



ADDENDUM 02

Colmer and Gautier Middle School Security Upgrades

Date: Wednesday, November 26, 2025

Project #: 0111.25.002

Project Name: Colmer and Gautier Middle School Security Upgrades
Colmer Middle School | 3112 Eden St., Pascagoula, MS 39581
Gautier Middle School | 1920 Graveline Rd., Gautier, MS 39553

Owner: Pascagoula-Gautier School District
1006 Communny Ave.
Pascagoula, MS 39567

To: All Prospective Bidders

From: Tyler Abell, EI

Bidders are hereby informed that the Project Manual and Drawings are modified as follows:

This Addendum forms a part of the Contract Documents and modifies the original Bidding Documents with a submittal signed and stamped date of October 29, 2025. It is the General Contractor's responsibility for providing proper acknowledgement and receipt of this Addendum in the Bid Forms/Document.

Attachments to this Addendum: As described herein.

Total Number of Pages in this Addendum: 25 Pages

PART A: GENERAL ADDENDUM, BIDDING, AND/OR PROJECT NOTES:

- A1. Pre-bid agenda
- A2. Pre-bid sign-in

PART B: CONTRACTOR QUESTIONS WITH RESPONSES (Responses are in RED)

Note: If you do not see your question answered, then we are still researching or working on a solution.

- B1. Will both entrances be able to be blocked during construction. **Provide temporary sidewalk as shown in exhibit. Access to main entrance shall be maintained throughout construction. The temporary sidewalk will be made of No. 57 stone for the duration of construction. It will be sodded over at the end of construction.**
- B2. When is the anticipated NTP? **NTP is anticipated for end of March at the beginning of intercession.**
- B3. Are the existing lights and camera at existing canopy to remain being replaced? **Only the indicated lights and cameras on the drawing will be replaced, which includes demolishing one camera and replacing one light on the existing canopy.**
- B4. I need some info on the type of Lock Box you are require on the single swing gates with panic bars they are asking what fire stations that will be responding to each school and what type they want in order to get a quote on the lock box. Can you help me with information. **The lock box comment on the civil drawings is referring to a cylinder lock unit on the fence/gate system. It is not referring to the specified KNOX box the fire department utilizes for key access.**

Addendum 02
Colmer and Gautier Middle School Security Upgrades

0111.25.002

B5. Can you please confirm permit fees will be waived for this project. **Yes, permit fees will be waived.**

PART C: DRAWING CLARIFICATIONS, REVISIONS, AND ADDITIONS:

- C1. Civil:
 - 1. EX-01 – Civil exhibit
- C2. Electrical: replace these sheets in their entirety.
 - 1. E003 – ELECTRICAL ABBREVIATIONS AND SCHEDULES
 - 2. E004 – ELECTRICAL DEMOLITION PLAN – COLMER MIDDLE SCHOOL
 - 3. E005 – ELECTRICAL DEMOLITION PLAN – GAUTIER MIDDLE SCHOOL
 - 4. E121 – ELECTRICAL LIGHTING PLAN – COLMER MIDDLE SCHOOL
 - 5. E122 – ELECTRICAL LIGHTING PLAN – GAUTIER MIDDLE SCHOOL

PART D: SPECIFICATION CLARIFICATIONS, REVISIONS, AND ADDITIONS

- D1. 004100 – Bid Form – Replace this section in its entirety.
- D2. 281000 – Access Controls

PART E: APPROVED PRODUCT/VENDOR EQUALS

- E1. Lighting Solutions is approved to bid the package.
- E2. Bell & McCoy Lighting and Controls is not an approved bidder on this package due to incorrect submittal procedures. Point to point photometrics were not included in the submittal (refer to sheet E003 specific notes).

END OF ADDENDUM 02



PRE-BID MEETING

Owner: Pascagoula-Gautier School District

Project: Colmer & Gautier Middle School Security Upgrades

Project #: 0111.25.002

A. Date/ Time:

1. Wednesday, November 19, 2025, 10:00 A.M

B. Pre-Bid Meeting Location:

1. ~~Colmer Middle School (front lobby), 3112 Eden Street, Pascagoula, MS 39581~~ Pascagoula-Gautier School District Central Office, 1006 Communny Avenue, Pascagoula, MS 39567 (per Addendum 01, 11.11.2025).
2. Site walkthrough will be conducted following the meeting.

C. Introductions:

1. Owner
 - a. Dr. Catteria Payton, Superintendent
 - b. Weber Parker, Director of Maintenance
2. Design Team
 - a. Brad Patano, Principal Engineer
 - b. Tyler Abell, Design Project Manager

D. Project Location:

1. Colmer Middle School: 3112 Eden Street, Pascagoula, MS 39581
2. Gautier Middle School: 1920 Graveline Road, Gautier, MS 39553

E. Project Description

1. This project consists of new secured entrances and fencing at Colmer Middle School and Gautier Middle School as described in the Construction Documents and Specifications.

F. Instructions to Bidders:

1. Sealed Bids inside an opaque envelope are due by 2:00 P.M on December 3, 2025. Late bids will be considered invalid.
2. Hand delivered or mail bids to Pascagoula-Gautier School District, 1006 Communny Avenue, Pascagoula, MS 39567. Electronic delivery will be accepted.
3. Provide 2 copies of all submission documents.
4. 5% Bid Bond will be required.
5. Mark the outside of the envelope clearly with the following information:
 - a. Project Name
 - b. Bid Date
 - c. Company Name
 - d. Company Address
 - e. All applicable state license and certificate numbers
 - f. Certificate of Responsibility Number is required for bids over \$50,000.
 - g. No modifications may be made to the bid on the outside of the envelope.
 - h. All questions must be submitted electronically via email to Brad Patano (bpatano@mpdesigngroup.us) or Tyler Abell (tabel@mpdesigngroup.us).
 - i. All addenda will be issued electronically via Plan House Plan Room. It is GC's responsibility to register with Plan House to make sure they have the latest documents.

G. Addenda:

1. Addendum 01, November 11, 2025

H. Allowances: [Refer to Specification- 012100]

1. **General Contingency Allowance: \$200,000.00**

I. Permits & Regulatory Requirements: [Refer to Specification- 011000]

1. All building permits, including all special subcontractor permits, will be required for this project. The General Contractor will be required to apply for, pull all permits in their name.

J. Work By Owner (NIC): [Refer to Specification-011000]

1. Owner will remove the following items before start of work:
 - a. All loose items and furniture
2. Some items will be furnished and installed by Owner under separate contracts. Contractors shall coordinate and cooperate with these separate contractors including scheduling, delivery and installation dates, storage of materials, and use of utilities.
 - a. Loose Furniture
 - b. Security Cameras

K. Alternates: [Refer to Specification- 004100]

1. Alternate #1: provide alternate fencing product as indicated in construction documents.

L. Unit Prices: [Refer to Specification- 012200]

1. Not applicable.

M. Time of Completion: [Refer to Specification-004100]

1. 240 Calendar Days
2. The Contract Time for the project has incorporated days for inclement weather. No inclement weather days will be allowed during the project duration.

N. Liquidated Damages: [Refer to Specification-004100]

1. Up to \$500.00 per calendar day

O. Substitutions [Refer to Specification- 002113 & 021500]

1. Where bid documents stipulate a particular product, substitutions will be considered up to 7 days before receipt of bids.

P. Work Constraints: [Refer to Specification-011000]

1. All work shall be performed in a professional manner and workmanlike manner.
2. The contractor will be expected to cooperate with the owner and his representative in pursuing work continuously and with the highest degree of efficiency possible.
3. The Contractor will be required to finish the job and leave the site in a condition similar to starting project.
4. Interruptions to utility services shall be minimized. Necessary outages shall be coordinated with the Owner a minimum of 10 days in advance of the planned outage.
5. The owner intends to continue to occupy adjacent portions of the existing building during the entire construction period.
6. Workmen shall be limited to the use of only those areas necessary to perform the work.
7. Owner intends to occupy the project upon Substantial Completion.
8. Contractor shall cooperate with Owner to minimize conflict and to facilitate Owner's operations.
9. The contractor shall take all necessary and prudent safety precautions to ensure the safety of the workforce and other exposed personnel.

10. Construction operations shall be limited to areas permitted by law, ordinances, permits and contract documents.
11. Do not obstruct roadways, sidewalks, or other public ways without permit and/or permission by Owner.
12. Deliveries and access to the project site is not available during the student drop off/unloading and pick up/loading times in the morning hours of 7:15 A.M to 8:00 A.M and during the afternoon hours of 3:15-4:00 P.M. The General Contractor shall coordinate with the Owner and not schedule or maneuver equipment during this time as not to obstruct traffic flow of buses and parents entering and exiting the school grounds during these time frames.
13. Existing building spaces and portions of the site not occupied by the Owner for daily use may not be used for storage.
14. The contractor shall not unreasonably encumber the site with materials or equipment.
15. Smoking and other tobacco products, including vaping, are prohibited within and outside of all buildings. This applies to ALL buildings, including the project site, during all times of construction.
16. No deadly weapons of any kind are permitted on the property.
17. No alcoholic beverages of any kind are permitted on the property.
18. Limit disruption of utility services to hours the existing surrounding building is unoccupied
19. Do not disrupt or shut down life safety systems, including but not limited to fire sprinklers and fire alarm system, without 7 days notice to Owner and authorities having jurisdiction.
20. Prevent accidental disruption of utility services to other facilities.

Q. Administrative Requirements:

1. The contractor will be required to utilize the Architect/Engineer's web-based construction project management collaboration software to submit, track, distribute, and collaborate on project documentation and action items (Procore).
2. Access to said software will be provided by the Architect/Engineer at no cost to the General Contractor. If unfamiliar, the Architect/Engineer's staff will assist the General Contractor in using the software.
3. Contractor shall not remove people from a set distribution list that preloads on RFIs and Submittals.
4. The Engineer/Architect will coordinate with the Owner and the General Contractor and will schedule a meeting within 7-14 days after the contracts for construction have been executed (pre-construction meeting).
5. The meeting will occur before the Notice to Proceed is issued.
6. The General Contractor will be responsible for running this meeting.
7. A draft of the agenda must be sent to the Architect/Engineer at least 72 hours prior to the meeting for review & approval.
8. The General Contractor will be required to record minutes and distribute digital copies within 2 days after meeting to the participants and any additional individuals that may be affected by decisions made.
9. The General Contractor shall schedule and administer meetings throughout the progress of the work at MAXIMUM monthly intervals.
10. The General Contractor shall make arrangements for these meetings, prepare an agenda with copies for the participants, preside at the meetings, and record minutes. Copies shall be distributed within 2 days after the meeting, with 2 copies to the Engineer/Architect and Owner.

R. Temporary Facilities and Controls: [Refer to Specification-011000]

1. The contractor shall provide and pay for every utility required to complete construction including but not limited to all electrical power, lighting, water, heating, cooling, sanitary, waste, and ventilation. The general contractor will be required to continue to pay all costs associated with these temporary utilities until a Certificate of Occupancy has been issued from the authority having jurisdiction to the owner.
2. Existing utilities may not be used.



