ADDENDUM

TO THE DRAWINGS AND THE PROJECT MANUAL

PROJECT NAME: Rucker Elementary School Addition and Renovations

CLIENT NAME: Prosper ISD

LOCATION: Prosper, Texas

PROJECT NUMBER: 1607-24-01

PROPOSAL DATE: Tuesday, April 28, 2020, 2:00 PM

ADDENDUM DATE: Thursday, April 23, 2020

For additional information regarding this project, contact Ron Rodpracha at 800.687.1229.

THIS ADDENDUM INCLUDES:

- Civil Items - Pages
- Landscape Items - Pages
- Structural Items - Pages
- Architectural Items - 1 Pages
- Foodservice Items - Pages
- Plumbing Items - Pages
- Mechanical Items - Pages
- Electrical Items - Pages
- Technology Items - 1 Pages

AND ALL ATTACHED REVISED DRAWING REFERENCES IN THE ADDENDUM
ARCHITECTURAL ITEMS FOR ADDENDUM NO. 1

NOTICE TO PROPOSERS:
A. This Addendum shall be considered part of the contract documents for the above-mentioned project as though it had been issued at the same time and incorporated integrally therewith. Where provisions of the following supplementary data differ from those of the original contract documents, this Addendum shall govern and take precedence.
B. Proposers are hereby notified that they shall make any necessary adjustments in their estimate on account of this Addendum. It will be construed that each Proposer’s proposal is submitted with full knowledge of all modifications and supplemental data specified therein. Acknowledge receipt of this addendum in the space provided on the proposal form. Failure to do so may subject Proposer to disqualification.

REFERENCE IS MADE TO THE DRAWINGS AND THE PROJECT MANUAL AS NOTED:

PROJECT MANUAL:
AD No 1, Arch. Item 1: To the Project Manual, Section 08 7100, “DOOR HARDWARE,”
To paragraph 4.01 HARDWARE SETS, add the following “SET #1” for existing door 3.02C:

SET #1

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Quantity</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electric Strike</td>
<td>1600-CS</td>
<td>1</td>
<td>HS</td>
</tr>
<tr>
<td>Cylinder Core</td>
<td>20-740</td>
<td>1</td>
<td>SC</td>
</tr>
<tr>
<td>Lockset</td>
<td>L9080T 06A 50-231</td>
<td>1</td>
<td>SC</td>
</tr>
<tr>
<td>Surface Mini Box</td>
<td>660-PB</td>
<td>1</td>
<td>LO</td>
</tr>
<tr>
<td>Switch</td>
<td>679-05WD</td>
<td>1</td>
<td>LO</td>
</tr>
<tr>
<td>Install HW</td>
<td>INSTALL HW</td>
<td>1</td>
<td>TBSC</td>
</tr>
<tr>
<td>Controller</td>
<td>2005M3</td>
<td>1</td>
<td>HS</td>
</tr>
<tr>
<td>Wire Harness</td>
<td>CON-192P</td>
<td>1</td>
<td>SC</td>
</tr>
</tbody>
</table>

DRAWINGS:
AD No 1, Arch. Item 2: To the Drawings, Sheet AD1.1, “DEMOLITION ENLARGED PLANS,”
1) Replace sheet in its entirety
2) Added note ‘D2’ to ‘NOTES BY SYMBOL’ legend
3) 10/AD1.2: Added note to door 3.02C

AD No 1, Arch. Item 3: To the Drawings, Sheet A1.2, “DEMOLITION ENLARGED PLANS,”
1) Replace sheet in its entirety
2) 1/A1.2: Added door tag 3.02C to existing door

AD No 1, Arch. Item 4: To the Drawings, Sheet A3.1, “DEMOLITION ENLARGED PLANS,”
1) Replace sheet in its entirety
2) Added door existing door 3.02C to ‘A3 – Door ASSEMBLY SCHEDULE – HOLOW METAL FRAMES’

END OF ARCHITECTURAL ADDENDUM
TECHNOLOGY ITEMS FOR ADDENDUM NO. 1

NOTICE TO PROPOSERS:

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REFERENCE IS MADE TO THE DRAWINGS AND THE PROJECT MANUAL AS NOTED:

PROJECT MANUAL:

AD No 1, Tech. Item 1: To the Project Manual, Section 281300, “ACCESS CONTROL SYSTEMS,”
1) Removed reference to Software House and replaced with DSX throughout document. No change to provided part numbers.

DRAWINGS:

AD No 1, Tech. Item 2: To the Drawings, Sheet T1.2, “FLOOR PLAN - SECTION 3,”
2) Relocated exterior Camera EXISTING-2 to new location.
3) Added new SC1 for Camera EXISTING-2.
4) Added S1 horn location for relocated intercom horn.
5) Added card reader to door leading into office, 3.02C.
6) Relocated Camera EXISTING-3 from RCP to wall mounted location.
7) Added notes 7-9 for clarification.

AD No 1, Tech. Item 3: To the Drawings, Sheet T2.2, “REFLECTED CEILING PLAN - SECTION 3,”
1) Relocated Camera EXISTING-4 to new location.
2) Deleted Camera EXISTING-3 and relocated it to floor plan.
3) Added note 7 for viewing adjustments to Camera EXISTING-5
4) Updated access control schedule for door 3.02C

END OF TECHNOLOGY ADDENDUM
SECTION 28 1300
ACCESS CONTROL SYSTEM

PART 1 - GENERAL

1.1 RELATED DOCUMENTS
A. Related Documents: Division 00 – Procuring and contract documents, General and Supplementary Conditions of the Contract, Division 01 General Requirements

1.2 SUMMARY OF WORK
A. Furnish and extend the existing DSX Access Control System as per the drawings and specifications.
B. The Contractor shall provide all materials, equipment, labor and all other incidental materials and appliances necessary, as described herein and in the drawings, to provide a complete turnkey and functional system, regardless of any materials and/or equipment not listed or described in this specification and/or supplementary drawings.
C. The system will use the Owner’s WAN for any required connectivity.
D. Refer to the Security drawings for all device locations.
E. All components, to include cabling mounted above ceilings shall be approved for use in non-plenum spaces. Any cable plant run in an outside conduit will be rated for outside plant conditions.
F. The Installing contractor shall provide all necessary devices on the access control system, according to the Installation Instructions furnished with each product and as outlined in this proposal.
G. The system will be monitored by the Owner’s Security Department. The contractor will set the system to provide email and SMS messaging to the required parties during the programming phase of this project.
H. Provide operational programming support as outlined in the specifications.
I. Support the integration of the ExacQ surveillance management system and Victor Unified Management System.

