Physical Security System
Scope of Work

Prepared By: Edwin Castro & Mary McCall
March 10, 2020

Facility Location:

51 SW 1st Avenue
Miami, FL 33130

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REVISION HISTORY

Revision No.	Date	Description	By
1	4/2/19	Security language/reader specs	JM
1.2	5/7/19	Update to door contacts, MOV and ePAC wires.	JM & EC
2	*10/01/2019*	*Change Video Surveillance System Equipment and delete redundancies.*	*EC*
2.1	*11/05.2019*	*Change Enrollment reader spec*	*JM*
2.2	*12/10/2019*	*Change Video decoder and Video UPS*	*EC*
2.3	*1/16/2020*	*Cables Specs update*	*JM*
2.4	*2/12/2020*	*Adding Blast Film and format numbering corrections*	*EC*
2.5	*03/10/2020*	*Adding specification required by procurements*	*EC*
2.6	*03/10/2020*	*Updated SOW to latest format*	*MM*
	4/22/2020	*Updated to reflect changes made by CO*	*SB*

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STATEMENT OF WORK

1.0 OVERVIEW

1.1 DESCRIPTION

The Internal Revenue Service requires the purchase and installation of a complete physical security equipment (Electronic Access Control System, Video Surveillance System & Intrusion Detection System) as specified in Section 3.6. The installation of the physical security system will be performed in two phases with completion of the 3rd and 8th floors as Phase I and completion of the 7th and 11th floors as Phase II. Anticipated start date for installation of Phase I is latter part of May 2020 with a completion date by June 30, 2020. Phase II is anticipated to start in December 2020 or January 2021.

1.2 BACKGROUND

The IRS is currently reducing its space and is required to procure a complete physical security equipment, inclusive of relative construction services and testing for the following project:

FMSS Miami Space Reduction Project. Project Manager: Maria Mesa

Currently, the site is under construction, so Contractor must account for (1) Existing site conditions and restrictions; (2) Alterations and coordination with existing work; (3) Other work to be performed concurrently by the Government; and (4) Other work to be performed concurrently by separate contractors.

Note: This is not considered a construction requirement even though minor construction work may be required for installation of the physical security system.

2.0 RELATED DOCUMENTS

2.1 SCOPE

This scope shall be used in conjunction with construction documents such as mark-up plans, drawings and specifications for the project. At a minimum, contractor must comply with manufacturer's specifications found in Section 3.6 for each floor. Floor plans for the 3rd Floor, 7th Floor, 8th Floor and 11th Floor are attached as follows:

Exhibit 1 – Floor Plan – Phase I – 3rd Floor
Exhibit 2 – Floor Plan – Phase I – 8th Floor
Exhibit 3 – Floor Plan – Phase II – 7th Floor
Exhibit 4 – Floor Plan – Phase II – 11th Floor

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2.2 LIST OF ACRONYMS

The acronyms listed below will be used when referring to the corresponding terms:

CO	Contracting Officer
COR	Contracting Officer's Technical Representative
COTS	Commercial-off-the-Shelf
CSIRC	Computer Security Incident Response Center
DGP	Data Gathering Panel
DGDD	Door Group Design Document
ECC	Enterprise Computing Centers
ePACS	Enterprise Physical Access Control System.
DIGI-TRACK	PANEL (ISC)Field Control Panel
FIPS 201	Federal Information Processing Standard 201-2 references NIST SP800-73, SP800- 76, and SP800-78, 800-116 standards.
FISMA	Federal Information Security Management Act
FMSS	Facilities Management & Security Services
GFE	Government Furnished Equipment
GSA	General Services Administration
GSS	General Support System
HSPD-12	Homeland Security Presidential Directive 12
IDS	Intrusion Detection System
IRM	Internal Revenue Manuals
IRS	Internal Revenue Service
IRS-PM	Internal Revenue Service National Office-Program Manager
IPT	Integrated Project Team
LEM	Law Enforcement Manuals
IT	Information Technology Services
NAC	National Assistance Center [EPACS]
NACMA	National Armored Cable Manufacturer's Association
NBFAA	National Burglar Fire Alarm Association
NIST	National Institute of Standards and Technology
NVR	Network Video Recorder
OEM	Original Equipment Manufacturer
OMB	Office of Management and Budget
PACS	Physical Access Control Systems
PIA	Privacy Impact Assessment
PII	Personally Identifiable Information
POA&M	Plan of Action and Milestones
POC	Point of Contact
SBU	Sensitive but Unclassified
TIGTA	Treasury Inspector General for Tax Administration
TCSIRC	Treasury Computer Security Incident Response Center
UNAX	Unauthorized Access
VSS	Video Surveillance System (old CCTV).

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2.3 REFERENCES

Services to be performed by the contractor under this scope of work shall conform to all applicable requirements and criteria indicated in the following handbooks and publications and the latest issues and changes thereto:

a) General Services Administration Facilities Standards for the Public Buildings Service PBS/PQ-100.1.

b) Internal Revenue Service Facilities Design Criteria and Physical Security Standards for IRS Facilities.

c) Federal Information Processing Standards Publication FIPS-Pub. -94; 174-1 and 175

d) National Fire Protection Association (NFPA) Codes and handbooks
- i. NFPA72,
- ii. NFPA101 Life Safety Codes
- iii. NFPA70E
- iv. National Electric Code NFPA 70.

e) Electronic Industries Association (EIA/TIA Standard 568-A, related bulletins and 569)

f) All applicable Federal, State and local codes and regulations

g) Interagency Security Committee (ISC) Standards

h) Homeland Security Presidential Directive HSPD-12

i) Occupational Safety and Health Standards.

j) Federal Information System Management Act (FISMA)

k) Federal Information Processing Standard Publication (FIPS 201-1)

l) National Institute of Standards and Technology SP 800-73

m) National Institute of Standards and Technology Standard (draft) SP-800-116

n) Americans with Disabilities Act.

o) Underwriters Laboratories (UL)
a. UL 1076 (1995; Reprint Sep 2010), Proprietary Burglar Alarm Units and Systems.
b. UL 634 (2007; Reprint Mar 2013), Connectors and Switches for Use with Burglar-Alarm Systems.
c. UL 639 (2007; Reprint May 2012), Standard for Intrusion Detection Units.

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d. UL 609 (1996; Reprint Sep 2010) Local Burglar Alarm Units and Systems
e. UL 1610 (1998; Reprint Sep 2010), Standard for Central-Station Burglar-Alarm Units
f. UL 681 (2014), Installation and Classification of Burglar and Holdup Alarm Systems.

The above items are a standard listing of handbooks and publications. The contractor will utilize only those sections that are applicable to develop and complete the Scope of Work. Where conflicts occur, the more stringent requirement shall take precedence.

3.0 PROJECT/WORK IDENTIFICATION

3.1 INSTALLATION

Installation includes all work and materials necessary for a full and complete system. Installation may include, but not be limited to the following:

a) Electrical power to all devices.
b) All wiring, coaxial wiring, conduits, and connections.
c) VSS, Access Control, IDS (intrusion detection system), duress and any other physical security system tie-ins.
d) Floor prep, flooring, walls and ceiling finish work.

3.2 – 3.4 NOT USED

3.5 GENERAL REQUIREMENTS

A. Upon award of contract, the Contractor shall contact the **POC: Marianela (Mary) McCall at mary.mccall@irs.gov** for commencement and coordination of performance.

B. Prepare a project schedule of dates and times when installation will occur, including anticipated completion dates. This information shall be updated, and the revised schedules forwarded on a weekly basis to the Contracting Officer's Representatives (COR) and IRS POC through email notification: **mary.mccall@irs.gov**

C. Upon commencement of performance, the Government (IRS) POC and the Contractor will review the proposed location for each device (i.e., alarm keypads, duress buttons, access keypads, etc.) as shown on the drawing.

D. The Contracting Officer (CO) is the only person with the authority to enter into, administer, and/or terminate contracts, make related determinations and findings, make constructive changes, and bind the Government in contractual matters. The IRS POC monitors contract performance, provides technical direction within the terms and conditions of the contract. This individual does not have the authority to make constructive contract changes or bind the Government in contractual matters. The Contractor shall document all proposed changes in writing and address them to the CO with copy to the IRS POC. The CO is the only government official who can modify and approve changes to the original scope of work.

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E. Warranty: The contractor shall ensure all components and systems have a minimum one-year warranty, including parts and labor. The Government (IRS) shall not provide additional funding for service during the one-year warranty period due to any alarm system malfunction. The one-year warranty period shall commence at the time of government acceptance.

F. The Contractor shall not substitute equipment/parts for any reason without the prior written approval of the IRS. Some items in this scope are part of an enterprise system and substitution is not allowed. Substitutions of any equipment/parts without the written Government approval shall be corrected at the Contractor's own expense and delay.

G. The Contractor shall provide a list of all proposed security equipment and devices to be used in this Contract. This list shall contain and clearly identify the make, model, and technical specifications of proposed security equipment and devices. The security equipment and devices proposed must be approved by IRS POC.

H. The Government (IRS) requires an experienced and certified Access Control and alarm equipment installation Contractor to install the **Access Control, Intrusion Alarm and Video Systems** as required and contained in this specification/statement of work. This is defined as a contractor who has been installing electronic physical security equipment for at least five years and has an association with and/or follows the installation standards presented by the National Burglar Fire Alarm Association (NBFAA), and the state chapters. The Contractor shall install the alarm system according to applicable agency certification and Underwriters Laboratories (UL) guidelines (installation methods, wire supports, etc).

I. Install all necessary electrical outlets, including hardwiring of circuits by a licensed electrician to ensure that all devices function as designed. All electrical work necessary to make the entire physical security system consists of electronic access control system, Intrusion/alarm detection system and VSS system function properly is the contractor's responsibility and may require 'collaboration' with local building manager/contractor. Power circuits can be shared to 80% capacity amount Security Access Control Equipment or VSS and Intrusion Detection System (IDS) but must be dedicated to security equipment and in a separate conduit and circuit breaker. **All power connections shall be labeled at the breaker panel and at the load device identifying the breaker Number and location.**

J. The Contractor shall furnish all labor and material to purchase, install and test physical security system (i.e. **all** equipment, cable, wire, connectors, and any electrical requirements) necessary for the successful installation as described in this Statement of Work.

K. Fasten all wires in the ceiling to overhead wire supports in order to prevent damage that may occur from existing or future wire runs in the ceilings. Wires shall not be supported solely by suspended ceiling. **Periodic labels shall be placed on wire(s)** to indicate type of wire (i.e., alarm, access, video and device connected). All wiring shall be concealed

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and of a gauge no less than 18 with 4 conductors and copper stranded in composition. Mechanical pulling of wires is prohibited.

Each wire/cable/etc. shall be properly labeled as it enters its termination location on the head end. This is needed for long term troubleshooting purposes. If wire numbers are used, then a true wire legend shall remain on site with a full description of each device detailing where it is going and where it terminates. The labels shall be printed on letter size label sheets that are self- laminated vinyl that can be printed from a computer data base or spread sheet. The labels shall be E-Z code WES12112 or equivalent with the following features: Dot Matrix, Series: WES, 9-1/2 in Length, 8 in Width, White, Polyester, For Use With: Dot Matrix Printer.

L. Conceal all wires that are in the agency-protected space by "fishing" wire in the walls, ceilings and doorframes to ensure tamper resistance. At various locations in which walls cannot be fished or channeled place wire in EMT. Wires are not allowed to be exposed or visible. Wire-mold is not permitted. The Contractor shall first attempt to fish wire in walls prior to using EMT in the agency-protected space.

M. Conceal all wires that are outside the agency-protected space by placing wiring in conduit, EMT, metallic tubing, etc. The size of the conduit, EMT, metallic tubing, etc. shall be large enough (i.e., 50% larger than needed) to permit additional wire pulls.

N. Homerun a wire from each device, keypad, receiver, etc. to the alarm control panel, enclosure, spare cabinets, or auxiliary power supply. Splices, t-taps, etc. are not permitted, except inside the control panel, spare enclosure, cabinets, or auxiliary power supply. All wire(s) shall be installed in accordance with UL Standards for alarm, access, and/or VSS. <u>The use of plenum rated coaxial cable is acceptable.</u>

O. Every detector, sensor, button, junction box, control panel, transformer, phone jack, etc. shall be labeled in order to show the device and/or zone number on the front cover of the specific device. Each label shall be large enough to be seen from a standing position 12 in. distant without the use of a ladder.