David J. Machado, PE
 Brad P. Patano, PE
 Gerrod W. Kilpatrick, PE
 Bradford A. Jones, AIA

YOUR PROJECT • OUR PRIORITY • NO EXCUSES

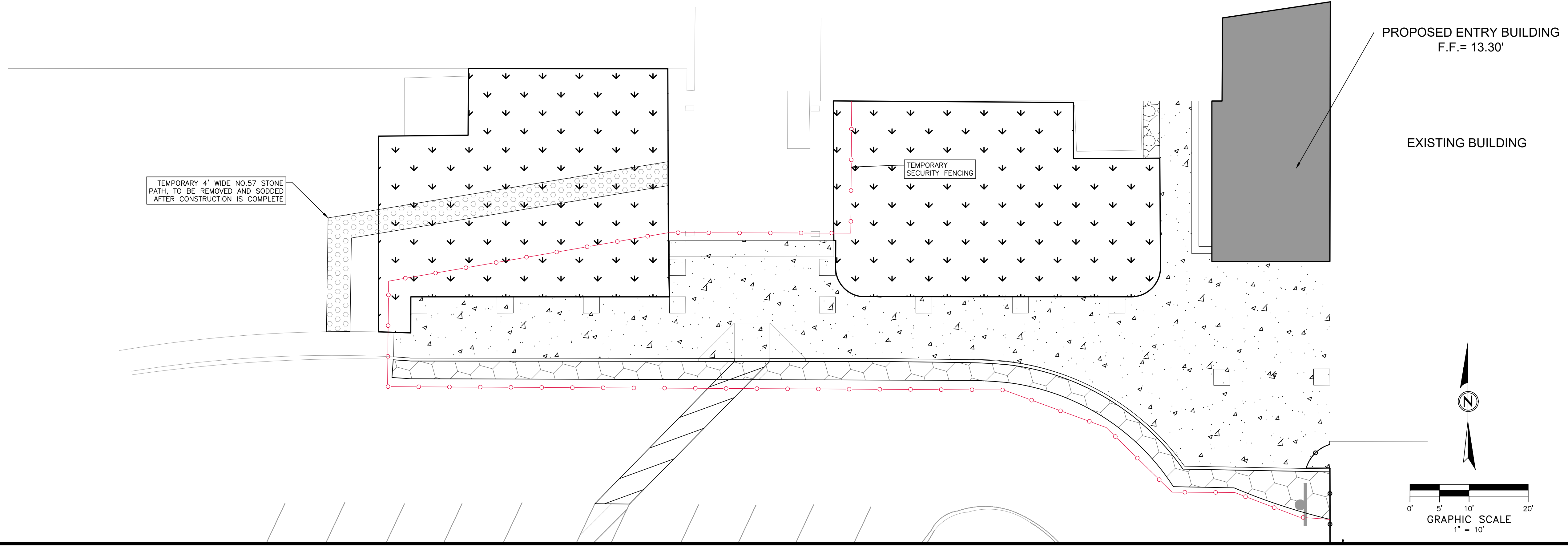
Pascagoula-Gautier School District Colmer & Gautier Middle School Security Upgrades

Pre-Bid Meeting Sign In Sheet
 Wednesday, November 19, 2025 | 10:00 A.M

| Name and Company Name | Email Address | Phone Number |
|------------------------------|--|--------------|
| Tyler Abell, MP Design Group | tabell@mpdesigngroup.us | 228-388-1950 |
| Wesley Parker | PGSD | 228-381-0001 |
| Jim Roe | JIM@COASTALFIREANDSAFETY.COM | 228 327-0563 |
| John Rollins /VISION | JROLLINS@VISIONCONSTRUCTORS.INC.COM | 228 832-1182 |
| Brandon Dickens | bdickens@mpdesigngroup.us | 601-723-1101 |
| Tim Stewart Stewart Const | STEWARTCONST93@YAHOO | 228-769-8977 |
| Mike Roberson | MIKE@ROBERSONCONST.COM | 601.906.7949 |
| Daniel Scarborough | Daniel@RobersonConst.com | 601-832-3890 |
| Jeff Dixon Jr | jeffdixonjredixoncontractinggroupllc.com | 601.215.4925 |
| Justin Dixon | justin@dixoncontractinggroupllc.com | 601 590 0742 |
| John Quave | John.Quave@skyfreg.com | 601-862-1659 |
| Bill Yockey | Bill@shawnparkerconstruction.com | 615-406-7993 |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |

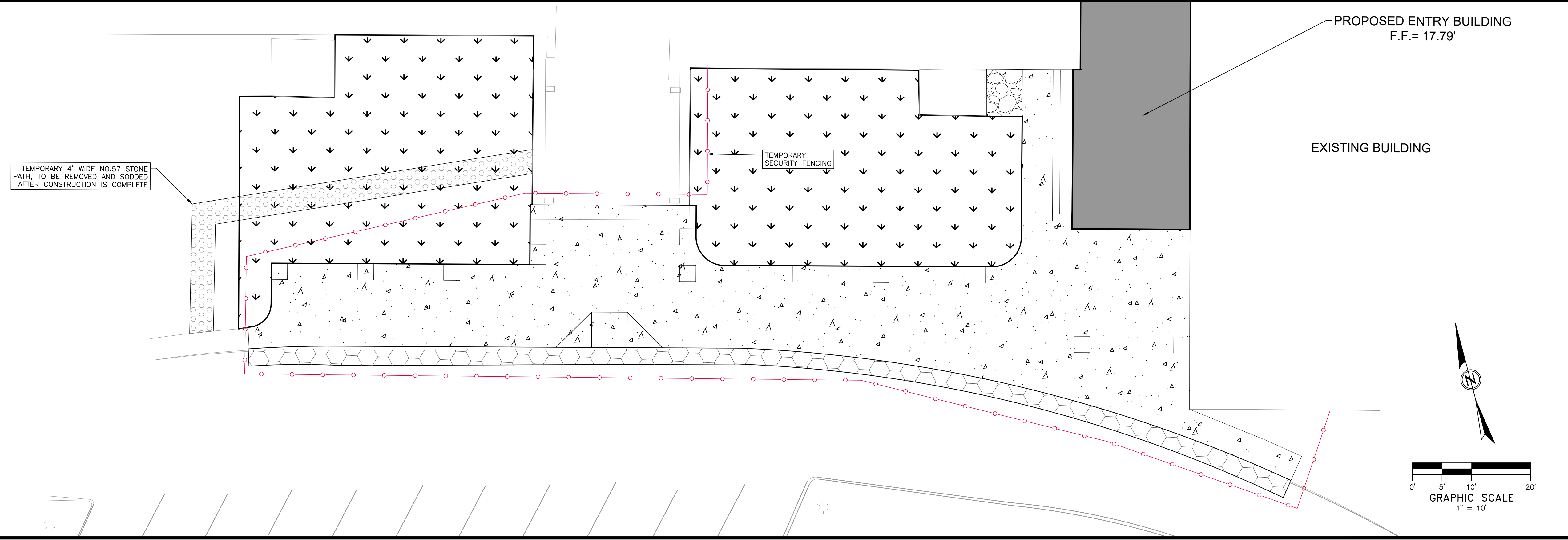
PRINTED: 11/25/2025 9:02 AM BY: Adam Ritter LAST SAVED: 11/25/2025 9:02 AM BY: Ritter
 m:\0111_pascagoula school district\0111.25.002_colmer & gautier middle security upgrades\02-civil\03-production drawings\pgsd_security_upgrades_rev.dwg

EXISTING BUILDING



1 COLMER MIDDLE SCHOOL

EXISTING BUILDING



2 GAUTIER MIDDLE SCHOOL

MP
 DESIGN GROUP
 MACHADO · PATANO · KILPATRICK · JONES
 918 Howard Ave Suite F
 Biloxi, Mississippi 39530
 P: 228.388.1950
 www.mpdesigngroup.us

YOUR PROJECT - OUR PRIORITY - NO EXCUSES
 © COPYRIGHTED MATERIAL

 11.25.2025

**COLMER AND GAUTIER MIDDLE SCHOOL
 SECURITY UPGRADES**
PASCAGOULA-GAUTIER SCHOOL DISTRICT
 MULTIPLE SITE LOCATIONS

| | |
|-------------|--------------|
| SCALE: | AS INDICATED |
| PROJECT NO: | 0111.25.002 |
| DRAWN BY: | ALR |
| CHECKED BY: | JGP |

SITE EXHIBITS

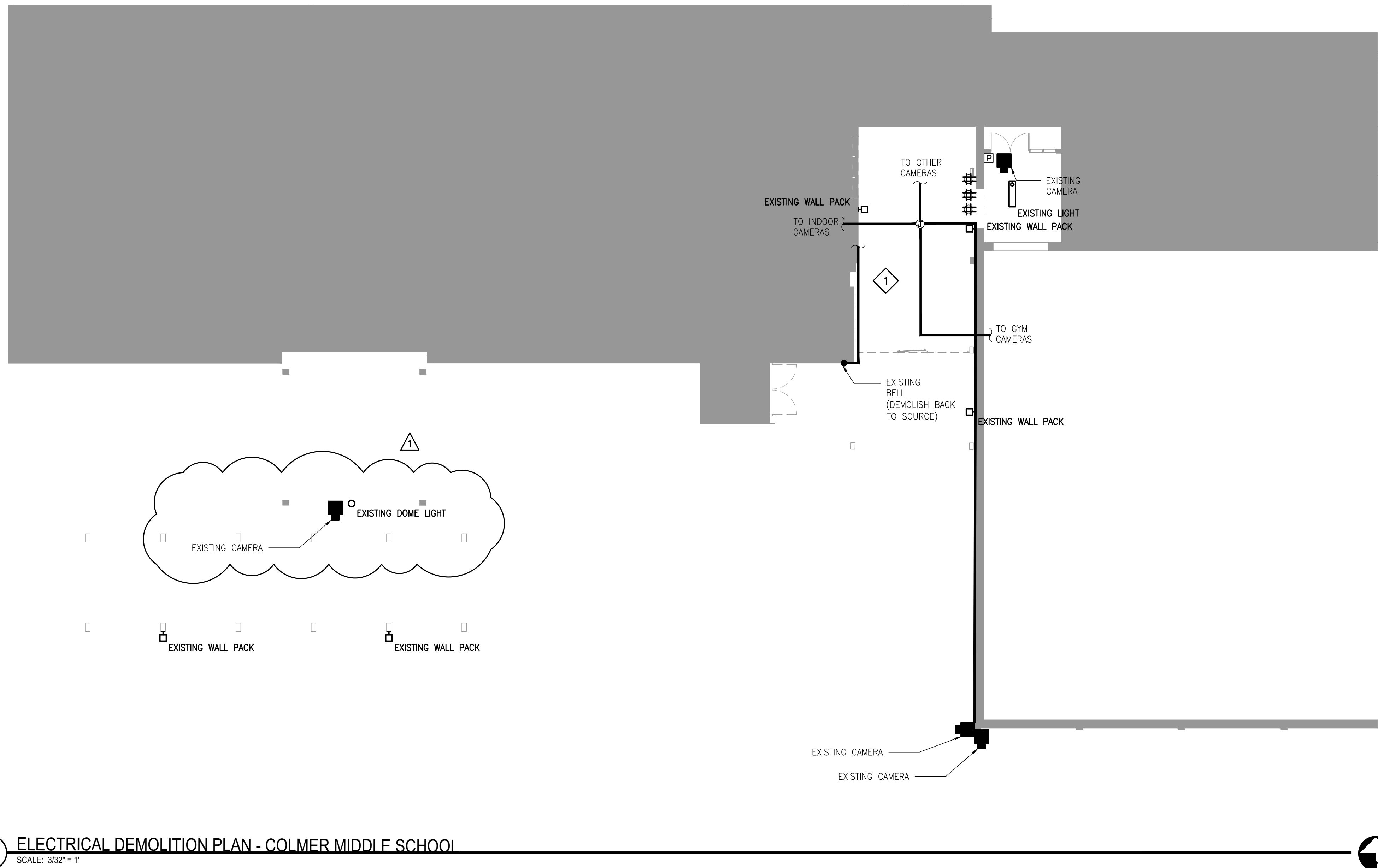
| NO. | DATE | REVISION / SUBMITTAL |
|-----|------|----------------------|
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |

EX-01
 VERIFY SCALES
 BAR IS ONE INCH ON ORIGINAL DRAWING
 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

THE ORIGINAL SIGNED, DATED AND SEALED ENGINEERING PLANS ARE THE OFFICIAL DOCUMENTS SUBMITTED TO THE APPROVING AUTHORITY FOR THESE PLANS. CONTRACTOR / SUBCONTRACTOR / AND/OR OWNER SHALL CONSULT ENGINEERS PLANS TO VERIFY ANY CONDITIONS OR RESTRICTIONS THAT MAY HAVE BEEN REQUIRED BY THE APPROVING AUTHORITY OR APPROVED BY THE REGISTERED ENGINEER OF RECORD. IF DISCREPANCIES OCCUR, THE ORIGINAL SIGNED, DATED AND SEALED ENGINEERED PLAN SET SHALL OVERRIDE ANY OTHER PLANS, THE DRAWINGS, DETAILS, AND NOTES THAT APPEAR ON THIS SHEET ARE COPYRIGHTED BY MACHADO | PATANO, P.L.L.C. AND CLAIM ALL RIGHTS OF THE COPYRIGHT LAWS.

