

GENERAL NOTES

- A. INTERCOM: CONNECT NEW INTERCOM DEVICES TO EXISTING TELECOR SYSTEM. INTERCOM WIRE SHALL BE SHIELDED. CONTRACTOR TO PROVIDE EQUIPMENT WIRE AND SYSTEM PROGRAMING NEEDED. PROVIDE 4 EXTRA SHIELDED INTERCOM WIRES FOR FUTURE USE. PROVIDE ENOUGH SLACK TO REACH FURTHEST WALL.
- B. DATA: CONNECT ALL NEW DATA DROPS TO EXISTING MDF LOCATED IN MAIN BUILDING. PROVIDE 4 EXTRA CAT 6 CABLES FOR FUTURE USE. PROVIDE ENOUGH SLACK TO REACH FARTHEST WALL.
- C. SECURITY ALARM: CONNECT NEW SECURITY ALARM DEVICES TO EXISTING DSC SECURITY ALARM SYSTEM LOCATED IN MAIN BUILDING. ALL WIRING SHALL BE NON-SHIELDED. CONTRACTOR TO PROVIDE ALL EQUIPMENT, WIRE AND SYSTEM PROGRAMMING NEEDED.
- D. FIRE ALARM: CONNECT NEW FIRE ALARM DEVICES TO EXISTING SILENT KNIGHT FIRE ALARM SYSTEM LOCATED IN MAIN BUILDING. CONTRACTOR TO PROVIDE ALL EQUIPMENT, WIRE AND SYSTEM PROGRAMMING NEEDED.
- E. CLOCK: CLOCK SHALL BE STAND ALONE 110V CLOCK AMERICAN TIME MODEL E56BAAV304

KEYED NOTES

- ① CONTRACTOR TO PROVIDE AND INSTALL (4) 2 INCH METAL CONDUITS TO MAIN BUILDING TO CONNECT TO EXISTING MDF, INTERCOM HEAD END, FACP AND SECURITY ALARM MAIN PANEL. CONDUITS SHALL RUN ABOVE CANOPY AS INDICATED. CONTRACTOR TO PROPERLY SEAL ALL BUILDING PENETRATIONS.
- ② APPROXIMATE LOCATION OF EXISTING MDF.
- ③ APPROXIMATE LOCATION OF EXISTING IDF.
- ④ APPROXIMATE LOCATION OF EXISTING FACP, INTERCOM HEAD END UNIT AND SECURITY ALARM MAIN CONTROL UNIT.

AGP
the Abila Griffin
Partnership L.L.C.

201 N. BROADWAY
SUITE 210
MOORE, OK. 73160
405.735.3477
AGP@theAGP.net
www.theAGP.net

CEDAR CREEK INC.

CIVIL

KFC ENGINEERING

STRUCTURAL

SALAS O'BRIEN

MECHANICAL / ELECTRICAL

NY

drawn by

NY

checked by

OCTOBER 2022

date

revisions

MOORE PUBLIC SCHOOLS
BOARD OF EDUCATION
MOORE, OKLAHOMA



NEW ADDITION
KELLEY ELEMENTARY
SCHOOL

sheet no:

