

13 SPECIAL EQUIPMENT - V13000

13.1 GENERAL

13.1.1 Description

This standard identifies minimum requirements that shall be met for all special equipment in the design and construction of elements for Arlington County Building Design Standards.

13.1.2 Related Arlington County Standards, Specification and Policies

including, but not limited to, those listed in Table 13.1.2

Table 13.1.2
Related Arlington County Standards, Specification and Policies
Arlington County Policy for Integrated Facility Sustainability - August 19, 2008 ("Green Building" Policy)

13.1.3 Applicable Standards and Specifications including

including, but not limited to, those listed in Table 13.1.3

Table 13.1.3
Applicable Standards and Specifications
American Society for Testing and Materials (ASTM)
ICC International Building Code/2012
US Green Building Council’s Leadership in Energy and Environmental Design (LEED) green building rating system

13.1.4 Quality Assurance

13.1.4.1 Reserved

13.1.5 Submittals

13.1.5.1 The Registered Design Professional shall identify, in the specification sections, manufacturer’s products, descriptions, performance criteria, materials, components, fabrication, source quality control, finish, and accessory materials pertaining to all special equipment work and construction.

13.2 DESIGN

All access control systems shall be reviewed and approved by Inspection Services Division (ISD) prior to implementation.

13.2.1 Security Access and Surveillance

13.2.1.1 All Security system solutions shall be turn-key, fully functioning systems at the time the County takes possession to include all programming (card activation, time zone, video analytic, etc.) desired by end user.

13.2.1.2 All security systems shall be considered critical systems and be equipped with battery backup, uninterruptible power supply, and connected to emergency power if available. Refer to Building Design – Vertical Infrastructure, Chapter 16 - Generator & Transfer Switches, pg. 16-71 for additional information.

- 13.2.1.3 The Security Access (SA) system shall monitor and control access throughout the facility. The SA system shall also monitor and provide access control to the facility. The system shall include the following as indicated in Table 13.2.1.3.

Table 13.2.1.3 Security Access and Surveillance
Card readers to control access at specified facility entrances.
Card readers to control access to selected lobby areas, offices, equipment rooms, etc.
Appropriate additional hardware at each door controlled by SA system (request to exit devices, flush-mount door contacts, appropriate locking hardware, etc.) to ensure proper operation of SA system. . Fail secure locking hardware (electric strikes or electric latch retraction) Preferred Manufacturer(s): Von Duprin; HES or Adams Rite.
A SA System Database in the facility to maintain records of all movements through controlled areas.
A SA system Database in the facility to maintain records of all faulty alarms.
Controllers with the ability to be connected to SA system server and workstations via LAN.
The SA System is Andover Controls to be completely compatible with Andover Continuum, No Substitutions
HID Corporate 1000 format proximity cards.

13.2.2 Closed Circuit Television

The Closed Circuit Television (CCTV) system shall provide surveillance of facility entrances and any interior areas deemed appropriate by the -Department of Technology Services (DTS) The system shall include the following as indicated in Table 13.2.2

Table 13.2.2 Closed Circuit Television (CCTV) system
Provide Fixed Dome Cameras for both interior and exterior locations with appropriate enclosures/mounting for each (To include thermostatically controlled heater, window defroster/defogger, sun shroud, viewing window wiper and insulation blanket along with any accessories which may be required for a complete environmental camera system where necessary.) The camera system shall be able to transmit/receive video and data over a single coaxial cable. Cameras shall be specified upon performance criteria to accomplish the desired task specified for each camera installed. Minimum of 480 lines resolution and low lux day/night capability required. Preferred Manufacturer(s) include: Panasonic, Pelco and Bosch.
A digital video recorder shall be provided for unattended recording, accessing and control of cameras on the system. Supplied accessories include a keyboard, mouse, and rack mounting adaptors. Software shall allow for monitoring over a TCP/IP (100 BaseT) network and shall be provided with the Digital Video Recorder. DVR should support

13.2.3 INTRUSION DETECTION (ID) SYSTEM

<p>Table 13.2.2 Closed Circuit Television (CCTV) system</p>
<p>basic functions such as recording on motion, motion detection sensitivity adjustment, and full control of PTZ cameras from any workstation over the network.</p>

13.2.3 Intrusion Detection (ID) System

- 13.2.3.1 The Intrusion Detection System (ID) shall provide additional surveillance for after-hours monitoring of the facility entrances (especially any that are not on the Security Access System) and areas deemed appropriate by end-user. The ID System shall be monitored by the County’s contracted monitoring company. The system shall include the following as indicated in Table 13.2.3.1

<p>Table 13.2.3.1 Intrusion Detection (ID) system</p>
<p>Intrusion detection panel with dual-line dialer listed that allows for communication with central monitoring.</p>
<p>MINIMUM of one command keypad to be located at appropriate employee entrance(s) as indicated by end-user.</p>
<p>Door contacts and motion sensors (minimum dual technology) and/or glass break sensors to protect all facility entrances and interior areas as deemed appropriate.</p>

13.3 PRODUCTS

13.3.1 Security Access and Surveillance

Brand Name(s) for Building Element in accordance with Table 13.3.1 The Specification shall identify a minimum of three (3) Brand Names (manufactures) that comply with the Owner’s Project Requirements used for the Invitation to Bid, unless the Brand Name Category listed as No Substitutions.

<p>Table 13.3.1 Brand Name(s) for Security Access and Surveillance</p>		
Building Element	Brand Name(s) Brand Name Model	Brand Name - Category
Network/Digital Video Recorders	Pelco DX series with DS control point Client software	No Substitutions
Intrusion Detection (ID) system	Bosch Radionics Radionics 9000 series with compatible accessories	No Substitutions