P. Contractor shall provide any devices, appliance, material or work not shown on Drawings but mentioned in this Specifications, or vice versa, and any incidental accessories necessary to make the work complete and perfect in all respects and ready for operation, even if not particularly specified, shall be provided without additional expense. The Drawings and Specifications are intended to supplement each other so that any details or equipment shown on either shall be executed the same as if mentioned in both. Note that not all devices required in the specification can be shown in drawings as it is mainly to show location.

Q. The Contractor assumes responsibility for all necessary patching, repairing, painting, etc. as a result of equipment installation, or in the event of an accident (i.e., drilling through drywall by mistake). The Government (IRS) shall not incur any additional costs for patching, repairing, painting, etc. Paint color shall match existing color as closely as possible.

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R. Contractor shall perform a pre-installation and final walk-through of **all physical security system** with the IRS Security specialist, U.S. Department of Homeland Security, FPS representative to ensure system is complete and acceptable by IRS, U.S. Department of Homeland Security, and NAC before final invoice and payment. (The IRS POC shall coordinate the pre-installation and final walk-through.)

S. The contractor is able to perform the following tests after installation of card readers, door control panels and associated accessories on each floor in presence of IRS security specialist and real time review with NAC.
   a) Utility/Battery Power Fail test
   b) SNIB2/3 Comm Fail test
   c) Door Relay/remote access grant test
   d) MATCH line Monitor/Signal Interruption test
   e) Alarm expansion / reader/ panel tamper test
   f) Door Open Too Long (DOTL) test
   g) Forced Entry test
   h) Door PIR sensor aiming/dead-spot test
   i) Door contact alignment/ fit integrity test
   j) Card read test: PIV-I, prox cards- valid/invalid.
   k) Momentary Access test.
   l) MOV installation
   m) Grounding termination checks
   n) Fire/emergency system functional interface testing [door unlock] shall be performed same day for occupied spaces and no later than beginning of next business day for all other affected spaces with new readers/panels.

T. Contractor shall demonstrate and train government personnel selected by the IRS POC on the full operation of Access Control, Intrusion Alarm and VSS systems installed to government personnel. Contractor shall provide the Government (IRS) with manufacturers technical and/or maintenance booklets of installed physical security equipment.

U. All installed equipment shall remain the property of the United States Government. The Contractor shall retain no liens, titles, etc. against any installed or uninstalled equipment once payment is received from the government.

V. **Compliance with Manufacturer's Specifications**: The Contractor shall obtain all necessary equipment manufacturer's installation specifications and drawings to complete all installation and contract work. The Government will not furnish any manufacturer's information except that which is included in the contract documents. It is the Contractor's responsibility to see that the equipment is installed to manufacturer's specifications.

W. **Personal Identity Verification of Contract Personnel, effective October 27, 2005**. The Contractor shall comply with Presidential Directive, called HSPD-12, which states (a) the contractor shall comply with Treasury and Bureau personal identity verification

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procedures that implement HSPD-12, OMB guidance memorandum M-05-24 and FIPS Pub 201, and (b) the Contractor shall insert this provision in all subcontracts when the subcontractor is required to have physical access to a Federally controlled facility or access to a Federal information system.

3.6 SPECIFIC REQUIREMENTS

The Contractor shall perform the tasks listed in the Attachments to this document shown below for Phase I and Phase II.

3.6.1 The Contractor shall perform the tasks listed in the Attachment 1, Specific Requirements for Section 3.6.1 – Phase I – 3rd Floor.

3.6.2 The Contractor shall perform the tasks listed in the Attachment 2, Specific Requirements for Section 3.6.2 – Phase I – 8th Floor.

3.6.3 The Contractor shall perform the tasks listed in the Attachment 3, Specific Requirements for Section 3.6.3 – Phase II – 7th Floor.

3.6.4 The Contractor shall perform the tasks listed in the Attachment 4, Specific Requirements for Section 3.6.4 – Phase II – 11th Floor.

3.7 OTHER INFORMATION

3.7.1.1 The Government estimates that the Contractor will need to supply and install manufacturer's equipment. It is the Contractor's responsibility to double check and be certain that all materials/equipment and/or labor are accounted for prior to quote submission. "HOMERUN" each device on its own stranded plenum rated wire or plenum coax with copper core and copper braid to the panel with no splices, "T" taps, no surface wire, etc:

3.7.1.2 Government Furnished Equipment:

- Analog telephone line for burglar panel.
- Provide the room location for the electronic equipment to be wall mounted in a secure location under lock and key.
- IP address for each door control panel and data drop for each panel by IT

3.7.2 Related Work: Contract documents indicate the work of contract, and related requirements and conditions that have an impact on the project. Related requirements and conditions that are indicated on the contract documents include, but are not necessarily limited to the following: (1) Existing site conditions and restrictions; (2) Alterations and coordination with existing work; (3) Other work to be performed concurrently by the Government; and (4) Other work to be performed concurrently by separate contractors

3.7.3 Working Hours: Work shall be performed Monday through Friday (excluding holidays and weekends) from 7 AM – 6 PM.

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3.7.4 Dock Hours/Parking: Loading dock hours are from 8 AM to 4:30 PM. Loading and unloading are allowed; however, no parking is allowed in loading dock area. Adequate public parking is available in garage for a fee.

3.7.5 Storage Space: IRS storage space is available for Contractor's equipment (ladder, etc.); however, IRS shall not be responsible for lost, stolen, or misplaced equipment.

3.7.6 Trash Disposal: Contractor shall provide garbage/waste receptacles for disposal of trash (such as wrapping paper, boxes, etc.) and be removed by Contractor upon completion of work.

4.0 CONTRACTOR RESPONSIBILITIES

4.1 Contractor shall furnish all labor, materials, and equipment necessary to perform the job.

4.2 Contractor is required to (i) be licensed; (ii) maintain insurance coverage that is common within the industry and for the nature of work. Insurance coverage shall be payable to the Internal Revenue Service. Contractor shall submit insurance certificate to IRS POC no later than three (3) business days prior to installation.

4.3 All Contractor personnel shall be required to wear proper identification, which may include company attire with logo, badge, etc. when working in the government facility. [Identification card or badge (if needed) is to be displayed on contractor employees at all times.]

4.4 Contractor shall provide personnel who are professional, reliable, trained, and experienced in performing the job requirements.

4.5 Contractor must ensure that all personnel working on this requirement be: (I) a U.S. citizen or have lawful permanent resident status, and (ii) fluent in the English language. Contractor shall not employ any person to perform work under this requirement with any of the following background history: conviction of a felony, a crime of violence or a serious misdemeanor, a record of arrest for continuing offenses, or failure to file or pay federal income tax.

4.6 Contractor shall provide timely and professional customer service (i.e. address concerns, issues, and other administrative functions). For purposes of this contract timely means no later than by the close of business next business day.

4.7 Contractor personnel shall maintain a neat, clean, and hazard-free working environment to the extent practicable. All work shall be done using the highest standards of the trade and in compliance with all federal, state, and local codes. Contractor personnel shall take all necessary precautions to avoid scarring, marring or damaging government's property. Contractor(s) shall incur any cost to repair or restore to its original condition Government property damaged during the performance of this work. Upon completion, all packing materials, debris, dust, etc. shall be removed from the premises and discarded in accordance with local and state regulations. The work area shall be left in "ready to occupy" conditions.

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4.8 The work shall be carried out in such a manner so that there will be little no interference with the proper execution of Government business. All persons employed in contract work shall, while on the premises, comply with all building regulations.

5.0 IRS RESPONSIBILITIES

5.1 IRS POC shall provide access to the respective work area(s).

5.1 IRS POC shall assist in making the appropriate decisions with regards to specific location/placement, procedures, and programming. The IRS POC shall be readily available during the contract term and shall make decisions without delay. All required and applicable changes shall be executed through contract modification. Contract modifications shall be executed by the Contracting Officer.

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ATTACHMENT 1

SPECIFIC REQUIREMENTS FOR SECTION 3.6.1 - PHASE I – 3RD FLOOR

Task No.	Name of Item	Description of Scope of Work
Access Control System (ACS)		
1.	**CARD READER** (See drawing - and various door locations.)	**Description:** Secure the services of an IDENTIV/HIRSCH certified, approved, licensed and bonded Contractor to install new SMART card readers and access control hardware with IDENTIV access control Technology, control panels, firmware, card readers, etc. in order to be in compliance with HSPD-12, FICAM, and NIST. **ACS Requirements:** A. Installation of the **Access-Control/IDENTIV equipment** shall be performed by Identiv certified technicians having installation configuration laptop with the Latest Velocity version access control software to complete SNIB3 setup and IP programming; this is a company provided laptop not connected to IRS domain. **[Note: contractor must use their own installation laptop, government will not provide laptop**]. Contractor shall install /terminate all Equipment per Identiv specification. B. All individuals involved in on site Identiv panel installation must have successfully completed Identiv Digi track training. C. **Prior to Installation the Contractor shall participate in a preconstruction site review meeting with NAC and security personnel.** D. Indentiv manufacturer's warranty is 5 years for readers and 2 years for all other components. **Prior to Installation:** E. For coordination with NAC, the contractor must provide at least a 14-days' notice before proceeding with the reader installation. F. IDENTIV/HIRSCH certified technician must schedule and participate in a **pre-installation meeting** (approximately1.5 hours) with the NAC to ensure compliance of equipment and Identiv specifications. (Equipment information must be available). G. Submit the serial numbers and MAC addresses for the new panels to the NAC to update the DGDD as soon as the equipment is delivered. *They must be added to the IT inclusion list before a panel is brought online; otherwise the port will be immediately disabled which will add unnecessary time and effort in troubleshooting.* H. When ordering Hirsch/Indentiv product the contractor must specify in the order to the manufacturer that the product is to be configure for the IRS use. This is to ensure compatibility with IRS system. **Installation:**

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I. Contractor shall install new card readers, control panels, firmware, and associated accessories as needed to make sure all card readers are fully functional and compatible with the latest PIVII (i.e., SMART) card to be also used as an access card.
J. **Refer to drawings for Card Reader/panel locations. Location questions should be review with local security specialist POC.**
K. Connect All Panel access device wiring connections as per DGDD [door group design document], which will be provided by NAC during installation.
L. The contractor shall participate in field testing with IRS NAC to make sure all card readers, panels and associated accessories are installed properly, and the building is ready to load to IRS Enterprise Network Server.

Contractor shall:

1. Demolish 7 existing Card Readers and Furnish and install a total of **14** card readers listed below at approximately mounting height of 44 inches from the ground:

Identiv Utrust TS Government Reader [Sourced from Identiv]

A. **N/A - 8032ABTFGZY** for mullion in limited wall spaces areas.
B. **13 - 8132ABTFGZY** [or **8132ABPFGZY** for building exterior] prox regular wall mount (most used).
C. **1 - 8232ABTFGZY** Keypad/prox in at two factors 'Limited' areas (i.e. MDF, IDF, Security Rooms and mail Rooms).

2. Install, configure, and test **14** IDENTIV **Model No. DTLM3** (Miniature Embedded Line Module 3 – one needed for each card reader). Demolish 7 existing ones

3. Install **7** Door Strikes [*HES 1600 series, or HES 1006K; or approved equal*]. FAIL SECURE

Minimum Specifications: *ANSI/BHMA A156.31, Grade 2; UL 1034 burglary-resistant listed; UL 294 listed; Tamper-resistant; Static strength 1,500 lbs, Dynamic strength 70 ft-lbs; Endurance 1 million cycles; Field selectable fail secure/fail safe; Dual voltage 12/24 VDC/VAC.*

[EACH DOOR WILL REQUIRE A DOOR STRIKE **OR** MAGLOCK…. STRIKE ON REGULAR DOORS OR MAGLOCK ON CI PERIMETER DOORS WITH CYPHER LOCKS]

4. Install **0** Door Magnetic Locks, *1200lb Minimum 12/24-Dual Volt;* FAIL SAFE *[SDC 1570 series; or Securitron M62/68 or approved equal*]. In addition, install a PUSH TO EXIT manual release that results in direct interruption of power to the lock (per NFPA 101 – 7.2.1.6.2) for each door with Magnetic locks.

5. Contractor shall install **14** door contacts; UL 634 Level 2 High Security

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Listed (**MAGNASPHERE RECESSED: HSS-L2C / SURFACE-MOUNT: HSS-L2S/D** OR UL 634 Level 2 equal) to the access control card reader module located in the ceiling above each door that has a card reader. Note: these card reader modules shall be wired back to the access control panel/controller. No exposed wiring will be permitted. Demolish 7 existing door contacts.