T100

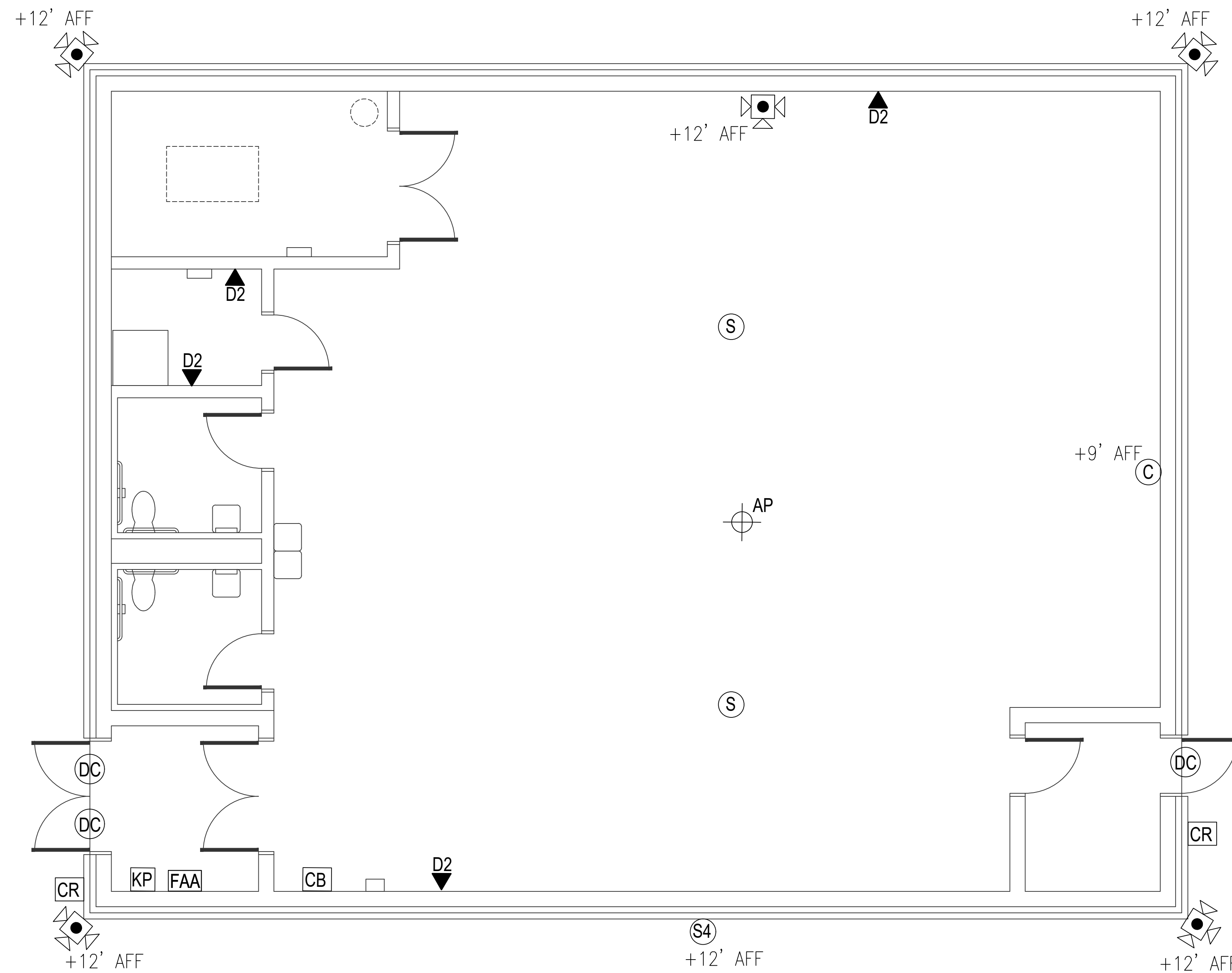


2600 Van Buren St., Suite 2635
Norman, Oklahoma 73072
P: 405.364.9926 | CA#:7058 Expiration Date: 6/30/2023

Salas O'Brien Project No.: 2022-04164-00

OWNERSHIP USE OF DOCUMENTS:

AGP EXPRESSLY RESERVES ITS
COPYRIGHT AND OTHER PROPERTY
RIGHTS OF ALL PLANS AND DRAWINGS
DESIGNED AND/OR PRODUCED. PLANS
AND DRAWINGS ARE NOT TO BE
REPRODUCED IN ANY FORM OR MANNER
WITHOUT THE EXPRESSED WRITTEN
CONSENT OF AGP.



SAFEROOM NOTE

PER ICC 500-2014, 309.1:

PENETRATIONS THROUGH THE STORM SHELTER ENVELOPE THAT ARE LARGER THAN:
1. 3.5 SQUARE INCHES IN AREA FOR RECTANGULAR OPENINGS, OR
2. 2 1/16" IN DIAMETER

SHALL BE CONSIDERED AN OPENING AND SHALL BE PROVIDED WITH AN OPENING PROTECTIVE DEVICE (SHROUD). REFERENCE STRUCTURAL DRAWINGS FOR A SAMPLE SHROUD DETAIL. THIS INCLUDES PENETRATIONS FOR BUNDLES OF CONDUIT.

FIRE ALARM

A. FIRE ALARM SYSTEM IS A PERFORMANCE BASED PER SPECIFICATIONS 28 46 00. CONTRACTOR TO REFERENCE SPECIFICATIONS FOR ADDITIONAL INFORMATION.

B. A LICENSED FIRE ALARM PLANNING SUPERINTENDENT CERTIFIED TO A MINIMUM LEVEL 3, IN THE SUBFIELD OF FIRE ALARM SYSTEMS THROUGH THE NATIONAL INSTITUTE FOR CERTIFICATION IN ENGINEERING TECHNOLOGIES (NICET), SHALL PROVIDE PLANS AND CALCULATIONS FOR A MANUAL AND AUTOMATIC FIRE DETECTION AND ALARM SYSTEM TO COMPLY WITH THE BUILDING SPACE LAYOUT, BUILDING OCCUPANCY, CURRENT NFPA 72, LOCAL AND STATE CODE REQUIREMENTS, AND THE FIRE ALARM AND DETECTION SYSTEM SPECIFICATIONS.

C. PROJECT SCOPE IS EXPANSION OF AN EXISTING SYSTEM.

NY

drawn by

NY

checked by

OCTOBER 2022

date

revisions

MOORE PUBLIC SCHOOLS
BOARD OF EDUCATION
MOORE, OKLAHOMA



NEW ADDITION
KELLEY ELEMENTARY
SCHOOL

sheet no:

T201



2600 Van Buren St., Suite 2635
Norman, Oklahoma 73072

P: 405.364.9926 | CA#:7058 Expiration Date: 6/30/2023

Salas O'Brien Project No.: 2022-04164-00

OWNERSHIP USE OF DOCUMENTS:

AGP EXPRESSLY RESERVES ITS COPYRIGHT AND OTHER PROPERTY RIGHTS OF ALL PLANS AND DRAWINGS DESIGNED AND/OR PRODUCED. PLANS AND DRAWINGS ARE NOT TO BE REPRODUCED IN ANY FORM OR MANNER WITHOUT THE EXPRESSED WRITTEN CONSENT OF AGP.