PRINTED: 11/26/2025 9:17 AM BY: Brandon Dickens LAST SAVED: 11/26/2025 9:12 AM BY: Bdicckens
 m:\0111_pascagoula school district\0111.25.002_colmer & gautier middle security upgrades\06-electrical\02-production drawings\colmer and gautier elec.dwg

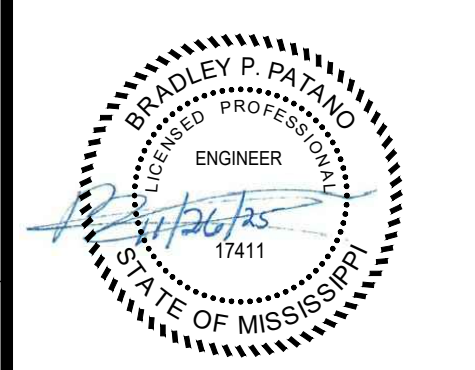
1 ELECTRICAL DEMOLITION PLAN - COLMER MIDDLE SCHOOL
 SCALE: 3/32" = 1"



- DRAWING E004 NOTES**
1. VERIFY WITH OWNER BEFORE DISPOSAL OF ALL ELECTRICAL MATERIAL.
 2. ENSURE THAT ALL DEVICES STILL IN USE ARE ENERGIZED AFTER ALL WORK IS COMPLETED.
 3. DEMOLISH ALL INDICATED LIGHTING, CAMERAS, FIRE ALARM DEVICES, BELLS, CONDUIT, AND ALL OTHER ELECTRICAL AND SPECIAL SYSTEMS EQUIPMENT INDICATED. DEMOLISH ALL CONDUCTOR AND ALL ABOVE GRADE CONDUIT BACK TO SOURCE. ABANDON ALL BELOW GRADE CONDUIT IN PLACE.
 4. LABEL ALL UNUSED BREAKERS AS SPARE.

- DRAWING E004 SPECIFIC NOTES**
- 1 CONTRACTOR SHALL DEMOLISH ALL CONDUIT AND CABLE FOR CAMERAS UNDER THE BREEZEWAY THAT WILL NOT BE CONCEALED BY THE NEW CEILING ONCE CONSTRUCTION IS COMPLETED. COORDINATE WITH THE ARCHITECTURAL DRAWINGS FOR AREAS TO BE CONCEALED. CONTRACTOR SHALL PROVIDE AND INSTALL ALL MATERIALS TO ENSURE THAT ALL CAMERAS REMAIN OPERATIONAL UPON COMPLETION OF CONSTRUCTION.

MP DESIGN GROUP
 MACHADO · PATANO · KILPATRICK · JONES
 918 Howard Ave Suite F
 Biloxi, Mississippi 39530
 P: 228.388.1950
 www.mpdesigngroup.us



**COLMER AND GAUTIER MIDDLE SCHOOL
 SECURITY UPGRADES**
PASCAGOULA-GAUTIER SCHOOL DISTRICT
 MULTIPLE SITE LOCATIONS

SCALE: AS INDICATED
 PROJECT NO: 0111.25.002
 DRAWN BY: BDD
 CHECKED BY: KDB

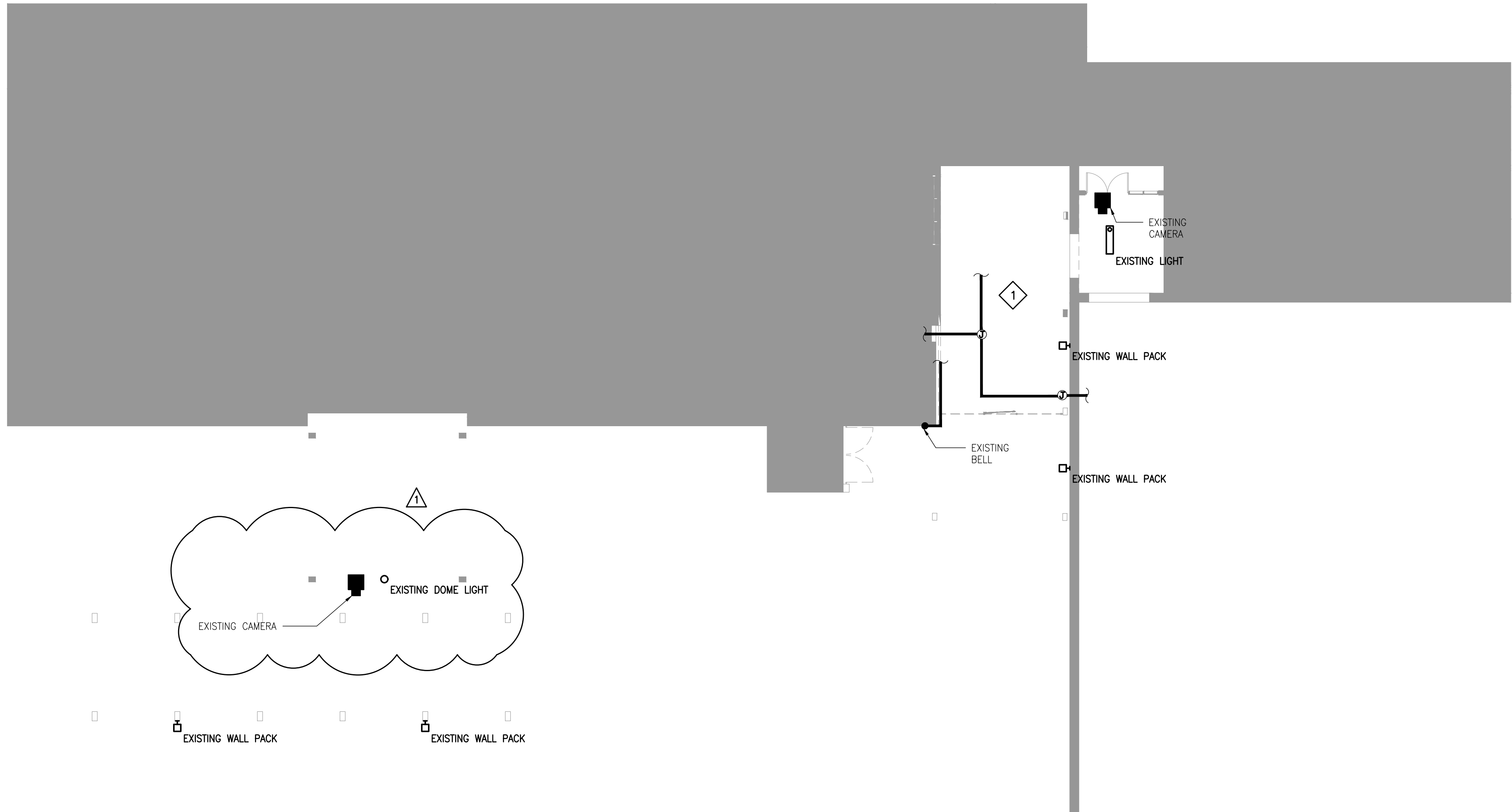
**ELECTRICAL DEMOLITION PLAN -
 COLMER MIDDLE SCHOOL**

| NO. | DATE | REVISION / SUBMITTAL |
|-------|------------|-------------------------|
| REV 0 | 10/29/2025 | ISSUED FOR CONSTRUCTION |
| REV 1 | 11/26/2025 | ADDENDUM 01 |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |

E004
 VERIFY SCALES
 BAR IS ONE INCH ON ORIGINAL DRAWING
 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

THE ORIGINAL SIGNED, DATED AND SEALED ENGINEERING PLANS ARE THE OFFICIAL DOCUMENTS SUBMITTED TO THE APPROVING AUTHORITY FOR THESE PLANS. CONTRACTOR / SUBCONTRACTOR / AND/OR OWNER SHALL CONSULT ENGINEERED PLANS TO VERIFY ANY CONDITIONS OR RESTRICTIONS THAT MAY HAVE BEEN REQUIRED BY THE APPROVING AUTHORITY OR APPROVED BY THE REGISTERED ENGINEER OF RECORD. IF DISCREPANCIES OCCUR, THE ORIGINAL SIGNED, DATED AND SEALED ENGINEERED PLAN SET SHALL OVERRIDE ANY OTHER PLANS, THE DRAWINGS, DETAILS, AND NOTES THAT APPEAR ON THIS SHEET ARE COPYRIGHTED BY MACHADO | PATANO, P.L.L.C. AND CLAIM ALL RIGHTS OF THE COPYRIGHT LAWS. © COPYRIGHTED MATERIAL

PRINTED: 11/26/2025 9:17 AM BY: Brandon Dickens LAST SAVED: 11/26/2025 9:12 AM BY: Bdictkens
 m:\0111_pascagoula school district\0111.25.002_colmer & gautier middle security upgrades\06-electrical\02--production\01--production drawings\colmer and gautier elec.dwg



1 ELECTRICAL DEMOLITION PLAN - GAUTIER MIDDLE SCHOOL
 SCALE: 3/32" = 1"

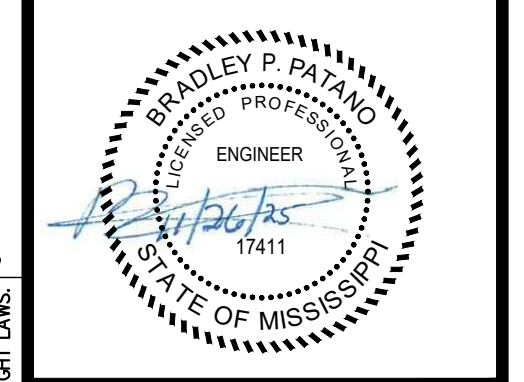
DRAWING E005 NOTES

1. VERIFY WITH OWNER BEFORE DISPOSAL OF ALL ELECTRICAL MATERIAL.
2. ENSURE THAT ALL DEVICES STILL IN USE ARE ENERGIZED AFTER ALL WORK IS COMPLETED.
3. DEMOLISH ALL INDICATED LIGHTING, CAMERAS, FIRE ALARM DEVICES, BELLS, CONDUIT, AND ALL OTHER ELECTRICAL AND SPECIAL SYSTEMS EQUIPMENT INDICATED. DEMOLISH ALL CONDUCTOR AND ALL ABOVE GRADE CONDUIT BACK TO SOURCE. ABANDON ALL BELOW GRADE CONDUIT IN PLACE.
4. LABEL ALL UNUSED BREAKERS AS SPARE.