6. Install **7** Request-to-Exit (REX) sensors/devices [*Bosch Model DS160/DS161PIR; or approved equal*]. Minimum Specifications: UL294 Certification; Programmable fail-safe or fail-secure modes; 12 VAC or VDC to 30 VAC or VDC; Two Form C relay contacts (Adjustable from 0.5 sec to 64 sec) each rated 1 A at 30 VAC or VDC for resistive loads; 8 mA nominal standby current.

7. Contractor shall install, configure, and test the following IDENTIV equipment to the ePAC server system:

Install, configure, and test **2** IDENTIV Digi*Trac **Model No. MX8N3** (8-4 or 2 doors, 115 VAC) **Controller w/Enclosure**. MX controllers include the SNIB 3 (Secure Network Interface Assembly). NOTE: Each panel shall have their own IP Address issued by IRS IT.

A. Install, configure, and test an IDENTIV/HIRSCH Model No. **MEB/CB128** (128,000 User Code & Buffer Expansion Board) for EACH MX Control Panel above.
B. Install, configure, and test an IDENTIV/HIRSCH Model No. **AEB8** (8 Alarm Input Expansion Board) for EACH MX Control Panel above.
C. Install, configure, and test an IDENTIV/HIRSCH Model No. **RREB** (8 Relay Expansion Board) for EACH MX Control Panel above.
D. Install, configure, and test an IDENTIV/HIRSCH Model No. **MEB/BE** (Memory Expansion Board – Buffer Expansion) for EACH MX Control Panel above.
E. Install, configure, and test an IDENTIV/HIRSCH Model No. **MELM3**(Miniature Embedded Line Module 3) for EACH MX Control Panel above.
F. Install, configure, and test an IDENTIV/HIRSCH Model No. **SNIB3** (most current version) for EACH MX Control Panel above.

NOTE: EACH DOOR CONTROL PANEL MUST HAVE THE FOLLOWING EXPANSION BOARD:

- **1- MEB/CB128**
- **1- AEB8**
- **1- RREB**
- **1- MEB/BE**
- **1- SNIB 3 (most current version)**
- **1- CCM (most current version)**
- **1- MELM3 at door contact**

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8. <u>Special Installation Instruction:</u> Wiring Information:

A. Provide, Install and test all new wiring: PAIGE 743107 cable is recommended for MELM/contact/REX/Field Device.

B. PAIGE 454939AWH or 18AWG equal cable for readers.

C. Power supply to Door Lock: PAIGE 454641AXX

D. Altronix to lock. Install 2 MOV resistors at lock.

E. Non-Reader RS485 specifications: Belden 82842 or Belden 89842 [exterior/underground, any distance over 500 ft.]

F. All new video, reader and alarm wiring and attached connectors will be tested as an assembled unit for signal loss/strength [resistance and capacitance and db.] after installation prior to connection in compliance with Identiv specifications. The contractor shall provide written report of pertinent test results [volts/ dba/ ohms etc.] to IRS Security Specialist upon test completion. All new signal wiring connections [end of line resistors excluded] shall be labeled at each end and final numbering /termination points shall be recorded on connection diagram and separate data sheet and forwarded to IRS Security Specialist and point of contact. A copy of wiring diagram shall also be left in each control cabinet/field device.

G. In the event that splices are unavoidable all interior splices must be approved by IRS project manager and shall be soldered and shall use adhesive lined heat shrink wire connectors.

H. Fire/emergency designated egress doors shall have Fire/emergency egress request to exit door sensors, contacts or other door hardware as required by applicable code dedicated to emergency egress operation. These devices shall be isolated and separate from any Access control system egress sensing hardware and operate per applicable Codes. Under no circumstance shall activation of a Fire or emergency signal be controlled by or routed through Access Control system. • Fire/emergency system functional interface testing [maglock door unlocks] shall be performed same day for occupied spaces and no later than beginning of next business day for all other affected spaces with new readers/panels

I. LINE SUPERVISION MODULES
Required for All Monitored Devices. Digitally Processed, Analog Inputs
2 Styles

1. DTLM - Screw Terminals
2. MELM - Flying Leads

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		3 Input - Alarm, RQE, Tamper IRS standard is MELM 3 at all devices ***9.*** Install power supply kits w/battery for each **Controller and door lock power** [*Altronix* MAXIMAL33D for 16 Output Access Power Controllers and/or Altronix eFLOW 6NA8 *for 8 Outputs Power Supply w/ 12V, 12AH Battery Pack.* **10.** Provide and install cable/wiring/hardware as needed to/from government furnished PC/server to/from card readers, etc. All cable/wiring/hardware shall be plenum rated and in compliance with manufacturer's recommendations. **11.** Test all new PIVII card readers before releasing to IRS. The Contractor shall make sure that control panels and the card readers are capable of matching and reading badge IDs from the new PIVII, **PAC [Corp 1000]** cards. **12. All Identiv panels will be supplied w/ new 12v 7ah backup battery.** **13. Provide one DTMXSP spare parts kit and** **14. Provide one FICAM ENROLLMENT KIT USB-FICAM** **15.** Contractor shall also participate in **post completion final checkout 'go live' meeting**' testing all system attributes of connected hardware.
2.		**N/A**
FIRE-RATED PLYWOOD FOR DOOR CONTROL & BURGLAR PANEL		
3.	PLYWOOD	**N/A**
Intrusion Detection System (IDS)		
4.	INTRUSION PANEL	Install **one (1)** Intrusion Detection System (IDS) Control Panel [*Ademco Vista 128B Pak, 12-volt version or Radionics (Bosch) B8512G w/ phone card*] with alarm Keypads on walls. Approximate location is shown on drawings and must be field verified and approved by security specialist. Contractor must supply and install all accessories pertaining to each panel. Items must be mounted securely and resist tampering. Control panels and accessories shall be tested during inspection. Install **(0 -Keypads present onsite)** alarm keypads [*Honeywell Model 6160; or Bosch B942* touch screen keypads] as shown on layout (coordinate locations with Security Specialist). [Note to Contractor: One alarm keypad is included with Vista Kit]. Mount the keypad device(s) at the approximate 54 in. height.

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		NOTE: Keypads will ONLY alarm and/or trouble conditions in plain English and activate an audible alarm so that IRS employees can recognize trouble/alarm and location. The device/location descriptions must be conveyed to the designated FPS Mega Center. Specific (additional) tasks are as follows: - Contractor shall install all (new) burglar equipment according to manufacturer's specifications. Suggested alarm devices/line modules shall be Belden 8761, 22- gauge (for lengths up to 700 feet) or Belden 8760, 18 gauge for lengths up to 2,000 feet respectively. - Hardwire the panel OEM supplied transformer box outside and below the control panel with EMT in accordance with the NEC, and UL standards. - Hardwire surge protector ahead of the panel OEM power supply [*Ditek DTK-120HW or equal* 50,000A surge rating, 10kA SCCR/In, 700V L-G/L-N; 1500V N-G;]. - Install the OEM included control panel tamper switch on the control panel to a hardwired panel zone. Program as '24-hour auxiliary' alarm (i.e., to Mega Center). - Install the dual battery harness included with the Burglar panel. Also provide cam lock and key [*Medeco Cam Locks or UL434 Listed equal*]. - Install two 12-volt, 17 or 18 amp-hour batteries into the Burglar control panel [the 7-amp hour rated units is NOT acceptable]. - Install two *Ademco 620* cords, and two Ademco 621 RJ31X jacks inside the Burglar control panel. - Install two surge protectors [*Ditek MRJ31XSCP-WP or equal with the following features: RJ45 SCP: 150mA self-resetting fuse*] ahead of the analog telephone lines for the alarm system (*i.e., to be eventually linked to the FPS Mega Center*). - Install Auxiliary Power Supply [*Altronix AL400ULM or approved equal with the following features: 5 PTC Class 2 Outputs (auto-resettable), 12/24VDC @ 4A, FAI, 115VAC*] (UL Listed Commercial) w/ tamper switch and program for 24-hour auxiliary alarm. Install auxiliary power supply below the control panel connected by EMT. If hardwired to the AC, install a surge protector ahead of the Auxiliary Power Supply line voltage. Use this for detection device and keypad power on non-polling loop powered devices. All wires that come into or out of all panels/enclosures must be in EMT or fished in the wall into the back of the enclosures. No exposed and/or visible wires are permitted. - Install one 12-volt, 17-amp hour battery into the Auxiliary Power Supply. Connect Auxiliary Power Supply to the control panel's hardwired panel zones for detection and notification. - Install at least one spare enclosure below the Auxiliary Power Supply connected by EMT or fish the wires in the wall and into the back of the panel. Install a tamper switch on the panel (programmed as 24-hour auxiliary). Provide cam lock(s) and key(s) [*Medeco Cam Locks or UL434 Listed equal*] for zone expanders and terminal strips.

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		Install at least one (1) panel OEM zone expanders inside the spare panels at the control panel locations for a different zone for each and every device that does not have its own built-in zone expander. Each expander will provide 8 zones via zone expanders. Each individual device must annunciate locally with its specific location and communicate this identification back to the designated FPS Mega Center. In general, install UL434 Listed cam locks w/key [*Medeco Cam Locks or UL434 Listed equal*] & IDS panel OEM tamper switches on all control panels, enclosures, power supplies, etc. Note: all tamper switches must be linked to Mega Center for monitoring **IDS Requirements:** a. The Contractor shall complete all configuration paperwork and testing coordination and communication for monitoring of the Intrusion alarm with the US Department of Homeland Security, Federal Protective Service Mega Center in **Battle Creek, MI,** upon installation completion but prior to final contract completion and final payment. Each point of the system must be individually identified at the keypad and in the Mega Center. All zones must be tested to the Mega Center. Provide a detailed inventory (with manufacturer name and model number) of all equipment installed. The Mega Center selected above will monitor the burglar alarm system. The Contractor shall contact a "Remote Programmer" for this information at the Mega Center. The applicable "Remote Programmer" contact information can be acquired by the method of email communication through the IRS POC or at www.dhs.gov. b. Prior to contract completion, the Contractor shall ensure that the alarm system has been uploaded by the FPS Mega Center using Honeywell/Ademco Compass Software or similar type software. Additionally, the Contractor shall ensure that all zones are fully tested and communicated **before** installation is deemed "complete." c. Upon contract completion, but prior to final, the Contractor shall complete all required documentation and forms (Example: IRS/GSA/DHS(FPS)), depicting the location of each specific device for any and all alarm, access, VSS, etc. systems to include wiring paths, junction boxes, control panels, etc. Mega Center diagram plans/paperwork shall be prepared in AutoCAD and delivered both on paper and in electronic format.
5.	DURESS BUTTON	Install **15** Hard-wired silent duress/panic buttons w/ reset key [*Honeywell Ademco 269SN; or Amseco HUSK-20*]. Contractor must securely install panic buttons under each table or desk, and homerun (hardwire) back to the NEW Burglar Panel. Contractor must verify location with IRS personnel. The wires for button, as with other devices, will be home run and identified

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		individually on site through keypad, and communicated individually with the corresponding Mega Center.
6.	MOTION DETECTOR	Install a total of **(6)** ceiling mounted motion detector [*Bosch DS9370 or Honeywell Model No.* DT6360STC *or Dual Tech motion PIR/Microwave ceiling mount approved equal*]. • NOTE: Contractor must verify location with IRS personnel and refer to drawing marker. Each 360-degree motion detector shall be home run (wired) to Burglar panel. Motion detector must be adjusted as necessary to avoid false alarms that are associated with environmental issues such as air vents. Wire motion detector to the control panel (located in Security Closet) on its own homerun wire with zone/point identification. As with every detector in this system, the proper Mega Center will be notified if an event occurs.
7.	GLASS BREAK DETECTOR	N/A
8.	DOOR CONTACTS.	N/A
VIDEO SURVEILLANCE SYSTEM (VSS)		
9.	CAMERAS	Install **(8)** ceiling mounted **interior mini-dome** IP cameras w/ 3 megapixel minimum. Cameras must meet these minimum requirements: • IP cameras - IPv4, IPv6, HTTP, HTTPS, FTP, DNS, DynDNS, NTP, TCP. • Wide Dynamic Range (WDR) and True Day/Night • Infra-Red (IR) illumination • SDHC Card Slot for Onboard Storage • Up to 30 FPS • Dual Encoder H.264/MJPEG • IP66 rated enclosure • Autofocus, auto-iris • ONVIF/TWAIN Compliant In addition to the minimum requirements, all Video Surveillance System components must meet the H.R.5515 - Section 889(a)(1)(A) of the JOHN S. MCCAIN NATIONAL DEFENSE AUTHORIZATION ACT (NDAA) FOR FISCAL YEAR 2019, which prohibit the use of equipment that have electronic components from Foreign Government Owned entities, or any subsidiary or affiliate of such entities.