1 TECHNOLOGY PLAN
1/4" = 1'-0"



SYSTEMS SPECIFICATIONS

Intercom 12" Analog Clock shall be hard wired and may not use battery power for its primary power source. Clock must be compatible with existing clock system.

Stand-alone wall clock shall be American Time E56BAQD304BP

Stand-alone dual face hallway clock shall be American Time E93BAQD204BP

An 110v electric clock receptacle shall be installed at each clock location for future devices.

1.03 Systems Installation
All devices shall be mounted according to the manufactures specifications.

1.04 Quality Assurance
1.04.01 Qualifications
Install all components as directed by Manufacturer's installation guidelines.

1.05 Delivery, Storage, and Protection
Contractor shall ensure that materials delivery to work area shall be coordinated with construction site manager responsible for materials distribution to all trades.

1.06 Scheduling
Contractor shall provide a detailed construction schedule with hard dates for completion of roughing in cables, terminations and testing once scheduling sequence has been determined to the Owner's Project Manager.

1.07 Warranty
Contractor shall provide a 1 year parts and labor warranty against defective workmanship and/or system component failure.

Part 3 - Execution
3.01 Field Quality Control
Contractor shall make available all ceiling and termination work for inspection by Manufacturer's representative or owner's representative.

3.02 Adjusting
No additional work outside of the contract scope of work shall be completed without the approval of the Owner or Owner's representative.

3.03 Protection
It is the responsibility of the Contractor to ensure equipment is protected from dust and water during the project with appropriate materials.

3.04 Schedules
Coordinate work with Owner's project manager and follow scheduling sequence as established by Owner's project manager.

1.04 Submittals
1.04.01 Prior to installation
Show compete map of system design for approval by Owner.

Part 1 - General
1.01 Section Includes
Clock System Completion Check List

1.02 Completion Check List
All Clocks have been tested for proper operation and synchronization.

Security System Specifications
Part 1 - General
2.01 Manufacturers
Security System Manufacturer shall be DSC. (No Substitutions)

Peripheral device Manufacturers shall be according to equipment list. (No Substitutions)

Security Systems Equipment
Security alarm Graphic Touchscreen keypad with Prox Reader shall be DMP Model # 7872 (No Substitutions)

Security alarm 5 Amp power supply shall be DMP Model # 505-12-G. (No Substitutions)
Zone expansion module shall be DMP 714-16
Relay Output Module shall be DMP 860.

1.01 Systems Installation
All alarm junctions and or splices shall be soldered and insulated.

All circuits and wiring shall be labeled at all terminating ends.

All devices shall be properly adjusted and tested prior to job completion.

Each expansion cabinets shall have two non-shielded 16 gauge 4 conductor cables ran from the main control to the expansion cabinet.

Protective grommets shall be installed on all conduits to protect wire.

3.03 Protection
It is the responsibility of the Contractor to ensure equipment is protected from dust and water during the project with appropriate materials.

3.04 Schedules
Coordinate work with Owner's project manager and follow scheduling sequence as established by Owner's project manager.

1.02 Products Installed but not Supplied Under This Section
All conduit and EMT required for Fire cabling pathway in/out of closets and in/out of wall cavities at the work area.

1.03 Quality Assurance
1.03.01 Qualifications
Install all components as directed by Manufacturer's installation guidelines.

1.04 Submittals
1.04.01 Prior to installation
Show compete map of system design for approval by Owner.

Part 1 - General
1.01 Section Includes
Clock System Completion Check List

1.02 Completion Check List
All Clocks have been tested for proper operation and synchronization.

Part 1 - General
1.01 Section Includes
Clock System Completion Check List
1.02 Completion Check List
All Clocks have been tested for proper operation and synchronization.

All products shall be new and un-used in original packaging.
1.03.02 Bidder/Installer Qualifications
Bidding contractor shall be a local licensed Commercial Burglar Alarm Company with licensed Commercial Burglar Alarm technician(s) on staff.

1.05 Project Conditions
1.05.01 Environmental Requirements
Contractor shall ensure that any pollutants produced during the Work are disposed off according to local, state or national regulations.

1.06 Sequencing
Contractor shall coordinate with Owner's project manager on sequencing of various trades and construction teams for the lifecycle of the project.

1.07 Scheduling
Contractor shall provide a detailed construction schedule with hard dates for completion of roughing in cables, terminations and testing once scheduling sequence has been determined to the Owner's Project Manager.

1.08 Warranty
Contractor shall provide a 1 year parts and labor warranty against defective workmanship and/or system component failure.

2.02 Source Quality Control
Materials shall be purchased from Distributors authorized by system Manufacturers to sell new and unused components.

3.01 Field Quality Control
Contractor shall make available all ceiling and termination work for inspection by Manufacturer's representative or owner's representative.