DRAWING E005 SPECIFIC NOTES

1 CONTRACTOR SHALL DEMOLISH ALL CONDUIT AND CABLE FOR CAMERAS UNDER THE BREEZEWAY THAT WILL NOT BE CONCEALED BY THE NEW CEILING ONCE CONSTRUCTION IS COMPLETED. COORDINATE WITH THE ARCHITECTURAL DRAWINGS FOR AREAS TO BE CONCEALED. CONTRACTOR SHALL PROVIDE AND INSTALL ALL MATERIALS TO ENSURE THAT ALL CAMERAS REMAIN OPERATIONAL UPON COMPLETION OF CONSTRUCTION.

MP DESIGN GROUP
 MACHADO · PATANO · KILPATRICK · JONES
 918 Howard Ave Suite F
 Biloxi, Mississippi 39530
 P: 228.388.1950
 www.mpdesigngroup.us



COLMER AND GAUTIER MIDDLE SCHOOL SECURITY UPGRADES
PASCAGOULA-GAUTIER SCHOOL DISTRICT
 MULTIPLE SITE LOCATIONS

SCALE: AS INDICATED
 PROJECT NO: 0111.25.002
 DRAWN BY: BDD
 CHECKED BY: KDB

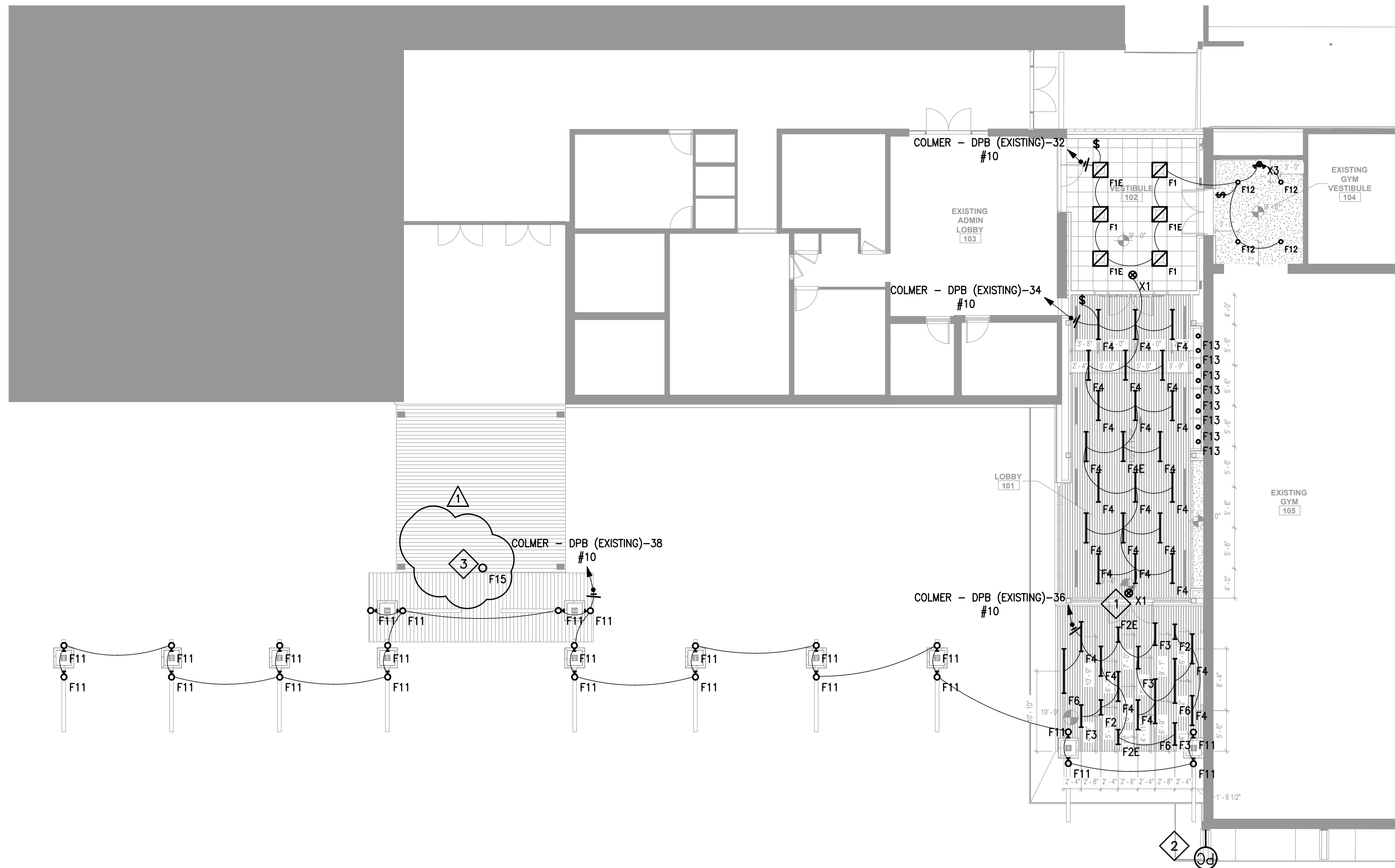
ELECTRICAL DEMOLITION PLAN - GAUTIER MIDDLE SCHOOL

| NO. | DATE | REVISION / SUBMITTAL |
|-------|------------|-------------------------|
| REV 0 | 10/29/2025 | ISSUED FOR CONSTRUCTION |
| REV 1 | 11/26/2025 | ADDENDUM 01 |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |

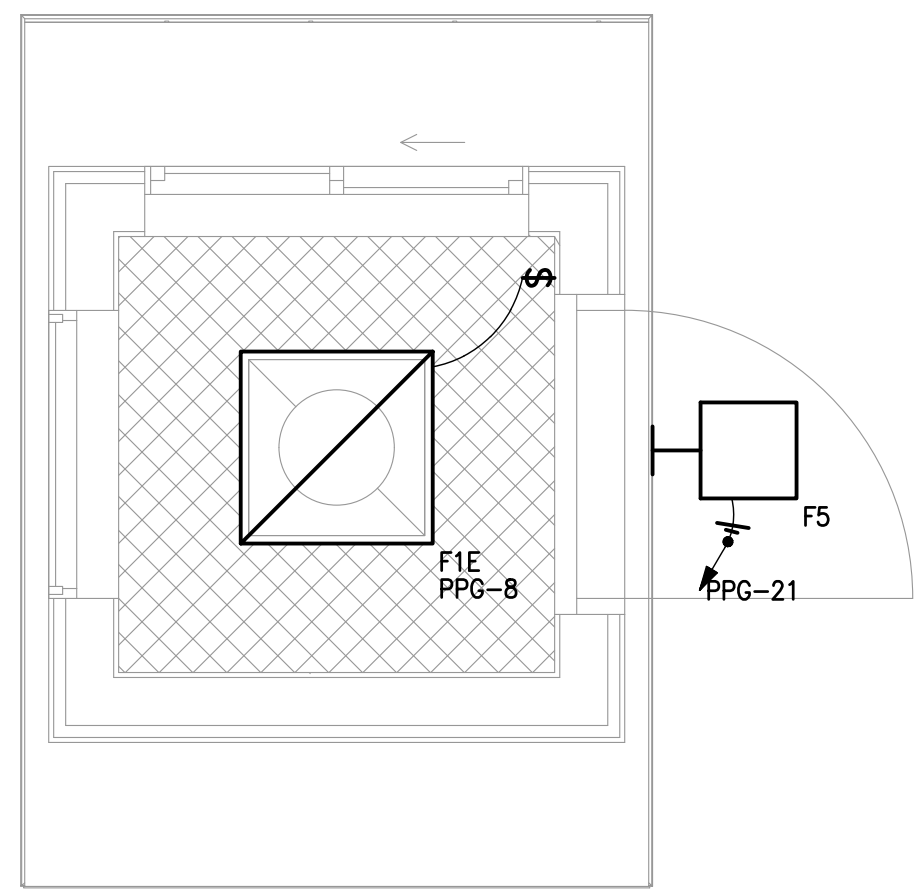
E005
 VERIFY SCALES
 BAR IS ONE INCH ON ORIGINAL DRAWING
 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

THE ORIGINAL SIGNED, DATED AND SEALED ENGINEERING PLANS ARE THE OFFICIAL DOCUMENTS SUBMITTED TO THE APPROVING AUTHORITY FOR THESE PLANS. CONTRACTOR / SUBCONTRACTOR / AND/OR OWNER SHALL CONSULT ENGINEERED PLANS TO VERIFY ANY CONDITIONS OR RESTRICTIONS THAT MAY HAVE BEEN REQUIRED BY THE APPROVING AUTHORITY OR APPROVED BY THE REGISTERED ENGINEER OF RECORD. IF DISCREPANCIES OCCUR, THE ORIGINAL SIGNED, DATED AND SEALED ENGINEERED PLAN SET SHALL OVERRIDE ANY OTHER PLANS, THE DRAWINGS, DETAILS, AND NOTES THAT APPEAR ON THIS SHEET ARE COPYRIGHTED BY MACHADO | PATANO, P.L.L.C. AND CLAIM ALL RIGHTS OF THE COPYRIGHT LAWS. © COPYRIGHTED MATERIAL

PRINTED: 11/26/2025 9:17 AM BY: Brandon Dickens LAST SAVED: 11/26/2025 9:12 AM BY: Bdictkens
 m:\0111_pascagoula school district\0111.25.002_colmer & gautier middle security upgrades\06-electrical\02-production drawings\colmer and gautier elec.dwg



1 ELECTRICAL LIGHTING PLAN - COLMER MIDDLE SCHOOL
 SCALE: 3/32" = 1"



3 LIGHTING PLAN - GUARD SHACK
 SCALE: 1/2" = 1"

DRAWING E121 NOTES

1. ALL LIGHTING CIRCUITS SHALL BE #12 AWG UNLESS OTHERWISE NOTED. IF MORE THAN 100'-0" TO THE FIRST CURRENT-CONSUMING DEVICE, THEN CONDUCTOR SHALL BE #10 AWG.
2. REFERENCE ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT MOUNTING LOCATIONS IN ARCHITECTURAL FINISHES.
3. REFERENCE ARCHITECTURAL PLANS FOR EXACT MOUNTING HEIGHTS OF LIGHT FIXTURES.
4. ROUTE CIRCUIT DPB-36 AND DPB-38 THROUGH THE LIGHTING CONTACTOR LC-2. REFER TO E501 FOR DETAILS.
5. ROUTE CIRCUIT PPG-21 THROUGH THE LIGHTING CONTACTOR LC-1. REFER TO E501 FOR DETAILS.
6. F11 FIXTURES SHALL BE MOUNTED AT 8'-0" AFF.
7. CONTRACTOR SHALL COORDINATE WITH ALL OTHER TRADES FOR EXACT MOUNTING LOCATIONS AND HEIGHTS FOR ALL NEW LIGHTS.

