

# 28 10 00 – Electronic Access Control & Intrusion Detection

## DIVISION 28 – Electronic Safety and Security



### STATEMENT OF PURPOSE & BACKGROUND

- Scope:
  - Furnishing and installing electronic access control systems and intrusion detection systems, which integrate with the District’s existing systems.
- Statement of goals:
  - Provide consistent, high quality systems that:
    - Meet District standards for equipment;
    - Provide high performance;
    - Interface with District safety & security management systems.
- Revision history of section:
  - 12/27/2017 (date of adoption)
  - 02/27/2019
  - 03/26/2021
  - 10/28/2022

### SELECTION AND APPLICATION CRITERIA

Application	Selection	Notes
Access Control System	Lenel OnGuard Pro System	
Security Intrusion System	Bosch Security	

- Part 1 General
  - Access Control:
    - All card access devices shall have mapping done in the Lenel OnGuard System.
    - SPPS will provide clean background files as needed.
    - Licensing – SPPS currently uses the Lenel OnGuard Pro System. SPPS will provide any needed reader with licensing.
    - Qualifications – All bidders shall be a current Lenel Authorized Reseller/VAR and have a dedicated 24/7 service department located within 25 miles of SPPS District headquarters. Bidders shall provide proof of this requirement.
    - Composite Access Control Cable – Include one composite cable from panel to each card reader door.
    - Verify locations of card access with SPPS Project Manager.
  - Intrusion Detection:
    - Communication to monitoring is currently via network.
- Typical Elementary School to receive:
  - Bosch Arming/Disarming Stations:
    - Locations: Inside Main Entry, plus a secondary station inside the Building Engineer’s Entry
    - If multiple security zones, each zone will require a station.
    - Third Party entries (e.g. Parks and Recreation)
  - Card Access:

- Main Entry
    - Loading Dock/Delivery Doors
    - Playground Entry Doors
    - Secondary staff entries adjacent to parking lots
    - Other specific interior doors per Owner direction
  - Door Intercom Entry System:
    - Main Entry
    - Discovery Club Entry (at specific sites)
    - Third Party entries (e.g. Parks and Recreation)
  - Intrusion Devices – Glass Breaks:
    - All ground/grade level windows, including courtyards
  - Intrusion Devices – Door Contacts:
    - All ground/grade level doors
    - Roof access doors/hatches
    - All interior doors leading into open air spaces/courtyards
  - Intrusion Devices – Motion Sensors:
    - At strategic locations only; primarily place at intersections of large circulation paths.
    - Minimize use of motion sensors.
- Typical Middle School/High School to receive:
  - Bosch Arming/Disarming Stations:
    - Locations: Main Entry Vestibule, plus a secondary station inside the Building Engineer's Entry
    - If multiple security zones, each zone will require a station.
    - Third Party entries (e.g. Parks and Recreation)
  - Card Access:
    - Main Entry
    - Loading Dock/Delivery Doors
    - Playground Entry Doors
    - Secondary staff entries adjacent to parking lots
    - Main Data Frames (main server rooms)
    - Other specific interior doors per Owner direction
  - Door Intercom Entry System:
    - Main Entry at Middle Schools and High Schools
    - May be some exceptions depending on program or location in city
  - Intrusion Devices – Glass Breaks:
    - All ground/grade level windows, including courtyards
  - Intrusion Devices – Door Contacts:
    - All ground/grade level doors
    - Roof access doors/hatches
    - All interior doors leading into open air spaces/courtyards
  - Intrusion Devices – Motion Sensors
    - At strategic locations only; primarily place at intersections of large circulation paths.
    - Minimize use of motion sensors.
- Part 2 Products
  - Acceptable Manufacturer(s):
- Equipment:
  - Access Control System:
    - Lenel OnGuard Pro System. Verify all noted products and series model numbers.

- An interface with the Lenel panel at each handicap operator-equipped door with a card reader is required.
  - Intercom/Card Reader/Handicap operator paddle all route through the Lenel panel for activation in the disarmed state.
  - Input Module: LNL – 1100 Series 2
  - Output Module: LNL – 1200 Series 2
  - Dual Reader Interface: LNL – 1320 Series 2
  - Dual Reader Controller: LNL – 2220 Series
  - Star Multiplexer: LNL – Series 8000
  - Power Supplies:
    - Altronix AL600ULACMCB
    - Altronix DSAL600ULACMCB
  - Interface Relays: BEA MC-25 (10MC25)
  - Card Reader:
    - HID Proc Pro iClass SE RP40
    - iClass Prox Card: 13.56 Mhz Contactless
- Security Intrusion System: BOSCH Security
- Wiring: all wiring related to security devices shall be green
  - Control Panels:
    - D9412-GV4 Control Panel (246 point panel)
    - D9512-GV4 Control Panel (599 point panel)
  - Integration Module:
    - Lenel SWG-1450 – include one per Bosch panel.
  - Expansion Boards:
    - B930 ATM Style Alphanumeric Keypad (SD12)
    - B208 Input Module
    - B308 Output Module
    - B426 Ethernet Board
    - D8125 Addressable Expansion Module
    - D9127U Popit
  - Glass Breaks: Honeywell FG-730
  - Power Supplies:
    - AL600ULM
    - AL102ULM
  - Door Contacts:
    - GE Sentrol 1078 Series (Steel Door)
    - GE 2500 Series Aluminum Housing
    - Bosch DS-160 REX
  - Points:
    - Each field device to receive its own Bosch 9127U Popit point (an addressable module).
    - Door contacts for banks of doors or double doors may be on one point.
  - Interface Relays: BEA MC-25 (10MC25)
  - Motion Detectors:
    - Bosch, Tri-Technology sensors:
      - DS9370 Ceiling Mount
      - ISC-BDL2-W12 Wall Mount
  - Intercoms:
    - 2N Helios IP Force Single Button
    - 2N Helios IP Force Two Button
    - 2N Helios IP Force Four Button

- Batteries:
    - Ultra Tech 12vdv 7ah
    - YUASA 12vdc 12ah
- Part 3 Execution
  - Per Consultant and / or manufacturer specification.
  - Upon completion of card reader installation, the contractor must contact the SPPS Office of Security and Emergency Management (SEM) to finalize the programming of the access levels for building staff members to ensure proper access is provided.
  - Updates in the Lenel system to floor plan maps and device locations are required during construction projects (depending on phasing) and at final completion.
  - Contractor shall include the Lenel integration model per Bosch panel to integrate with the building's existing system.
  - Programming Lenel OnGuard System:
    - Security zone naming system shall be as follows:

CAFM/Building #                      Room #                      Device Abbreviation    Zone #

*Examples:*

<u>1110</u>	<u>1302</u>	<u>GB</u>	<u>11</u>
Harding HS	Room #	Glass Break	Zone 11
<u>2040</u>	<u>1200C</u>	<u>DC</u>	<u>42</u>
Battle Creek Elem	Room #	Door Contact	Zone 42
<u>3140</u>	<u>1240</u>	<u>MD</u>	<u>13</u>
Hidden River MS	Room #	Motion Detector	Zone 13

End of Section