3.02 Adjusting
No additional work outside of the contract scope of work shall be completed without the approval of the Owner or Owner's representative.

3.03 Cleaning
Contractor shall sweep and mop the floors of all equipment rooms or connection point closets prior to turnover to the Owner.

3.04 Protection
It is the responsibility of the Contractor to ensure equipment is protected from dust and water during the project with appropriate materials.

3.05 Schedules
Coordinate work with Owner's project manager and follow scheduling sequence as established by Owner's project manager.

1.02 Submittals
1.03.01 Prior to installation
Show compete map of system design for approval by Owner.

Security System Installation Completion Check List
Part 1 - General
1.01 Section Includes
Security System Completion Check List

1.02 Completion Check List
A map of the entire system showing device numbers and wire routes has been left inside the main control panel and a copy has been given to Jack Phillips with MPS.

Access Control Strikes and locks shall be (No Substitutions unless approved by Moore Public Schools)
RCI 0163X32D 1/2 inch Rim

All zones have been tested to verify proper reporting to the monitoring station.

1.03 Quality Assurance
1.03.01 Qualifications
Install all components as directed by Manufacturer's installation guidelines.

All motion detectors have been sealed to prevent air and insects from entering.

1.09 References
NFPA-70 National Electrical Code 2008 edition

1.10 Definitions
AWG - American Wire Gauge
BICSI - Building Industry Consulting Service International

Access Control System Specifications
Access Control Equipment
Part 1 - Manufacture

Access Control Manufacturer shall be Keyscan. (No Substitutions)

1.01 Access Control Equipment Description
Access Control System Manufacture shall be Keyscan (No Substitutions)

Reader Control Panels shall be (No Substitutions)
Keyscan CA 250 = 2 Door

Each Reader Control Panel shall be equipped with (2) 16VAC 40VA Transformer

1.02 Submittals
1.03.01 Prior to installation
Show compete map of system design for approval by Owner.

Elementary School Card Readers shall be (No Substitutions)

HID 13.56 MHz SINGLE GANG BACK BOX MOUNT READ ONLY CONTACTLESS SMART CARD READER

HID 13.56 MHz MULLION MOUNT READ ONLY CONTACTLESS SMART CARD READER

HID 13.56 MHz SINGLE GANG BACK BOX MOUNT READ ONLY C/W KEYPAD CONTACTLESS SMART CARD READER

Jr High & High School Card Readers shall be (No Substitutions)

HID 13.56 MHz SINGLE GANG BACK BOX MOUNT READ ONLY CONTACTLESS SMART CARD READER

HID 13.56 MHz MULLION MOUNT READ ONLY CONTACTLESS SMART CARD READER

Elementary, Jr High & High School Access Control Cards shall be (No Substitutions)

HID SEOS Part # 5006PGGMN 48-bit HID Global Corporate 1000 format.

Access Control Strikes and locks shall be (No Substitutions unless approved by Moore Public Schools)

Where storm doors are installed, install compatible power motor and power supply to activate door hardware unless installed by door contractor.

Access Control System Completion Check List
4.02 Completion Check List
A map of the entire system showing device numbers and wire routes has been left inside the main controller panel

Bosch DS160 or Honeywell IS310
Door Contacts shall be GE Model # 1076D-M Double Pole Double Throw

2.01 Systems Installation
All junctions and or splices shall be soldered and insulated.

All devices shall be mounted in accordance to the manufactures specifications.

All card readers shall be labeled with their corresponding reader number.

2.02 Quality Assurance
2.02.1 Qualifications
Install all components as directed by Manufacturer's installation guidelines.

3.01 Bidder/Installer Qualifications
Bidding contractor shall be a local licensed Access Control Company with licensed Access Control technician(s) on staff.

Bidding contractor shall have at least one year experience installing Keyscan Access Control Systems.

3.01.1 Submittals
3.01.2 Prior to installation
Show compete map of system design for approval by Owner.

3.01.3 Prior to final acceptance
Provide a soft CAD copy As-Built showing layout of Controller Panel, Card Readers, Power Supplies and all mounted equipment upon Substantial Completion.

3.02 Quality Assurance
3.02.1 Qualifications
Install all components as directed by Manufacturer's installation guidelines.

All products shall bear the mark of UL or ETL for performance level.

3.03 Protection
It is the responsibility of the Contractor to ensure equipment is protected from dust and water during the project with appropriate materials.

3.04 Schedules
Coordinate work with Owner's project manager and follow scheduling sequence as established by Owner's project manager.

1.04 Submittals
1.04.01 Prior to installation
Show compete map of system design for approval by Owner.

Part 4 - General
4.01 Section Includes
Access Control System Completion Check List

4.02 Completion Check List
A map of the entire system showing device numbers and wire routes has been left inside the main controller panel

All system programming has been checked and is correct.

All card readers are labeled with reader number and have been tested to verify proper operation.

All user card and key fobs have been programmed into system and tested to verify proper operation.

All egress motion detectors have been adjusted for proper sensitivity and have been walk tested.

All controllers are labeled on the outside with module numbers.