		Approved Products Are: • Arecont Mega**IP** Series ONLY (Contera**IP** is not allowed) • AXIS M, P & Q Series ONLY (Companion is not allowed) • Bosch 8000 Series or higher (2000 to 7000 Series are not allowed) The locations of cameras as shown on drawings are approximate. The final location shall be field verified to get a clear, sharp, distortion free picture and roll-free vertical interval switching. A camera view plan should be created by camera vendor to ensure proper area coverage. Contractor shall post Video Surveillance Signs. Locations will be identified by the IRS POC.
10.	CAMERA POWER SUPPLY/ SWITCH	Install Network / Power over Ethernet (POE) switches **as required** for separate VSS network (Must also comply with 2019 NDAA mentioned under Cameras). Approved manufacturers are: Cisco and Razberi.
11.	MONITOR	**Reconnect 2 existing color LCD security monitor(s) in IDF Room and in the TAC**. All Monitors will show activity of all ceiling mounted cameras described above. Also, **install a 550VA Uninterruptible Power Supply (UPS)** for each color monitor [*Tripp-Lite INTERNET550U; or APC BE550G or 120V, 550VA, approved equal*] to keep the monitor powered during a power outage and to condition the voltage. Hardwire all accessories. Note: UPS can be located on wall behind Monitor. Contractor shall also install a Video Decoder (AXIS T8705) *only when required* for multiple monitors in this scope.
12.	Network Video Recorder (NVR)	Install **(1)** Network Video Recorder (NVR) for above cameras (for location see drawing or coordinate with IRS POC). The intent is to bring all camera video feeds to this unit and record 24/7 for 30 days (minimum). Note: NVR must also be able to record audio for cameras with audio kit. All cameras and cables must be identified with labels. NVR must also meet the 2019 NDAA requirements mentioned under the cameras. In addition, the equipment listed below are the only equipment allow to be installed at the IRS and substitution is not allowed. **IRS Approved Products for FSL1/2/3:** • Bosch DIVAR IP 5000 Please note that a separate Video Network and switches need to be installed for communication with cameras. Agency (IRS) network and switches are not allowed to be use for video equipment.

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		Provide and install a separate lockable rack for VSS equipment (NVR, monitor, UPS and switch). Coordinate exact location with IRS POC. Also, install a 1500VA Uninterruptible Power Supply (UPS) [*APC SMT1500C; or Tripp-Lite SMART1500; or 208/120V, 1500VA equal*] on shelf in security room to power the NVR, Switches and Cameras. Contractor shall hardwire all accessories
13.	VIDEO CABLE	Contractor shall connect signal paths between cameras and NVR with orange CAT6 cable or multimode fiber where specified. Cameras shall be connected to the NVR/Switch.
MISCELLANEOUS		
14.	CIPHER LOCK	N/A
15.	STROBE LIGHT	N/A
16.	BLAST FILM	N/A
17.	AUDIO INTERCOM	N/A
18.	INVENTORY	After installation completion and acceptance by IRS POC, Contractor shall provide the IRS POC an inventory of all equipment installed within two business days of completion and acceptance. Contractor shall provide IRS POC with a spreadsheet (compatible with Microsoft Excel) inventory delineating all equipment installed that includes a description and product name, quantities and brief location where the equipment is located within the facility and redlined Drawings (showing any field installation update/deviation from original drawings).

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ATTACHMENT 2

SPECIFIC REQUIREMENTS FOR SECTION 3.6.2 - PHASE I – 8TH FLOOR

Task No.	Name of Item	Description of Scope of Work
Access Control System (ACS)		
1.	**CARD READER** (See drawing - and various door locations.)	**Description:** Secure the services of an IDENTIV/HIRSCH certified, approved, licensed and bonded Contractor to install new SMART card readers and access control hardware with IDENTIV access control Technology, control panels, firmware, card readers, etc. in order to be in compliance with HSPD-12, FICAM, and NIST. **ACS Requirements:** A. Installation of the **Access-Control/IDENTIV equipment** shall be performed by Identiv certified technicians having installation configuration laptop with the Latest Velocity version access control software to complete SNIB3 setup and IP programming; this is a company provided laptop not connected to IRS domain. **[Note: contractor must use their own installation laptop, government will not provide laptop**]. Contractor shall install /terminate all Equipment per Identiv specification. Certificate of completion for these credentials shall be submitted to IRS POC. B. All individuals involved in on site Identiv panel installation must have successfully completed Identiv Digi track training. C. **Prior to Installation the Contractor shall participate in a preconstruction site review meeting with NAC and security personnel.** D. Indentiv manufacturer's warranty is 5 years for readers and 2 years for all other components. **Prior to Installation:** E. For coordination with NAC, the contractor must provide at least a 14-days' notice before proceeding with the reader installation. F. IDENTIV/HIRSCH certified technician must schedule and participate in a **pre-installation meeting** (approximately1.5 hours) with the NAC to ensure compliance of equipment and Identiv specifications. (Equipment information must be available). G. Submit the serial numbers and MAC addresses for the new panels to the NAC to update the DGDD as soon as the equipment is delivered. *They must be added to the IT inclusion list before a panel is brought online; otherwise the port will be immediately disabled which will add unnecessary time and effort in troubleshooting.* H. When ordering Hirsch/Indentiv product the contractor must specify in the order to the manufacturer that the product is to be configure for the IRS use. This is to ensure compatibility with IRS system.

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Installation:

I. Contractor shall install new card readers, control panels, firmware, and associated accessories as needed to make sure all card readers are fully functional and compatible with the latest PIVII (i.e., SMART) card to be also used as an access card.

J. **Refer to drawings for Card Reader/panel locations. Location questions should be review with local security specialist POC.**

K. Connect All Panel access device wiring connections as per DGDD [door group design document], which will be provided by NAC during installation.

L. The contractor shall participate in field testing with IRS NAC to make sure all card readers, panels and associated accessories are installed properly, and the building is ready to load to IRS Enterprise Network Server.

Contractor shall:

1. Furnish and install a total of **6** card readers listed below at approximately mounting height of 44 inches from the ground:

Identiv Utrust TS Government Reader [Sourced from Identiv]

A. **N/A - 8032ABTFGZY** for mullion in limited wall spaces areas.

B. **3 - 8132ABTFGZY** [or **8132ABPFGZY** for building exterior] prox regular wall mount (most used).

C. **3 - 8232ABTFGZY** Keypad/prox in at two factors 'Limited' areas (i.e. MDF, IDF, Security Rooms and mail Rooms).

2. Install, configure, and test **6** IDENTIV **Model No. DTLM3** (Miniature Embedded Line Module 3 – one needed for each card reader).

3. Install **6** Door Strikes [*HES 1600 series, or HES 1006K; or approved equal*]. FAIL SECURE

Minimum Specifications: *ANSI/BHMA A156.31, Grade 2; UL 1034 burglary-resistant listed; UL 294 listed; Tamper-resistant; Static strength 1,500 lbs, Dynamic strength 70 ft-lbs; Endurance 1 million cycles; Field selectable fail secure/fail safe; Dual voltage 12/24 VDC/VAC.*

AND [EACH DOOR WILL REQUIRE A DOOR STRIKE **OR** MAGLOCK…. STRIKE ON REGULAR DOORS OR MAGLOCK ON CI PERIMETER DOORS WITH CYPHER LOCKS]

4. Install **N/A** Door Magnetic Locks, *1200lb Minimum 12/24-Dual Volt;* FAIL SAFE *[SDC 1570 series; or Securitron M62/68 or approved equal*]. In addition, install a PUSH TO EXIT manual release that results in direct interruption of power to the lock (per NFPA 101 – 7.2.1.6.2) for each door with Magnetic locks.

5. Contractor shall install **6** door contacts; UL 634 Level 2 High Security Listed (**MAGNASPHERE RECESSED: HSS-L2C / SURFACE-MOUNT:**

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HSS-L2S/D OR UL 634 Level 2 equal) to the access control card reader module located in the ceiling above each door that has a card reader. Note: these card reader modules shall be wired back to the access control panel/controller. No exposed wiring will be permitted.

6. Install **6** Request-to-Exit (REX) sensors/devices [*Bosch Model DS160/DS161PIR; or approved equal*]. Minimum Specifications: UL294 Certification; Programmable fail-safe or fail-secure modes; 12 VAC or VDC to 30 VAC or VDC; Two Form C relay contacts (Adjustable from 0.5 sec to 64 sec) each rated 1 A at 30 VAC or VDC for resistive loads; 8 mA nominal standby current.

7. Contractor shall install, configure, and test the following IDENTIV equipment to the ePAC server system:

Install, configure, and test **1** IDENTIV Digi*Trac **Model No. MX8N3** (8 doors, 115 VAC) **Controller w/Enclosure**. MX controllers include the SNIB 3 (Secure Network Interface Assembly). NOTE: Each panel shall have their own IP Address issued by IRS IT.

A. Install, configure, and test an IDENTIV/HIRSCH Model No. **MEB/CB128** (128,000 User Code & Buffer Expansion Board) for EACH MX Control Panel above.
B. Install, configure, and test an IDENTIV/HIRSCH Model No. **AEB8** (8 Alarm Input Expansion Board) for EACH MX Control Panel above.
C. Install, configure, and test an IDENTIV/HIRSCH Model No. **RREB** (8 Relay Expansion Board) for EACH MX Control Panel above.
D. Install, configure, and test an IDENTIV/HIRSCH Model No. **MEB/BE** (Memory Expansion Board – Buffer Expansion) for EACH MX Control Panel above.
E. Install, configure, and test an IDENTIV/HIRSCH Model No. **MELM3**(Miniature Embedded Line Module 3) for EACH MX Control Panel above.
F. Install, configure, and test an IDENTIV/HIRSCH Model No. **SNIB3** (most current version) for EACH MX Control Panel above.

NOTE: EACH DOOR CONTROL PANEL MUST HAVE THE FOLLOWING EXPANSION BOARD:

- **1- MEB/CB128**
- **1- AEB8**
- **1- RREB**
- **1- MEB/BE**
- **1- SNIB 3 (most current version)**
- **1- CCM (most current version)**
- **1- MELM3 at door contact**

8. Special Installation Instruction: Wiring Information:

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A. Provide, Install and test all new wiring: PAIGE 743107 cable or equal is recommended for MELM/contact/REX/Field Device.

B. PAIGE 454939AWH or 18AWG equal cable for readers.

C. Power supply to Door Lock: PAIGE 454641AXX or equivalent

D. Altronix to lock. Install 2 MOV resistors at lock.

E. Non-Reader RS485 specifications: Belden 82842 or Belden 89842 [exterior/underground, any distance over 500 ft.]

F. All new video, reader and alarm wiring and attached connectors will be tested as an assembled unit for signal loss/strength [resistance and capacitance and db.] after installation prior to connection in compliance with Identiv specifications. The contractor shall provide written report of pertinent test results [volts/ dba/ ohms etc.] to IRS Security Specialist upon test completion. All new signal wiring connections [end of line resistors excluded] shall be labeled at each end and final numbering /termination points shall be recorded on connection diagram and separate data sheet and forwarded to IRS Security Specialist and point of contact. A copy of wiring diagram shall also be left in each control cabinet/field device.

G. In the event that splices are unavoidable all interior splices must be approved by IRS project manager and shall be soldered and shall use adhesive lined heat shrink wire connectors.