1.3 SUMMARY
A. The following is a summary of the Contractor’s Responsibilities and Requirements. The following does not preclude other Contractor Responsibilities and Requirements listed in this specification.
B. Review of Contract Documents and field conditions by Contractor prior to the work.
C. The Owner makes no representations as to the accuracy or completeness of the site information furnished to the Contractor by the Owner and does not expressly or impliedly warrant same and is not responsible for any interpretations or conclusions reached by the Contractor with respect thereto. It is Contractor's sole responsibility to verify to its own satisfaction all site information.
D. The Contractor is responsible for having visited the site and ascertained pertinent local conditions such as location, accessibility, and character of the site or building, the character and extent of existing work within and adjacent to the site, and any other work being performed thereon at the time of the submission of his proposal. Any failure to do so will not relieve him from responsibility for successfully performing the work without additional
expense to the Owner and to the General Contractor.

E. The Contractor shall take field measurements and verify field conditions and shall carefully compare such field measurements and conditions and other information known to the Contractor with the Contract Documents before commencing activities. Errors, inconsistencies or omissions discovered shall be reported to the Owner at once.

F. If in the performance of the Contract, subsurface, latent, or concealed conditions at the site are found to be materially different from the information included in this specification and the resulting Contract Documents, or if unknown conditions of an unusual nature are disclosed differing materially from the conditions usually inherent in work of the character shown and specified, the Owner shall be notified in writing of such conditions before they are disturbed. A/E, with the approval of the Owner and the Owner’s Security Department, will promptly make such changes the Specifications as deemed necessary to conform to the different conditions, and any increase or decrease in the Work, or in the time within which the Work is to be completed, resulting from such changes will be adjusted by Change Order subject to the prior approval of the Owner.

G. Before submitting its proposal to the Owner, and continuously after execution of the Contract, the Contractor shall carefully study and compare the contract document and shall at once report to the Owner representative any error, inconsistency or omission the Contractor may discover, including any requirements which may be contrary to any law, ordinance, rule, regulation or order of any public authority bearing on the performance of the Work. By submitting its proposal for the Contract and the work, the Contractor agrees that the contract documents appear accurate, consistent, and complete insofar as can reasonably be determined. If the Contractor has reported, in writing, an error, inconsistency or omission, has promptly stopped the affected work until otherwise instructed, and has otherwise followed the instructions of the Owner representative, the Contractor shall not be liable to the Owner for any damage resulting from any such errors, inconsistencies or omissions in the contract documents. The Contractor shall perform no portion of the Work at any time without the Contract Documents, and where required, approved Project Drawings, Product Data or Samples for such portion of the Work.

H. The Contractor shall perform the Work in accordance with the Contract Documents and submittals.

I. The Contractor shall arrange for the securing of any and all necessary permits and pay for same.

1.4 WARRANTY

A. The Contractor warrants to the Owner that all materials and equipment furnished under the contract documents will be new unless otherwise specified, and that all Work will be of good quality, free from faults and defects and in conformance with the contract documents. All Work not conforming to these requirements, including substitutions not properly approved and authorized, may be considered defective. If required by the Owner, the Contractor shall furnish satisfactory evidence as to the kind and quality of materials and equipment.

B. The Contractor warrants the materials, workmanship and work to be in conformance with the Contract Documents included in this Project, for one full year from date of Acceptance unless a longer warranty or special guarantee is specified. Contractor shall assign to Owner all warranties and guarantees from or rights against any manufacturer, supplier or distributor of equipment, fixtures and other material installed in or incorporated in the Work at the time of Acceptance by Owner.
C. The Warranty binds the Contractor to correct any work that does not conform to such Contract Documents or any defects in workmanship or materials furnished under this Contract which may be discovered within the one year period. The Contractor shall, at its own expense, correct such defect after receiving notice from the Owner by repairing same to the condition called for in the Contract Documents.

D. Contractor shall warrantee the repaired/replace item for one year from date of repair/replacement. This warranty shall cover parts, labor, travel and all other expenses.

E. All replacement, installation, integration, maintenance and testing provided in conjunction with the warranty provisions of such contract will be provided at no additional cost to the Owner.

F. Warranty service shall be on a 24-hour/day, 365-day/year basis with a response time not to exceed four (4) hours. The respondent shall certify that its proposed service facility shall initiate, within 1 business day, on-site repair to any critical system product that fails while under warranty.

1.5 SERVICE UNDER WARRANTY

A. Upon receipt of written notice, Contractor shall remedy defects within two (2) calendar days or the Owner shall seek other means to correct the defects and the Contractor or its surety shall be liable for expenses.

1. If it becomes necessary for the Owner to contract out for warranty repairs, due to an inability or failure of the Contractor to perform such repairs, the Contractor shall reimburse the Owner for all invoices for parts, labor, materials, travel, per-diem, and all other related expenses such as shipping/handling costs to perform such repairs, within 30 days from presentation of an invoice from the Owner. This shall only occur after the Contractor has been given two (2) calendar days to respond and correct the problem. The cost limitation for such repairs will not exceed the actual costs as listed above which are directly related to the repair.

1.6 MATERIAL AND WORKMANSHIP

A. The Contractor shall provide and pay for all materials, supplies, machinery, equipment, tools, superintendence, labor, services, insurance, and all water, fuel, transportation, and other facilities necessary for the execution and completion of the work covered by the Contract Documents.

B. Unless otherwise specifically provided in this Contract, all equipment, material, and articles incorporated in the work covered by this Contract are to be new and of the most suitable grade for the purpose intended.

C. All work under this Contract shall be performed in a skillful and professional manner. The Contractor agrees to employ only orderly and competent employees, skillful in the performance of the type of work required under this contract; and agrees that whenever informed by the Owner in writing that any employee(s) on the work is (are), in its opinion, incompetent, unfaithful or disorderly, shall be discharged from the work and shall not again be employed on the work without the Owner’s written consent.

D. Materials or work described in words, which so applied, have a well-known technical or trade meaning shall be held to refer to such recognized standards. Neither custom nor usage of trade shall require the Owner to accept materials or workmanship not in strict and complete compliance with the Contract Documents.