Access Control System Completion Check List
4.02 Completion Check List
A map of the entire system showing device numbers and wire routes has been left inside the main controller panel

AGP
the Abla Griffin Partnership L.L.C.
201 N. BROADWAY SUITE 210
MOORE, OK. 73160
405.735.3477
AGP@theAGP.net
www.theAGP.net

CEDAR CREEK INC.
CIVIL
KFC ENGINEERING
STRUCTURAL
SALAS O'BRIEN
MECHANICAL / ELECTRICAL

NY
drawn by
NY
checked by
OCTOBER 2022
date
revisions

MOORE PUBLIC SCHOOLS
BOARD OF EDUCATION
MOORE, OKLAHOMA
MOORE Public Schools
LEARNING FOR LIFE

NEW ADDITION
KELLEY ELEMENTARY SCHOOL
sheet no:
T302
OWNERSHIP USE OF DOCUMENTS:
AGP EXPRESSLY RESERVES ITS COPYRIGHT AND OTHER PROPERTY RIGHTS OF ALL PLANS AND DRAWINGS DESIGNED AND/OR PRODUCED. PLANS AND DRAWINGS ARE NOT TO BE REPRODUCED IN ANY FORM OR MANNER WITHOUT THE EXPRESSED WRITTEN CONSENT OF AGP.

SALAS O'BRIEN
2600 Van Buren St., Suite 2635
Norman, Oklahoma 73072
P: 405.364.9926 | CA#:7058 Expiration Date: 6/30/2023
Salas O'Brien Project No.: 2022-04164-00

SYSTEMS SPECIFICATIONS

4.03 Products Installed but not Supplied Under This Section

- All conduit and EMT required for Fire cabling pathway in/out of closets and in/out of wall cavities at the work or Conduit for pathways shall have no more than two 90 degree sweeps and no continuous section over 100'.
- All core holes and poke through devices in the floor for the installation of cabling.
- All core holes and EMT sleeves between floors for the routing of cabling.
- Back boxes for the mounting of Devices.
- Drag line or pull string at the back boxes fished through EMT or conduit to the other end for installing Cabling.

4.04 References

- NFPA-70 National Electrical Code 2008 edition
- NFPA-72 National Fire Alarm Code
- UL 1666 - Standard for Safety of Flame Propagation Height
- NFPA 262 - Flame Travel and Smoke of Wires and Cables
- Local Authority Having Jurisdiction

4.05 Definitions

AWG - American Wire Gauge

BICSI - Building Industry Consulting Service International

EIA - Electronics Industry Alliance

FCC - Federal Communications Commission

NECA - National Electrical Contractors Association

NFPA - National Fire Protection Agency

UL - Underwriters Laboratory

4.06 Delivery, Storage, and Protection

- Contractor shall ensure that materials delivery to work area shall be coordinated with construction site manager responsible for materials distribution to all trades.
- Contractor is responsible for all materials, tools and vehicles left on the job site.
- Follow Manufacturer's recommendations for handling of materials.

4.07 Project Conditions

4.07.1 Environmental Requirements

- Contractor shall ensure that any pollutants produced during the Work are disposed off according to local, state or national regulations. Follow the most stringent guidelines.
- It is preferred that the Contractor recycle any used or un-used components during the course of the construction project.

4.07.2 Field Measurements

- Contractor shall coordinate with electrical engineer on project that the main electrical service ground has a resistance to earth of less than 5 ohms.
- Contractor shall ensure that all field testers have been calibrated from the Manufacturer within 1 year.
- All field test results will be documented and submitted to Moore Public Schools, Technology Department.

4.08 Sequencing

- Contractor shall coordinate with Owner's project manager on sequencing of various trades and construction teams for the lifecycle of the project.

4.09 Scheduling

- Contractor shall provide a detailed construction schedule with hard dates for completion of roughing in cables, terminations and testing once scheduling sequence has been determined to the Owner's Project Manager.

4.10 Warranty

- Contractor shall provide a 1 year parts and labor warranty against defective workmanship and/or system component failure. (1 year warranty shall begin at job completion)

4.11 Source Quality Control

- Materials shall be purchased from Distributors authorized by system Manufacturers to sell new and unused components.

Part 5 -

5.01 Field Quality Control

- Contractor shall make available all ceiling and termination work for inspection by Manufacturer's representative or owner's representative.
- Contractor shall replace all defective components.

5.02 Adjusting

- No additional work outside of the contract scope of work shall be completed without the approval of the Owner or Owner's representative.

5.03 Cleaning

- Contractor shall sweep and mop the floors of all equipment rooms or connection point closets prior to turnover to the Owner.

5.04 Protection

- It is the responsibility of the Contractor to ensure equipment is protected from dust and water during the project with appropriate materials.
- Remove all protective covers and protective materials from equipment prior to turnover to Owner.

5.05 Schedules

- Coordinate work with Owner's project manager and follow scheduling sequence as established by Owner's project manager.
- It is recommended that the Contractor schedule closely with any other systems contractor to ensure turnover date is met.
- Contractor bidding will work closely with the electrical and or masonry contractors to ensure conduit, back boxes, door frame access conduit, etc. are in the proper locations and accessible.