H. Fire/emergency designated egress doors shall have Fire/emergency egress request to exit door sensors, contacts or other door hardware as required by applicable code dedicated to emergency egress operation. These devices shall be isolated and separate from any Access control system egress sensing hardware and operate per applicable Codes. Under no circumstance shall activation of a Fire or emergency signal be controlled by or routed through Access Control system. • Fire/emergency system functional interface testing [maglock door unlocks] shall be performed same day for occupied spaces and no later than beginning of next business day for all other affected spaces with new readers/panels

I. LINE SUPERVISION MODULES
Required for All Monitored Devices. Digitally Processed, Analog Inputs
2 Styles
1. DTLM - Screw Terminals
2. MELM - Flying Leads

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		3 Input - Alarm, RQE, Tamper IRS standard is MELM 3 at all devices ***9.*** Install power supply kits w/battery for each **Controller and door lock power** [*Altronix* MAXIMAL33D for 16 Output Access Power Controllers and/or Altronix eFLOW 6NA8 *for 8 Outputs Power Supply w/ 12V, 12AH Battery Pack.* **10.** Provide and install cable/wiring/hardware as needed to/from government furnished PC/server to/from card readers, etc. All cable/wiring/hardware shall be plenum rated and in compliance with manufacturer's recommendations. **11.** Test all new PIVII card readers before releasing to IRS. The Contractor shall make sure that control panels and the card readers are capable of matching and reading badge IDs from the new PIVII, **PAC [Corp 1000]** cards. **12. All Identiv panels will be supplied w/ new 12v 7ah backup battery.** **13. Provide one DTMXSP spare parts kit and** **14. Provide one FICAM ENROLLMENT KIT USB-FICAM** **15.** Contractor shall also participate in **post completion final checkout 'go live' meeting**' testing all system attributes of connected hardware.
2.		N/A
FIRE-RATED PLYWOOD FOR DOOR CONTROL & BURGLAR PANEL		
3.	PLYWOOD	Plywood: Prior to Burglar Alarm control panel & Door Control panel installation contractor shall purchase 3/4 inch "fire-rated" plywood measuring approximately 4 feet x 8 feet. Contactor shall fasten plywood to wall prior to installation of all access card control panels, transformers and uninterruptible power supply equipment, shelving, etc. in support of all items described in this work statement. All physical security related items shall be installed on a separate fire rated plywood and not to be shared with any other equipment.
Intrusion Detection System (IDS)		
4.	INTRUSION PANEL	***Connect all Intrusion Detection System (IDS) devices in the 8th floor to the new IDS Panel in the 7th floor security room. The two floors will be separate zones within the same panel.*** Install **(2)** alarm keypads [*Honeywell Model 6160; or Bosch B942* touch screen keypads] as shown on layout (coordinate locations with Security Specialist). [Note to Contractor: One alarm keypad is included with Vista Kit]. Mount the keypad device(s) at the approximate 54 in. height from ground. NOTE: Keypads will ONLY alarm and/or trouble conditions in plain English and activate an audible alarm so that IRS employees can recognize

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		trouble/alarm and location. The device/location descriptions must be conveyed to the designated FPS Mega Center. Specific (additional) tasks are as follows: - Contractor shall install all (new) burglar equipment according to manufacturer's specifications. Suggested alarm devices/line modules shall be Belden 8761, 22- gauge (for lengths up to 700 feet) or Belden 8760, 18 gauge for lengths up to 2,000 feet respectively. - Hardwire the panel OEM supplied transformer box outside and below the control panel with EMT in accordance with the NEC, and UL standards. - Hardwire surge protector ahead of the panel OEM power supply [*Ditek DTK-120HW or equal* 50,000A surge rating, 10kA SCCR/In, 700V L-G/L-N; 1500V N-G;]. - Install the OEM included control panel tamper switch on the control panel to a hardwired panel zone. Program as '24-hour auxiliary' alarm (i.e., to Mega Center). - Install the dual battery harness included with the Burglar panel. Also provide cam lock and key [*Medeco Cam Locks or UL434 Listed equal*]. - Install two 12-volt, 17 or 18 amp-hour batteries into the Burglar control panel [the 7-amp hour rated units is NOT acceptable]. - Install two *Ademco 620* cords, and two Ademco 621 RJ31X jacks inside the Burglar control panel. - Install two surge protectors [*Ditek MRJ31XSCP-WP or equal with the following features: RJ45 SCP: 150mA self-resetting fuse*] ahead of the analog telephone lines for the alarm system (*i.e., to be eventually linked to the FPS Mega Center*). - Install Auxiliary Power Supply [*Altronix AL400ULM or approved equal with the following features: 5 PTC Class 2 Outputs (auto-resettable), 12/24VDC @ 4A, FAI, 115VAC*] (UL Listed Commercial) w/ tamper switch and program for 24-hour auxiliary alarm. Install auxiliary power supply below the control panel connected by EMT. If hardwired to the AC, install a surge protector ahead of the Auxiliary Power Supply line voltage. Use this for detection device and keypad power on non-polling loop powered devices. All wires that come into or out of all panels/enclosures must be in EMT or fished in the wall into the back of the enclosures. No exposed and/or visible wires are permitted. - Install one 12-volt, 17-amp hour battery into the Auxiliary Power Supply. Connect Auxiliary Power Supply to the control panel's hardwired panel zones for detection and notification. - Install at least one spare enclosure below the Auxiliary Power Supply connected by EMT or fish the wires in the wall and into the back of the panel. Install a tamper switch on the panel (programmed as 24-hour auxiliary). Provide cam lock(s) and key(s) [*Medeco Cam Locks or UL434 Listed equal*] for zone expanders and terminal strips. Install at least one (1) panel OEM zone expanders inside the spare panels at the control panel locations for a different zone for each and every device that

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		does not have its own built-in zone expander. Each expander will provide 8 zones via zone expanders. Each individual device must annunciate locally with its specific location and communicate this identification back to the designated FPS Mega Center. In general, install UL434 Listed cam locks w/key [*Medeco Cam Locks or UL434 Listed equal*] & IDS panel OEM tamper switches on all control panels, enclosures, power supplies, etc. Note: all tamper switches must be linked to Mega Center for monitoring **IDS Requirements:** d. The Contractor shall complete all configuration paperwork and testing coordination and communication for monitoring of the Intrusion alarm with the US Department of Homeland Security, Federal Protective Service Mega Center in **Battle Creek, MI** upon installation completion but prior to final contract completion and final payment. Each point of the system must be individually identified at the keypad and in the Mega Center. All zones must be tested to the Mega Center. Provide a detailed inventory (with manufacturer name and model number) of all equipment installed. The Mega Center selected above will monitor the burglar alarm system. The Contractor shall contact a "Remote Programmer" for this information at the Mega Center. The applicable "Remote Programmer" contact information can be acquired by the method of email communication through the IRS POC or at www.dhs.gov. e. Prior to contract completion, the Contractor shall ensure that the alarm system has been uploaded by the FPS Mega Center using Honeywell/Ademco Compass Software or similar type software. Additionally, the Contractor shall ensure that all zones are fully tested and communicated **before** installation is deemed "complete." f. Upon contract completion, but prior to final, the Contractor shall complete all required documentation and forms (Example: IRS/GSA/DHS(FPS)), depicting the location of each specific device for any and all alarm, access, VSS, etc. systems to include wiring paths, junction boxes, control panels, etc. Mega Center diagram plans/paperwork shall be prepared in AutoCAD and delivered both on paper and in electronic format.
5.	DURESS BUTTON	N/A
6.	MOTION DETECTOR	N/A
7.	GLASS BREAK DETECTOR	N/A

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8.	DOOR CONTACTS.	Install **(4)** door contacts onto the zone expanders located in the burglar alarm panel. DOOR CONTACT MUST MEET UL634 LEVEL 2 High Security Listed [*MAGNASPHERE RECESSED: HSS-L2C / SURFACE-MOUNT: HSS-L2S/D OR* UL634 LEVEL 2 *approved equal*]. Note: recessed door contacts shall be home run (wired) as a separate zone on the burglar control panel and report to the designated FPS Mega Center. Doors that enter/exit business units require contacts for the burglar alarm and/or access card reader portions of the project. Some doors may have two door contacts (i.e., intrusion detection and access control). No exposed wiring will be permitted. Ensure that the door contacts are installed in such a way that doorframe(s) and imperfections do not affect the contacts and break them.
VIDEO SURVEILLANCE SYSTEM (VSS)		
9.	CAMERAS	N/A
10.	CAMERA POWER SUPPLY/ SWITCH	N/A
11.	MONITOR	N/A.
12.	Network Video Recorder (NVR)	N/A
13.	VIDEO CABLE	N/A.
MISCELLANEOUS		
14.	CIPHER LOCK	(2) **NON-CI** - **Cipher Lock with Deadbolt:** Install **(4)** high security cipher locks as shown on drawing [*Simplex 8100/Series 8148 Mortise Pushbutton Lever with Deadbolt, & Key Bypass; or approved equal* with the following features: No battery Number of codes: Single Access code Programming: Lock must be programmed via keypad without removing lock from the door. Key Override: Small format interchangeable cores (Best and equivalents 7-pin length), large format removable cores - Medco/ASSA/Yale (5 or 6-pin length), Corbin, Russwin, Schlage & Sargent. Construction: Cast front housing, unified trims plate; fixed ADA compliant levers.
15.	STROBE LIGHT	N/A

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16.	BLAST FILM	N/A
17.	AUDIO INTERCOM	N/A
18.	INVENTORY	After installation completion and acceptance by IRS POC,Contractor shall provide the IRS POC an inventory of all equipment installed within two business days of completion and acceptance. Contractor shall provide IRS POC with a spreadsheet (compatible with Microsoft Excel) inventory delineating all equipment installed that includes a description and product name, quantities and brief location where the equipment is located within the facility and redlined Drawings (showing any field installation update/deviation from original drawings).

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ATTACHMENT 3

SPECIFIC REQUIREMENTS FOR SECTION 3.6.3 - PHASE II – 7TH FLOOR

Task No.	Name of Item	Description of Scope of Work
Access Control System (ACS)		
1.	**CARD READER** (See drawing - and various door locations.)	**Description:** Secure the services of an IDENTIV/HIRSCH certified, approved, licensed and bonded Contractor to install new SMART card readers and access control hardware with IDENTIV access control Technology, control panels, firmware, card readers, etc. in order to be in compliance with HSPD-12, FICAM, and NIST. **ACS Requirements:** A. Installation of the **Access-Control/IDENTIV equipment** shall be performed by Identiv certified technicians having installation configuration laptop with the Latest Velocity version access control software to complete SNIB3 setup and IP programming; this is a company provided laptop not connected to IRS domain. **[Note: contractor must use their own installation laptop, government will not provide laptop**]. Contractor shall install /terminate all Equipment per Identiv specification. B. All individuals involved in on site Identiv panel installation must have successfully completed Identiv Digi track training. C. **Prior to Installation the Contractor shall participate in a preconstruction site review meeting with NAC and security personnel.** D. Indentiv manufacturer's warranty is 5 years for readers and 2 years for all other components. **Prior to Installation:** E. For coordination with NAC, the contractor must provide at least a 14-days' notice before proceeding with the reader installation. F. IDENTIV/HIRSCH certified technician must schedule and participate in a **pre-installation meeting** (approximately 1.5 hours) with the NAC to ensure compliance of equipment and Identiv specifications. (Equipment information must be available). G. Submit the serial numbers and MAC addresses for the new panels to the NAC to update the DGDD as soon as the equipment is delivered. *They must be added to the IT inclusion list before a panel is brought online; otherwise the port will be immediately disabled which will add unnecessary time and effort in troubleshooting.* H. When ordering Hirsch/Indentiv product the contractor must specify in the order to the manufacturer that the product is to be configure for the IRS use. This is to ensure compatibility with IRS system.

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Installation:

I. Contractor shall install new card readers, control panels, firmware, and associated accessories as needed to make sure all card readers are fully functional and compatible with the latest PIVII (i.e., SMART) card to be also used as an access card.

J. **Refer to drawings for Card Reader/panel locations. Location questions should be review with local security specialist POC.**

K. Connect All Panel access device wiring connections as per DGDD [door group design document], which will be provided by NAC during installation.

L. The contractor shall participate in field testing with IRS NAC to make sure all card readers, panels and associated accessories are installed properly, and the building is ready to load to IRS Enterprise Network Server.

Contractor shall:

1. Furnish and install a total of **10** card readers listed below at approximately mounting height of 44 inches from ground:

Identiv Utrust TS Government Reader [Sourced from Identiv]

A. **0 - 8032ABTFGZY** for mullion in limited wall spaces areas.

B. **7 - 8132ABTFGZY** [or **8132ABPFGZY** for building exterior] prox regular wall mount (most used).

C. **3 - 8232ABTFGZY** Keypad/prox in at two factors 'Limited' areas (i.e. MDF, IDF, Security Rooms and mail Rooms).

2. Install, configure, and test **10** IDENTIV **Model No. DTLM3** (Miniature Embedded Line Module 3 – one needed for each card reader).

3. Install **8** Door Strikes [*HES 1600 series, or HES 1006K; or approved equal*]. FAIL SECURE

Minimum Specifications: *ANSI/BHMA A156.31, Grade 2; UL 1034 burglary-resistant listed; UL 294 listed; Tamper-resistant; Static strength 1,500 lbs, Dynamic strength 70 ft-lbs; Endurance 1 million cycles; Field selectable fail secure/fail safe; Dual voltage 12/24 VDC/VAC.*

AND [EACH DOOR WILL REQUIRE A DOOR STRIKE **OR** MAGLOCK…. STRIKE ON REGULAR DOORS OR MAGLOCK ON CI PERIMETER DOORS WITH CYPHER LOCKS]

4. Install **2** Door Magnetic Locks, *1200lb Minimum 12/24-Dual Volt;* FAIL SAFE *[SDC 1570 series; or Securitron M62/68 or approved equal*]. In addition, install a PUSH TO EXIT manual release that results in direct interruption of power to the lock (per NFPA 101 – 7.2.1.6.2) for each door with Magnetic locks.

