 6/9/2023 - Printed: 12/15/2023 8:44:17 AM By: Wilson, Don  
File: \\Facility\SMF\10250 - SMF\Sheets\USA\SMF-USA-Elec.dwg (Tab: 35)



# SACRAMENTO INTERNATIONAL AIRPORT

## ELECTRICAL UTILITY LAYOUT

DRAWN BY:  
D. Wilson

DATE:  
6/8/2023

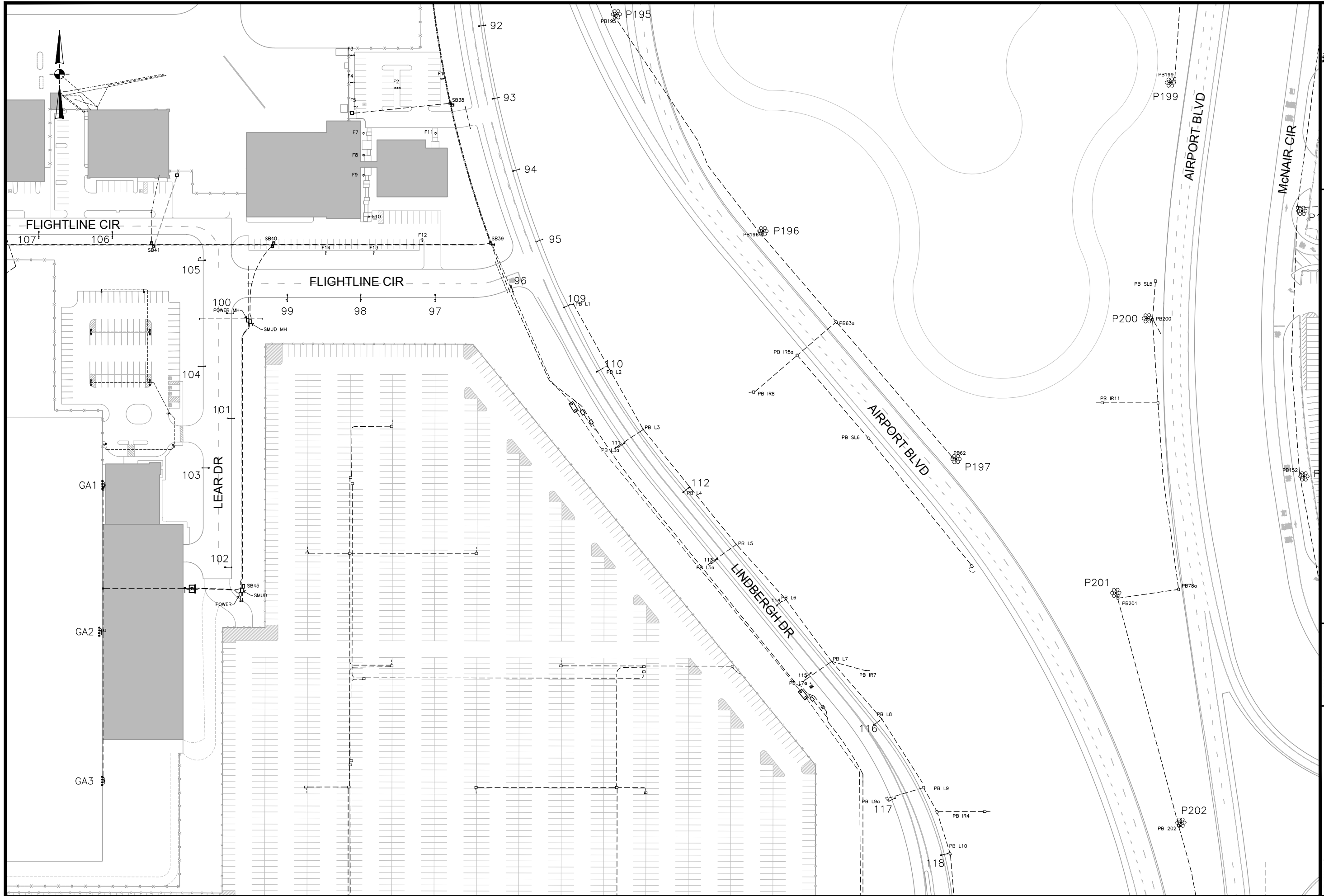
DRAWING:  
SMF-USA-Elec

SCALE:  
N.T.S.