End of Section

Fire System Specifications

Part 1 - General

2.01 Manufacturers

- Fire System Manufacturer shall be Silent Knight. (No Substitutions)
- Notification appliance Manufacturer shall be System Sensor. (No Substitutions)
- Device Manufacturer shall be as specified in equipment description. (No Substitutions)
- Cable Manufacturer shall be Genesis. (Or Equivalent)

1.03 Fire Systems Equipment Description

- Fire alarm control shall be Silent Knight Model # 6820. (No Substitutions)
- Fire alarm distributed power module NAC Expansion shall be Silent Knight / Fire-Lite Model #'s SK-PS6 / FL-PS6 or SK-PS10 / FL-PS10. (No Substitutions)
- Fire alarm intelligent power supply shall be Silent Knight Model # 5895XL. (No Substitutions)
NOTE: The 5895XL NAC circuits will not sync with the main control panels NAC circuits. If new NAC circuit synchronization is required with existing NAC circuits, use the SK-PS6/FL-PS6 or SK-PS10/FL-PS10
- Fire alarm remote Annunciator shall be Silent Knight Model # 5860 (Grey) and surface mount trim ring 5860TG (Grey) shall be used if surface mounted. (No Substitutions)
- Fire Alarm signaling line circuit expander shall be Silent Knight Model # 5815XL. (No Substitutions)
- Fire alarm addressable manual pull station shall be Silent Knight Model # SD500-PSDA. (No Substitutions)
- CO Detector shall be System Sensor Model # CO1224T. (No Substitutions) An SD500-AIM shall be installed on each CO1224T and be accessible from the finished floor.
- Fire alarm addressable photoelectric smoke detector shall be Silent Knight Model # SD505-PHOTO. (No Substitutions)
- Fire alarm addressable heat detector shall be Silent Knight Model # SD505-HEAT. (No Substitutions)
- Fire alarm base for Silent Knight Model #'s SD505-PHOTO and SD505-HEAT shall be Silent Knight Model # SD505-6AB. (No Substitutions)
- Fire alarm addressable input module shall be Silent Knight Model # SD500-AIM. (No Substitutions)
- Fire alarm addressable relay module shall be a Silent Knight Model # SD500-ARM. (No Substitutions)
- Fire alarm SLC line isolator shall be Silent Knight Model # SD500-LIM. (No Substitutions)
- Fire alarm Horn / Strobe signaling device shall be System Sensor Model # P2WL. (Model PC2WL can be substituted if mounted on non-stainable ceiling tile. No other Substitutions)
- Fire alarm Strobe signaling device shall be System Sensor Model # SWL. (Model SCWL can be substituted if mounted on non-stainable ceiling tile. No other Substitutions)
- Fire alarm strobe synch module shall be System Sensor Model # MDL3. (Not needed on version 9 panels or newer (No Substitutions)
- Fire alarm Outdoor strobe signaling device shall be System Sensor Model # P2RK. (No Substitutions)
- Fire alarm Speaker / Strobe signaling device shall be System Sensor Model # SPSWL. (Model SPSCWL can be substituted if mounted on non-stainable ceiling tile. No other Substitutions)
- Fire alarm Speaker signaling device shall be System Sensor Model # SPWL. (No Substitutions)
- Fire alarm 50 watt Voice Evac system shall be as needed Silent Knight SKE-450 (Single Zone), SKE-450-ZN4 (4 Zone) or SKE-450-ZN6 (6 Zone). (No Substitutions)
- Fire alarm Dust detectors and Duct Detector Remote Test Stations shall be Silent Knight Model #'s SD505-DUCTR and SD505-DTS-K. (No Substitutions)