1.7 REFERENCES

A. TIA 569 C—Telecommunications Pathways and Spaces
B. ANSI/TIA/ 606-B – Administration Standard for Commercial Telecommunications Infrastructures


E. International Standards Organization (ISO) 7816

F. Underwriters Laboratories (UL®) Cable Certification and Follow up Program

G. National Electrical Manufacturers Association (NEMA)

H. American Society for Testing Materials (ASTM)

I. National Electric Code (NEC®), Latest Issue

J. Institute of Electrical and Electronic Engineers (IEEE)

K. UL Testing Bulletin

1.8 QUALIFICATIONS

A. Acceptable Manufacturer
   1. The following manufacturer’s systems will be acceptable for this project:
      a. DSX

B. Contractor
   1. The installing security contractor shall provide proof from the specified manufacturer that they are an authorized integrator for the products proposed in this solution.
   2. The contractor will utilize the authorized manufacturer components and distribution channels in provisioning this Project. Contractors must be prepared to submit authorized manufacturer factory training certificates.
   3. The proposed contractor will have a minimum of three (3) years of recent experience with the proposed manufacturer’s products.
   4. Preferred contractor will have a minimum of five (5) years of experience with the design, installation and project management of access and control systems.
   5. The preferred contractor will have a minimum of five (5) years of access control installation experience with K-12 schools in Texas.
   6. The contractor will comply with all federal, state and local statutes regarding qualifications of firms.
   7. The contractor will have adequately trained personnel in the usage of such tools and equipment and will provide a quantity of certified technicians as part of their submittal response.
   8. The contractor must have previously established offices located within 120 miles of the Owner’s Administration Building.
   9. The contractor shall provide proof of licensing by the Texas Board on Private Security run by the Department of Public Safety.
   10. The Contractor shall not have any grievances or complaints of record regarding workmanship, code compliance or service response. A Contractor that has any prior finding(s) of a license violation or has any litigation in process is unacceptable.
   11. Prosper ISD reserves the right to reject bid of any bidder who has previously failed to perform properly, or complete on time, contracts of a similar nature.

C. Subcontractors
   1. The use of sub-contractors for this project is not approved
   2. All wiring of the access control system shall be performed by the access control contractor only.
1.9 SUBMITTALS AND CLOSE OUT DOCUMENTS

A. Provide electronic copies in PDF format for all submittals and close out drawings except where drawings are called for in DWG format.

B. Provide product data cut sheets for all listed products in section two of this specification as per the following provisions:
   1. Shop drawings are required for the submittal package and will contain the following information:
      a. Identify the location of each device as per the Security drawings to include all door contacts, motion sensors, access control panels, request to exit devices and other devices associated with the access control systems.
      b. Each device shall be labeled as per the direction of the Owner’s Representative and Owner’s Security Department.
      c. Drawings will include the schematic wiring layouts of each access control panel location to include all labeling. Panels shall be broken out by campus and by MDF or IDF room as needed.
      d. Title blocks used on all drawings will be that of the contractor and shall include the following:
         1) Company name
         2) Company address and phone number for service
   2. Provide manufacturer cut sheets for each piece of equipment specified. Include the manufacturer name, model number and description of each listed component.
      a. If the data sheet includes multiple part numbers or models the bidding contractor will indicate which particular model is being submitted by marking the appropriate model number with an “X” or an arrow.
   3. Provide a copy of current manufacturer certifications for the company and for all personnel who will provide services on this project. The contractor shall be certified with DSX.
   4. No portion of the work shall commence or equipment ordered until the architect, the Owner Representative and the Owner Security Department have approved the submittals.

C. Closeout Submittals will be submitted under provisions of Section 01 7700 and 01 7800 with the following provisions.
   1. Maintenance Data: Include manufacturers’ operating instructions, original copies of all software, recommended maintenance required and maintenance intervals.
   2. A complete parts list.
   3. A spreadsheet containing the following information about the access control system:
      a. Panel Name (Coordinate with Owner Security representative)
      b. IP Address (Obtained from Owner Security)
      c. MDF or IDF room that the panel originates in as per the design documents.
      d. Port number of the patch panel the panel is connected to
      e. Port number of the switch the panel is connected to. (Obtained in coordination with Owner Security Department)
   4. Record drawings shall show the following:
      a. Identify the accurate location of each device as it appears inside the building. Devices shall include all door contacts, motion sensors, access control panels, request to exit devices and other devices associated with the access control systems.
      b. Each device shall be labeled as per the direction of the Owner Security Department.
      c. Show all cable pathways used to reach each device location.
d. Provide panel elevation details that match the outlines left in each panel location as described in section two of this specification.

e. Title blocks used on all drawings will be that of the Contractor and shall include the following:
   1) Company name
   2) Company address and phone number for service
   3) Date on the drawings will match the date of acceptance for warranty purposes.

5. Provide two copies of the training manuals in color in PDF format.

6. Contractor will provide an electronic copy of all drawings with the close out documentation. Drawings will be issued in PDF formats.
   a. The drawings shall accurately reflect all changes and additions to the surveillance system since the bid.
   b. Electronic copies of the drawings can be in color. Do not use the color, yellow for any purpose.

7. A completed record drawing will be required for use during the final acceptance process of the construction project. Failure to produce the record drawing during this process will result in a delay in the final acceptance to the Owner

1.10 PROJECT CONDITIONS

A. Project Environmental Requirements
   1. Comply with requirements of referenced standards and recommendations of material manufacturers for environmental conditions before, during, and after installation.
   2. Do not begin installation until instructed to perform by the Owner construction manager.
   3. While on the facility or on any land owned by the Owner all Contractors will comply with Owner policies concerning alcohol, tobacco and firearms as well as any other Owner policy governing dress, behavior etc. Company uniform displaying the company name must be worn at all times.
   4. Contractor will be prepared to provide insurance and other requirements of the general Contractor during this project.
   5. Coordinate with the Owner Security Department in obtaining all the required IP addresses.
   6. Owner approved badges will be displayed at all times while on site. Personnel found without their badges on them or who refuse to display them properly will be removed from the job site immediately. Reference the project specifications for all information pertaining to Owner Badging requirements.

1.11 DELIVERY, STORAGE AND HANDLING

A. Comply with requirements of the delivery storage and handling specification sections in the project specification book.

B. Deliver materials in manufacturer's original, unopened, undamaged containers with identification labels intact.

C. Store materials protected from exposure to harmful environmental conditions and at temperature conditions recommended by manufacturer.

D. Handle products and systems in accordance with manufacturer's instructions.

1.12 WARRANTY

A. Comply with requirements of Section 01 7800 - Closeout Submittals and this specification.
B. Submit a written warranty, executed by the Contractor, Installer and Manufacturer, agreeing to repair or replace any component(s) that fail in materials or workmanship within the specified warranty period.
   1. Contractor Labor Warranty Period: One (1) year after date of Final Acceptance.
   2. Product Warranty for all access control panels and associated hardware Period: Five (5) years after the purchase date of equipment. OEM, other equipment purchased and resold by the approved manufacturer, shall carry only the warranty given by the original manufacturer and is not covered by the approved manufacturer’s warranty.

C. Contractor will provide warranties for all manufacturers’ equipment used in this installation.

D. All recall notices occurring during the manufacturer’s warranty period will automatically be forwarded to the Owner.

E. All recall notices occurring after the expiration of the manufacturer’s warranty will be forwarded to the Owner for a period of 2 years after the warranty expires.