SHEET:  
35 of 52

6900 AIRPORT BLVD.  
SACRAMENTO, CA 95837

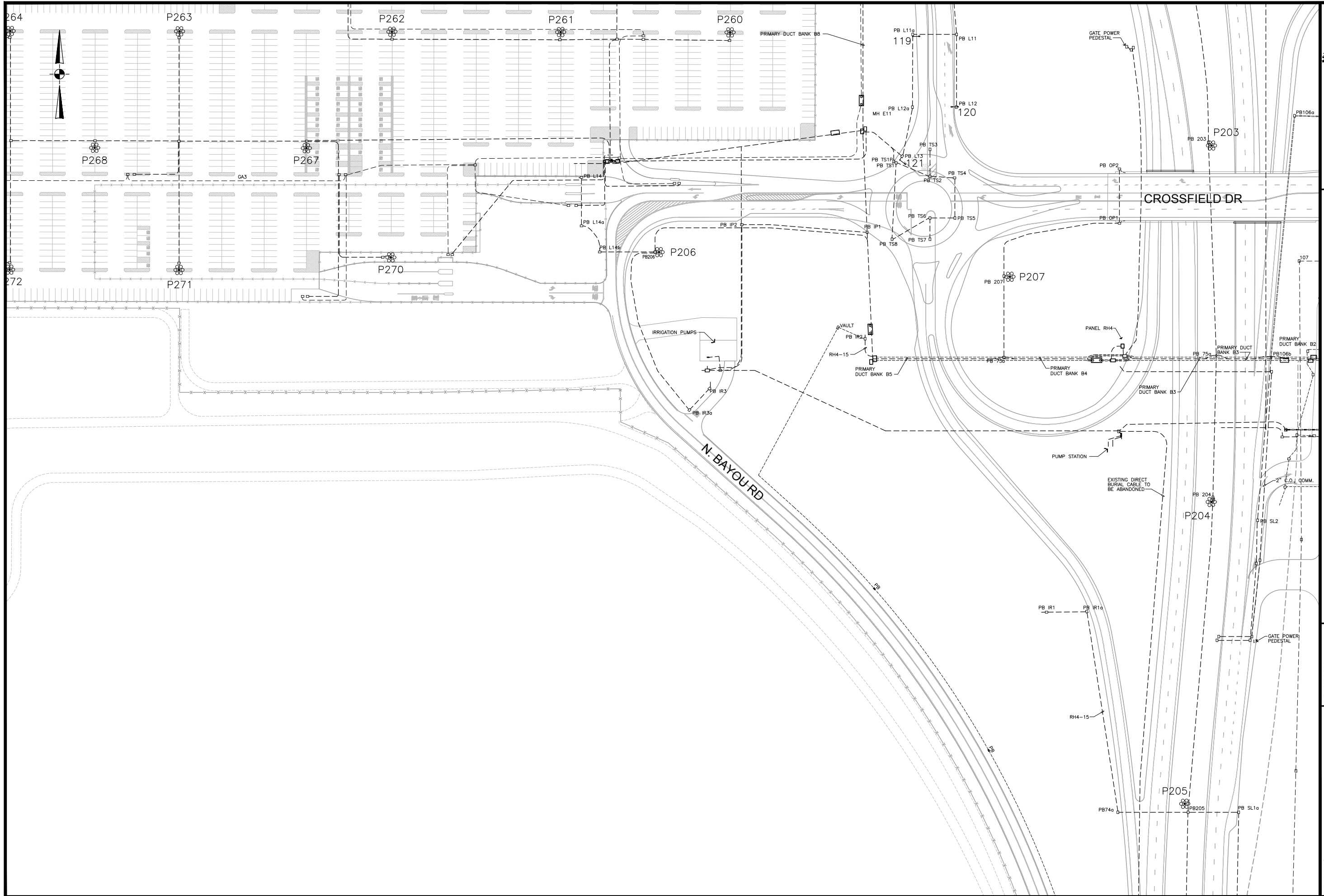
Updated: 6/9/2023 - Printed: 12/15/2023 8:44:37 AM By: Wilson, Don  
File: \\Facility\SMF\10250 - SMF\Sheets\USA\SMF-USA-Elec.dwg (Tab: 36)



**SACRAMENTO INTERNATIONAL AIRPORT**  
ELECTRICAL UTILITY LAYOUT

DRAWING:	SMF-USA-Elec	DRAWN BY:	D. Wilson
SHEET:	36 of 52	DATE:	6/8/2023
		SCALE:	N.T.S.

Updated: 6/9/2023 - Printed: 12/15/2023 8:44:57 AM By: Wilson, Don  
File: V:\Facility\SMF\10250 - SMF\Sheets\USA\SMF-USA-Elec.dwg (Tab: 37)



**SACRAMENTO INTERNATIONAL AIRPORT**  
ELECTRICAL UTILITY LAYOUT

DRAWING: SMF-USA-Elec	DRAWN BY: D. Wilson
	DATE: 6/8/2023
SHEET: 37 of 52	SCALE: N.T.S.



