

1. PHYSICAL ACCESS CONTROL SYSTEM (PACS)

The PACS system shall include, but not be limited to card readers, keypads, biometrics, electronic locks, and electromagnetic locks and strikes. PACS devices shall be used for the purpose of controlling access and monitoring building entrances, sensitive areas, and alarm conditions from an access control perspective. This includes maintaining control over defined areas such as building perimeter and interior areas. **Include request to exits (REX's) at all doors with card readers.** PACS shall have the capability to be able to be fully integrated with other security subsystems using direct hardwire or computer interface and shall be manufactured by Lenel OnGuard, or approved equal. Space will be provided in the Telephone/Data Room for card reader equipment and all security panels. No wireless components are permitted. The following card readers shall be used.

1. Single Authentication (PIV Card):

PIV Class
R40EKNR
SRD Model: R40E
Model: 920NHRNEK0001 T
13.56 MHZ only

Locations:

Front Door 101
Rear Exterior Door 113B
Rear Exterior Door 118
Hallway Door 112
Hallway Door 136
Lab Door 157
Pyxis Room 129
Biohazard Room 117

2. Dual Authentication:

PIV Class
RPK40EKNR
SRD Model: RPK40-H
Model: 921PHRNEK0002G
13.56 MHZ only

Location:

Telephone/Data Room 145

Appendix C3: Low Voltage System Requirements

The card access system shall be HSPD-12/FIPS 201 compliant. The system shall be able to operate and process PIV/HID cards set to a 200 bit string-pattern by the manufacturer. The issue code variable, vendor code, and credential number of the PIV card shall be processed upon the granting of area access. The software shall be programmed to permit the deletion of expired/lost/stolen, etc. PIV cards, with all associated data from the system. The Physical Access Control System (PACS) shall comply with the requirements of Department of Veterans Affairs, Office of Operations, Security, and Preparedness, HSPD-12 Program Management Office, Physical Access Control System (PACS) Requirements, Version – 1.0, December 22, 2010. Contractor must have prior approval from VA IT, through the Contracting Officer's Representative, to connect to the VA data network. Utilize Physical Security Design Manual for Life Safety Protected Facilities (VA) 2015 for location requirements of devices.

Cables for the PACS system hardware shall be Genesis Series Plenum, Access Control CBLE 1MRL UNJKT, Model #32951099, or approved equal. Cables installed for connection of hardware shall be installed to the Telephone/Data Room and connected to a control panel manufactured by Lenel, or approved equal. A CAT 6 cable shall be installed from the Lenel control panel and connected to VA provided equipment.

PACS card readers shall have battery backup to prevent loss of operation in the event of normal power failure and before emergency generator comes on line.

Contractor shall provide the following information to the VA:

- Operating bit pattern used by card access system.
- List of specific location of all batteries in system, size and type of battery.
- Specific location of all system components
- Schematic diagram of system and components
- Specify software that is used by card access system.

Dual authentication card reader shall be installed on door to Telephone/Data Room. Single authentication card readers shall be installed on all exterior doors, and interior doors indicated on floor plan to be provided by government.

2. SECURITY SURVIELANCE CAMERA TV SYSTEM (SSTV):

The SSTV system design, installation, and use shall support the monitoring of building entrances, interior areas, restricted areas, alarm conditions, and shall support the visual identification and surveillance of persons, vehicles, assets, incidents, exterior areas, such as site and roadway access points, parking lots, and building perimeter. No wireless components are permitted. The SSTV system shall be monitored via the VA network system. SSTV system shall be Bosch or approved equivalent. All cameras must be compatible with Lenel OnGuard. All cameras shall be IP type, pan, tilt, zoom, with the exception of camera in Telephone/Data Room. Furnish and install one (1) each high definition, IP type fixed camera, with security globe, and provisions to connect to VA Network, in Telephone/Data room. Camera shall be positioned to monitor entrance