DRAWING E121 SPECIFIC NOTES

1. EXIT SIGN SHALL BE INSTALLED ON A BLACK PAINTED ROD CONNECTED TO THE STRUCTURE ABOVE. ROD SHALL BE CERTIFIED AS A UL LISTED RACEWAY. MOUNT EXIT SIGN NO MORE THAN 80" ABOVE THE DOOR.
2. PHOTOCELL PROVIDES LIGHTING CONTROL FOR LC-2. MOUNT ON THE CORNER OF THE GYM AS HIGH AS POSSIBLE.
3. CONTRACTOR SHALL UTILIZE EXISTING LIGHT FEED FOR NEW F15 FIXTURE.

MP DESIGN GROUP
 MACHADO · PATANO · KILPATRICK · JONES
 918 Howard Ave Suite F
 Biloxi, Mississippi 39530
 P: 228.388.1950
 www.mpdesigngroup.us

BRADLEY P. PATANO
 LICENSED PROFESSIONAL ENGINEER
 STATE OF MISSISSIPPI
 17411

COLMER AND GAUTIER MIDDLE SCHOOL
 SECURITY UPGRADES
 PASCAGOULA-GAUTIER SCHOOL DISTRICT
 MULTIPLE SITE LOCATIONS

SCALE AS INDICATED
 PROJECT NO: 0111.25.002
 DRAWN BY: BDD
 CHECKED BY: KDB

ELECTRICAL LIGHTING PLAN -
 COLMER MIDDLE SCHOOL

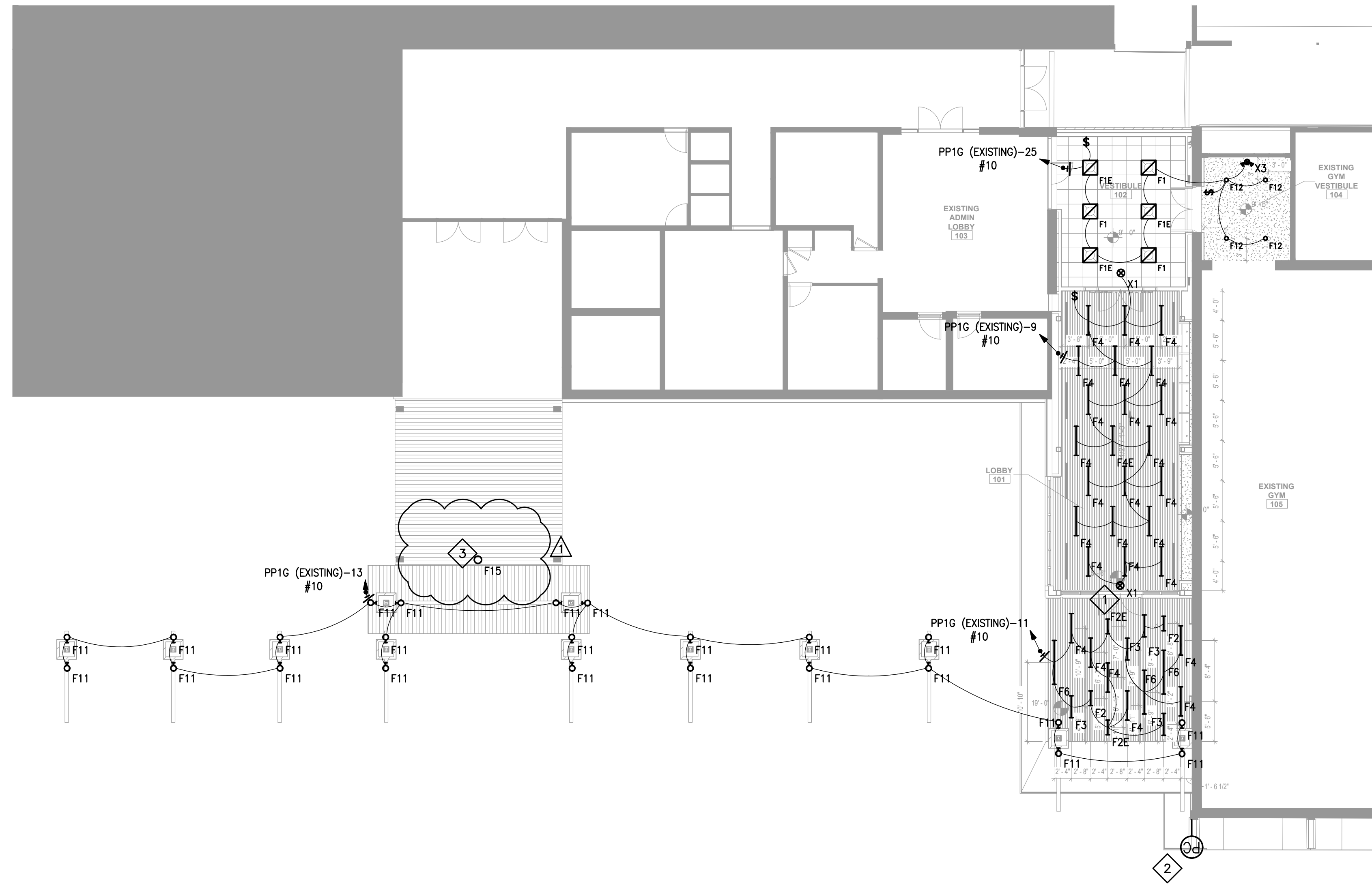
| NO. | DATE | REVISION / SUBMITTAL |
|-------|------------|-------------------------|
| REV 0 | 10/29/2025 | ISSUED FOR CONSTRUCTION |
| REV 1 | 11/26/2025 | ADDENDUM 01 |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |

E121
 VERIFY SCALES
 BAR IS ONE INCH ON ORIGINAL DRAWING
 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

THE ORIGINAL SIGNED, DATED AND SEALED ENGINEERING PLANS ARE THE OFFICIAL DOCUMENTS SUBMITTED TO THE APPROVING AUTHORITY FOR THESE PLANS. CONTRACTOR / SUBCONTRACTOR / AND/OR OWNER SHALL CONSULT ENGINEERED PLANS TO VERIFY ANY CONDITIONS OR RESTRICTIONS THAT MAY HAVE BEEN REQUIRED BY THE APPROVING AUTHORITY OR APPROVED BY THE REGISTERED ENGINEER OF RECORD. IF DISCREPANCIES OCCUR, THE ORIGINAL SIGNED, DATED AND SEALED ENGINEERED PLAN SET SHALL OVERRIDE ANY OTHER PLANS, THE DRAWINGS, DETAILS, AND NOTES THAT APPEAR ON THIS SHEET ARE COPYRIGHTED BY MACHADO | PATANO, P.L.L.C. AND CLAIM ALL RIGHTS OF THE COPYRIGHT LAWS. © COPYRIGHTED MATERIAL

PRINTED: 11/26/2025 9:17 AM BY: Brandon Dickens LAST SAVED: 11/26/2025 9:12 AM BY: Bdicikens
 m:\0111_pascagoula school district\0111.25.002_colmer & gautier middle security upgrades\06-electrical\02-production drawings\colmer and gautier elec.dwg

1 ELECTRICAL LIGHTING PLAN - GAUTIER MIDDLE SCHOOL
 SCALE: 3/32" = 1"



- DRAWING E122 NOTES**
1. ALL LIGHTING CIRCUITS SHALL BE #12 AWG UNLESS OTHERWISE NOTED. IF MORE THAN 100'-0" TO THE FIRST CURRENT-CONSUMING DEVICE, THEN CONDUCTOR SHALL BE #10 AWG.
 2. REFERENCE ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT MOUNTING LOCATIONS IN ARCHITECTURAL FINISHES.
 3. REFERENCE ARCHITECTURAL PLANS FOR EXACT MOUNTING HEIGHTS OF LIGHT FIXTURES.
 4. ROUTE CIRCUIT PP1G-13 AND PP1G-15 THROUGH THE LIGHTING CONTACTOR LC-1. REFER TO E501 FOR DETAILS.
 5. F11 FIXTURES SHALL BE MOUNTED AT 8'-0" AFF.
 6. CONTRACTOR SHALL COORDINATE WITH ALL OTHER TRADES FOR EXACT MOUNTING LOCATIONS AND HEIGHTS FOR ALL NEW LIGHTS.

- DRAWING E122 SPECIFIC NOTES**
1. EXIT SIGN SHALL BE INSTALLED ON A BLACK PAINTED ROD CONNECTED TO THE STRUCTURE ABOVE. ROD SHALL BE CERTIFIED AS A UL LISTED RACEWAY. MOUNT EXIT SIGN NO MORE THAN 80" ABOVE THE DOOR.
 2. PHOTOCELL PROVIDES LIGHTING CONTROL FOR LC-2. MOUNT ON THE CORNER OF THE GYM AS HIGH AS POSSIBLE.
 3. CONTRACTOR SHALL UTILIZE EXISTING LIGHT FEED FOR NEW F15 FIXTURE.

MP DESIGN GROUP
 MACHADO · PATANO · KILPATRICK · JONES
 918 Howard Ave Suite F
 Biloxi, Mississippi 39530
 P: 228.388.1950
 www.mpdesigngroup.us

BRADLEY P. PATANO
 LICENSED PROFESSIONAL ENGINEER
 STATE OF MISSISSIPPI
 17411

COLMER AND GAUTIER MIDDLE SCHOOL SECURITY UPGRADES
PASCAGOULA-GAUTIER SCHOOL DISTRICT
 MULTIPLE SITE LOCATIONS

SCALE: AS INDICATED
 PROJECT NO: 0111.25.002
 DRAWN BY: BDD
 CHECKED BY: KDB

ELECTRICAL LIGHTING PLAN - GAUTIER MIDDLE SCHOOL

| NO. | DATE | REVISION / SUBMITTAL |
|-------|------------|-------------------------|
| REV 0 | 10/29/2025 | ISSUED FOR CONSTRUCTION |
| REV 1 | 11/26/2025 | ADDENDUM 01 |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |

E122
 VERIFY SCALES
 BAR IS ONE INCH ON ORIGINAL DRAWING
 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

THE ORIGINAL SIGNED, DATED AND SEALED ENGINEERING PLANS ARE THE OFFICIAL DOCUMENTS SUBMITTED TO THE APPROVING AUTHORITY FOR THESE PLANS. CONTRACTOR / SUBCONTRACTOR / AND/OR OWNER SHALL CONSULT ENGINEERED PLANS TO VERIFY ANY CONDITIONS OR RESTRICTIONS THAT MAY HAVE BEEN REQUIRED BY THE APPROVING AUTHORITY OR APPROVED BY THE REGISTERED ENGINEER OF RECORD. IF DISCREPANCIES OCCUR, THE ORIGINAL SIGNED, DATED AND SEALED ENGINEERED PLAN SET SHALL OVERRIDE ANY OTHER PLANS, THE DRAWINGS, DETAILS, AND NOTES THAT APPEAR ON THIS SHEET ARE COPYRIGHTED BY MACHADO | PATANO, P.L.L.C. AND CLAIM ALL RIGHTS OF THE COPYRIGHT LAWS. © COPYRIGHTED MATERIAL

**SECTION 004100
BID FORM**

THE PROJECT AND THE PARTIES

1.01 TO:

- A. Pascagoula-Gautier School District (Owner)
1006 Communy Ave., Pascagoula, MS 39567

1.02 FOR:

- A. Project: Colmer and Gautier Middle School Security Upgrades
Engineer/Architect Project Number: 0111.25.002
3112 Eden St, Pascagoula, MS 39581
1920 Graveline Rd, Gautier, MS 39553

1.03 DATE: _____ (BIDDER TO ENTER DATE)

1.04 SUBMITTED BY: (BIDDER TO ENTER NAME AND ADDRESS)

- A. Bidder's Full Name _____
1. Address _____
2. City _____ State _____, Zip _____

1.05 OFFER

- A. Having examined the Place of The Work and all matters referred to in the Instructions to Bidders and the Contract Documents prepared by MP Design Group for the above mentioned project, we, the undersigned, hereby offer to enter into a Contract to perform the Work, within the time set forth herein for the Sum of:

B. BASE BID LUMP SUM PRICE:

_____ dollars
(\$ _____), in lawful money of the United States of America.

C. BID ALTERNATE NO. 01

MUST CIRCLE ONE: ADDITIVE ALTERNATE DEDUCTIVE ALTERNATE

_____ dollars
(\$ _____), in lawful money of the United States of America.

- D. We have included the required security deposit as required by the Instruction to Bidders.
- E. We have included the required Non Collusive Affidavit Form as required by the Instructions to Bidders.
- F. We have included the required performance assurance bonds in the Bid Amount as required by the Instructions to Bidders.
- G. We have included the cost of all local jurisdiction building permits required to complete the construction of this project in our Base Bid amount unless specifically called for otherwise in Section 012100 Allowances.
- H. All applicable federal taxes are included and state of Mississippi taxes are included in the Bid Sum.
- I. All Cash and Contingency Allowances described in Section 012100 - Allowances are included in the Bid Sum.