FAA MH18

FAA MH19

FAA MH20

P266

P265

P269

P274

P273



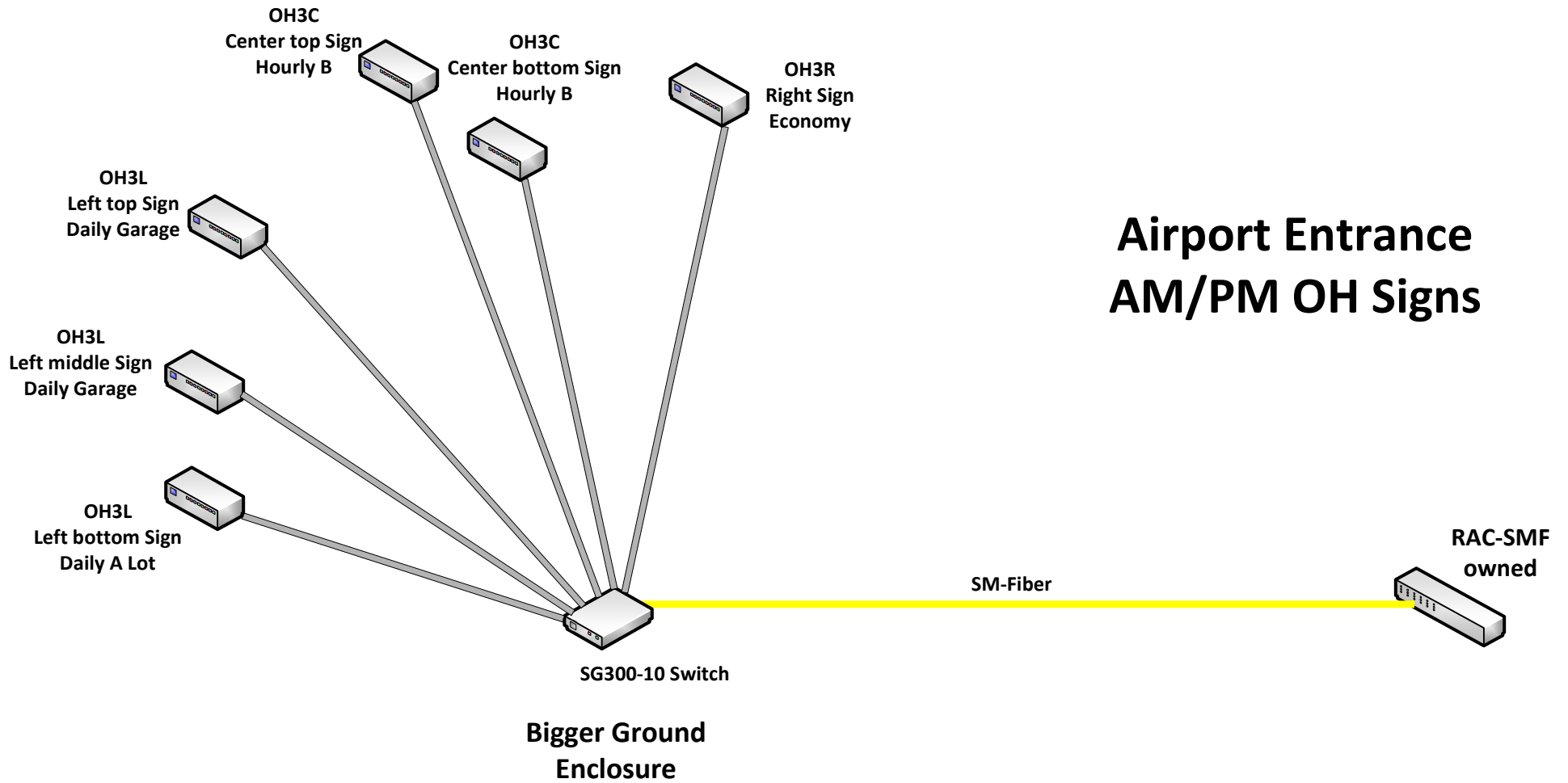
### SACRAMENTO INTERNATIONAL AIRPORT

### ELECTRICAL UTILITY LAYOUT

DRAWING:	SMF-USA-Elec	DRAWN BY:	D. Wilson
SHEET:	50 of 52	DATE:	6/8/2023
		SCALE:	N.T.S.