F. Additional Warranty
   1. Contractor will state any additional Contractor supplied warranty.

G. Upon receipt of written notice, Contractor shall remedy defects within fourteen (14) days, the Owner shall seek other means to correct the defects and the Contractor or its surety shall be liable for expenses.

PART 2 - PRODUCTS

2.1 CONTROL AND NETWORK CABLES AND PATHWAYS

A. All access control cabling used on this project shall be approved by the Owner Security Department.

B. The Contractor will provide all pathways and control cabling for all new devices shown on the plans including but not limited to the door position switches, power supplies, motion sensors, and card readers as required providing a complete and functioning system.

C. Contractor will refer to the drawing for all device locations. All devices shown on the drawings will be considered a monitored device. All exterior doors shall receive a door position switch.

D. All cabling for the approved manufacturer’s hardware must meet the factory specifications, including the requirements for cable that is stranded, twisted, with an overall shield to eliminate electrical interference.

E. Pair counts and wire gauge must meet the approved manufacturer’s specifications based upon the distances and power level required.

F. Plastic tie wraps are not permitted at any time in the pathways. Contractor will use Velcro based ties to secure the cable bundles, if not already installed, in the conduit pathways.

G. All above ceiling cabling installed for this system will be supported with conduit pathways secured to the building structural steel, walls, or by dedicated grid wire. Contractor will not share cable pathways with any other low voltage structured cable plant. All conduits by the electrical contractor.

H. Any cables showing signs of excessive bending or mishandling that result in damage to the cable jacket will be replaced at contractor’s expense.

I. Cables will be installed for a non-plenum environment. All cable pathways shall be installed in conduit provided and installed by the electrical contractor.
J. Conduit pathways shall be provided by the contractor from the panel locations to all device locations using J-hooks, bridle rings, or approved supports by the Owner Representative or Owner Security Department and Velcro ties to support the cable. The Owner will not accept any exposed wiring below the ceiling space for any reason. Conduit pathways shall be provided by the electrical contractor into all door frames. Coordinate all pathway rough in with the site General Contractor and electrical contractor and Owner prior to the rough in and installation of the door frames.

2.2 ACCESS CONTROL PANELS

A. Contractor will size out the appropriate wall mounted panels to accept the number readers and other devices as shown on the drawings or as identified in the specifications. Acceptable Manufacturer: DSX, contractor shall install a 1042 controller and use the address of the existing control board with the address, 12, that is not being used. Use that address with the new 1042 controller. Contractor shall coordinate with the Owner Technology Department if additional controller(s) are needed.

B. Contractor shall provide all required licenses as necessary for a complete and functioning system.

C. Contractor will coordinate with the Owner Security Department on obtaining the proper I.P. address for the panel and panel labeling.

D. The contractor will provide and install a hardwired dedicated power supply for all panel locations. Coordinate with the electrical contractor. The use of power cords for power supplies is not permitted at any time.

E. A dedicated data drop shall be run from the back of the patch panel, to the wall mounted panel as needed. Div. 27 0000 shall provide the data drop for the access control system.

F. The Owner Technology Department will plug in a patch cable from the patch panel to the switch to connect the access control panel on the network. Coordinate with the Owner Technology Department on this process.

G. All access control panels shall have an 8 ½ x 11 laminated layout that has the following information placed inside the panel location. Contractor shall provide a mock-up of this document prior to deploying it inside the control panels.

1. In the upper left corner of the layout provide the name of the installing company, phone number and Texas Security License number
2. In the upper right corner of the page provide the Name of the campus, the MDF or IDF room location.
3. IP Address of the panel will be placed under the MDF / IDF room I.D., provide the subnet mask beneath the IP address.
4. Place the gateway IP address information below the subnet mask
5. Place the service contract information (contact and phone number or just phone number will be acceptable)
6. Beneath the common information provide a line diagram showing each blade location and the name of the device attached to each input on each card.
7. All wiring shall be neatly dressed to each device input location and labeled within 1” of the termination at the input. Wiring includes all devices and the wiring bringing in the power for the power supply.
8. Wire all tamper switches on each control panel door back into the system.
9. Label the battery and power supply location with the name of the campus, the MDF or IDF room location (MDF, IDF A etc) and the date in which the battery was installed. Labels shall consist of white backgrounds with black letters with a large font. Machine generated adhesive labels only. Nothing handwritten shall be acceptable. Coordinate with the Owner Security Department on the acceptable nomenclature.
H. Contractor will turn over all keys to all panels and to the electronic lockdown devices to the Owner Security Department following substantial completion. Transmittals will be coordinated through the General Construction Manager.

2.3 ENCLOSURES AND POWER SUPPLIES

A. Provide as required auxiliary power supply(s) and battery backup, U.L. Listed and labeled for access control systems.

B. Provide low battery reporting as part of the access control system programming. Standby battery operation time shall equal, or exceed, the standby operation time of the main panel; in any case, provide a minimum of 12 volt, 7 amp hours battery backup.

C. Provide a DSX U.L. listed cabinet suitable for surface mounting if needed. The cabinet and front shall be corrosion protected, given a rust-resistant prime coat, and a painted standard finish. The cabinet shall provide storage for backup batteries. The door shall provide a key lock to access system components and shall be keyed like the main panel. The cabinet shall be equipped with front and back tamper switches. All components shall be securely mounted and all cable routed and tie wrapped in a neat, professional manner.

D. Contractor shall size this power solution for the appropriate number of controllers at each IDF/MDF.

E. All electrical wiring shall be done on terminal strips – no wire nuts or caps are permitted at any time on any panel.

F. Power Supply/Wall Mounted Cabinet Manufacturer: DSX or Owner pre-approved equivalent

G. Contractor responsible for sizing and for appropriate models.

2.4 DOOR POSITION SWITCHES (DPS)

A. Reference drawings for door position switch locations. Use flush mounted door contacts positioned in the top of each door for all new door locations as indicated on the drawings. Use surface mounted door contacts for all other door locations and roof hatch locations.

B. The devices will be programmed to show door open, closed and door ajar or held open alarm events. See the programming section for the time delay to be programmed for all hold open alarm events.

C. Roll up exterior doors (if applicable) in all areas of the building will require surface mounted contacts provided and installed by the Contractor. Reference the drawings for these door locations.

D. Flush mount door position switches - Acceptable Manufacturer: UTC Fire and Security 1079C-N equal.

E. Floor mount for roll up door locations - Acceptable Manufacturer: UTC Fire and Security 2500 Series Wide Gap.

2.5 DOOR HARDWARE AND HARDWARE POWER SUPPLIES

A. Reference the door hardware specifications for the door hardware and door power supply information.

1. The hardware contractor will provide the door power supplies for the new electronic latch retraction doors if required for complete door/system functionality.

