### VIDEO SURVEILLANCE SPECIFICATIONS

### PART 1 - GENERAL

### 1.1 RELATED DOCUMENTS

A. Section "Electronic Access" for interface security access system devices.

# 1.2 SUMMARY

- A. The Video Surveillance System (VSS) shall comprise color IP surveillance cameras and cable to network patch panels with patches to assigned switches and ports. New cameras shall be connected locally on an Ethernet switch provided by PSU/ENCS.
- B. The security contractor/vendor shall be responsible for providing an all-inclusive price for equipment and labor.
- C. Interior ceiling mounted cameras approved on ceilings at or below 12ft. Ceiling mounted cameras above 12ft require approval from the Office of Physical Security. Exterior cameras shall be surface/pendant mounted except when mounted under cover or on a soffit.
- D. Provide and install patch cords, which shall be orange in color, plugs should include no-snag hoods, and proper length cabling should be used (no excess length looped in wire management). Cat 6 cabling to camera shall be pink in color and labeled.
- E. Only PSU authorized security integrators shall be employed to provide security equipment and complete final terminations and programming. A list of pre-approved vendors can be found on the Office of Physical Security Website at <a href="https://www.police.psu.edu/security-vendors">https://www.police.psu.edu/security-vendors</a>.

# **PART 2 - VMS GENERAL**

## 2.1 SUMMARY

- A. Section includes an expansion of the existing IP-Video Surveillance System (VSS).
- B. The security integrator is responsible for providing, installing, and terminating all cameras and providing necessary licenses. The security contractor shall also configure cameras to operate on the network and record on Office of Office of Physical Security NVRs with standard configuration.

## **PART 3 – PRODUCTS**

3.1 NETWORK VIDEO RECORDER (NVR)

A. Network Video Recorder purchases on projects shall be determined by the Office of Physical Security. Contact <a href="mailto:physicalsectech@psu.edu">physicalsectech@psu.edu</a> to confirm project requirements.

## 3.2 CAMERAS

- A. Current acceptable camera models shall be obtained from the Office of Physical Security website at the time of camera purchase. <a href="https://www.police.psu.edu/design-standards">https://www.police.psu.edu/design-standards</a>
- B. Clear dome lens only. No tinted lenses.
- C. Confirm the intended target with the Office of Physical Security before installation. Field conditions must be verified, and each camera, location, mount, and lens must be measured, calculated, and approved before installation.
- D. All cameras shall be powered via Ethernet (PoE) and shall not draw more than 25 watts. The Office of Physical Security must approve exceptions.
- E. Each camera shall be provided with a camera license for operation on the American Dynamics VideoEdge NVR and Victor centralized license platform.

### 3.3 ELEVATOR CAMERAS

- A. The contractor shall provide an elevator camera, and coordinate installation with a University-approved elevator sub-contractor.
- B. Security Contractor shall be responsible for the following:
  - 1. Furnish camera for each elevator car. Current models can be found on the Office of Physical Security Website. <a href="https://www.police.psu.edu/design-standards">https://www.police.psu.edu/design-standards</a>
  - 2. Furnish and install Cat 6 cable from the basement floor telecom room to the elevator room.
  - 3. Connect car cameras via Drake Cat5 traveling cable.
- C. Elevator sub-contractor shall be responsible for the following:
  - 1. Install the camera in the elevator car. See elevator standards for elevator car camera installation.
- D. Acquire needed inspections and permits with the L&I elevator division (including elevator permits and variances for cameras)

## **PART 4 – EXECUTION**

## 4.1 EXAMINATION

- A. Examine pathway elements intended for cables. Check raceways and other elements for compliance with space allocations, installation tolerance, hazards to camera installation, and other conditions affecting the installation.
- B. Determine necessary Security Network infrastructure is in place for security appliances.
- C. Request network switch and port /IP assignment through the Office of Physical Security website prior to installation. https://www.police.psu.edu/report-issue-or-make-request.

## 4.2 WIRING

A. Wiring Method: Install cables in conduit where exposed.

## 4.3 CAMERA NSTALLATION

- A. Exterior wall-mounted camera heights shall be between 8 and 12 feet unless approved by the Office of Physical Security.
- B. Interior camera heights shall be installed at 8 feet where possible and at no more than 12 feet unless approved by the Office of Physical Security.
- C. Cameras for exterior doors shall be tasked as follows: All cameras shall be installed to view approaches to doors to capture persons approaching from as long a distance as possible.
- D. Cameras shall not be installed in vestibules unless approved by the Office of Physical Security.
- E. All cameras that are installed but not yet operational will need to be covered. This will indicate that the camera is out of service.
  - 1. A complete camera installation must have the following requirements met:
  - 2. The camera was brought online with the correct IP address provided by the Office of Physical Security.
  - 3. Camera views added within proper facility site folder within the Victor Application.
  - 4. Camera snapshot views are sent to the Office of Physical Security for approval for final commissioning.
- F. Existing Cameras that are removed during a project and requested to be re-used will require approval from the Office of Physical Security.

- G; Cameras will be programmed using naming conventions obtained from the Office of Physical Security.
- H. Security vendors obtain camera recording parameters from the Office of Physical Security.
- I. Security vendors to populate camera locations on access control system floor plans using the PSU map templates.

# 4.4 FIELD QUALITY CONTROL

- A. Manufacturer's Field Service: A factory-trained service technician is required to inspect, test, and adjust components, assemblies, and equipment installations, including making final connections and programming.
- B. Warranty: Security integrators shall provide a minimum one-year warranty from the time of project completion. This does not include manufacturer warranties.
- C. Tests and Inspections: Verify with the Office of Physical Security that camera views are acceptable by sending camera view images to <a href="mailto:physicalsectech@psu.edu">physicalsectech@psu.edu</a>.

### 4.5 CLEANING

- A. Clean installed items using methods and materials recommended in writing by manufacturer.
- B. Immediately prior to project completion, clean video-surveillance-system components, including camera-housing windows, and lenses.