

Attachment E. Physical Security Infrastructure Standards

- I. Introduction - This section establishes standards and requirements for the installation, upgrade, and integration of **Physical Security Infrastructure Systems** within the cloud-based **Motorola Solutions / Avigilon Unity ecosystem** designed for HRSD facilities. This ecosystem includes, but is not limited to:

- Video management (surveillance) systems (Avigilon Unity / Alta VMS)
- Access control systems (Avigilon Unity Access / Alta Access)
- Visitor management systems (Alta Visitor)
- Perimeter security technologies and supporting infrastructure

HRSD Project Manager will coordinate with HRSD Emergency and Security Manager to confirm that preliminary and final facility designs are in alignment with current HRSD security and IT policies. This section applies to all vertical facilities, including, but not limited to, pump stations, offices, laboratories, recharge locations, and buildings within treatment plants.

II. Physical Security Infrastructure Requirements

- A. System Standardization - All new installations and upgrades shall utilize the **Motorola Solutions / Avigilon Unity / Avigilon Alta ecosystem** unless otherwise approved by HRSD Emergency and Security Manager. All controllers, readers, and edge devices must be Motorola/Avigilon-approved.

- B. Network & System Integration Requirements - All physical security systems must be coordinated with HRSD IT and integrated in a manner that ensures:

- 1) Proper network connectivity and bandwidth planning
- 2) Logical segmentation of security systems from other enterprise functions
- 3) Reliable communication between field devices, servers, and cloud services
- 4) Compatibility with HRSD network infrastructure standards

- C. Video Management System (VMS) Requirements – FIRMs shall coordinate logical camera grouping when establishing locations within and around a facility. Camera locations shall be coordinated with HRSD Operations for process monitoring and with HRSD Emergency and Security Manager for physical security monitoring. Cameras shall be Avigilon-certified devices (fixed, multi-sensor, PTZ, fisheye).
- D. Door Lock Requirements – FIRMs shall coordinate design of doors, gates, and access control for each facility with HRSD Emergency and Security Manager and appropriate HRSD Operations staff. All door and gate lock styles shall be designed with consideration of HRSD's access control systems, as appropriate.
- E. Access Control System Requirements – Where access control devices are required, devices shall integrate with HRSD's Avigilon Unity Access / Alta Access system and HRSD's Active Directory for identity management.
- F. Installation & Commissioning - All installations shall:
 - 1) Follow manufacturer specifications and HRSD standards
 - 2) Be performed by approved vendors/integrators
 - 3) Include system testing, validation, and acceptance procedures
 - 4) Provide complete documentation, including as-built drawings, device inventories, and configuration details

End of Section