**ATTACHMENT 5**  
**NETWORK ARCHITECTURE**  
**COVER PAGE**

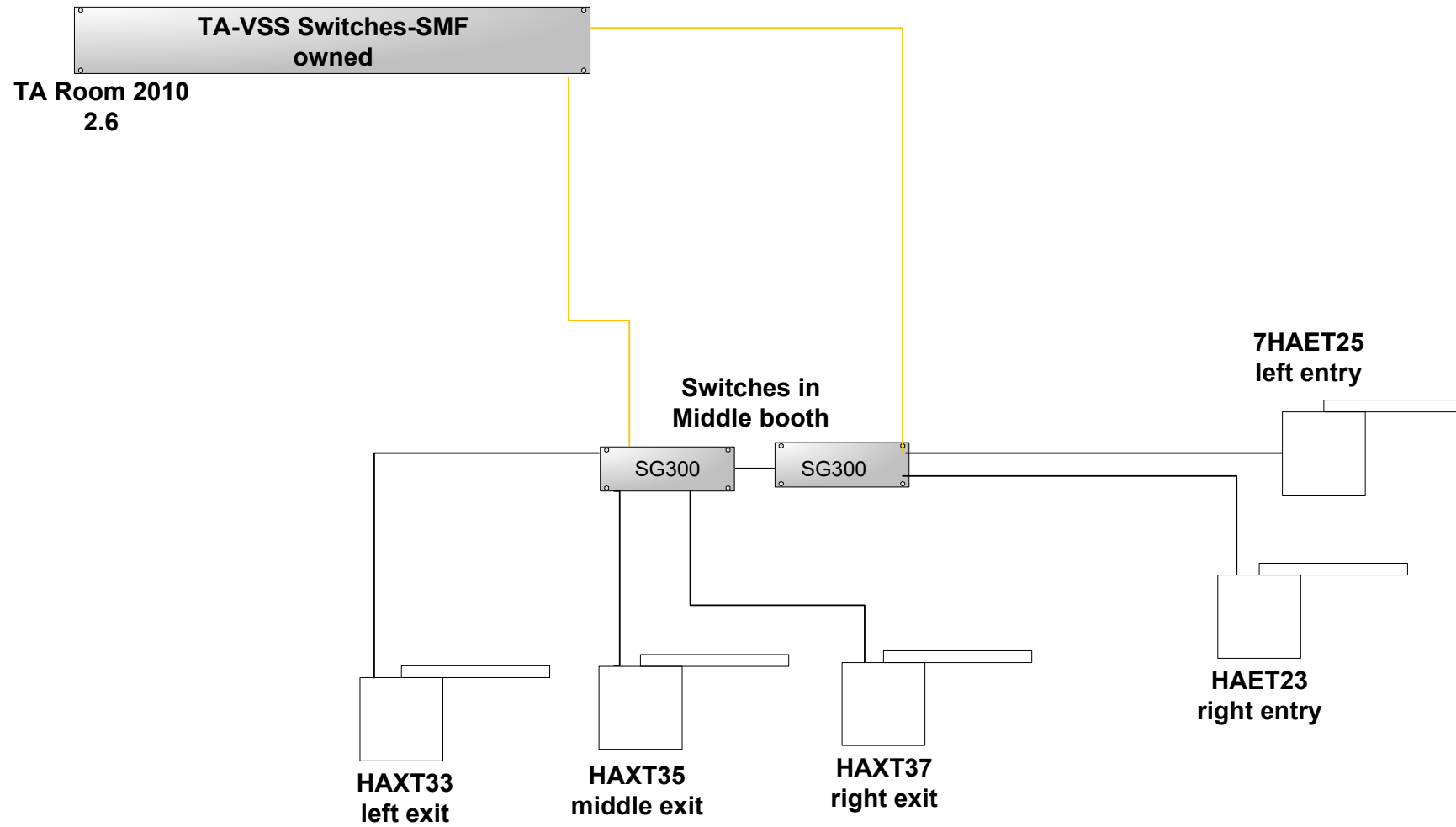






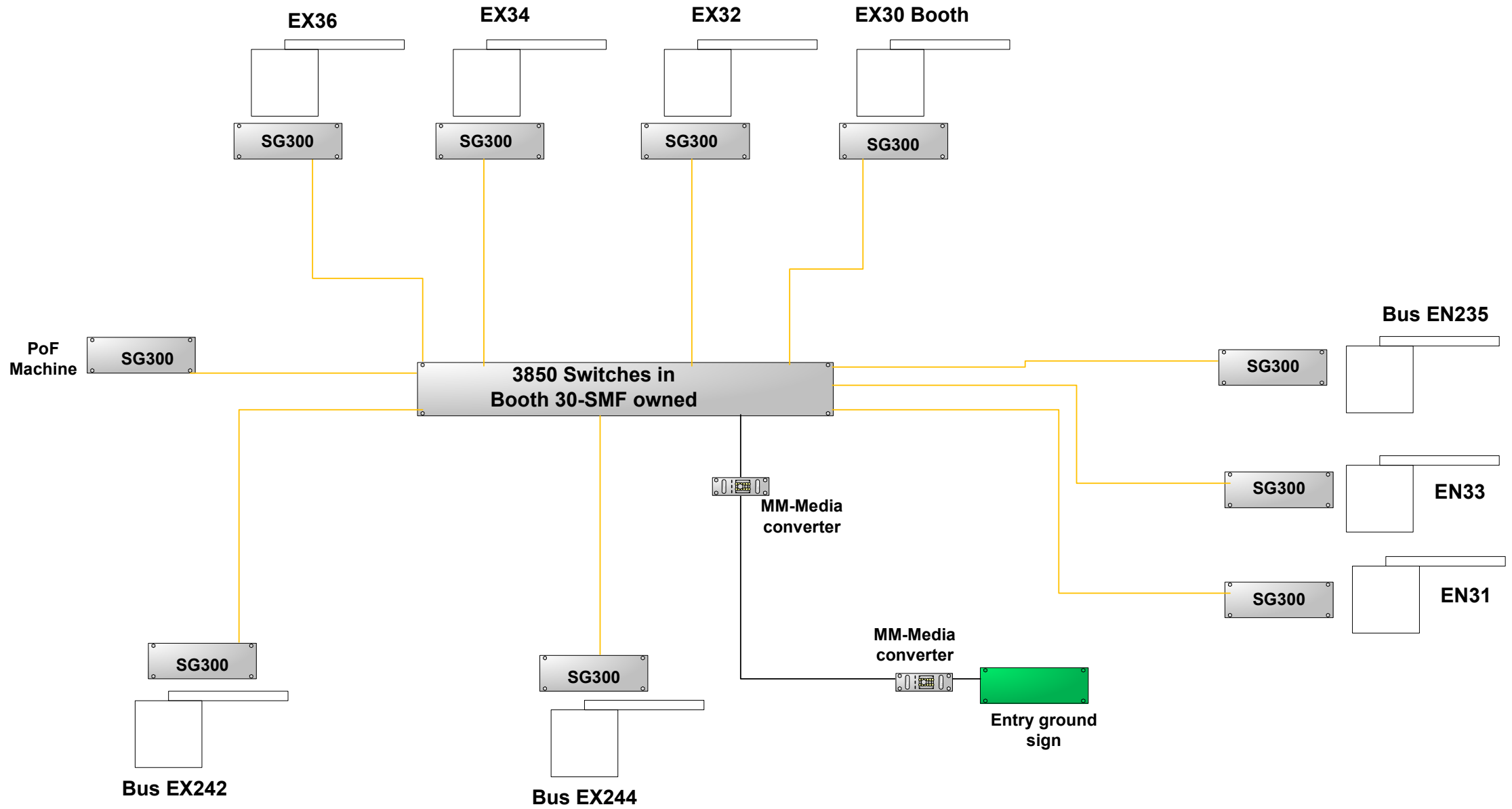
# Lot 51 Detailed Network Device Connection Diagram