2. The access control contractor will provide the power supply for to power all low voltage entry points including the MDF room, and the door leading from the office to the corridor.
3. Verify all locations with the hardware specifications. Work shall include all wiring, power supplies from a centralized panel location and final testing and terminations.

B. The contractor will wire / connect the power supply to both the power source and to the door hardware via the EPT transfer hinge as recommended in the door hardware specifications.

C. Contractor shall review the door hardware schedule and compare all device locations on the plans with the schedule. Report any conflicts to the Architect immediately. The drawings shall take precedence over any discrepancies concerning card reader locations.

2.6 REQUEST TO EXIT DEVICES (RTE)

A. All exterior doors leading out from occupied areas of the building shall be equipped with request to exit devices. Reference the door hardware schedule for the type of RTE device that will be used for the door location. The door hardware contractor shall install the door panic hardware with the RTE switch installed. The access control contractor shall connect the RTE to the EPT and then into the access control system.

2.7 CARD READERS

A. Acceptable manufacturer: HID Signo Model 40NKS reader for all reader locations.

B. The contractor shall use new conduits and back boxes provided and installed by the electrical contractor at each reader location. Reference drawing for all reader locations.

C. The security contractor shall seal all exterior mounted reader locations with a clear UV resistant sealant to prevent insect or water damage.
   1. Silicon will dry clear and must be UV resistant.

D. Route the wiring to the nearest access control panel in the installed pathway provided by the electrical contractor.
   1. Contractor shall not run any cabling in any above ceiling pathway already installed to support other low voltage trades such as the network station cabling or intercom speakers etc.

2.8 AUDIO/VIDEO INTERCOM STATION

A. The facility shall be equipped with one audio/video intercom system to be installed in the front administration office (to control three doors), reception entry and two new vestibule doors. Refer to the technology drawings for the front administration office location. Coordinate with the Owner Security Department for equipment location.

B. Acceptable Manufacturer AIPHONE:
   1. Master Station: AX-8MV or Owner approved equivalent
      a. Main Building: Installed at front desk reception area as shown on the drawings
   2. Central Exchange: AX-084C
      a. Main Building: Installed in the MDF/IDF
   3. Power Supply: PS-2420UL
      a. Main Building: Per manufacturer’s recommendation

C. Contractor shall verify listed components to ensure a fully functioning system. If there are any discrepancies in the components or if needed components are missing, contractor shall be responsible for obtaining the needed items to ensure system functionality.

D. The Contractor shall reference the technology drawings to coordinate the location of the AIPHONE Video Master Station.

E. The Contractor will be responsible for all programming and shall meet the Owner’s specifications.
F. The AIPHONE system shall remain operational during network outages.

G. The AIPHONE system shall become inactive during the activation of the emergency alarm lock down button.

H. The AIPHONE shall become operational upon reset of the emergency alarm lock down button.

I. The AIPHONE door release shall be activated through both the AIPHONE system and through the access control system. When the door is released through the AIPHONE system, the access control system shall acknowledge the door opening as a legitimate entry.

J. The Contractor shall consult with the Owner on any additional programming of the system.

K. The Contractor shall test and operate the system a minimum of five times in the presence of the Owner and consultant from each station location during the commissioning of the access control system.

2.9 PRIMARY SERVER DATABASE AND PROGRAMMING REQUIREMENTS

A. The access control database server will be located in the Owner’s Security Department Building and shall have been installed prior to this project.

B. DSX will be used for the campus. Contractor shall connect into the existing software system.

C. Include any licensing requirements or fees for using the management software and accompanying client software. The Contractor will use the current software being used at the time of the start of the software programming.

D. Owner programing requirements for the access control system will require unique and specialized programing. The feature set below will be required customized programing completed by vendor of choice.
   1. Map navigation with active camera previews including during alarm events such as forced doors or doors held open.
   2. Mapping navigation will begin at an Owner’s area wide map
   3. Mapping will be done with access control icons, controller icons and exterior camera icons. Icons shall display the device status (i.e. open or closed for doors; normal or trouble for controllers; etc.)
   4. Step 2 of map navigation will be the new facility site map to include all buildings that have access control.
   5. Step 3 of map navigation will be a complete as-built of the new building to include all access control icons to coincide with actual install.

E. Integration with Exacq Vision Surveillance system for access control. Contractor shall provide sufficient license fees as needed to incorporate the cameras into the access control system.

F. Programing the access control panel at the facility.
   1. Program each panel and place on Owner network, IP addresses and VLAN configuration will be provided by Owner Security Department.
   2. Program all required inputs, outputs, card readers, locks, portals, card reader groups, portal group’s access levels, time schedule and time schedule groups along with any other programing to provide a complete working system.
   3. Contractor shall coordinate with the Owner Security Department on all programing requirements including:
a. Programming of all access levels, user information and events as directed by the Owner Security Department.

Programming of all threat level lockdowns to include emergency lock down as directed by the Owner Security Department.

4. All programming shall comply to the current Owner Security Department standards.

G. Program panels in the facility with the following:
   1. All access levels
   2. All user information
   3. All door schedules
   4. All threat levels

H. Icons will be programmed to identify the following conditions at each monitored door:
   1. Forced door
   2. Door held open
   3. Door demonstrating a legitimate exit or entry to the building.
   4. All programming shall be approved by the Owner Security Department.

I. It will be the responsibility of the access control Contractor to obtain the electronic copies of the floor plans from the architect through the General Contractor.
   1. Contractor shall work with the Owner Security Department in setting up the user database and programming card access to the users and specific doors with the following information:
      a. Regular work hours
      b. Holidays – School closed or half day events
      c. Summer hours
      d. Coordinate all times with the Owner.
      e. Additional programming of doors for special Owner events will be the responsibility of the Owner.
   2. Program low battery alarms for each panel battery installed. Coordinate with the Owner Security Department on the threshold for this event.

J. Contractor shall partition the system and shall include but not be limited to the following objects:
   a. Personnel
   b. Clearances
   c. Doors (include all doors and access hatches with drop-down menus for manual actions)
   d. Controllers with all associated hardware (readers, inputs, outputs, etc)
   e. Video servers with all associated objects (cameras, tours, views, etc)
   f. Application layouts
   g. Events
   h. Dynamic views
   i. Maps (shall include icons with drop-down menus for manual actions)
   j. Reports, forms, results
   k. Holidays
   l. Badge layouts
   m. Queries
   n. Images

2.10 SURVEILLANCE CAMERAS

A. The Contractor shall connect surveillance cameras to the indicated door being monitored by the access control system. Contractor shall coordinate such locations with the Owner Security Department.
B. Some cameras shall be turned or adjusted in order to capture the desired areas. The Contractor will verify all views with the Owner Security Department.