1.06 ACCEPTANCE

- A. This offer shall be open to acceptance and is irrevocable for sixty days from the bid closing date.
- B. If this bid is accepted by Owner within the time period stated above, we will:
 - 1. Furnish the required bonds within seven days of receipt of Notice of Award.
 - 2. Commence work within seven days after written Notice to Proceed of this bid.
- C. If this bid is accepted within the time stated, and we fail to commence the Work or we fail to provide the required Bond(s), the security deposit shall be forfeited as damages to Owner by reason of our failure,

limited in amount to the lesser of the face value of the security deposit or the difference between this bid and the bid upon which a Contract is signed.

- D. In the event our bid is not accepted within the time stated above, the required security deposit shall be returned to the undersigned, in accordance with the provisions of the Instructions to Bidders; unless a mutually satisfactory arrangement is made for its retention and validity for an extended period of time.

1.07 CONTRACT TIME

- A. If this Bid is accepted, we will:
 - 1. Complete the Work in 240 calendar days from Notice to Proceed.
- B. If the Substantial Completion date falls beyond the above date based on days, we will pay to the Owner the following amount as liquidated damages, not as a penalty, for each calendar day of delay for the Project until the actual date of Substantial Completion of the Project:

***** UP TO \$500.00 PER CALENDAR DAY *****

1.08 ADDENDA

- A. The following Addenda have been received. The modifications to the Bid Documents noted below have been considered and all costs are included in the Bid Sum. Add additional lines if needed.
 - 1. Addendum # _____ Dated _____
 - 2. Addendum # _____ Dated _____
 - 3. Addendum # _____ Dated _____
 - 4. Addendum # _____ Dated _____
 - 5. Addendum # _____ Dated _____

1.09 BID FORM SUPPLEMENTS

- A. The following information is included with Bid submission:
 - 1. Non Collusive Affidavit
 - 2. Bid Bond: Form AIA Document A310
 - 3. Letter from Insurance Company
 - 4. Proof of Contractor's State License
 - 5. Non-Resident Contractors: Attach a copy of your state's current law (refer to Instructions to Bidders for additional information)
- B. We agree to submit the following Supplements to Bid Forms within 7 days after submission of this bid for additional bid information:
 - 1. Schedule of Values on form AIA G703 broken down at a minimum by specification section.
 - 2. Construction Schedule .

1.10 BID FORM SIGNATURE(S)

I certify that I am authorized to enter into a binding contract, if this Proposal is accepted.

Name of Business (Complete legal spelling as represented at the state Contractor's Board)

Signature of Signee

Printed Name of Authorized Signing Officer and Title

1.11 IF THE BID IS A JOINT VENTURE OR PARTNERSHIP, ADD ADDITIONAL FORMS OF EXECUTION FOR EACH MEMBER OF THE JOINT VENTURE IN THE APPROPRIATE FORM OR FORMS AS ABOVE.

END OF SECTION

**SECTION 281000
– ACCESS CONTROLS****PRODUCTS****1.01 GENERAL**

- A. The basis of design in the I-Pro MonitorCast v4 system. Any alternate system shall be approved 10 days prior to bid.
- B. The security management system shall be deployed through IP network infrastructure with a two-tiered hardware hierarchy. The IP Door Controller shall be capable of running on an existing TCP/IP network and shall be accessible,configurable, and manageable from any network-connected PC with a browser.
- C. Browser access for configuration and administration of the system shall be possible from a PC on the same subnet, through routers and gateways from other subnets, and from the Internet. Control and management of the system shall therefore be geographically independent.
- D. The top hardware tier shall be the MonitorCast v4 Server based platform. Installed applications on the MonitorCast v4 Server is to be an operating system, a web MonitorCast v4 Server, security application software, and the database of personnel and system activity.
- E. The bottom hardware tier shall be the IP Door Controller. The IPDoor Controller shall make and manage accesscontrol decisions with data provided by the MonitorCast v4 Server, and it shall control the communication between the IPDoor Controller and door hardware connected to the IP Door Controller inputs, outputs, and readers. This modular design shall make it possible for the system to continue to manage access control and store system activity logs, even during network downtime. When network connectivity is re-established, the systemactivity logs shall be automatically re-integrated to the host server.

THE SYSTEM SHALL INTEGRATE, WITHIN A BROWSER INTERFACE; ACCESSCONTROL AND VIDEO MONITORING. THESE APPLICATIONS SHALL BE A FULLY BI-DIRECTIONAL INTEGRATED SOFTWARE ARCHITECTURE.

- A. The database tier shall use Microsoft SQL Server residing on the Server. Microsoft SQL Server on the Server shall be a full featured, high performance database management system. This shall provide a small footprint, low administration, and a highreliability relational database that is embedded without requiring the use of a separate PC Server.
- B. The Server tier shall be based on a Microsoft™ Server. This application shall provide a graphically rich security management application through a standard web browser.

- 2.02 ALL EQUIPMENT AND MATERIALS USED SHALL BE STANDARD COMPONENTS, REGULARLY MANUFACTURED, AND REGULARLY UTILIZED IN THE MANUFACTURER'S SYSTEM.**
- 2.03 ALL SYSTEMS AND COMPONENTS SHALL HAVE BEEN THOROUGHLY TESTED AND PROVEN IN ACTUAL USE.**
- 2.04 ALL SYSTEMS AND COMPONENTS SHALL BE PROVIDED WITH A MANUFACTURER WARRANTY OF ONE YEAR FOR SOFTWARE AND TWO YEARS FOR HARDWARE.**

OVERALL SYSTEM CAPABILITY

- 3.01 THE SECURITY MANAGEMENT SYSTEM SHALL MEET THE REQUIREMENTS OF BUSINESS AND GOVERNMENT ACCESS CONTROL SYSTEMS. THE SYSTEM SHALL MONITOR AND CONTROL FACILITY ACCESS AND SHALL PERFORM ALARM MONITORING AND INTEGRATION TO CAMERA AND VIDEO MONITORING. THE SYSTEM SHALL ALSO MAINTAIN A DATABASE OF SYSTEM ACTIVITY, PERSONNEL ACCESS CONTROL INFORMATION, AND SYSTEM USER PASSWORDS AND USER ROLE PERMISSIONS. THE SYSTEM SHALL BE CONTROLLED FROM A WEB BROWSER AND REQUIRE NO SOFTWARE INSTALLATION OR CLIENT LICENSES. THE SYSTEM SHALL PROVIDE CONTROL AND ACCESS TO USERS ON LOCAL AREA NETWORKS (LAN), WIDE AREA NETWORKS (WAN), WIRELESS NETWORKS, AND THE INTERNET. THE SYSTEM SHALL PROVIDE EMAIL AND/OR TEXT MESSAGE ALERTS FOR ALL ALARM CONDITIONS AND THREATS.**
- 3.02 SYSTEM PARTITIONING: THE SYSTEM ADMINISTRATOR SHALL HAVE THE ABILITY TO DIVIDE THE SYSTEM INTO PARTITIONS, ALLOWING SUBSETS OF THE OVERALL POPULATION AND/OR RESOURCES TO BE MANAGED SEPARATELY.**
FROM THE DEFAULT MASTER PARTITION, ONE OR MORE ADDITIONAL PARTITIONS SHALL BE ABLE TO BE CREATED.
 - A. Each partition shall contain some number of administrators, card holders with their credentials, and resources.
 - B. When performing administrative functions, the administrator of a partition shall have the ability to create or modify only the cardholders and resources in that partition. However, resources shall be able to be shared across partitions through the mapping of access levels from one partition to another.
 - C. System partitioning shall have a precision feature that allows administrators in one or more partitions to view and perform edit functions on person records that belong to another partition.
 - D. Administrators shall have the ability to search for person records across all partitions to which they have access. The system administrator shall have the ability to make such cross-partition searches the default for users who have access to multiple partitions.
 - E. After finding a personnel group record located in another partition, an administrator shall be able to click a button to switch to that partition directly from the personnel group record—and possibly edit the record, depending on his or her access rights in that partition. Alternatively, an option for making every person record seamlessly visible across all partitions shall be provided.

3.01 THE SYSTEM SHALL PROVIDE THE FOLLOWING ACCESS CONTROL CAPABILITIES:

- A. Integrated photo ID creation capability with video verification.
- B. User interface secured access under encrypted password control.
- C. Multiple Site Control.
- D. System-wide timed anti-pass back function.
- E. "First-in-unlock" rule enforcement.
- F. Multiple access levels and cards per person.
- G. Detailed time specifications.
- H. Simultaneous support for multiple card data formats.
- I. Compatibility with various input devices, including biometric readers.
- J. Activation/expiration date/time by person with one-minute resolution.
- K. Access level disable for immediate lockdown.

- L. Multiple holiday schedules.
- M. Timed unlock schedules.
- N. Dual-reader portal support.
- O. Wiegand Reader support.
- P. Magnetic-stripe reader support.
- Q. Wiegand keypad PIN support for 4-digit or 6-digit PINs.

3.02 THE SYSTEM SHALL PROVIDE THE FOLLOWING NATIVE OR VMS INTEGRATED MONITORING CAPABILITIES:

- A. The Home page shall allow users to view a full systems summary, including an Activity Log, Auto-Monitor, and dashboard functions.
- B. Common alarm panel integration for disarm on access, and arm on egress.
- C. Integrated real-time IP-based NVR systems with stored video replay for events.
- D. Provides alarms on communication loss.
- E. Provides the ability to record video and link to video for alarm events.
- F. A monitoring desktop that integrates video, system activity logs, floorplans, ID photos, and alarm notifications.
- G. Graphic floorplans with active icons of monitor and access control points.
- H. Secure access to the user interface under encrypted password control.
- I. Delivery of alerts via VMS Rules Manager or Automation and email.
- J. Remote logging of system messages to local host.