Monday, April 8, 2019



# Economy Lot Detailed Network Device Connection Diagram

Monday, April 8, 2019



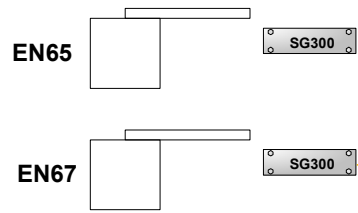
# Parking Garage Detailed Network Device Connection Diagram

Monday, April 8, 2019

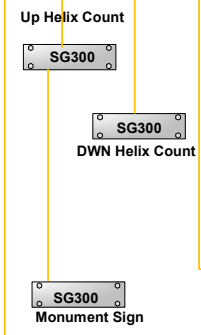
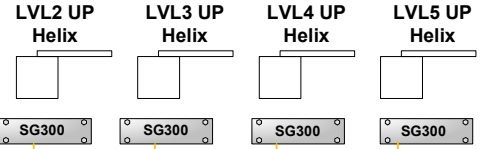
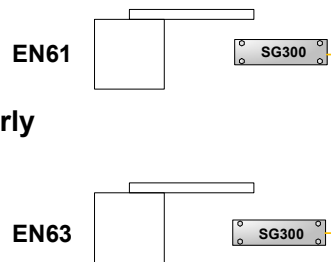
## Garage A Daily Entry Lanes