5. Contractor shall install **10** door contacts; UL 634 Level 2 High Security Listed (**MAGNASPHERE RECESSED: HSS-L2C / SURFACE-MOUNT:**

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HSS-L2S/D OR UL 634 Level 2 equal) to the access control card reader module located in the ceiling above each door that has a card reader. Note: these card reader modules shall be wired back to the access control panel/controller. No exposed wiring will be permitted.

6. Install **10** Request-to-Exit (REX) sensors/devices [*Bosch Model DS160/DS161PIR; or approved equal*]. Minimum Specifications: UL294 Certification; Programmable fail-safe or fail-secure modes; 12 VAC or VDC to 30 VAC or VDC; Two Form C relay contacts (Adjustable from 0.5 sec to 64 sec) each rated 1 A at 30 VAC or VDC for resistive loads; 8 mA nominal standby current.

7. Contractor shall install, configure, and test the following IDENTIV equipment to the ePAC server system:

Install, configure, and test **2** IDENTIV Digi*Trac **Model No. One (1) MX8N3, and one (1) MX4N3,** (8-4 or 2 doors, 115 VAC) **Controller w/Enclosure**. MX controllers include the SNIB 3 (Secure Network Interface Assembly). NOTE: Each panel shall have their own IP Address issued by IRS IT.

A. Install, configure, and test an IDENTIV/HIRSCH Model No. **MEB/CB128** (128,000 User Code & Buffer Expansion Board) for EACH MX Control Panel above.
B. Install, configure, and test an IDENTIV/HIRSCH Model No. **AEB8** (8 Alarm Input Expansion Board) for EACH MX Control Panel above.
C. Install, configure, and test an IDENTIV/HIRSCH Model No. **RREB** (8 Relay Expansion Board) for EACH MX Control Panel above.
D. Install, configure, and test an IDENTIV/HIRSCH Model No. **MEB/BE** (Memory Expansion Board – Buffer Expansion) for EACH MX Control Panel above.
E. Install, configure, and test an IDENTIV/HIRSCH Model No. **MELM3**(Miniature Embedded Line Module 3) for EACH MX Control Panel above.
F. Install, configure, and test an IDENTIV/HIRSCH Model No. **SNIB3** (most current version) for EACH MX Control Panel above.

NOTE: EACH DOOR CONTROL PANEL MUST HAVE THE FOLLOWING EXPANSION BOARD:

- **1- MEB/CB128**
- **1- AEB8**
- **1- RREB**
- **1- MEB/BE**
- **1- SNIB 3 (most current version)**
- **1- CCM (most current version)**
- **1- MELM3 at door contact**

8. Special Installation Instruction: Wiring Information:

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A. Provide, Install and test all new wiring: PAIGE 743107 cable is recommended for MELM/contact/REX/Field Device.

B. PAIGE 454939AWH or 18AWG equal cable for readers.

C. Power supply to Door Lock: PAIGE 454641AXX

D. Altronix to lock. Install 2 MOV resistors at lock.

E. Non-Reader RS485 specifions: Belden 82842 or Belden 89842 [exterior/underground, any distance over 500 ft.]

F. All new video, reader and alarm wiring and attached connectors will be tested as an assembled unit for signal loss/strength [resistance and capacitance and db.] after installation prior to connection in compliance with Identiv specifications. The contractor shall provide written report of pertinent test results [volts/ dba/ ohms etc.] to IRS Security Specialist upon test completion. All new signal wiring connections [end of line resistors excluded] shall be labeled at each end and final numbering /termination points shall be recorded on connection diagram and separate data sheet and forwarded to IRS Security Specialist and point of contact. A copy of wiring diagram shall also be left in each control cabinet/field device.

G. In the event that splices are unavoidable all interior splices must be approved by IRS project manager and shall be soldered and shall use adhesive lined heat shrink wire connectors.

H. Fire/emergency designated egress doors shall have Fire/emergency egress request to exit door sensors, contacts or other door hardware as required by applicable code dedicated to emergency egress operation. These devices shall be isolated and separate from any Access control system egress sensing hardware and operate per applicable Codes. Under no circumstance shall activation of a Fire or emergency signal be controlled by or routed through Access Control system. • Fire/emergency system functional interface testing [maglock door unlocks] shall be performed same day for occupied spaces and no later than beginning of next business day for all other affected spaces with new readers/panels

I. LINE SUPERVISION MODULES
Required for All Monitored Devices. Digitally Processed, Analog Inputs
2 Styles
1. DTLM - Screw Terminals
2. MELM - Flying Leads

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		3 Input - Alarm, RQE, Tamper IRS standard is MELM 3 at all devices ***9.*** Install power supply kits w/battery for each **Controller and door lock power** [*Altronix* MAXIMAL33D for 16 Output Access Power Controllers and/or Altronix eFLOW 6NA8 *for 8 Outputs Power Supply w/ 12V, 12AH Battery Pack.* **10.** Provide and install cable/wiring/hardware as needed to/from government furnished PC/server to/from card readers, etc. All cable/wiring/hardware shall be plenum rated and in compliance with manufacturer's recommendations. **11.** Test all new PIVII card readers before releasing to IRS. The Contractor shall make sure that control panels and the card readers are capable of matching and reading badge IDs from the new PIVII, **PAC [Corp 1000]** cards. **12. All Identiv panels will be supplied w/ new 12v 7ah backup battery.** **13. Provide one DTMXSP spare parts kit and** **14. Provide one FICAM ENROLLMENT KIT USB-FICAM** **15.** Contractor shall also participate in **post completion final checkout 'go live' meeting**' testing all system attributes of connected hardware.
2.		**N/A**
FIRE-RATED PLYWOOD FOR DOOR CONTROL & BURGLAR PANEL		
3.	PLYWOOD	Plywood: Prior to Burglar Alarm control panel & Door Control panel installation contractor shall purchase 3/4 inch "fire-rated" plywood measuring approximately 4 feet x 8 feet. Contactor shall fasten plywood to wall prior to installation of all access card control panels, transformers and uninterruptible power supply equipment, shelving, etc. in support of all items described in this work statement. All physical security related items shall be installed on a separate fire rated plywood and not to be shared with any other equipment.
Intrusion Detection System (IDS)		
4.	INTRUSION PANEL	Install **(1)** Intrusion Detection System (IDS) Control Panel [*Ademco Vista 128B Pak, 12-volt version or Radionics (Bosch) B8512G w/ phone card*] with alarm Keypads on walls. Approximate location is shown on drawings and must be field verified and approved by security specialist. Contractor must supply and install all accessories pertaining to each panel. Items must be mounted securely and resist tampering. Control panels and accessories shall be tested during inspection. Install **(5)** alarm keypads [*Honeywell Model 6160; or Bosch B942* touch screen keypads] as shown on layout (coordinate locations with Security Specialist).

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		[Note to Contractor: One alarm keypad is included with Vista Kit]. Mount the keypad device(s) at the approximate 54 in. height. NOTE: Keypads will ONLY alarm and/or trouble conditions in plain English and activate an audible alarm so that IRS employees can recognize trouble/alarm and location. The device/location descriptions must be conveyed to the designated FPS Mega Center. Specific (additional) tasks are as follows: - Contractor shall install all (new) burglar equipment according to manufacturer's specifications. Suggested alarm devices/line modules shall be Belden 8761, 22- gauge (for lengths up to 700 feet) or Belden 8760, 18 gauge for lengths up to 2,000 feet respectively. - Hardwire the panel OEM supplied transformer box outside and below the control panel with EMT in accordance with the NEC, and UL standards. - Hardwire surge protector ahead of the panel OEM power supply [*Ditek DTK-120HW or equal* 50,000A surge rating, 10kA SCCR/In, 700V L-G/L-N; 1500V N-G;]. - Install the OEM included control panel tamper switch on the control panel to a hardwired panel zone. Program as '24-hour auxiliary' alarm (i.e., to Mega Center). - Install the dual battery harness included with the Burglar panel. Also provide cam lock and key [*Medeco Cam Locks or UL434 Listed equal*]. - Install two 12-volt, 17 or 18 amp-hour batteries into the Burglar control panel [the 7-amp hour rated units is NOT acceptable]. - Install two *Ademco 620* cords, and two Ademco 621 RJ31X jacks inside the Burglar control panel. - Install two surge protectors [*Ditek MRJ31XSCP-WP or equal with the following featurs: RJ45 SCP: 150mA self-resetting fuse*] ahead of the analog telephone lines for the alarm system (*i.e., to be eventually linked to the FPS Mega Center*). - Install Auxiliary Power Supply [*Altronix AL400ULM or approved equal with the following features: 5 PTC Class 2 Outputs (auto-resettable), 12/24VDC @ 4A, FAI, 115VAC*] (UL Listed Commercial) w/ tamper switch and program for 24-hour auxiliary alarm. Install auxiliary power supply below the control panel connected by EMT. If hardwired to the AC, install a surge protector ahead of the Auxiliary Power Supply line voltage. Use this for detection device and keypad power on non-polling loop powered devices. All wires that come into or out of all panels/enclosures must be in EMT or fished in the wall into the back of the enclosures. No exposed and/or visible wires are permitted. - Install one 12-volt, 17-amp hour battery into the Auxiliary Power Supply. Connect Auxiliary Power Supply to the control panel's hardwired panel zones for detection and notification. - Install at least one spare enclosure below the Auxiliary Power Supply connected by EMT or fish the wires in the wall and into the back of the panel. Install a tamper switch on the panel (programmed as 24-hour

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		auxiliary). Provide cam lock(s) and key(s) [*Medeco Cam Locks or UL434 Listed equal*] for zone expanders and terminal strips. Install at least one **(1) panel OEM zone expanders** inside the spare panels at the control panel locations for a different zone for each and every device that does not have its own built-in zone expander. Each expander will provide 8 zones via zone expanders. Each individual device must annunciate locally with its specific location and communicate this identification back to the designated FPS Mega Center. In general, install UL434 Listed cam locks w/key [*Medeco Cam Locks or UL434 Listed equal*] & IDS panel OEM tamper switches on all control panels, enclosures, power supplies, etc. Note: all tamper switches must be linked to Mega Center for monitoring **IDS Requirements:** a. The Contractor shall complete all configuration paperwork and testing coordination and communication for monitoring of the Intrusion alarm with the US Department of Homeland Security, Federal Protective Service Mega Center in **Battle Creek, MI** upon installation completion but prior to final contract completion and final payment. Each point of the system must be individually identified at the keypad and in the Mega Center. All zones must be tested to the Mega Center. Provide a detailed inventory (with manufacturer name and model number) of all equipment installed. The Mega Center selected above will monitor the burglar alarm system. The Contractor shall contact a "Remote Programmer" for this information at the Mega Center. The applicable "Remote Programmer" contact information can be acquired by the method of email communication through the IRS POC or at www.dhs.gov. b. Prior to contract completion, the Contractor shall ensure that the alarm system has been uploaded by the FPS Mega Center using Honeywell/Ademco Compass Software or similar type software. Additionally, the Contractor shall ensure that all zones are fully tested and communicated **before** installation is deemed "complete." c. Upon contract completion, but prior to final, the Contractor shall complete all required documentation and forms (Example: IRS/GSA/DHS(FPS)), depicting the location of each specific device for any and all alarm, access, VSS, etc. systems to include wiring paths, junction boxes, control panels, etc. Mega Center diagram plans/paperwork shall be prepared in AutoCAD and delivered both on paper and in electronic format.
5.	DURESS BUTTON	N/A