3.03 THE SYSTEM SHALL PROVIDE THE FOLLOWING INTEGRATED VMS VIDEO MANAGEMENT CAPABILITIES:

- A. Playback of event-related video.
- B. Integrated alarm inputs from the video management system.
- C. Digital playback of video events.
- D. Linking of video and events based on triggers provided by the system or video system.
- E. Support for multiple NVRs.
- F. Multiple pre-programmed supported cameras.
- G. Monitoring and control through a web browser interface.

3.04 THE SYSTEM SHALL PROVIDE THE FOLLOWING SECURITY DATABASE CAPABILITIES:

- A. Maintain data of system activity, personnel access control information, system user passwords and custom user role permissions for whole or partial access to system resources and data.
- B. LDAP integration for single-user logon authentication.
- C. Network-secure API for external application integration.
- D. Easy to use custom report generator.
- E. Record recall by vehicle tag, name, or card.
- F. An API for adding to, deleting from, and modifying the database.
- G. Storage of system user passwords and permissions.
- H. Storage and recall of ID photos and emergency personal information.
- I. Pre-defined reports on system configuration, system activity history, and people.
- J. Custom report writer interface that allows the interactive creation of custom reports. Reports may be saved for later reuse. No third-party software (such as Crystal Reports) shall be necessary.
- K. Selectable custom report output formats, including PDF & CSV.

- L. Custom report repository location. Users shall be able to review, cancel and delete reports from this data storage location.
- M. Email and text messaging (SMS) alert notifications.

HARDWARE REQUIREMENTS

4.01 THE SECURITY MANAGEMENT SYSTEM SHALL EMPLOY A MODULAR HARDWARE CONCEPT THAT ENABLES SIMPLE SYSTEM EXPANSION AND UTILIZES A TWO-TIERED HARDWARE HIERARCHY:

- A. At the top tier shall be a Server, which shall contain the data base engine, web Server, application software, and configuration data. It is at this level that System Users, through a browser interface, shall interact with the system, set configurations, monitor activities, run reports, and manage alarms.
- B. At the bottom tier shall be the IP Door Controller, an intelligent device with native TCP/IP & PoE support, which shall make and manage access control decisions, a set of inputs, outputs and readers.
- C. The network device shall run on existing building TCP/IP PoE networks and shall be configurable for access from separate subnets, through gateways and routers, and from the Internet.

4.02 A SYSTEM SERVER SHALL CONTAIN A PROCESSOR, FLASH MEMORY, AND STORAGE. EXTERNAL BATTERY BACKUP SHALL BE USED TO PROVIDE UNINTERRUPTED OPERATION IN THE EVENT OF EXTERNAL POWER LOSS. THE IP DOOR CONTROLLER SHALL CONTAIN IIS FOR COMMUNICATION WITH THE IP DOOR CONTROLLERS AND A NETWORK INTERFACE PORT. THE SYSTEM SERVER SHALL HAVE THE FOLLOWING CAPABILITIES:

| | |
|---|---------------------------------------|
| Door Controller (Mercury EP/LP boards) (AD-400/AD-300 Wireless locks) | 512 |
| Access Cards | No Limit |
| Card Formats | 15 per Controller |
| Alarm Input Points | 2,048 per Controller |
| Control Point Outputs | 2,048 per Controller |
| Ethernet Ports | 1 |
| Time Specifications | 512 per Controller |
| Holidays | 255 per Controller |
| Access Levels per Person | 15 per Person (32,000 per Controller) |
| Cards per Person | No Limit |
| Concurrent System Users | Unlimited |

4.03 THE IP DOOR CONTROLLER SHALL MAKE AND MANAGE ACCESS CONTROL DECISIONS WITH DATA PROVIDED BY THE SERVER, AND IT SHALL MANAGE THE COMMUNICATION BETWEEN THE IP DOOR CONTROLLER CONNECTED TO THE SYSTEM'S INPUTS, OUTPUTS, AND READERS. THE IP DOOR CONTROLLER SHALL BE POWERED WITH POE POWER INPUT 12.95 W (802.3 AF OR 12V DC 900 MA POWER SUPPLY) PROTOCOL. EACH IP DOOR CONTROLLER SHALL HAVE THE FOLLOWING CAPABILITIES:

| | |
|----------------------|-----------------|
| Access Control doors | 1 |
| Readers | 2 |
| Supervised Inputs | 2 |
| General Input | 2 |
| Relay Outputs | 2 |
| Connectivity | 10/100 Ethernet |
| Credential storage | 20,000 |
| Activity Log records | 27,000 |

4.04 THE IP DOOR SUB-CONTROLLER SINGLE DOOR SHALL MAKE AND MANAGE ACCESS CONTROL DECISIONS WITH DATA PROVIDED BY THE SERVER THROUGH THE IP DOOR SUB-CONTROLLER, AND IT SHALL MANAGE THE COMMUNICATION BETWEEN THE IP DOOR SUB-CONTROLLER CONNECTED TO THE SYSTEM’S INPUTS, OUTPUTS, AND READERS. THE IP DOOR CONTROLLER SHALL BE POWERED WITH POE POWER INPUT 12.95 W(802.3AF OR 12V DC 900MA POWER SUPPLY) PROTOCOL. EACH IP DOOR CONTROLLER SHALL HAVE THE FOLLOWING CAPABILITIES:

| | |
|---------------------|-----------------|
| Access controldoors | 1 |
| Readers | 1 |
| Supervised Input | 4 |
| Relay Outputs | 2 |
| Connectivity | 10/100 Ethernet |

4.05 THE DOOR SUB-CONTROLLER SINGLE DOOR SHALL MAKE AND MANAGE ACCESS CONTROL DECISIONS WITH DATA PROVIDED BY THE SERVER THROUGH THE IP DOOR CONTROLLER, AND IT SHALL MANAGE THE COMMUNICATION BETWEEN THE IP DOOR SUB-CONTROLLER CONNECTED TO THE SYSTEM’S INPUTS, OUTPUTS, AND READERS.THE IP DOOR SUB-CONTROLLER SHALL BE CONNECTED TO IP DOOR CONTROLLER USING RS-485 PROTOCOL. EACH IP DOOR SUB-CONTROLLER SHALL HAVE THE FOLLOWING CAPABILITIES:

| | |
|----------------------|------------------|
| Access Control Doors | 1 |
| Readers | 1 |
| General Input | 2 (Programmable) |
| Dedicated Input | 1 |
| Relay Outputs | 2 |
| Connectivity | RS-485 |

4.06 THE DOOR SUB-CONTROLLER TWO DOOR SHALL MAKE AND MANAGE ACCESS CONTROL DECISIONS WITH DATA PROVIDED BY THE SERVER THROUGH THE IP DOOR CONTROLLER, AND IT SHALL MANAGE THE COMMUNICATION BETWEEN THE IP DOOR SUB-CONTROLLER CONNECTED TO THE SYSTEM’SINPUTS, OUTPUTS AND READERS. THE IP DOOR SUB-CONTROLLER SHALL BE CONNECTED TO IP DOOR CONTROLLER USING RS-485 PROTOCOL. EACH IP DOOR SUB-CONTROLLER SHALL HAVE THE FOLLOWING CAPABILITIES:

| | |
|----------------------|------------------|
| Access Control Doors | 2 |
| Readers | 1 |
| General Input | 8 (Programmable) |
| Dedicated Input | 2 |
| Relay Outputs | 6 |
| Connectivity | RS-485 |

4.07 THE SERIAL INPUT SUB-CONTROLLER SHALL MAKE AND MANAGE ACCESSCONTROL DECISIONS WITH DATA PROVIDED BY THE SERVER THROUGH THE IP DOOR CONTROLLER, AND IT SHALL MANAGE THE COMMUNICATION BETWEEN THE IP SERIAL INPUT SUB-CONTROLLER CONNECTED TO THE SYSTEM’S INPUTS AND OUTPUTS.THE IP SERIAL INPUT SUB-CONTROLLER SHALL BE CONNECTED TO IP DOOR CONTROLLER USING RS-485 PROTOCOL. EACH IP SERIAL INPUT SUB-CONTROLLER SHALL HAVE THE FOLLOWING CAPABILITIES:

| | |
|------------------|-------------------|
| General Input | 16 (Programmable) |
| Deedicated Input | 2 |
| Relay Outputs | 2 |
| Connectivity | RS-485 |

4.08 THE SERIAL OUTPUT SUB-CONTROLLER SHALL MAKE AND MANAGE ACCESS CONTROL DECISIONS WITH DATA PROVIDED BY THE SERVER THROUGH THE IP DOOR CONTROLLER, AND IT SHALL MANAGE THE COMMUNICATION BETWEEN THE IP SERIAL OUTPUT SUB-CONTROLLER CONNECTED TO THE SYSTEM'S INPUTS & OUTPUTS. THE IP SERIAL OUTPUT SUB-CONTROLLER SHALL BE CONNECTED TO IP DOOR CONTROLLER USING RS-485 PROTOCOL. EACH IP SERIAL OUTPUT SUB-CONTROLLER SHALL HAVE THE FOLLOWING CAPABILITIES:

| | |
|------------------|--------|
| General Output | 16 |
| Dedicated Inputs | 2 |
| Connectivity | RS-485 |

HARDWARE PACKAGING REQUIREMENTS

5.01 THE SECURITY MANAGEMENT SYSTEM SHALL HAVE VARIOUS HARDWARE ENCLOSURES AND CONFIGURATIONS AVAILABLE TO SUPPORT DIFFERENT INSTALLATION REQUIREMENTS. ENCLOSURES SHALL BE AVAILABLE FOR WALL OR RACK MOUNTING. THE WALL-MOUNT ENCLOSURES SHALL HAVE A LOCK REQUIRING A KEY.

SYSTEM SERVER AND IP DOOR CONTROLLER SPECIFICATIONS

5.01 THE SERVER SHALL BE POWERED BY PLATINUM EFFICIENCY HOT PLUG REDUNDANT 495W OR 750W POWER SUPPLY.

| | |
|----------------|------------------------------------|
| OS | Windows Server 2008 R2/2012 |
| Storage | 200 GB (Minimum) |
| Processor | Intel I5 Class Processor or Higher |
| RAM | 8 GB |
| Ethernet Ports | 1 |
| Warranty | 3 Years |

5.02 EACH IP DOOR CONTROLLER SHALL BE POWERED BY POE IN ACCORDANCE WITH IEEE 802.3AF STANDARD. WITH POE AS THE POWER SOURCE THE TOTAL POWER AVAILABLE FOR ALL EXTERNAL OUTPUTS IS 12V DC @ 650MA. IP DOOR CONTROLLERS SHALL HAVE THE FOLLOWING CHARACTERISTICS:

| | |
|----------------------------|---------------|
| TTL Reader Connectors | 2 |
| RS-485 Reader Connectors | 1 |
| Power Available for Output | 650 Milliamps |
| Input Connectors | 2 |
| Output Connectors | 2 |

5.03 EACH IP DOOR SUB-CONTROLLER SHALL BE POWERED BY POE IN ACCORDANCE WITH IEEE 802.3AF STANDARD. WITH POE AS THE POWER SOURCE THE TOTAL POWER AVAILABLE FOR ALL EXTERNAL 12V IP DOOR CONTROLLERS SHALL HAVE THE FOLLOWING CHARACTERISTICS:

| | |
|----------------------------|---------------|
| TTL Reader Connectors | 1 |
| Power Available to Readers | 150 Milliamps |
| Input Connectors | 4 |
| Output Connections | 2 |