## Garage A Hourly East Entry

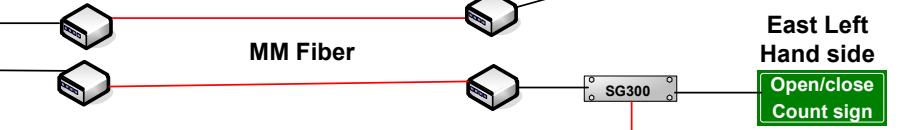


## Garage A Hourly West Entry



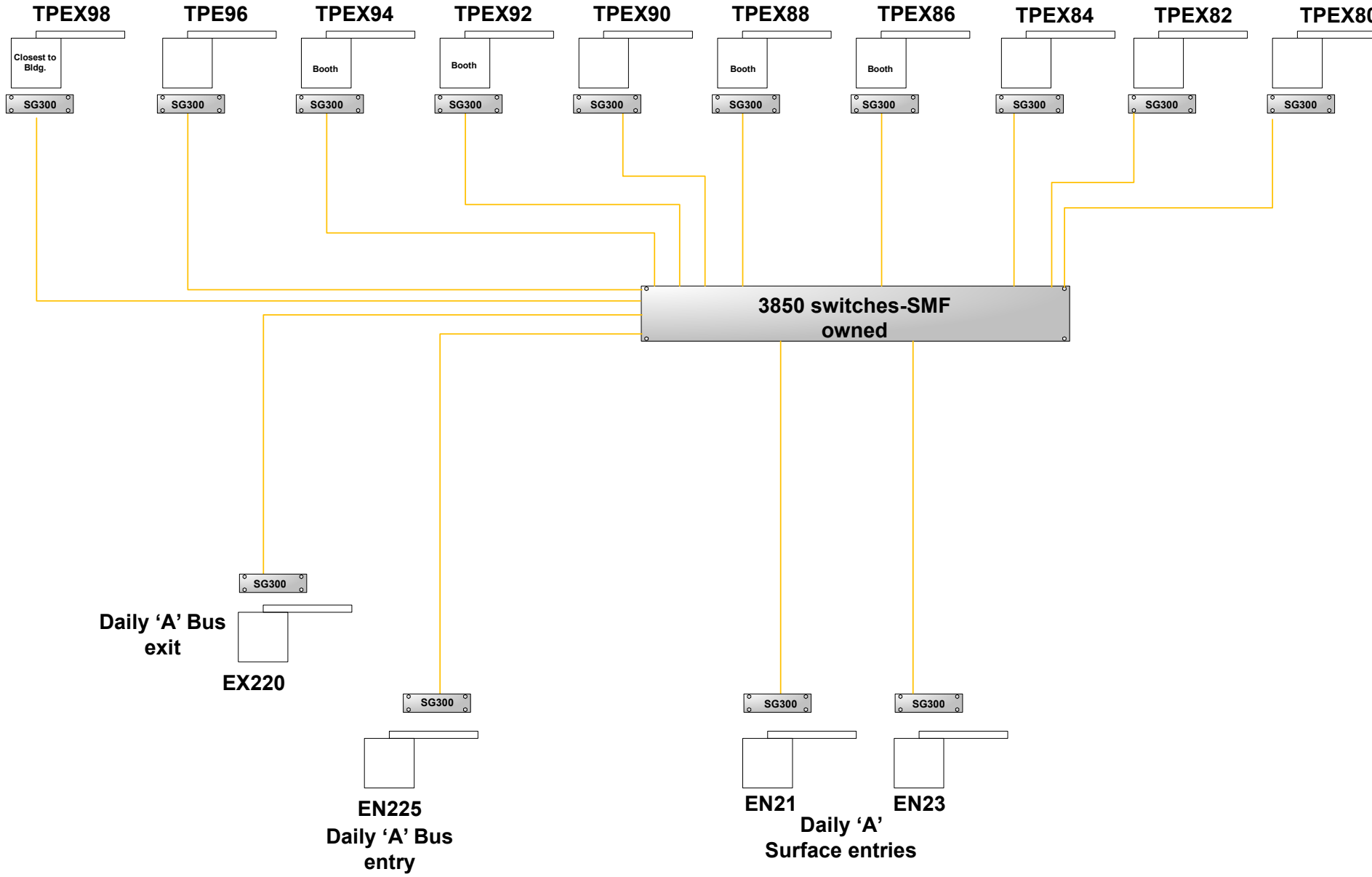