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6.	MOTION DETECTOR	Install a total of **(8)** ceiling mounted motion detector [*Bosch DS9370 or Honeywell Model No.* DT6360STC *or Dual Tech motion PIR/Microwave ceiling mount approved equal*]. • NOTE: Contractor must verify location with IRS personnel and refer to drawing marker. Each 360-degree motion detector shall be home run (wired) to Burglar panel. Motion detector must be adjusted as necessary to avoid false alarms that are associated with environmental issues such as air vents. Wire motion detector to the control panel (located in Security Closet) on its own homerun wire with zone/point identification. As with every detector in this system, the proper Mega Center will be notified if an event occurs.
7.	GLASS BREAK DETECTOR	N/A
8.	DOOR CONTACTS.	N/A
VIDEO SURVEILLANCE SYSTEM (VSS)		
9.	CAMERAS	N/A
10.	CAMERA POWER SUPPLY/ SWITCH	N/A
11.	MONITOR	**Relocate one existing 32" color** LCD security monitor(s). See drawing for location or coordinate with Security Specialist. For wall locations provide Full-motion TV wall mount and coordinate height with IRS POC. All Monitors will show activity from 3rd floor NVR. Also, install a 550VA Uninterruptible Power Supply (UPS) for each color monitor [*Tripp-Lite INTERNET550U; or APC BE550G or 120V, 550VA, approved equal*] to keep the monitor powered during a power outage and to condition the voltage. Hardwire all accessories. Note that UPS can be located on wall behind Monitor. Contractor shall also install a Video Decoder (AXIS T8705) *only when required* for multiple monitors in this scope.
12.	Network Video Recorder (NVR)	N/A
13.	VIDEO CABLE	N/A
MISCELLANEOUS		

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14.	CIPHER LOCK	The contractor shall furnish and install **(9)** SCHLAGE Electronic Lock Model AD-201-CY-50-KP or equal: “FIPS-201-1” compliant, UL 294 listed, ANSI/BHMA A156.25. The contractor shall verify the type of lock- cylindrical or mortise before purchasing the lock. The contractor shall turn over any specialty tools and instructional manuals that come with the cipher locks that enable changing of code or resetting locks.
15.	STROBE LIGHT	Strobe light: Contractor shall install **(1)** ceiling mounted strobe warning lights [*Honeywell Ademco 710AM (Amber); or 12VDC, 350mA, Amber equal*]. Contractor must verify location with IRS personnel and refer to plan drawing. No exposed wiring will be permitted. Install the strobe lights onto the zone expander explained above, which requires an 12V relays (Honeywell 4202). The IRS does not want any sirens annunciating when the strobe lights start illuminating
16.	BLAST FILM	N/A
17.	AUDIO INTERCOM	N/A
18.	INVENTORY	After installation completion and acceptance by IRS POC, Contractor shall provide the IRS POC an inventory of all equipment installed. Contractor shall provide IRS POC with a spreadsheet (compatible with Microsoft Excel) inventory delineating all equipment installed that includes a description and product name, quantities and brief location where the equipment is located within the facility and redlined Drawings (showing any field installation update/deviation from original drawings).

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ATTACHMENT 4

SPECIFIC REQUIREMENTS FOR SECTION 3.6.4 - PHASE II – 11TH FLOOR

Task No.	Name of Item	Description of Scope of Work
Access Control System (ACS)		
1.	**CARD READER** (See drawing - and various door locations.)	**Description:** Secure the services of an IDENTIV/HIRSCH certified, approved, licensed and bonded Contractor to install new SMART card readers and access control hardware with IDENTIV access control Technology, control panels, firmware, card readers, etc. in order to be in compliance with HSPD-12, FICAM, and NIST. **ACS Requirements:** A. Installation of the **Access-Control/IDENTIV equipment** shall be performed by Identiv certified technicians having installation configuration laptop with the Latest Velocity version access control software to complete SNIB3 setup and IP programming; this is a company provided laptop not connected to IRS domain. **[Note: contractor must use their own installation laptop, government will not provide laptop**]. Contractor shall install /terminate all Equipment per Identiv specification. B. All individuals involved in on site Identiv panel installation must have successfully completed Identiv Digi track training. C. **Prior to Installation the Contractor shall participate in a preconstruction site review meeting with NAC and security personnel.** D. Indentiv manufacturer's warranty is 5 years for readers and 2 years for all other components. **Prior to Installation:** E. For coordination with NAC, the contractor must provide at least a 14-days' notice before proceeding with the reader installation. F. IDENTIV/HIRSCH certified technician must schedule and participate in a **pre-installation meeting** (approximately 1.5 hours) with the NAC to ensure compliance of equipment and Identiv specifications. (Equipment information must be available). G. Submit the serial numbers and MAC addresses for the new panels to the NAC to update the DGDD as soon as the equipment is delivered. *They must be added to the IT inclusion list before a panel is brought online; otherwise the port will be immediately disabled which will add unnecessary time and effort in troubleshooting.* H. When ordering Hirsch/Indentiv product the contractor must specify in the order to the manufacturer that the product is to be configure for the IRS use. This is to ensure compatibility with IRS system. **Installation:**

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I. Contractor shall install new card readers, control panels, firmware, and associated accessories as needed to make sure all card readers are fully functional and compatible with the latest PIVII (i.e., SMART) card to be also used as an access card.
J. **Refer to drawings for Card Reader/panel locations. Location questions should be review with local security specialist POC.**
K. Connect All Panel access device wiring connections as per DGDD [door group design document], which will be provided by NAC during installation.
L. The contractor shall participate in field testing with IRS NAC to make sure all card readers, panels and associated accessories are installed properly, and the building is ready to load to IRS Enterprise Network Server.

Contractor shall:

1. Furnish and install a total of **6** card readers listed below at approximately mounting height of 44 inches from ground. Demolish existing 6 card readers.

Identiv Utrust TS Government Reader [Sourced from Identiv]

A. **N/A - 8032ABTFGZY** for mullion in limited wall spaces areas.
B. **4 - 8132ABTFGZY** [or **8132ABPFGZY** for building exterior] prox regular wall mount (most used).
C. **2 - 8232ABTFGZY** Keypad/prox in at two factors 'Limited' areas (i.e. MDF, IDF, Security Rooms and mail Rooms).

2. Install, configure, and test **6** IDENTIV **Model No. DTLM3** (Miniature Embedded Line Module 3 – one needed for each card reader).

3. Install **5** Door Strikes [*HES 1600 series, or HES 1006K; or approved equal*]. FAIL SECURE

Minimum Specifications: *ANSI/BHMA A156.31, Grade 2; UL 1034 burglary-resistant listed; UL 294 listed; Tamper-resistant; Static strength 1,500 lbs, Dynamic strength 70 ft-lbs; Endurance 1 million cycles; Field selectable fail secure/fail safe; Dual voltage 12/24 VDC/VAC.*

[EACH DOOR WILL REQUIRED A DOOR STRIKE **OR** MAGLOCK…. STRIKE ON REGULAR DOORS OR MAGLOCK ON CI PERIMETER DOORS WITH CYPHER LOCKS]

4. Install **2** Door Magnetic Locks, *1200lb Minimum 12/24-Dual Volt;* FAIL SAFE *[SDC 1570 series; or Securitron M62/68*]. In addition, install a PUSH TO EXIT manual release that results in direct interruption of power to the lock (per NFPA 101 – 7.2.1.6.2) for each door with Magnetic locks.

5. Contractor shall install **(7)** door contacts; UL 634 Level 2 High Security Listed (**MAGNASPHERE RECESSED: HSS-L2C / SURFACE-MOUNT: HSS-L2S/D** OR UL 634 Level 2 equal) to the access control card reader module located in the ceiling above each door that has a card reader. Note:

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these card reader modules shall be wired back to the access control panel/controller. No exposed wiring will be permitted.

6. Install **6** Request-to-Exit (REX) sensors/devices [*Bosch Model DS160/DS161PIR; or approved equal*]. Minimum Specifications: UL294 Certification; Programmable fail-safe or fail-secure modes; 12 VAC or VDC to 30 VAC or VDC; Two Form C relay contacts (Adjustable from 0.5 sec to 64 sec) each rated 1 A at 30 VAC or VDC for resistive loads; 8 mA nominal standby current.

7. Contractor shall install, configure, and test the following IDENTIV equipment to the ePAC server system:

Install, configure, and test **1** IDENTIV Digi*Trac **Model No. MX8N3** (8 doors, 115 VAC) **Controller w/Enclosure**. MX controllers include the SNIB 3 (Secure Network Interface Assembly). NOTE: Each panel shall have their own IP Address issued by IRS IT.

A. Install, configure, and test an IDENTIV/HIRSCH Model No. **MEB/CB128** (128,000 User Code & Buffer Expansion Board) for EACH MX Control Panel above.
B. Install, configure, and test an IDENTIV/HIRSCH Model No. **AEB8** (8 Alarm Input Expansion Board) for EACH MX Control Panel above.
C. Install, configure, and test an IDENTIV/HIRSCH Model No. **RREB** (8 Relay Expansion Board) for EACH MX Control Panel above.
D. Install, configure, and test an IDENTIV/HIRSCH Model No. **MEB/BE** (Memory Expansion Board – Buffer Expansion) for EACH MX Control Panel above.
E. Install, configure, and test an IDENTIV/HIRSCH Model No. **MELM3**(Miniature Embedded Line Module 3) for EACH MX Control Panel above.
F. Install, configure, and test an IDENTIV/HIRSCH Model No. **SNIB3** (most current version) for EACH MX Control Panel above.

NOTE: EACH DOOR CONTROL PANEL MUST HAVE THE FOLLOWING EXPANSION BOARD:

- **1- MEB/CB128**
- **1- AEB8**
- **1- RREB**
- **1- MEB/BE**
- **1- SNIB 3 (most current version)**
- **1- CCM (most current version)**
- **1- MELM3 at door contact**

8. Special Installation Instruction: Wiring Information:

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A. Provide, Install and test all new wiring: PAIGE 743107 cable is recommended for MELM/contact/REX/Field Device.

B. PAIGE 454939AWH or 18AWG equal cable for readers.

C. Power supply to Door Lock: PAIGE 454641AXX

D. Altronix to lock. Install 2 MOV resistors at lock.

E. Non-Reader RS485 specifions: Belden 82842 or Belden 89842 [exterior/underground, any distance over 500 ft.]

F. All new video, reader and alarm wiring and attached connectors will be tested as an assembled unit for signal loss/strength [resistance and capacitance and db.] after installation prior to connection in compliance with Identiv specifications. The contractor shall provide written report of pertinent test results [volts/ dba/ ohms etc.] to IRS Security Specialist upon test completion. All new signal wiring connections [end of line resistors excluded] shall be labeled at each end and final numbering /termination points shall be recorded on connection diagram and separate data sheet and forwarded to IRS Security Specialist and point of contact. A copy of wiring diagram shall also be left in each control cabinet/field device.

G. In the event that splices are unavoidable all interior splices must be approved by IRS project manager and shall be soldered and shall use adhesive lined heat shrink wire connectors.

H. Fire/emergency designated egress doors shall have Fire/emergency egress request to exit door sensors, contacts or other door hardware as required by applicable code dedicated to emergency egress operation. These devices shall be isolated and separate from any Access control system egress sensing hardware and operate per applicable Codes. Under no circumstance shall activation of a Fire or emergency signal be controlled by or routed through Access Control system. •
Fire/emergency system functional interface testing [maglock door unlocks] shall be performed same day for occupied spaces and no later than beginning of next business day for all other affected spaces with new readers/panels

I. LINE SUPERVISION MODULES
Required for All Monitored Devices. Digitally Processed, Analog Inputs
2 Styles
1. DTLM - Screw Terminals
2. MELM - Flying Leads

3 Input - Alarm, RQE, Tamper

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		IRS standard is MELM 3 at all devices ***9.*** Install power supply kits w/battery for each **Controller and door lock power** [*Altronix* MAXIMAL33D for 16 Output Access Power Controllers and/or Altronix eFLOW 6NA8 *for 8 Outputs Power Supply w/ 12V, 12AH Battery Pack.* **10.** Provide and install cable/wiring/hardware as needed to/from government furnished PC/server to/from card readers, etc. All cable/wiring/hardware shall be plenum rated and in compliance with manufacturer's recommendations. **11.** Test all new PIVII card readers before releasing to IRS. The Contractor shall make sure that control panels and the card readers are capable of matching and reading badge IDs from the new PIVII, **PAC [Corp 1000]** cards. **12. All Identiv panels will be supplied w/ new 12v 7ah backup battery.** **13. Provide one DTMXSP spare parts kit and** **14. Provide one FICAM ENROLLMENT KIT USB-FICAM** **15.** Contractor shall also participate in **post completion final checkout 'go live' meeting**' testing all system attributes of connected hardware.
2.		**N/A**
FIRE-RATED PLYWOOD FOR DOOR CONTROL & BURGLAR PANEL		
3.	PLYWOOD	Plywood: Prior to Burglar Alarm control panel & Door Control panel installation contractor shall purchase 3/4 inch "fire-rated" plywood measuring approximately 4 feet x 8 feet. Contactor shall fasten plywood to wall prior to installation of all access card control panels, transformers and uninterruptible power supply equipment, shelving, etc. in support of all items described in this work statement. All physical security related items shall be installed on a separate fire rated plywood and not to be shared with any other equipment.
Intrusion Detection System (IDS)		
4.	INTRUSION PANEL	N/A
5.	DURESS BUTTON	N/A
6.	MOTION DETECTOR	N/A
7.	GLASS BREAK DETECTOR	N/A