5.04 EACH SINGLE DOOR SUB-CONTROLLER SHALL BE POWERED BY MAY BE SUPPLIED WITH 12-24VDC AT 3 AMPS. WITH A 12 V DC 3A POWER SUPPLY, THE TOTAL POWER AVAILABLE FOR ALL EXTERNAL OUTPUTS SHALL BE 1100 MA (13 WATTS). IP DOOR CONTROLLERS SHALL HAVE THE FOLLOWING CHARACTERISTICS:

| | |
|----------------------------|---------------|
| TTL Reader Connectors | 1 |
| Power Available to Readers | 150 Milliamps |
| Input Connectors | 3 |
| Output Connections | 2 |
| Communication Protocol | RS-485 |

5.05 EACH TWO DOOR SUB-CONTROLLER SHALL BE POWERED BY MAY BE SUPPLIED WITH 12-24V DC AT 3 AMPS. WITH A 12V DC 3A POWER SUPPLY THE TOTAL POWER AVAILABLE FOR ALL EXTERNAL OUTPUT SHALL BE 1100 MA (13 WATTS). IP DOOR CONTROLLERS SHALL HAVE THE FOLLOWING CHARACTERISTICS:

| | |
|----------------------------|---------------|
| TTL Reader Connectors | 2 |
| Power Available to Readers | 150 Milliamps |
| Input Connectors | 10 |
| Output Connections | 2 |
| Communication Protocol | RS-485 |

5.06 EACH SERIAL INPUT SUB-CONTROLLER SHALL BE POWERED BY MAY BE SUPPLIED WITH 12-24V DC AT 3 AMPS. WITH A 12V DC 3A POWER SUPPLY THE TOTAL POWER AVAILABLE FOR ALL EXTERNAL OUTPUT SHALL BE 1100 MA (13 WATTS). IP DOOR CONTROLLERS SHALL HAVE THE FOLLOWING CHARACTERISTICS:

| | |
|----------------------------|--------|
| General Input Connectors | 16 |
| Dedicated Input Connectors | 2 |
| Output Connections | 2 |
| Communication Protocol | RS-485 |

5.07 EACH SERIAL INPUT SUB-CONTROLLER SHALL BE POWERED BY MAY BE SUPPLIED WITH 12-24V DC AT 3 AMPS. WITH A 12V DC 3A POWER SUPPLY THE TOTAL POWER AVAILABLE FOR ALL EXTERNAL OUTPUT SHALL BE 1100 MA (13 WATTS). IP DOOR CONTROLLERS SHALL HAVE THE FOLLOWING CHARACTERISTICS:

| | |
|---------------------------|--------|
| General Output Connectors | 16 |
| Input Connections | 2 |
| Communication Protocol | RS-485 |

SOFTWARE REQUIREMENTS

6.01 OPERATING SYSTEM AND APPLICATION SOFTWARE SHALL HAVE THE FOLLOWING CHARACTERISTICS:

- A. The Server operating system shall be Windows Server 2008R2 or Windows Server 2012 Operating System.
- B. The system database shall be SQL Server Express requiring a small footprint and providing high reliability. The Server shall provide users with access and operate the system using a standard web browser.
- C. The system shall support the following web browsers:
 - 1. For the security management system, the listed browsers shall include Internet Explorer, Firefox, Chrome and Safari.
- D. Software Licensing shall have the following characteristics:
 - 1. Software licensing shall be based upon the number of cameras licenses you have per server and individual lifetime licensing in situations where doors out number cameras at the project site.
 - 2. Licensing shall be controlled by a Serial Key and an Activation Code. The Serial Key shall contain the licensed system limits. System upgrade licensing to enable more cameras or more doors shall require a Serial Key re-activation. The key shall be locked to the system license number.
- E. Software upgrades shall be possible from a browser on any network-connected PC, by uploading a software update to the IP Door Controller. No client software installation shall be necessary.
- F. Online Help and Documentation - The system shall be provided with complete online documentation. The online documentation shall include:
 - 1. Technical Support Notes - These documents shall be in PDF format, shall be printable, and shall be linked to from the Help system table of contents, index, and related topics.
 - 2. Installation Guides - These documents shall be in PDF format, shall be printable, and shall be linked to from the Help system table of contents, index, and related topics.

3. Video Integration Guides - These documents shall be in PDF format, shall be printable, and shall be linked to from the Help system table of contents, index, and related topics.
 4. End-User Task Guide - This document shall be in PDF format, shall be printable, and shall be linked to from the Help system table of contents, index, and related topics.
- G. Language Support - The system shall be provided with multiple language support. The ability to switch from one language to another shall be accomplished through the user interface. Translation of the user interface, online help and documentation into other languages shall be available. The languages supported shall include:
1. English
- H. Date Formats - The system shall support global date formats as follows:
1. mm/dd/yyyy
 2. dd/mm/yyyy
 3. yyyy/mm/dd
- I. Floor plans - The system shall provide graphic floorplan capability including graphic display of door status and entry direction. Floor plans shall have the following characteristics:
1. The Network Administrator shall be able to graphically configure device icons onto the floorplan images, and to upload additional floorplan images. JPEG images shall be supported, and the maximum size for a floorplan image shall be 256K.
- J. Personnel Data - The system shall maintain person data relating to access control, system user privileges, photo identification, system activity, and contact information.
1. All person data in the system shall be integrated onto one page for viewing, editing, and deletion by system users.
 2. A system user holding at least an "Administrator" user role shall be able to create, delete, and modify person records, including access levels, schedules & resource groups.
 3. A system user holding at least a "Administrator" user role shall be able to configure the display of person records.
- K. Access Control:
1. The system shall be able to make access control decisions, define a variety of access levels and time specifications, write system activity into a log file, maintain a personnel enrollment database, receive signals from input devices such as door switch monitors, card readers and motion detectors, energize devices such as door locks and alarms via outputs.
 2. Card Formats - The system shall support the use of readers that use the Wiegand Reader Interface. The system shall also support the use of the Magnetic Stripe ABA track 2 card data formats.
 - a. It shall be possible to create new card formats, designate start bits and bit lengths for facility codes and card ID numbers, as well as designate parity bits. The system shall support up to 32 different card formats.
- L. Access Levels - The system shall be capable of storing unlimited access levels in each partition.
- a. The definition of an access level shall require the assignment of a reader or reader group, and a time specification.
- M. First-in Unlock Rule - The system shall support the use of a First-in unlock rule. It shall be possible to use this rule to control the unlock behavior of portal groups with assigned unlock time specs.
1. The First-in unlock rule shall require a card read of a specified access level. The portals in the group shall unlock only when the rule is satisfied and the unlock time spec is valid.
- N. Holidays - The system shall be capable of storing up to 5 holidays per system. Each holiday shall be assigned a unique alphanumeric name. The definition of a holiday shall require a start date and an end date. Holidays shall have the ability to span several days using only one holiday slot. Holiday definitions shall support the designation of a start time and an end time. If no start time is designated, then the system shall default to 00:00 (start-of-day). If no end time is designated, then the system shall default to 24:00 (end-of-day). Holidays shall require the use of 24-hour time format, e.g. 17:00 is 5:00PM.
- O. Reports:
1. The system shall be capable of producing a variety of predefined reports regarding software and security hardware configuration, event history, and the administration of people within the system.

- P. The system shall support a graphic interface for interactively building custom reports from either historical or personnel data. These reports shall be savable for later reuse. Parameters shall be inserted into reports to prompt for data input at report runtime. Report results shall be printed, output to a PDF file or put into a spreadsheet.
1. The system shall be capable of sorting users by various criteria, including email address, and allow for email groups to be selected for auto-distribution.
 2. Report generation shall not affect the real-time operation of the system.
 3. The specific reports provided shall include the following:
 - a. Configuration Reports
 - 1) Access History - Displays access history based on an entered query. The system user can specify the query using either the keyboard or point-and-click selection.
 - 2) Custom Report - This provides the capability to create custom reports of historical data.
 - 3) General Event History - Displays time, type of activity, and activity details for a variety of event types. The system user can select the specific event types for the report.
 - 4) Audit Trail: Displays an audit trail of system changes and the name of the system user that made the changes. It shall be possible to specify the dates and times covered in the report.
 - b. People Reports
 - 1) Access Levels - Displays all access levels entered into the system including time specification, reader/reader group, and floor group.
 - 2) Credential Audit - Lists existing credentials by their current status settings (such as Active, Damaged, Lost, or Not Used). Before running the report, users can filter the data to see only credentials with a particular status setting, or only credentials that were not used with a specific number of days from the date they were issued.
 - 3) Current Users - Displays a list of all security system users currently logged in to the security system website.
 - 4) Custom Report - This provides the capability to create custom reports of personnel data. A graphic interface provides the user with the ability to interactively create and save reports for later use. Parameters can be inserted into reports to prompt for data input at report runtime. Custom report configuration shall include page size, orientation, column width and shall automatically notify the user if the selected configuration exceeds the selected page size.
 4. Administration - The system shall provide for the performance of system administration tasks from any network-connected computer with a browser. These administrative tasks shall include but not be limited to:
 - a. Generating reports:
 - 1) The system shall be capable of producing a variety of predefined reports regarding software and security hardware configuration, event history, and the administration of people within the system.
 - 2) Alternatively, the system shall support a graphic interface for interactively building custom reports from either historical or personnel data. These reports shall be savable for later reuse. Parameters can be inserted into reports to prompt for data input at report runtime. Report results can be printed, output to a PDF file or put into a spreadsheet.
 - 3) A system user holding "Administrator" permissions shall be able to view and create reports.
 5. Database backups:
 - a. It shall also be possible for the system users to create such database backups at any time. Any database backups onboard the Server may also be downloaded to IP Door Controller storage by the system user at any time.
 6. System restore:
 - a. The system shall be able to restore its database, or the full system data, from a backup. Restoration of the system shall only be possible from a backup copy onboard the Server. It shall, therefore, be possible to upload a copy of a database backup from any network attached storage.
 7. Software updates:

- a. Software updates, upgrades and patches shall be provided from time to time. The system shall be able to update its software from these files. Update of the application software shall only be possible from an update file onboard the Server. It shall, therefore, be possible to upload a copy of the software update from any network attached storage or from any PC drive or desktop.
- b. Software updates may involve the Server only or may include updates for the IP Door Controller also. The monitoring of the security system may be unavailable for several minutes during this process.
8. Enrolling new people - All person data entered into the system shall be held in the system database and shall be available only to system users holding at least the Administer user role. Person data can be added, deleted, and edited by such system users.
9. Configuring network resources:
 - a. DNS - The system shall support setting IP addresses for up to two domain name Servers.
 - b. Email settings - The system shall support the use of email notifications of alarm events. The system user must setup the email Server IP address or DNS name and the email address of the Network Controller. A network administrator must setup the network mail Server to relay email for the IP address of the Network Controller.
 - c. Time Servers - The system shall support the use of network time Servers. Up to three Servers can be designated. Use of a network time Server ensures that the Network Controller and its nodes will be regularly synchronized with the exact time used by all other network resources.
 - d. A system user holding "Setup" permissions shall be able to configure network resources.
10. LDAP - It shall be possible to configure an Active Directory Server with the system.
 - a. This shall provide single user-login capability.
 - b. Password rules and authentication shall be governed by the LDAP Server.

CERTIFICATIONS

7.01 UL 294 LISTED.

7.02 ISO 9000 LISTED.

7.03 CE COMPLIANT.

7.04 ROHS.

END OF SECTION