M-C's in Old ACS rack

MM Fiber



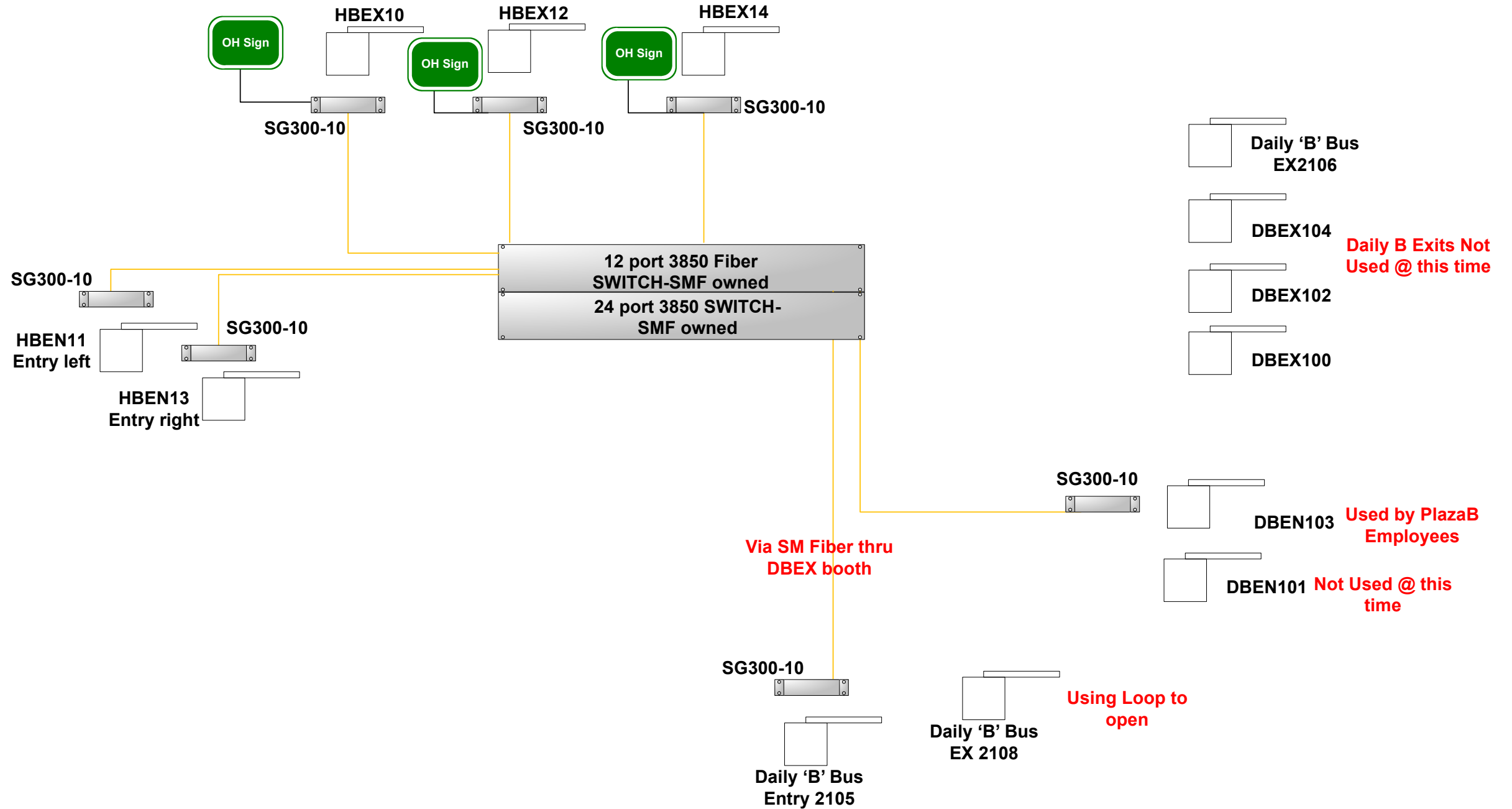
# Plaza A Detailed Network Device Connection Diagram