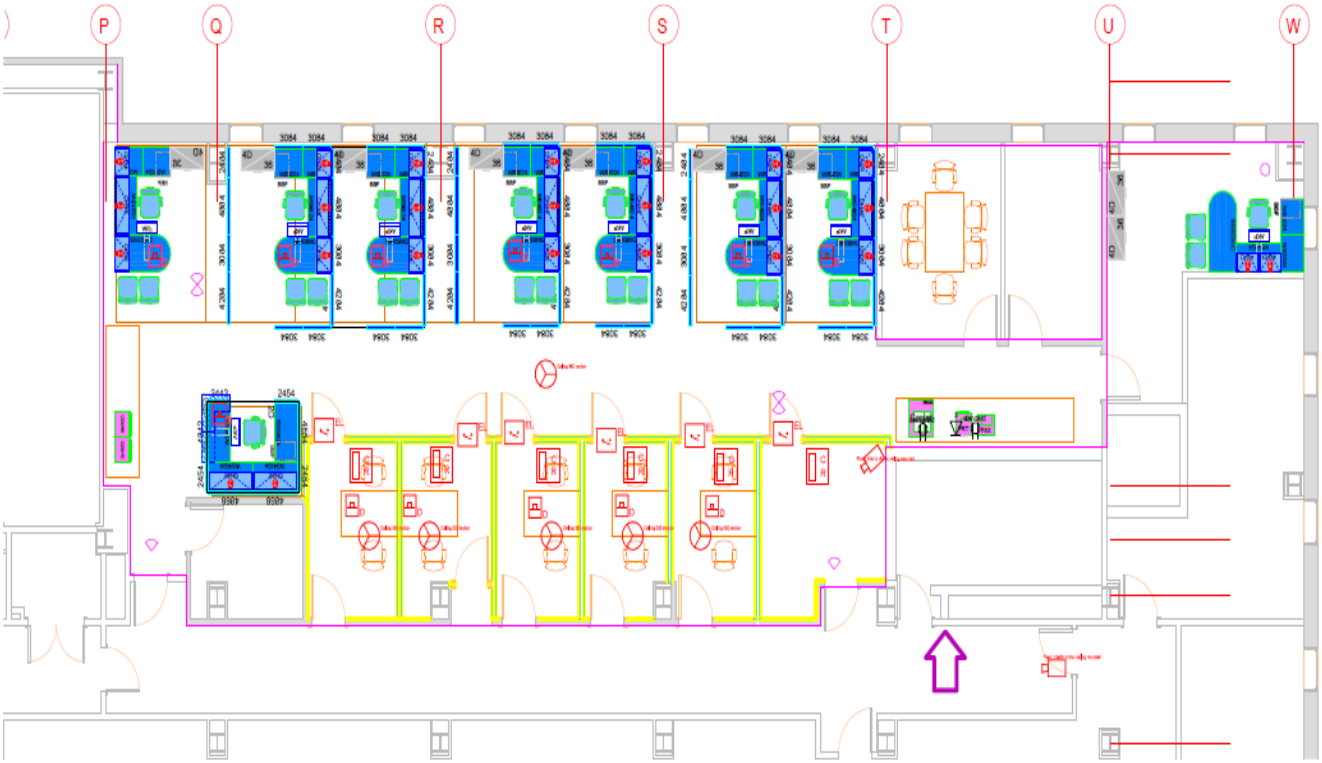
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8.	DOOR CONTACTS.	N/A
VIDEO SURVEILLANCE SYSTEM (VSS)		
9.	CAMERAS	N/A
10.	CAMERA POWER SUPPLY/ SWITCH	N/A
11.	MONITOR	N/A
12.	Network Video Recorder (NVR)	N/A
13.	VIDEO CABLE	N/A
MISCELLANEOUS		
14.	CIPHER LOCK	N/A
15.	STROBE LIGHT	N/A
16.	BLAST FILM	N/A
17.	AUDIO INTERCOM	N/A
18.	INVENTORY	After installation completion and acceptance by IRS POC , Contractor shall provide the IRS POC an inventory of all equipment installed within two business days of completion and acceptance. Contractor shall provide IRS POC with a spreadsheet (compatible with Microsoft Excel) inventory delineating all equipment installed that includes a description and product name, quantities and brief location where the equipment is located within the facility and redlined Drawings (showing any field installation update/deviation from original drawings).

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EXHIBIT 1

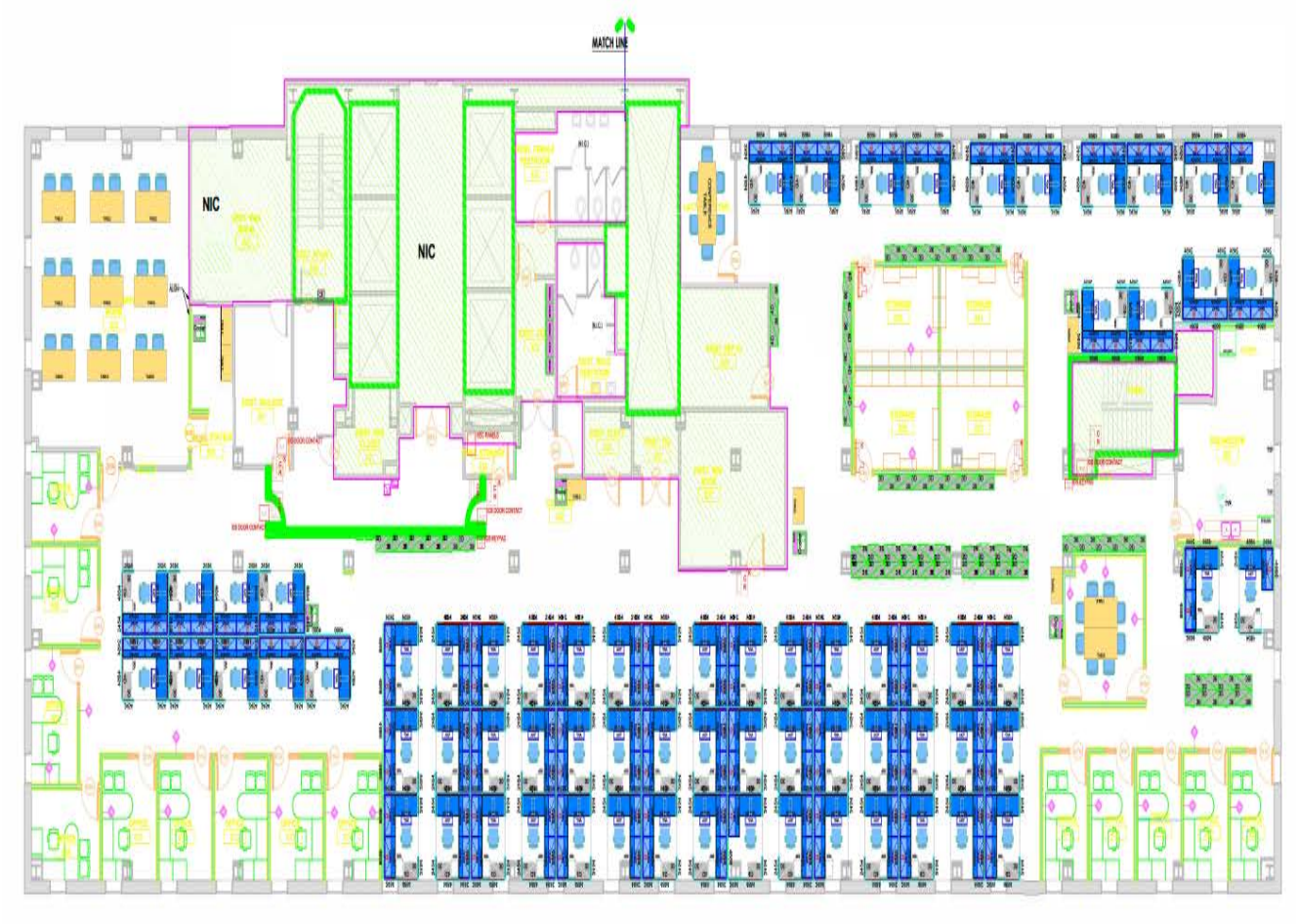
FLOOR PLAN – PHASE I - 3RD FLOOR



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EXHIBIT 2

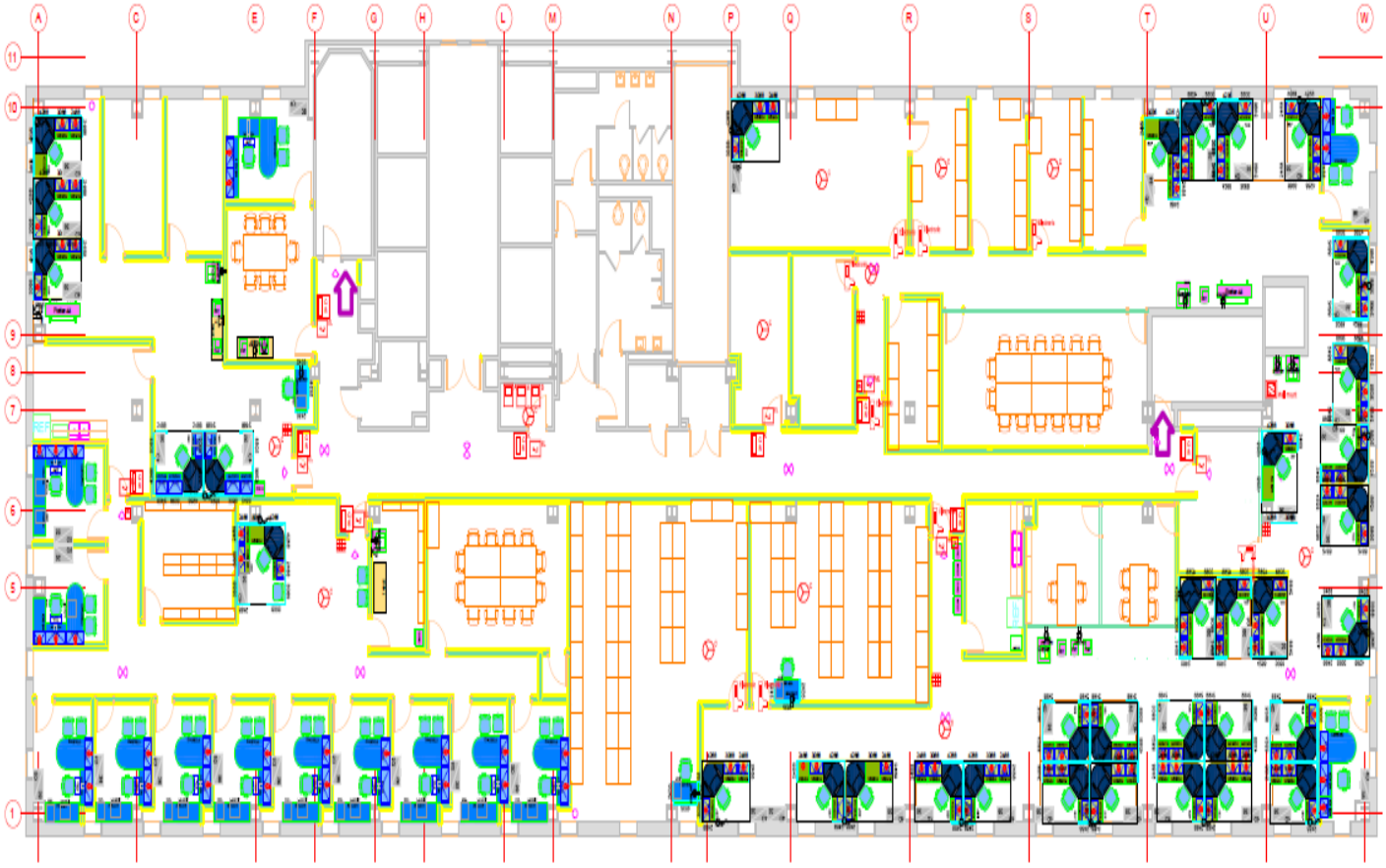
FLOOR PLAN – PHASE I - 8TH FLOOR



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EXHIBIT 3

FLOOR PLAN – PHASE II - 7TH FLOOR



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EXHIBIT 4

FLOOR PLAN – PHASE II - 11TH FLOOR



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