PART 3 - EXECUTION

3.1 INSTALLATION

A. Before installation of the system, the Contractor shall coordinate with the Owner’s information technology department for the following:
   1. System network settings, including IP addressing, VLANs, firewall ports, et.al.
   2. Anti-virus, anti-malware and other prevention and detection tools on servers and client machines
   3. Operating system versions and patch levels on servers and client machines
   4. Needs and methods for allowing remote access
   5. Password provisioning plan. No devices shall be deployed using their manufacturer default passwords.
   6. An asset management worksheet, to include:
      a. Manufacturer, model, and firmware or software version
      b. Device logical names
      c. Serial number and MAC address, if applicable
      d. Network settings, including IP address, VLAN or subnet mask, default gateway
      e. Equipment location
      f. Device user names and passwords

B. The Contractor and its authorized installers shall ensure only secure versions of all protocols are used, to include HTTPS, SFTP, SNMPv3

C. Components of the system will be installed in a neat, professional manner.

D. Wiring color codes will be strictly observed and terminations will be uniform throughout the system.

E. Identification markings and systems will be uniform.

3.2 SPECIAL REQUIREMENTS FOR CABLE ROUTING AND INSTALLATION

A. Cabling
   1. All cabling used throughout this project will comply with the requirements as outlined in the National Electric Code (NEC®) Articles 725, 760, 770, and 800 and the appropriate local codes.
   2. Contractor will supply new wiring to connect each device to the new access control panel.
   3. Any cable installed in violation of the listed practices and additional guidelines in this specification shall be removed and new cable installed at Contractor’s expense.
   4. Cable bundles will be supported in conduit run by the electrical contractor.
      a. Contractor shall not install cable in any conduit prior to the installation of conduit bushings.
      b. Use of a split bushing will be accepted as indication the cabling was pulled through without the busing being in place. The cables will be replaced at the contractors cost for any areas where this is discovered.
      c. Any anticipated delay of cable installation because of conduit or conduit bushing installation shall immediately be brought to the attention of the Owner Construction Manager and the Architect.
      d. All conduits must be free of debris prior to placing cable.
      e. Cable that is placed in conduits with debris will be replaced at Contractor’s sole expense.
   5. Contractor will observe the recommended bending radius and pulling strength requirements of the cable during handling and installation.
a. Bends which deform the cable jacket must be avoided. Violation of bend radius shall be remedied with the replacement of the cable at the Contractor’s sole expense.

6. Each run of cable between the control panel and the device will be continuous without any joints or splices.

7. Cable pathways will avoid crossing over electrical rooms.

8. Cable runs shall not be parallel to electrical pathways without proper separation.

9. In suspended ceiling and raised floor areas where walker duct, cable trays or conduit are not available, the Contractor will bundle station wiring with hook-and-loop (Velcro) cable straps at appropriate distances.

10. Cables shall not be support by or come in contact with HVAC ductwork.

11. Cables shall not wrap around or touch in anyway the building structural systems.

12. Cables will not be attached to lift out ceiling grid supports or laid directly on the ceiling grid. Cables will not touch ceiling grid support lines.

13. Cables will not be attached to or supported by fire sprinkler heads or delivery systems or any environmental sensor located in the ceiling air space including duct work.

14. Cables will not touch all thread. Areas where all thread come within 6” of the pathway will require the cabling contractor to place a manufactured split sleeve protection on the all thread in the area of the pathway.

15. Contractors that violate these standards will be required to remove the cable at fault, correct the pathway and re-install the cabling at Contractor’s sole expense.

16. Every effort will be made to schedule the requirements under this Contract in such a manner so as to complete all above ceiling work prior to ceiling tile installation. In the event Contractor is required to remove ceiling tiles, such Work will not break or disturb grid and must be coordinated with the General Contractor.

17. The cable will be Underwriter's Laboratories (UL) listed type MPR, MPP, CMR, or CMP as stated in this specification document.

18. Conduit runs installed by the contractor should not exceed 100 feet or contain more than two 90-degree bends without utilizing appropriately sized pull boxes.

19. All cables installed within ceiling spaces will be routed through these spaces at right angles to electrical power circuits.

B. Fire Stopping

1. Fire stopping equipment and practices will comply with applicable national and local codes.

2. Sealing of openings between floors, through rated fire and smoke walls, existing or created by the Contractor for cable pass through will be the responsibility of the Contractor.

3. Sealing material and application of this material will be accomplished in such a manner, which is acceptable to the local fire and building authorities having jurisdiction over this work.

4. Creation of such openings as are necessary for cable passage between locations as shown on the drawings will be the responsibility of the Contractor’s work.

5. Any openings created by or for the Contractor and left unused will also be sealed as part of this work.

C. Contractor Responsibility

1. The Contractor will be responsible for damage to any surfaces or work disrupted because of this work. Repair of surfaces, including painting, will be included as necessary.

2. The Contractor will rectify damaged caused at the Contractor’s sole expense.
3.3 TESTING WARRANTY SERVICES

A. A factory-trained representative of the manufacturer shall supervise the final connections and testing of the system and it shall be subject to the final acceptance of the Architect/Engineer and Owner Security Department.

B. The access control contractor shall make a thorough inspection of all device locations to insure the following:
   1. Confirm all devices are properly located and connected as per the Security drawings, construction specification documents and manufacturer’s best practices or installation instructions for a complete and functional system.

C. The Contractor shall provide a warranty of the installed system against defects in material or workmanship for a period of one (1) year from the date of substantial completion. Any equipment shown to be defective shall be replaced, repaired, or adjusted free of charge. All labor and materials shall be provided at no expense to the Owner. All equipment will carry a one-year warranty or manufacturer’s warranty whichever is greater.

3.4 MISCELLANEOUS EQUIPMENT

A. The Contractor will provide any necessary consumable materials and support hardware necessary to facilitate the installation of the System.

3.5 LABELING

A. System components and wiring shall be comprehensively labeled.
   1. All labels shall be machine generated.
   2. Handwritten labels are not acceptable.
   3. Reference the section on the access control panel for all administrative requirements.

3.6 TECHNICAL SUPPORT

A. On site move day support
   1. Contractor will provide technical support on per/hour basis at such levels and at such times as the Owner Security Department deems necessary during the physical move to the site.

B. The personnel providing technical support will:
   1. Have thorough and in-depth knowledge of the System and Materials that were used as well as have direct project experience.
   2. Be skilled in all use of equipment and materials used under the Contract.
   3. Be competent to troubleshoot and fix problems associated with Contractor provided materials.

3.7 FINAL ACCEPTANCE

A. The integrator will perform on-going reviews of all work for compliance with the contract documents with a representative from the Architect. All work will be performed in a high quality manner and the overall appearance will be clean, neat and orderly.

B. Final acceptance will not be given until all locations installed in the field are verified on the contractors close out record drawings and the programming verified by the Owner Security Department.