Appendix C3: Low Voltage System Requirements

to room. Provide twelve (12) each pan, tilt, zoom cameras and one (1) each fixed camera. Contractor shall provide an NVR with a minimum of ninety (30) days high definition storage recording time. The contractor shall install a cable from the NVR in a VA designated location to the Telephone/Data Room for connection to VA equipment. The Contractor shall be responsible for installing the cabling from the cameras back to the Telephone/Data Room where cables will be connected to VA equipment. Lessor shall test each cable and provide permanent identification markers on cable in Telephone/Data Room and at camera location. Cameras will be controlled and monitored through the VA network system. Utilize Physical Security Design Manual for Life Safety Protected Facilities (VA) Jan 2015, [HTTP://WWW.CFM.VA.GOV/TIL/PHYSICALSECURITY/DMPHYSECLSP.PDF](http://www.cfm.va.gov/til/physicalsecurity/dmpHYSECLSP.PDF), (or most updated version) for proposed camera location requirements. [HTTP://WWW.CFM.VA.GOV/TIL/PHYSICALSECURITY/DMPHYSECLSP.PDF](http://www.cfm.va.gov/til/physicalsecurity/dmpHYSECLSP.PDF) (or most updated version) and Security and Law Enforcement VA Handbook 0730-4, March 29, 2013. [HTTP://WWW.VA.GOV/VAPUBS/VIEWPUBLICATION.ASP?PUB_ID=700&FTYPE=2](http://www.va.gov/vapubs/viewpublication.asp?pub_id=700&ftype=2).

Power shall be provided to camera locations and connected to camera, in lieu of a centralized power supply.

Provide a 42 inch wall mounted security camera system monitor in Reception 126 and a 32" monitor at the Security Desk for observation of cameras. Monitor shall be installed on an articulated arm with vertical and horizontal adjustment.

3. **INTRUSION DETECTION SYSTEM (IDS):**

Maintenance and monitoring of an Intrusion Detection System shall be accomplished by the Lessor through a contractual arrangement with a commercial security firm to be approved by the Contracting Officer.

The intrusion detection alarm system shall meet UL 639 Intrusion Detection Standard.

The intrusion detection alarm system shall detect entry into the building and broadcast a "local alarm" of sufficient volume to cause an illegal entrant to abandon a burglary attempt. Security of the front glass storefront will be monitored via motion detectors not glass break modules. The building security alarm system shall have the following essential features:

- 1) An internal, automatic charging DC standby power supply and a primary AC power operation. The Lessor is responsible for providing the 120 volt circuits for this equipment. Power supply voltage shall be in the range of 13.2 – 13.7 volts.
- 2) A central monitoring panel, with activation/deactivation code shall be installed adjacent to the main entry door and adjacent to the employee entrance.
- 3) An automatic reset capability following intrusion detection.

Appendix C3: Low Voltage System Requirements

- 4) A local alarm level of 80dB (min.) to 90dB (max) up to 100 feet from the protected building.
- 5) An integral capability for the attachment of wiring for remote alarm and intrusion indication equipment.
- 6) A Bosch alarm panel with integration to the Lenel Access Control.
- 7) No wireless components are permitted.

Installation Notes:

- a. A locally sounding alarm "shall not" be installed in a room that is close to any room where a loud alarm would have an injurious effect on occupants.
- b. Intrusion detector alarms shall be remoted to a commercial security alarm-monitoring firm, a local police department, or a security office charged with building security with 24-hour coverage at the discretion of the Contracting Officer. Lessor is responsible for the cost of the security alarm monitoring. The remoted alarms will be in addition to the locally broadcast alarms in the protected areas.
- c. A motion detector shall be installed in the Telephone/Data room. Motion detectors shall be installed for full building coverage. All interior corridors and main lobby shall be covered by motion detectors. **Rooms with windows at ground level shall have motion detectors. No glass break modules are permitted.** Provide door contacts on the Telephone/Data room and all exterior doors of the building.
- d. Provide a Cat 6 cable from the Intrusion Detection System to be connected to the PACS server located in the Telephone/Data room.