1.01 Systems Installation

- All fire alarm junctions and or splices shall be soldered and insulated.
- All Ceiling mounted devices shall be mounted on non-stainable ceiling tiles.
- All circuits and wiring shall be labeled at all terminating ends.
- All fire system wiring shall be RED in color and non-shielded.
- All devices shall be mounted according to the manufactures specifications.
- All devices shall be properly adjusted and tested prior to job completion.
- All fire pulls shall be dual action.
- All Initiating Devices shall be labeled with their corresponding module and point number. Smoke detector label shall be on smoke detector and smoke detector base and be clearly visible from the finished floor.
- All Each Initiating Device Circuits (IDC) shall have Line Isolator Modules installed at the SLC Head End.
- All Initiating Device Circuits (IDC) shall be wired Class B (NFPA Style B).
- All Initiating Device Circuits (IDC) shall be wired with minimum 18 AWG gauge red NON Shielded cable.
- All duct detectors shall be connected to fire system and shall have remote test stations installed accessible and visible from the finished floor. They shall be labeled with their corresponding module and point number.
- All duct detector ARM / AIM shall be installed adjacent to the remote test stations and accessible and visible from the finished floor. They shall be labeled with their corresponding module and point number. (ARMAIM should not be needed when using SD505-DUCTR duct det.)
- Each CO 1224T detectors shall have an SD500 AIM installed (No doubling). All CO1224T & SD500 AIM shall be labeled with their corresponding module and point number.
- All modules shall have their corresponding module number.
- All notification devices shall be wall mounted where possible. Where wire is exposed decorative wire molding shall be installed from the ceiling to the device. If ceiling mount devices are used they shall be mounted on a non-stainable ceiling tile
- All notification devices shall be labeled with their corresponding module, circuit number and device number. Label shall be on the base and be clearly visible from the finished floor. EOL Device shall be labeled as such.
- All horn / strobes and strobes shall be synchronized.
- All Notification Appliance Circuits (NAC) shall be wired Class B (NFPA Style Y).
- All Notification Appliance Circuits (NAC) shall be wired with minimum 16 AWG gauge red NON Shielded cable.
- Protective grommets shall be installed on all conduits to protect wire.
- All SBUS and SLC circuits shall be wired with red NON shielded cable.
- All wire shall be run in J hooks above ceiling with a minimum space of 4" from ceiling deck. All wire shall be in separate pathways 6" from other system wiring. No wire tes allowed. No wire shall be run between the red iron and roof deck.
- Main control panel shall have a CAT 6 cable ran between the main control and the phone company DMARC for monitoring purposes.
- All wire ran between building shall be in conduit and shall be non shielded direct burial cable. It shall be a minimum of 4 conductor 16 AWG copper.
- Installer shall have a commercial fire technician on the job site at all times during the installation.
- Installer shall supply the electrical and or masonry contractors with specially back boxes such as remote

annunciator recessed back boxes etc. and coordinate with them to ensure that all necessary conduits, back boxes, etc. are installed in the proper locations.

- Follow and adhere to installation practices specified by the applicable NFPA 72 standards.
- Follow and adhere to installation practices specified by NFPA-70 National Electric Code, Edition 2008.
- Follow and adhere to installation practices specified by the Manufacturers.

1.02 Products Installed but not Supplied Under This Section

- All conduit and EMT required for Fire cabling pathway in/out of closets and in/out of wall cavities at the work area. EMT or Conduit for pathways shall have no more than two 90 degree sweeps and no continuous section over 100'.
- All core holes and poke through devices in the floor for the installation of Fire cabling.
- All core holes and EMT sleeves between floors for the routing of Fire cabling.
- Back boxes for the mounting of Fire Devices.
- Drag line or pull string at the back boxes fished through EMT or conduit to the other end for installing Fire Cabling.

1.03 Quality Assurance

1.03.01 Qualifications

- Install all components as directed by Manufacturer's installation guidelines.
- All products shall bear the mark of UL or ETL for performance level.
- System installation shall meet all applicable Local/State codes and safety requirements where project is located.
- All products shall be new and un-used in original packaging.

1.03.02 Bidder/Installer Qualifications

- Bidding contractor shall be a local licensed Commercial Fire Alarm Company with licensed Commercial Fire Alarm technician(s) on staff.
- Bidding contractor shall have a minimum of one year experience installing Silent Knight Addressable fire panels.
- Bidding contractor shall have a minimum of 5 years experience installing commercial fire alarms.
- Bidding contractor shall be able to provide insurance at the request of the owner.
- Bidding contractor shall have a commercial fire technician on the job site at all times during the installation.

1.04 Sequencing

- Contractor shall coordinate with Owner's project manager on sequencing of various trades and construction teams for the lifecycle of the project.

1.05 Scheduling

- Contractor shall provide a detailed construction schedule with hard dates for completion of roughing in cables, terminations and testing once scheduling sequence has been determined to the Owner's Project Manager.

1.06 Warranty

- Contractor shall provide a 1 year parts and labor warranty against defective workmanship and/or system component failure. (1 year warranty shall begin at job completion)

Part 2 - Products

2.02 Source Quality Control

- Materials shall be purchased from Distributors authorized by system Manufacturers to sell new and unused components.

Part 3 -

3.01 Field Quality Control

- Contractor shall make available all ceiling and termination work for inspection by Manufacturer's representative or owner's representative.
- Contractor shall replace all defective components.

3.02 Adjusting

- No additional work outside of the contract scope of work shall be completed without the approval of the Owner or Owner's representative.

3.03 Protection

- It is the responsibility of the Contractor to ensure equipment is protected from dust and water during the project with appropriate materials.
- Remove all protective covers and protective materials from equipment prior to turnover to Owner.

End of Section

Fire System Installation Completion Check List

Part 1 - General

1.01 Section Includes

- Fire System Completion Check List

1.02 Completion Check List

- A map of the entire system showing device numbers and wire routes has been left inside the main control panel and a copy has been given to Rodney Cobb with MPS.
- All panel programming has been checked and is correct.
- Panel(s) has been tested for proper operation.
- All zones have been tested to verify proper description at keypad.
- All zones have been tested to verify proper reporting to the monitoring station.
- All points have been tested to verify proper description at the keypad.
- All horn/strobes and strobes have been tested for proper operation.