Monday, April 8, 2019

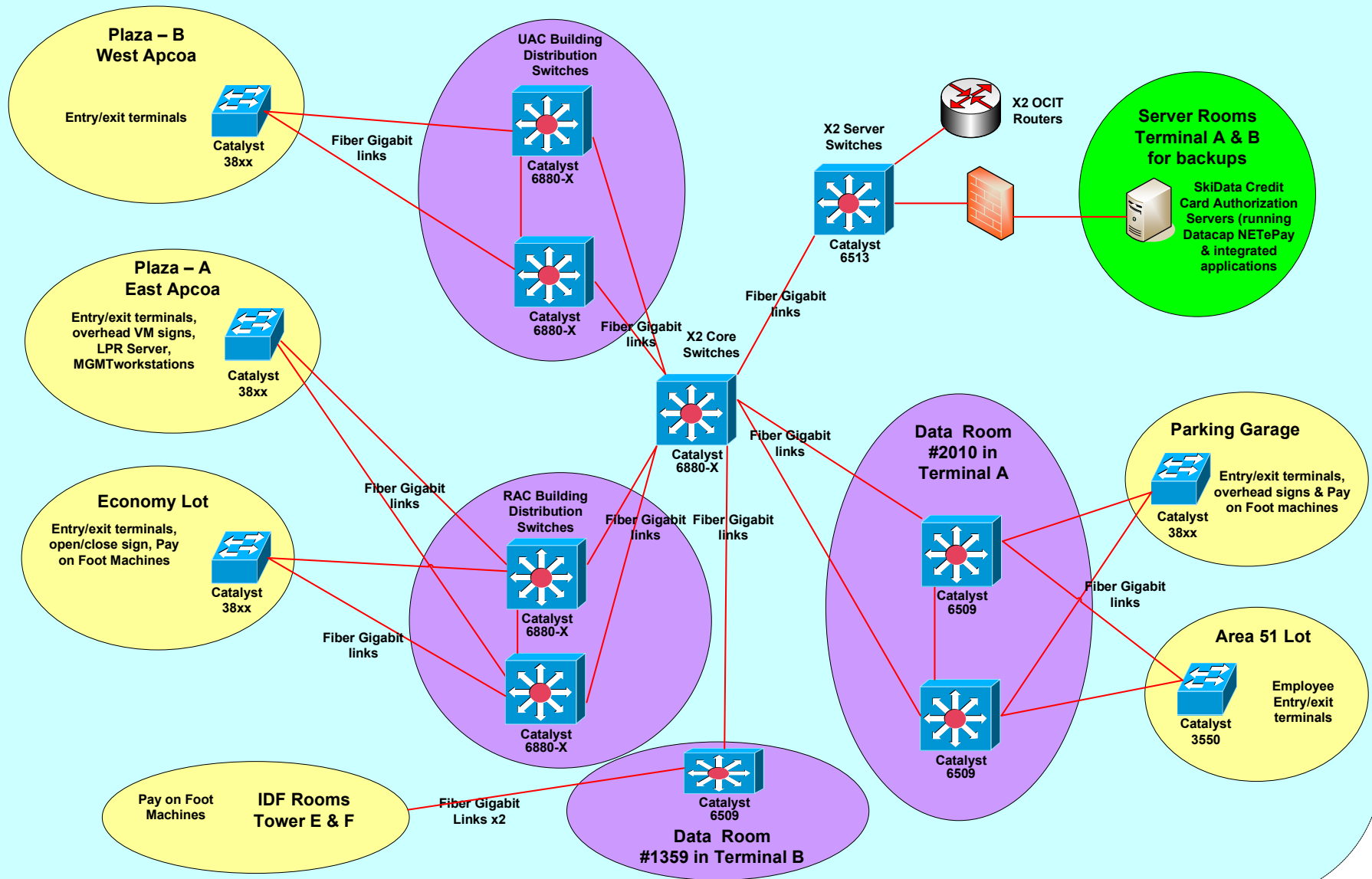


# Plaza B Detailed Network Device Connection Diagram

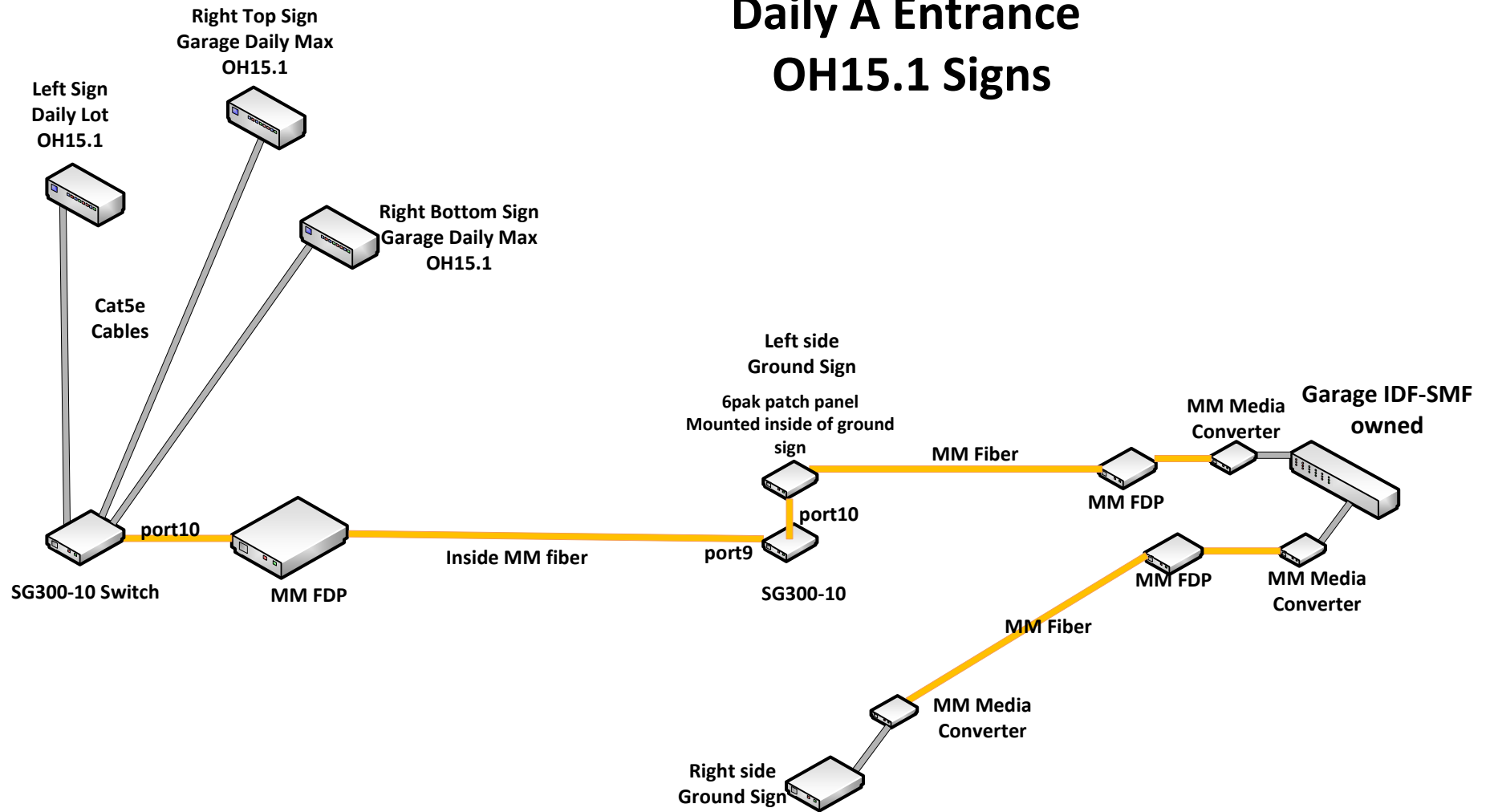
Monday, April 8, 2019



# SkiData Backbone Infrastructure Overview



# Daily A Entrance OH15.1 Signs



# Hourly Terminal B Overhead Signs-no SkiData switches here