NOTE: Intrusion detection equipment that operates on the principle of narrow-beam interception, microwave, or photoelectric eyes is **UNACCEPTABLE**.

4. DURESS ALARM (LYNX) SYSTEM

The VA will utilize computer keyboards to initiate duress alarms. A panic button will be installed in each of the Group Rooms 113 and 114. No wireless components are permitted. The contractor shall provide the following for local security personnel monitoring of duress alarms and for remote monitoring of duress alarms.

1. For local security personnel monitoring of duress alarms, Contractor shall provide:
 - a. An Integrator, manufactured by Lynx, between the VA network and HDMI monitor at Security personnel location only. Lynx Integrator requires VA network connection and power
 - b. 32" HDMI monitor at Reception for backup, no Lynx Integrator required. HDMI monitor requires connection to VA network and power.

Appendix C3: Low Voltage System Requirements

- c. When a duress alarm is initiated, via a VA computer keyboard, the alarm shall be indicated on the monitor at Reception.
2. For remote monitoring of duress alarms, contractor shall provide the following:
 - a. Net Output Box, manufactured by Lynx, which is connected to VA network and ties to remote monitoring company. Lynx Net Output Box shall have sixteen (16) relays.
 - b. Lynx Net Output Box requires VA network connection, power, and connection to remote monitoring company. Building owner shall provide connection means to remote monitoring company and shall be responsible for payment of remote monitoring fees. When a duress alarm is initiated, the alarm shall be transmitted to the remote monitoring company, which will in turn notify those parties to be established.

5. **NURSE CALL SYSTEM**

A nurse call system shall be installed to provide coverage the following patient toilets:

Restroom 103
Restroom 104
Restroom 119
Restroom 134
Restroom 135
Restroom 155

A. **Emergency Station:**

1. A pull cord emergency station shall be provided in each patient toilet room.
2. Each emergency station shall be mounted on a double-gang back box, minimum. A trim plate constructed of stainless steel shall be provided to cover the back box opening and frame the cover plate.
3. Emergency stations shall be provided with:
 - a. A ten-pound test pull cord and pendant which shall be connected to a positive action on/off switch at the emergency station. The cord with pendant shall terminate 150 mm (6 inches) AFF. Pull cord shall be manufactured of vinyl with a smooth surface. Rope style or woven twine style is not acceptable.
 - b. A minimum of one pound pull to activate the switch.
 - c. A reset/cancel function on the face plate of the emergency station.
 - d. "EMERGENCY NURSE CALL" or similar approved wording stamped or permanently affixed on the face plate. The emergency wording letters shall be a minimum of 3.2 mm (1/8 inch) high.

Appendix C3: Low Voltage System Requirements

- e. A red lamp which shall flash at a rate of one second on and one second off upon initiation of a call from the emergency station. The lamp shall continue to flash until the station is reset.

B. **Corridor Door Dome Lights:**

1. Provide light covers that are translucent and shall not deform, discolor or craze from heat or use of normal hospital cleaning agents.
2. Corridor door dome lights shall be provided for toilet rooms and shall contain duplex red lamps that shall illuminate and flash, until the call is reset, when a call is placed in the associated toilet room.
3. Each dome light shall be mounted on a dual-gang back box, minimum. A trim plate constructed of stainless steel shall be provided to cover the back box opening and frame the cover plate. Dome lights shall be mounted so that they are clearly visible from anywhere in the corridor in which the dome light is located.

- C. **Nurse Call Master Station:** Provide one (1) each master station in the Main Reception Area 126 and one (1) master station at the Security desk in Waiting 101. Calls shall be cancelable at the calling station only. The nurse call master station shall have a back lit window for each room that indicates room number. When an emergency call is placed from a toilet room the corresponding backlit window shall light and an audible signal shall sound at the master station. The master station shall not have the ability to cancel emergency calls. Master station desk top console housing may be plastic.