- All smoke detectors have been tested and dust covers removed.
- All devices have been tested for proper operation.
- All cabinets are labeled on the outside with module numbers and point numbers.
- All cabinets are labeled on the inside with module numbers by the corresponding module and point descriptions.
- The monitoring station has the correct account information such as call list, zone descriptions, etc.

End of Section

IP camera Specifications

**Moore Public Schools
IP camera Specifications**

IP CAMERA MANUFACTURE IS AVIGLON (NO SUBSTITUTIONS).

AVIGLON EQUIPMENT

INDOOR DOME SINGLE HEAD CAMERA REQUIRED EQUIPMENT LIST

4.0C-HSA-D1-IR
ACC7-ENT LICENSE - 1 per camera

INDOOR MULTI-HEAD 3 HEAD CAMERA REQUIRED EQUIPMENT LIST

9C-H4A-3MH-180 (3x3MP)
POE-INJ2-60W-NA Power Injector
ACC7-ENT LICENSE - 1 per camera
H4AMH-AD-CEIL1
H4AMH-DC-COVR1

INDOOR MULTI-HEAD 4 HEAD CAMERA REQUIRED EQUIPMENT LIST

12C-H4A-3MH-360 (4x3MP)
POE-INJ2-60W-NA Power Injector
ACC7-ENT LICENSE - 1 per camera
H4AMH-AD-CEIL1
H4AMH-DC-COVR1

OUTDOOR DOME SINGLE HEAD CAMERA REQUIRED EQUIPMENT LIST

6.0C-HSA-DO1-IR
ACC7-ENT LICENSE - 1 per camera

OUTDOOR MULTI-HEAD 3 HEAD CAMERA CORNER MOUNT REQUIRED EQUIPMENT LIST

15C-H4A-3MH-270 (3x3MP)
POE-INJ2-60W-NA Power Injector
ACC7-ENT LICENSE - 1 per camera
H4AMH-AD-PEND1
H4AMH-DO-COVR1
H4AMH-AD-IRIL1
H4-MT-CRNR1

OUTDOOR MULTI-HEAD 3 HEAD CAMERA WALL MOUNT REQUIRED EQUIPMENT LIST

15C-H4A-3MH-180 (3x3MP)
POE-INJ2-60W-NA Power Injector
ACC7-ENT LICENSE - 1 per camera
H4AMH-AD-PEND1
H4AMH-DO-COVR1
H4AMH-AD-IRIL1
IRPTZ-MNT-WALL1

End of Section

INSTALLATION

- Install single head cameras on adjacent walls were possible. If it must be mounted on ceiling, it shall be on a water-resistant non-stainable ceiling tile. **MPS to have final determination of camera location and field of view) (Call Jack Phillips for final location and view phone 473-5225)**
- Any cameras installed on ceiling shall be mounted on a water-resistant non-stainable ceiling tile.
- Each installed camera needs a camera license.
- All network drops shall be connected with patch cords to a switch at each rack location.
- No Substitutions.

Horizontal Cabling Requirements

- See MPS Structured Cabling Specifications for camera network cabling installation, labelling and testing requirements.

Warranty

- Communications Contractor shall provide a 1 year parts and labor warranty against defective workmanship and/or system component failure.
- Communications Contractor shall execute a Lifetime Applications Assurance Warranty for parts and labor to support stated applications from the connectivity Manufacturer.

End of Section

Audio Visual Systems for Instructional Spaces Specifications

Part 1 - General

1.01 Instructional Spaces

- Reference technology drawings and detail sheet T504 for classroom configuration and part numbers.

1.02 Special Spaces

- Reference technology drawings and one line diagrams.

1.03 Flat Panel Displays

- All non interactive Flat Panel displays shall be 43" Samsung BE Series.
- Bio Lab 37 displays shall be ceiling mounted.
- Career Tech 12 and Career Tech 15 displays shall be wall mounted 55" AFF to center of display.

End of Section



201 N. BROADWAY
SUITE 210
MOORE, OK. 73160
405.735.3477
AGP@theAGP.net
www.theAGP.net

CEDAR CREEK INC.

CIVIL

KFC ENGINEERING

STRUCTURAL

SALAS O'BRIEN

MECHANICAL / ELECTRICAL

NY

drawn by

NY

checked by

OCTOBER 2022

date

revisions

MOORE PUBLIC SCHOOLS
BOARD OF EDUCATION
MOORE, OKLAHOMA



NEW ADDITION
KELLEY ELEMENTARY
SCHOOL

sheet no:

T303



2600 Van Buren St., Suite 2635
Norman, Oklahoma 73072
P: 405.364.9926 | CA#:7058 Expiration Date: 6/30/2023

Salas O'Brien Project No.: 2022-04164-00

OWNERSHIP USE OF DOCUMENTS:
AGP EXPRESSLY RESERVES ITS
COPYRIGHT AND OTHER PROPERTY
RIGHTS OF ALL PLANS AND DRAWINGS
DESIGNED AND/OR PRODUCED. PLANS
AND DRAWINGS ARE NOT TO BE
REPRODUCED IN ANY FORM OR MANNER
WITHOUT THE EXPRESSED WRITTEN
CONSENT OF AGP.