END OF SECTION
A. BIDDERS TO VISIT SITE AND BE FAMILIAR WITH EXISTING E1. SAW CUT & REMOVE EXISTING CONC SIDEWALK, CURB OR FLAT RETAINING WALL E3. REMOVE & DISPOSE OF EXISTING GUTTERS, DOWNSPOUTS, FASCIA & WALLS DURING CONSTRUCTION MUST BE COORDINATED WITH THE SCHOOL DISTRICT REPRESENTATIVE ASSIGNED TO THIS SPECIFIC PROJECT.

FIELD VERIFY FOR MECHANICAL, PLUMBING, AND ELECTRICAL PENETRATIONS OBSERVATIONS. DISCREPANCIES BETWEEN DRAWINGS AND ACTUAL PROJECT. THIS EXISTING FACILITY WILL REMAIN FUNCTIONAL DURING THE DEMOLITION.

PROTECTION, AND SAFETY DEVICES IN PLACE AT ALL TIMES DURING AND AFTER DEMOLITION UNTIL NEW WORK IS INSTALLED.

COMPONENTS DURING THE COURSE OF DEMOLITION AND UP UNTIL THE REQUIRED FOR PROPER INSTALLATION OF THE NEW TRANSACTION WINDOW. M2. CAREFULLY REMOVE EXISTING TOILET PARTITIONS AND PRESERVE TO RE-INSTALL IN SAME PLACE. PATCH, REPAIR AND PREP. WALLS FOR NEW FINISH. ANY DAMAGE SHALL BE RESPONSIBILITY OF THE CONTRACTOR FOR REPAIR OR REPLACEMENT. REF. PLUMBING.

DOOR TYPE B2 - DOUBLE DOOR WITH LATCH RETRACTION ON ACTIVE LEAF AND CARD READER

1. MECHANICAL PANIC BAR ALLOWS FREE EXIT FROM SECURE SIDE
2. DOOR IS EQUIPPED WITH ELECTRIC LATCH TO EXIT FREE FROM SECURE SIDE AT ALL TIMES.
3. CARD READER IS TO CONTROL ENTRY TO SECURE AREA.
4. A VALID CARD READ RETRACTS THE LATCH.
5. DOOR WILL REMAIN SECURE IN EVENT OF POWER LOSS.
6. DOOR CAN BE LOCKED OR UNLOCKED BASED ON ACS SCHEDULE.

REQUEST TO EXIT SWITCH
- LATCH RETRACTION AND ELECTRIC INTEGRATED CONTACT SWITCH (IF EXIT DEVICE WITH RECESSED DOOR 0"

1) 3/4" CONDUIT TO ACS PANEL
(SECURE SIDE)

TOILETS

1) 3/4" CONDUIT TO CAMERA.
CORD AND POWER CABLE, FROM J-BOX TIGHT CONDUIT, CONTAINING THE PATCH OUTLET AND SERVICE LOOP INSIDE BOX.

10" x 10" x 4" DEEP J-BOX ANCHORED TO DECK OR STRUCTURE. PLACE WORK AREA 10' AFF. PROVIDE NEW 3/4" SLEEVE IN WALL TO HORN INSTALLATION.
PROVIDE NEW CABLING TO NEW LOCATION. MOUNT HORN AT 12'. CONNECT NEW DATA TO BACK OF CAMERA WITH EXISTING DATA OUTLET LOCATION. CONNECT NEW 25' PATCH CABLE FROM EXISTING DATA DROP IN VESTIBULE TO THIS CAMERA LOCATION. SECURITY SHALL INSTALL NEW DATA AND ACCESS CONTROL WIRING SHALL ORIGINATE FROM THIS ROOM.

PROVIDE NEW 1" CONDUIT SLEEVE FOR PATCH CABLE INTO THE ADJACENT CEILING SPACE FOR THE NEW PATCH CABLE.
INSTALLED AT 12" ABOVE ACCESSIBLE CEILING SPACE.

PROVIDE NEW 1" CONDUIT SLEEVE FOR PATCH CABLE MOUNTED ON THE WALL. PROVIDE NEW 1" SLEEVE THROUGH WALL EXISTING INTERCOM STATION SHALL CONTROL THE INTERCOM CABINET.

RE-INSTALL EXISTING EXTERIOR CAMERA, TAKEN DOWN DURING DEMOLITION, AT THIS LOCATION. THE CAMERA WILL BE FLUSH MOUNTED ON THE WALL ABOVE THE DOOR.

RECONNECT EXISTING DATA TO VIEWING THE CORRIDOR. RECONNECT EXISTING DATA TO SELECTED LOCATION. SECURITY SHALL INSTALL NEW DATA AND ACCESS CONTROL WIRING SHALL ORIGINATE FROM THIS ROOM.

NEW LOCATION FOR RELOCATED INTERCOM HORN.
CONNECT AND DIV 27 PROVIDE NEW PATCH CABLE.
OUTLET TO CAMERA EXIST 3 LOCATION. SECURITY SHALL INSTALL NEW DATA AND ACCESS CONTROL WIRING SHALL ORIGINATE FROM THIS ROOM.

New Location for relocated intercom horn.
Connect and DIV 27 provide new patch cable.
Outlet to camera exist 3 location. Security shall install new data and access control wiring shall originate from this room.

EXISTING MDF ROOM WITH ACCESS CONTROL PANEL. ALL PATHWAY INTO THE BACK OF THE CAMERA MOUNT.
INTO THE ADJACENT CEILING SPACE FOR THE NEW PATCH PROJECT NO. AV DA SEC PDS
SERV. VESTIBULE

10. APPROXIMATE LOCATION OF INTERCOM CABINET.
8. APPROXIMATE LOCATION OF INTERCOM CABINET.
7. PROVIDE NEW 25' PATCH CABLE FROM EXISTING DATA DROP IN VESTIBULE TO THIS CAMERA LOCATION. SECURITY SHALL INSTALL NEW DATA AND ACCESS CONTROL WIRING SHALL ORIGINATE FROM THIS ROOM.
6. APPROXIMATE LOCATION OF INTERCOM CABINET.
5. EXISTING MDF ROOM WITH ACCESS CONTROL PANEL. ALL PATHWAY INTO THE BACK OF THE CAMERA MOUNT.
4. NEW DATA FOR SECURITY CAMERA CONNECTION INTO THE ADJACENT CEILING SPACE FOR THE NEW PATCH PROJECT NO. AV DA SEC PDS
SERV. VESTIBULE

3.07A
B2
ACS

3.01

1-GANG BACK BOX w/ 2-GANG CR

3.02A
B2
ACS

3.02

3.07

08

CR

1-GANG BACK BOX w/ 2-GANG CR

3.02B
B2
ACS

3.02C

TOILET

3.03

CR

TO CAMERA.
CORD AND POWER CABLE, FROM J-BOX TIGHT CONDUIT, CONTAINING THE PATCH OUTLET AND SERVICE LOOP INSIDE BOX.

10" x 10" x 4" DEEP J-BOX ANCHORED TO DECK OR STRUCTURE. PLACE WORK AREA 10' AFF. PROVIDE NEW 3/4" SLEEVE IN WALL TO HORN INSTALLATION.
PROVIDE NEW CABLING TO NEW LOCATION. MOUNT HORN AT 12'. CONNECT NEW DATA TO BACK OF CAMERA WITH EXISTING DATA OUTLET LOCATION. CONNECT NEW 25' PATCH CABLE FROM EXISTING DATA DROP IN VESTIBULE TO THIS CAMERA LOCATION. SECURITY SHALL INSTALL NEW DATA AND ACCESS CONTROL WIRING SHALL ORIGINATE FROM THIS ROOM.

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PROVIDE NEW 1" CONDUIT SLEEVE FOR PATCH CABLE MOUNTED ON THE WALL. PROVIDE NEW 1" SLEEVE THROUGH WALL EXISTING INTERCOM STATION SHALL CONTROL THE INTERCOM CABINET.

RE-INSTALL EXISTING EXTERIOR CAMERA, TAKEN DOWN DURING DEMOLITION, AT THIS LOCATION. THE CAMERA IS TO BE FLUSH MOUNTED ON THE WALL ABOVE THE DOOR.

RECONNECT EXISTING DATA TO VIEWING THE CORRIDOR. RECONNECT EXISTING DATA TO SELECTED LOCATION. SECURITY SHALL INSTALL NEW DATA AND ACCESS CONTROL WIRING SHALL ORIGINATE FROM THIS ROOM.

NEW LOCATION FOR RELOCATED INTERCOM HORN.
CONNECT AND DIV 27 PROVIDE NEW PATCH CABLE.
OUTLET TO CAMERA EXIST 3 LOCATION. SECURITY SHALL INSTALL NEW DATA AND ACCESS CONTROL WIRING SHALL ORIGINATE FROM THIS ROOM.

EXISTING MDF ROOM WITH ACCESS CONTROL PANEL. ALL PATHWAY INTO THE BACK OF THE CAMERA MOUNT.
INTO THE ADJACENT CEILING SPACE FOR THE NEW PATCH PROJECT NO. AV DA SEC PDS
SERV. VESTIBULE

10. APPROXIMATE LOCATION OF INTERCOM CABINET.
8. APPROXIMATE LOCATION OF INTERCOM CABINET.
7. PROVIDE NEW 25' PATCH CABLE FROM EXISTING DATA DROP IN VESTIBULE TO THIS CAMERA LOCATION. SECURITY SHALL INSTALL NEW DATA AND ACCESS CONTROL WIRING SHALL ORIGINATE FROM THIS ROOM.
6. APPROXIMATE LOCATION OF INTERCOM CABINET.
5. EXISTING MDF ROOM WITH ACCESS CONTROL PANEL. ALL PATHWAY INTO THE BACK OF THE CAMERA MOUNT.
4. NEW DATA FOR SECURITY CAMERA CONNECTION INTO THE ADJACENT CEILING SPACE FOR THE NEW PATCH PROJECT NO. AV DA SEC PDS
SERV. VESTIBULE

3.07A
B2
ACS

3.01

1-GANG BACK BOX w/ 2-GANG CR

3.02A
B2
ACS

3.02

3.07

08

CR

1-GANG BACK BOX w/ 2-GANG CR

3.02B
B2
ACS

3.02C

TOILET

3.03

CR

TO CAMERA.
### Camera Schedule

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<thead>
<tr>
<th>Camera Number</th>
<th>Camera Type</th>
<th>Mounting Structure</th>
<th>Location</th>
<th>Room Number</th>
<th>Room Name</th>
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<tbody>
<tr>
<td>3-1</td>
<td>C1</td>
<td>Wall</td>
<td>At 9' 0&quot; AFF</td>
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<td>3.06 Corridor</td>
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<td>Exist-1</td>
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<td>Wall Mount At 12' 0&quot;</td>
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<td>Front Vestibule</td>
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<td>Ceiling</td>
<td>37 Interior Corridor</td>
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### Access Control Door Schedule

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<th>Hardware Type</th>
<th>Locking Hardware</th>
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<th>Detail</th>
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<td>Double</td>
<td>Mechanical Exit Device</td>
<td>Latch Retraction 1</td>
<td>Y 2/T5.3</td>
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<td>Mechanical Exit Device</td>
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<td>Y 2/T5.3</td>
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### Camera Type Schedule

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<th>Part #</th>
<th>General Description</th>
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<td>WV-S2531LN</td>
<td>EXTERIOR FIXED DOME CAMERA</td>
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<tr>
<td>S6</td>
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### Keynote Legend

- **EXIST**
- **EXISTING**
- **ACOUSTIC 'ABSORPTIVE'**
- **ACOUSTIC 'REFLECTIVE'**
- **SUSPENDED 5/8" GYPSUM BOARD**
- **SUSPENDED 5/8" TYPE 'X' GYPSUM BOARD**
- **TYPE I 2'-0" X 2'-0" LAY-IN SUSPENDED CEILING TILE**
- **TYPE II 2'-0" X 2'-0" LAY-IN SUSPENDED CEILING TILE**
- **TYPE III 2'-0" X 2'-0" LAY-IN SUSPENDED CEILING TILE**
- **TYPE IV 2'-0" X 2'-0" LAY-IN SUSPENDED CEILING TILE**
- **TYPE V 2'-0" X 2'-0" LAY-IN SUSPENDED CEILING TILE**
- **TYPE VI 2'-0" X 2'-0" LAY-IN SUSPENDED CEILING TILE**
- **TYPE VII 2'-0" X 2'-0" LAY-IN SUSPENDED CEILING TILE**
- **LINEAR WOOD SUSPENDED CEILING**
- **LINEAR WOOD COMPOSITE SOFFIT**
- **METAL SOFFIT PANELS**
- **PLASTER**
- **SOLID POLYMER SURFACING**
- **WOOD CEILING**

### Sheet Notes

- Reference Sheet TG1.1 for all symbols and project specific notes.
- Reference architectural drawings to verify all ceiling types and heights.

### Access Control Door Details

- **B2-1 Double Mechanical Exit Device**
- **Latch Retraction 1**
- **Y 2/T5.3**

### Project Information

**Rucker Elementary School Addition and Renovations**

- **Project No. AV DA SEC PDS**
- **RUCKER ELEMENTARY SCHOOL ADDITION AND RENOVATIONS**
- **PROSPER I.S.D.**
- **PROSPER, TEXAS**

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